



## agriculture, land reform & rural development

Department:  
Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA

**CONTRACT No.: SSC WC 1 (2024/2025) DALRRD**

**A Tender for Category 6GB or higher CIDB Registered Contractors**

**THE APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3  
EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

Name of Tenderer : \_\_\_\_\_  
Name of duly authorised person : \_\_\_\_\_  
Address : \_\_\_\_\_  
Tel. Number : \_\_\_\_\_  
Cell number : \_\_\_\_\_  
Fax number : \_\_\_\_\_  
E-mail : \_\_\_\_\_  
Receipt number : \_\_\_\_\_  
Amount Offered (15% VAT incl.) : \_\_\_\_\_  
B-BBEE Status : \_\_\_\_\_  
Duration (Months) : \_\_\_\_\_

**ISSUED BY:**

**BY:**

Director: Finance and Supply Chain Management Services  
Department Agriculture Land Reform and Rural Development  
14 Long Street  
CAPE TOWN  
8000  
Tel: 021 409 0300

**PREPARED**

WEC-Consult  
Unit 24, Oewerpark, Rokewood Road  
Stellenbosch  
7613  
Tel: 021 886 6895/6



# agriculture, land reform & rural development

Department:  
Agriculture, Land Reform and Rural Development  
**REPUBLIC OF SOUTH AFRICA**

**CONTRACT No.: SSC WC 1 (2024/2025) DALRRD**

## THE TENDER

**for the**

**APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

**CLOSING DATE: 30 April 2024**

**CLOSING TIME: 11:00**

**ISSUED BY:**

Director: Finance and Supply Chain Management Services  
Department Agriculture Land Reform and Rural Development  
14 Long Street  
CAPE TOWN  
8000  
Tel: 021 409 0300

**PREPARED BY:**

WEC-Consult  
Unit 24, Oewerpark, Rokewood Road  
Stellenbosch  
7613  
Tel: 021 886 6895/6

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**PART A**  
**INVITATION TO BID**

**YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF AGRICULTURE, LAND REFORM & RURAL DEVELOPMENT**

|             |                                                                                                                                                     |               |               |               |       |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|-------|
| BID NUMBER: | <b>SSC WC 1 (2024/2025) DALRRD</b>                                                                                                                  | CLOSING DATE: | 30 April 2024 | CLOSING TIME: | 11:00 |
| DESCRIPTION | <b>APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE</b> |               |               |               |       |

**BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT**

**14 Long Street**

**Cape Town**

**8000**

| <b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO</b> |                         | <b>TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b> |                        |
|-------------------------------------------------------|-------------------------|------------------------------------------------|------------------------|
| CONTACT PERSON                                        | Mzubanzi Mntumni        | CONTACT PERSON                                 | Mac Nodliwa            |
| TELEPHONE NUMBER                                      | 021 409 0523            | TELEPHONE NUMBER                               | 021 409 0300           |
| FACSIMILE NUMBER                                      |                         | FACSIMILE NUMBER                               |                        |
| E-MAIL ADDRESS                                        | MzubanziM@dalrrd.gov.za | E-MAIL ADDRESS                                 | mnodliwa@dalrrd.gov.za |

**SUPPLIER INFORMATION**

|                            |                            |  |        |                               |      |
|----------------------------|----------------------------|--|--------|-------------------------------|------|
| NAME OF BIDDER             |                            |  |        |                               |      |
| POSTAL ADDRESS             |                            |  |        |                               |      |
| STREET ADDRESS             |                            |  |        |                               |      |
| TELEPHONE NUMBER           | CODE                       |  | NUMBER |                               |      |
| CELLPHONE NUMBER           |                            |  |        |                               |      |
| FACSIMILE NUMBER           | CODE                       |  | NUMBER |                               |      |
| E-MAIL ADDRESS             |                            |  |        |                               |      |
| VAT REGISTRATION NUMBER    |                            |  |        |                               |      |
| SUPPLIER COMPLIANCE STATUS | TAX COMPLIANCE SYSTEM PIN: |  | OR     | CENTRAL SUPPLIER DATABASE No: | MAAA |

**[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]**

|                                                                                                                                                                                                   |                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A. ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?</b><br><br><input type="checkbox"/> Yes <input type="checkbox"/> No<br>[IF YES ENCLOSE PROOF] | <b>B. ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?</b><br><br><input type="checkbox"/> Yes <input type="checkbox"/> No<br>[IF YES, ANSWER THE QUESTIONNAIRE BELOW] |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS**

|                                                                                                                                                                                                                            |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?                                                                                                                                                            | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| DOES THE ENTITY HAVE A BRANCH IN THE RSA?                                                                                                                                                                                  | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?                                                                                                                                                                 | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?                                                                                                                                                                      | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?                                                                                                                                                                  | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| <b>IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.</b> |                                                          |

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**1. BID SUBMISSION:**

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE JBCC PRINCIPAL BUILDING AGREEMENT EDITION 6.2, MAY 2018 AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**

**2. TAX COMPLIANCE REQUIREMENTS**

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE [WWW.SARS.GOV.ZA](http://WWW.SARS.GOV.ZA).
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

## **PART B TERMS AND CONDITIONS FOR BIDDING**

**NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.**

SIGNATURE OF BIDDER: .....

CAPACITY UNDER WHICH THIS BID IS SIGNED: .....  
(Proof of authority must be submitted e.g. company resolution)

DATE: .....

\_\_\_\_\_

Contractor

\_\_\_\_\_

Witness 1

\_\_\_\_\_

Witness 2

\_\_\_\_\_

Employer

\_\_\_\_\_

Witness 1

\_\_\_\_\_

Witness 2



**ENSURE THAT PRIOR TO SUBMITTING THE TENDER TO THE DEPARTMENT THE FOLLOWING INFORMATION IS COMPLETED AND ATTACHED**

**CHECK LIST (SM1)**

|                                                                                                                                                                         |                                                                                                                                                       |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| This list is to assist all bidders to submit complete proposals. Bidders are to check the following points before the submission of their proposals: (YES - ✓ ; NO - X) |                                                                                                                                                       |                          |
| 1                                                                                                                                                                       | All pages of the document have been read by the contractor and initialled.                                                                            | <input type="checkbox"/> |
| 2                                                                                                                                                                       | Any discrepancy and/or misunderstanding is cleared with the relevant officials.                                                                       | <input type="checkbox"/> |
| 3                                                                                                                                                                       | All pages requiring information have been <b><u>completed in black ink.</u></b>                                                                       | <input type="checkbox"/> |
| 4                                                                                                                                                                       | The Schedule of Quantities has been checked for arithmetic correctness.                                                                               | <input type="checkbox"/> |
| 5                                                                                                                                                                       | Totals from each sub section of the Schedule of Quantities have been carried forward to the summary page and done so correctly.                       | <input type="checkbox"/> |
| 6                                                                                                                                                                       | The total from the summary page has been carried forward to the Form of Offer.                                                                        | <input type="checkbox"/> |
| 7                                                                                                                                                                       | Surety details where applicable have been included in the proposal.                                                                                   | <input type="checkbox"/> |
| 8                                                                                                                                                                       | All sections requiring information have been completed.                                                                                               | <input type="checkbox"/> |
| 9                                                                                                                                                                       | Bidder ensured that all documents is properly completed and signed                                                                                    | <input type="checkbox"/> |
| 10                                                                                                                                                                      | The contractor has complied with the proposal prerequisites.                                                                                          | <input type="checkbox"/> |
| 11                                                                                                                                                                      | Indicate / Attach CRS printout from CIDB (in case of JV, ensure that the lead partner's as well as JV partners CRS numbers are indicated on the form) | <input type="checkbox"/> |
| 12                                                                                                                                                                      | Signed Letter of authority on Company Letterhead is attached                                                                                          | <input type="checkbox"/> |
| 13                                                                                                                                                                      | Attached a Valid Tax Clearance Certificate or provided a Compliance Tax Status Pin of main bidder, JV partner and all sub-contractors                 | <input type="checkbox"/> |
| 14                                                                                                                                                                      | Attached a Valid Tax Clearance Certificate or provided a Compliance Tax Status Pin of all sub-contractors                                             | <input type="checkbox"/> |
| 15                                                                                                                                                                      | Attended the compulsory meeting                                                                                                                       | <input type="checkbox"/> |
| 16                                                                                                                                                                      | Did you Tamper with the document? <b><u>(Not Allowed)</u></b>                                                                                         | <input type="checkbox"/> |
| 17                                                                                                                                                                      | Used correction fluid? <b><u>(Not allowed)</u></b>                                                                                                    | <input type="checkbox"/> |
| 18                                                                                                                                                                      | Are mistakes made on the prices and/or form of offer, crossed out in ink and altered on each price (and initialled next to each mistake)?             | <input type="checkbox"/> |
| 19                                                                                                                                                                      | Is the form of offer fully completed and signed by the authorized signatory                                                                           | <input type="checkbox"/> |
| 20                                                                                                                                                                      | Central Supplier Database (CSD) Registration provided of main bidder, JV partner                                                                      | <input type="checkbox"/> |
| 21                                                                                                                                                                      | Central Supplier Database (CSD) Registration provided of all sub-contractor                                                                           | <input type="checkbox"/> |
| 22                                                                                                                                                                      | Are all addenda issued completed and returned (if applicable)                                                                                         | <input type="checkbox"/> |

\_\_\_\_\_  
Signature of Authorized Person

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Employer

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Witness 2

# THE TENDER

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

# PART T1: TENDERING PROCEDURES

For a proposed  
contract between

**Department Agriculture Land Reform and Rural  
Development  
(the Employer)**

And

\_\_\_\_\_  
**(the Contractor)**

For

**APPOINTMENT OF A CONTRACTOR FOR THE  
CONSTRUCTION OF 3 EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN THE  
OVERSTRAND LOCAL MUNICIPALITY,  
WESTERN CAPE**

Documentation prepared by:

**WEC-CONSULT**

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Witness 2

\_\_\_\_\_  
Employer

\_\_\_\_\_  
Witness 1

\_\_\_\_\_  
Witness 2

# TENDER NOTICE AND INVITATION TO TENDER

## DESCRIPTION:

\*Note: Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be constructed to have the same meaning as the words "Tender" or "Tenderer".

Tenders are hereby invited to tender to the Government of the Republic of South Africa (Department of Agriculture Land Reform and Rural Development) for the Tenders for **THE APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE**

The **80/20** Preferential Procurement Point Formula as set out in the PPPFA, Act no. 5 of 2000 and its associated Regulations of 2022, will be applied. Where a maximum of Eighty (80) tender adjudication points will be awarded for price and Twenty (20) points will be awarded for preference special goals.

## CONDITIONS:

Only bidders who satisfy the eligibility criteria stated in the Tender Data (Clause C2.11) are eligible to submit tenders.

It is estimated that tenderers should have a CIDB contractor grading as follows: **6GB or higher**.

The lowest or any tender will not necessarily be accepted, and the Department reserves the right to accept a tender as a whole or in part.

Tenders must remain valid for a period of **90 days** after the closing date for the submission of tenders, during which period a tender may not be amended or withdrawn and may be accepted at any time by the Department.

Bids will be opened in public. No late submissions will be considered. Telegraphic, telexed, facsimiled or e-mail submissions will not be accepted. Failure to meet the **mandatory requirements** required in this Bid will result in the submissions being deemed null and void and shall be considered non-responsive.

**NOTE: SUBMIT ALL TENDERS ON THE OFFICIAL FORMS – DO NOT RETYPE.**

Bid document will be available upon request through email from **MzubanziM@dalrrd.gov.za** and published on the e-Tender portal, CIDB portal and Departmental website.

## Contact SCM:

Mr. Mzubanzi Mntumni  
Demand and Acquisition Management Services  
14 Long Street | Cape Town  
PSSC: Western Cape | Department of Agriculture, Land Reform and Rural Development  
Tell: +27 021 409 0523

**DOCUMENTS CAN BE OBTAINED ON THE DEPARTMENTAL WEBSITE ELECTRONICALLY ISSUED BID DOCUMENTS ARE FREE OF CHARGE.**

<https://www.dalrrd.gov.za/Tenders>

and

<https://admin.etenders.gov.za/Identity/Account/Login?ReturnUrl=%2F/>

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**Contract: SSC WC 1 (2024/2025) DALRRD**  
**Part T1: Tendering Procedures**  
**Section T1.1: Tender Notice and Invitation to Tender**

---

**NOTE:** No telephonic or any other form of communication relating to this bid will be permitted with any other staff by bidders other than with the named individuals stated below.

**All enquiries regarding this bid must be directed to:**

**ENQUIRIES – TECHNICAL RELATED:**

WEC-Consult  
Mr. Norman van der Merwe  
Tel: 021 886 6895/6  
Email: [norman@wec-consult.co.za](mailto:norman@wec-consult.co.za)

**OR** Department: Agriculture, Land Reform  
and Rural Development  
Mr. Mac Nodliwa  
Tel: (021) 409 0367  
E-mail: [mnodliwa@dalrrd.gov.za](mailto:mnodliwa@dalrrd.gov.za)

**ENQUIRIES – SUPPLY CHAIN MANAGEMENT/TENDER RELATED:**

Department of Agriculture Land Reform and Rural Development  
14 Long Street  
Cape Town  
8000

Mr Mzubanzi Mntumni  
14 Long Street  
Cape Town  
8000  
Tel: (021) 409 0523  
E-mail: [MzubanziM@dalrrd.gov.za](mailto:MzubanziM@dalrrd.gov.za)

**COMPULSORY SITE INSPECTION:**

A compulsory clarification meeting will be held at Kleinmond Public Library in Kleinmond on 19 April 2024 at 10h00, with co-ordinates 34°20'25"S 19°01'55"E (c/o 3<sup>rd</sup> Street & 5<sup>th</sup> Avenue), after which the tenderers will be accompanied to the sites for a visual inspection with the following approximate site co-ordinates:

Bambanani - Kleinmond, Western Cape - 34°20'17.03" S, 19°00'31.02" E.  
Masakhane – Gansbaai, Western Cape - 34°35'27.95" S, 19°21'37.06" E.  
Eluxolweni – Pearly Beach, Western Cape - 34°39'12.57" S, 19°29'16.81" E

**Please note that a 15 minute grace period will be given to late comers at the clarification meeting.**

**TENDERS TO BE DEPOSITED IN:**

The original and completed bid document shall be placed in a sealed envelope clearly marked with the tender number, closing date and time and the following description:

**THE APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE**

and must be addressed to:

**DIRECTOR: FINANCE AND SUPPLY CHAIN MANAGEMENT SERVICES, DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT**

Tenders can only be submitted in the Tender Box in CAPE TOWN at:  
Department of Agriculture, Land Reform and Rural Development  
14 Long Street  
CAPE TOWN  
8000

**Should the tenderers not comply with the above instructions their bid proposals will be disregarded and returned unopened to the bidder.**

The tender box will be closed on **30 April 2024 at 11h00**, which is the closing time of the tender. Tenderers should ensure that tenders are delivered timeously to the correct address.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SECTION T1.2: TENDER DATA

SECTION T1.2.1: CONDITIONS OF TENDER

The Conditions of Tender are the Standard Conditions of Tender as contained in Annexure C of August 2019, Construction Industry Development Board (CIDB) Standard for Uniformity in Engineering and Construction Works Contracts as amended (see [www.cidb.org.za](http://www.cidb.org.za)). Tenderers must obtain their own copies of the Standard Conditions of Tender.

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender:

SECTION T1.2.2: TENDER DATA

The clause numbers in the Tender Data refer to the corresponding clause numbers in the Conditions of Tender.

The additional Conditions of Tender are:

| Item  |                                     | Data                                                                                                                                                                                                                                                                         |
|-------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C.1   | GENERAL                             | ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER                                                                                                                                                                                                                        |
| C.1.1 | Actions                             | The Employer is the “Department Agriculture Land Reform and Rural Development”.<br>The term “bid” in the context of this standard is synonymous with term “tender”.                                                                                                          |
| C.1.2 | Tender Documents                    | This document ( <b>Volume 1</b> ) in which are bound the Tendering Procedures, Returnable Documents, Agreements and Contract Data, Pricing Data, Scope of Works, Site Information and Drawings.                                                                              |
| C.1.3 | Interpretation                      | Add the following new clause: “1.3.3”<br>The tender documents have been drafted in English. The contract arising from the invitation of tender shall be interpreted and construed in English.                                                                                |
| C.1.4 | Communication and Employer’s Agent: | <b>Company</b> : WEC-Consult<br><b>Contact</b> : Norman van der Merwe<br><b>Address</b> : Unit 24, Oewerpark, Rokewood Road, Stellenbosch, 7613<br><b>Tel No.</b> : 021 886 6895/6<br><b>E-mail</b> : <a href="mailto:norman@wec-consult.co.za">norman@wec-consult.co.za</a> |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

| Item  |                                                                              | Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C.2   | TENDERER'S OBLIGATIONS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| C.2.1 | <b>Eligibility:</b>                                                          | <p>Only those Tenderers who are registered with the CIDB, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a <b>6GB</b> or Higher Class of construction work, are eligible to submit tenders.</p> <p>Joint ventures are eligible to submit tenders provided that they comply with all three of the following conditions:</p> <ol style="list-style-type: none"> <li>1. Every member of a joint venture is registered with the CIDB.</li> <li>2. The lead partner has a contractor grading designation of <b>not lower than one level below</b> the required grading designation of <b>6GB</b> of construction work.</li> <li>3. The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor designation determined in accordance with the sum tendered for a <b>6GB</b> class of construction work, is eligible to submit tenders.</li> </ol> |
|       |                                                                              | Tenderers must have attended the compulsory clarification inspection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|       |                                                                              | <p>Bidders must be registered on the National Treasury Central Supplier Database and attach a report as proof or write the CSD supplier number or registration number on the space provided on the SBD 1 document.</p> <p>Where consortium/ joint ventures are involved, each party to the association must submit separate Tax Clearance requirements separate CSD reports or confirm the CSD number on their respective letterhead. (SDB 1 form).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|       |                                                                              | <p>Compliance with all Tax Clearance requirements: Attach a Valid Tax Clearance Certificate/ provide a Compliance Tax Status Pin on the space provided on the SBD 1 form.</p> <p>Where consortium/ joint ventures are involved, each party to the association must submit separate Tax Clearance requirements.</p> <p>Where no Tax clearance certificate or pin is available, but the bidder is registered on the central supplier database (CSD), a CSD number must be provided on Form SBD 1 as per Clause iii) a.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|       |                                                                              | Where the bidder forms a consortium or joint venture, written Proof of the contract between all parties must be attached                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|       |                                                                              | The Form of Offer must be completed in full and signed by the duly authorized person. Failure of a Tenderer to complete and sign this part will invalidate the tender.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|       |                                                                              | <p>Letter of authorization</p> <p>Letter of authorization to sign the Form of Offer and where required in tender document to be attached this shall be clearly stated on the company letter head. (See Form G).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



| Item  | Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | <p>Tampering with Document</p> <p>No tampering with the document i.e. the full document with all Annexures must be printed and submitted.</p> <p>No use of Tippex / correctional fluid. If any typing error occurs one must can scratch out and sign.</p> <p>In the event of mistakes having been made in completing the Form of Offer and Acceptance (C1.1), the mistake must be crossed out in ink and be accompanied by an initial at each and every alteration.</p> <p>If alterations are not made as stipulated, the tender as a whole will not be considered.</p> <p>Corrections in terms of price must not be made by means of a correction fluid such as Tipp-Ex or similar product.</p> <p>If correction fluid has been used on any specific item price, such item will not be considered. No correction fluid may be used in a Bill of Quantities where prices are calculated to arrive at a total amount. If correction fluid has been used the Tender as a whole will not be considered.</p> <p><b>All additional documentation must be stapled into the tender document or attached in a separate file. The Department will reject the bid if the above conditions are not adhered to.</b></p> |
|       | <p>Separate Tax Clearance or pin must be submitted for each sub-contractor.</p> <p>Where no Tax Clearance or pin is available but the bidder is registered on the central supplier database (CSD), a CSD number must be provided for each sub-contractor to verify Tax compliance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|       | <p>Sub-contractors must be registered on the National Treasury Central Supplier Database and attach a report as proof or submit the CSD supplier number on a company letterhead.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| C.2.2 | <p><b>Cost of Tendering:</b></p> <p>Add the following to the clause:</p> <p>“Accept that the Employer will not compensate the tenderer for any costs incurred in attending interviews in the office of the Employer or the Employer’s Agent.”</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| C.2.5      | <b>Reference documents:</b>                                                         | <p>The document “JBCC PRINCIPAL BUILDING AGREEMENT EDITION 6.2, MAY 2018.”</p> <p>Tenderers, Contractors and Subcontractors shall obtain their own copies of the document JBCC Principal Building Agreement Edition 6.2, May 2018 for the tendering purposes and for use for the duration of the Contract from the Joint Building Contracts Committee, Coachman’s Crossing Office Park, Block A Unit 1, 4 Brian Street, Bryanston and shall bear all expenses in this regard.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| C.2.7      | <b>Clarification meeting:</b>                                                       | <p>The arrangements for a compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender.</p> <p>Tenderers must sign the attendance register in the name of the tendering entity. Addenda will be issued to and tenders will be received only from those tendering entities appearing on the attendance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| C.2.8      | <b>Seek clarification:</b>                                                          | <p>“Request clarification of the tender documents, if necessary, by notifying the Employer’s Official or the Employer’s Agent indicated in the Tender Notice and Invitation to Tender in writing at least 5 (five) calendar days before the closing time stated in the foregoing notice and clause 2.15.”</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>C.2</b> | <b>TENDERER’S OBLIGATIONS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| C.2.9      | <b>Insurance:</b>                                                                   | <p>Add the following to the clause:</p> <p>“Accept that the submission of a Tender shall be construed as an acknowledgement by the Employer that he/she is satisfied with the insurance cover that the Contractor will have to effect Contract Works Insurance to be limited to the Tender amount including VAT plus 20%, and Public Liability to be limited to R10 000 000.00 under the contract.</p> <p>The Employer will not provide for any insurance as it will be provided for by the Contractor.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| C.2.11     | <b>Alterations to documents:</b>                                                    | <p>Add the following to the clause:</p> <p><b>“In the event of mistakes having been made on the prices inclusive of VAT it must be crossed out in ink at each and every price alteration on the form of offer and be accompanied by an initial.</b></p> <p>Corrections in terms of price must not be made by means of a correction fluid such as Tipp-Ex or similar product. If correction fluid has been used on any specific item price, such item will not be considered. No correction fluid must be used in a Bill of Quantities where prices are calculated to arrive at a total amount. If correction fluid has been used the Tender as a whole will not be considered.</p> <p><b>Tampering with or taking apart the bound document is strictly prohibited. All additional documentation must be stapled into the tender document or attached in a separate file.”</b></p> <p><b>The Department will reject the bid if the above conditions are not adhered to.</b></p> |
| C.2.13     | <b>Submitting a tender offer</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|            | C.2.13.1                                                                            | Each Tenderer is required to return the complete set of documents as listed in the Tender Data with all the required information supplied and completed in all respects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | C.2.13.2                                                                            | Return all returnable documents to the employer after completing them in their entirety, by writing legibly in non-erasable ink. Failure to adhere to this the bid will be disqualified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|            | C.2.13.3                                                                            | Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>C.2</b> | <b>TENDERER'S OBLIGATIONS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|            | C.2.13.4                                                                            | <p>Add the following to the clause:</p> <p>"Only duly authorised signatories must sign the original and all copies of the tender offer where required in terms of 2.13.3.</p> <p>In the case of a <b>ONE-PERSON CONCERN</b> submitting a tender, this shall be clearly stated on the company letter head.</p> <p>In case of a <b>COMPANY</b> submitting a tender, include a copy of a resolution by its board of directors authorising a director or other official of the company to sign the documents on behalf of the company.</p> <p>In the case of a <b>CLOSED CORPORATION</b> submitting a tender, include a copy of a resolution by its members authorising a member or other official of the corporation to sign the documents on each member's behalf.</p> <p>In the case of a <b>PARTNERSHIP</b> submitting a tender, all the partners shall sign the documents, unless one partner or a group of partners has been authorised to sign on behalf of each partner, in which case proof of such an authorisation shall be included in the Tender.</p> <p>In the case of a <b>JOINT VENTURE</b> submitting a tender, must include a resolution of each company of the Joint Venture together with a resolution by its members authorising a member of the Joint Venture to sign the documents on behalf of the Joint Venture."</p> <p><b>Accept that failure to submit proof of Authorisation to sign the tender with a specimen signature shall result in a Tender Offer being regarded as non-responsive.</b></p> |
|            | C.2.13.5                                                                            | <p>The Employer's address for delivery of tender offers:</p> <p><b>Department Agriculture Land Reform and Rural Development<br/> 14 Long Street<br/> Cape Town<br/> 8000</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|            | C.2.13.6                                                                            | A two-envelope procedure will NOT be followed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|            | C.2.13.9                                                                            | Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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| <b>C.2</b> | <b>TENDERER'S OBLIGATIONS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C.2.14     | <b>Information and Data to be completed in all respects:</b>                        | <p>Add the following to the clause:</p> <p>"Accept that the Employer shall in the evaluation of tenders take due account of the Tenderer's past performance in executing for similar works of comparable magnitude, and the degree to which he possesses the necessary technical, financial and other resources to enable him to complete the Works successfully within the contract period. Satisfy the Employer and Principal Agent as to his ability to perform and complete the Works timeously, safely and with satisfactory quality, by furnishing details in <b>Section T2.2.</b> (Form T)</p> <p>Accept that the Employer is restricted in accordance with clause 4.(4) of the Construction Regulations, 2014, to only appoint a contractor whom he is satisfied has the necessary competencies and resources to carry out the work safely.</p> |
| C.2.15     | <b>Closing time:</b>                                                                | The closing date and time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| C.2.16     | <b>Tender offer validity:</b>                                                       | <p>The tender offer validity period is <b>90</b> days.</p> <p>Add the following to the clause:</p> <p>"If the tender validity expires on a Saturday, Sunday or public holiday, the Tender Offer shall remain valid and open for acceptance until the closure of business on the following working day."</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| C.2.17     | <b>Clarification of tender offer after submission</b>                               | The Tenderer shall provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of arithmetical errors by the adjustment of certain rates or items prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C.2.18     | <b>Provide other material</b>                                                       | The Tenderer shall provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.                                                                                                                                                                                                                                                                     |
| C.2.19     | <b>Inspections, tests and analysis:</b>                                             | The Tenderer must provide access during working hours to his premises for inspections on request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| C.2.20     | <b>Submit securities, bonds and policies:</b>                                       | Tenderer to submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| <b>C.2</b>                            | <b>TENDERER'S OBLIGATIONS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| C.2.23                                | <b>Certificates:</b>                                                                | <p>The following certificates/ information may be provided with the tender offer:</p> <ul style="list-style-type: none"> <li>a) Copy of Certificate of Incorporation (if tenderer is a Company), e.g., CM1, CM29, or CM44</li> <li>b) Copy of Founding Statement (if tenderer is a Closed Corporation), e.g., CK1, or CK2</li> <li>c) Copy of Partnership Agreement (if tenderer is a Partnership)</li> <li>d) Copy of Identity Document (if tenderer is a One-man concern)</li> <li>e) Copy of Deed of Trust (If a trust is involved).</li> </ul> <p>In cases where the tenderer has failed to submit any of the documents above with the tender, the Department reserves the right to, at any time after the closure of the tender, but before the award of the tender, request the tenderer to provide the outstanding documents within 5 (five) calendar days from the date of notification.</p>                                                                                                             |
| <b>ADD THE FOLLOWING NEW CLAUSES:</b> |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| "2.24                                 | <b>Canvassing and obtaining of additional information by Tenderers:</b>             | <p>Accept that no Tenderer shall make any attempt either directly or indirectly to canvass any of the Employers officials or the Employer's agent in respect of his tender, after the opening of the tenders, but prior to the Employer arriving at a decision thereon.</p> <p>No Tenderer shall make any attempt to obtain particulars of any relevant information, other than that disclosed at the opening of tenders."</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| "2.26                                 | <b>Awards to close family members of persons in the service of the state</b>        | <p>In order to adjudicate fairness or eligibility, the questionnaire for the declaration of interests in the tender of persons in service of state in <b>Section T2.2.5 – Form E</b> must be completed."</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>C.2</b>                            | <b>TENDERER'S OBLIGATIONS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| "2.28                                 | <b>TAX REQUIREMENTS</b>                                                             | <p>"Submission of Proof of Tax Compliance together with the bid is compulsory."</p> <p>"Bidders should note, that in accordance with legislation, no contract may be awarded to a/an person/entity who has failed to submit a proof of being Tax compliant from the South African revenue Service (SARS), certifying that the taxes of that person/entity are in order or that suitable arrangements have been made with SARS."</p> <p>In Bids where Consortia / Joint Venture/ Sub-contractors are involved each party must submit a separate proof of Tax compliance. Bidders are required to submit their unique personal identification number (PIN) issued by SARS to enable the organ of state to view the taxpayer's profile and tax status.</p> <p>Application for tax compliance status (TCS) or pin may also be made via e-filing. In order to use this provision, taxpayers will need to register with SARS as e-filers through the website <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</p> |

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|            |                                                                                          | <p>Bidders may also submit a printed TCS together with the bid.</p> <p>Where no Tax Clearance or pin is available but the bidder is registered on the central supplier database (CSD), a CSD number must be provided for each sub-contractor to verify Tax compliance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| "2.29      | <b>(CSD) Central Supplier Database</b>                                                   | <p>Bidders must register on the Central Supplier Database (CSD). Bidders must register on the central supplier database (CSD) to upload mandatory information namely: (business registration/ directorship/ membership/identity numbers; tax compliance status; and banking information for verification purposes). Valid CIPC certificate must be submitted to bidding institution.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| "2.30      | <b>Tender Participation Goals</b>                                                        | <p>It is a requirement of this contract that work be executed in such a manner so as to maximize the use of at least <b>80%</b> local unskilled labour intensive construction methods. It is also the intention that this Contract should make the maximum possible use of the local labour force available from within the target community and which is at present underemployed.</p> <p>The targets for employment are as follows:</p> <ul style="list-style-type: none"> <li>• Women: 55%</li> <li>• Youth: 40%</li> </ul> <p>The Contractor shall fill in the forms relating to Key Personnel and state how many key personnel he intends to employ in the various categories. The numbers stated in the above-mentioned form will be strictly controlled during the contract period and any changes in numbers shall be subject to the approval of the Employer's Agent.</p> <p>The contractor must submit monthly Labour reports to client. Contractors to adhere to the minimum Labour rates as stipulated by the Department of Labour.</p> <p>The definition of youth being determined by age up to and including 35 years.</p> <p>The unit of measurement is person days being the total number of persons in that category multiplied by the number of days worked by each person respectively.</p> <p><b>Note:</b> A penalty of R800/person per day will be imposed for non-compliance.</p> |
| <b>C.3</b> | <b>THE EMPLOYER'S UNDERTAKINGS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C.3.1      | <b>Respond to requests from the Tenderer:</b>                                            | <p>Replace the contents of the clause with the following:</p> <p>"Respond to a request for clarification received up to seven (7) calendar days before the tender closing time stated in the tender data and notify all Tenderers who drew procurement documents".</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| C.3.2      | <b>Issue Addenda:</b>                                                                    | If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until seven (7) calendar days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who drew documents. All addenda issued completed and returned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| C.3.3      | <b>Return late tender offers</b>                                                         | Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>C.3</b> | <b>THE EMPLOYER'S UNDERTAKINGS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| C.3.4      | <b>Opening of tender submissions:</b>                                                    | <p>The closing date and time for receipt of tenders is:</p> <p><b>30 April 2024 at 11:00</b></p> <p>Tenders will be received on the closing date and time shown, must be enclosed in a sealed envelope bearing the applicable tender heading and contract number, as well as the closing time and due date, and must be addressed to the:</p> <p><b>DIRECTOR: FINANCE AND SUPPLY CHAIN MANAGEMENT SERVICES:</b><br/> <b>DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT.</b></p> <p>Tenders <b>must</b> be submitted in the tender box situated at:</p> <p><b>Department of Agriculture Land Reform and Rural Development</b><br/> <b>Ground Floor Tender Box</b><br/> <b>14 Long Street</b><br/> <b>CAPE TOWN</b><br/> <b>8000</b></p> <p>Only tenders submitted to this tender box will be opened/ considered.</p> <p>Valid tender submissions shall be opened in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.</p> |
| C.3.11     | <b>Evaluation of Tenders:</b>                                                            | <p>Tenders will be evaluated in terms of the evaluation criteria stipulated below:</p> <p>(a) Evaluation for Mandatory criteria<br/> (b) Evaluation in terms of Functionality<br/> (c) Evaluation in terms of 80/20 preference point system and specific goals as Prescribed in the Preferential Procurement Regulations 2022.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| Mandatory criteria    | <p>Add the following:</p> <p>“Tenderers will be evaluated as per the Preferential Procurement Regulation which prescribes that all bids submitted must comply with the Mandatory Eligibility Criteria of this tender (Part 2: Returnable Schedules). If not, that will be disqualified and will not pass to the method of evaluation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Scoring functionality | <p><b>Minimum score for quality</b></p> <p>In order to be considered in terms of this tender, tenderers must achieve the minimum score for quality as stated below. The description of the quality criteria and the maximum possible score for each is shown in the table below.</p> <p>The score achieved for quality will be the sum of the scores achieved for the individual criteria.</p> <p>The proposal will be evaluated individually on score sheets, by a representative evaluation panel according to the evaluation criteria indicated above. All service providers who scored less than <b>60 out of 100</b> points for functionality will not be considered further.</p> <p>Each of the evaluation criteria will be assessed in terms of five indicators being <b>0 = No submission/incomplete submission, 1 = Poor, 2 = Average, 3 = Good, 4 = Very good and 5 = Excellent.</b></p> <p><b>Calculate the points for functionality according to the following formula.</b></p> $P_s = S_o / M_s \times A_p \quad \& \quad F_s = P_s \times W$ <p>Where</p> <p><b>P<sub>s</sub></b> = Percentage scored for functionality by bid under consideration<br/> <b>S<sub>o</sub></b> = Total score of bid/proposal (value) under consideration<br/> <b>M<sub>s</sub></b> = Maximum possible score = 500<br/> <b>A<sub>p</sub></b> = percentage allocated for functionality = 100<br/> <b>F<sub>s</sub></b> = Functionality points scored for each criterion<br/> <b>W</b> = Weight of criterion under consideration</p> <p><b>Total points by bidder on functionality:</b><br/> <b>F<sub>s</sub> = F<sub>s1</sub> + F<sub>s2</sub> + F<sub>s3</sub></b></p> <p>The scores of each of the evaluators will then be averaged, weighted and then totalled to obtain the final score for quality.</p> <p><b>NB:</b> Points scored for Functionality will not have an influence on the total tender evaluation points. Method 3 (i.e. financial offer and preferences) will be used to calculate the total tender evaluation points.</p> |

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|                                                                                                              |                                                                                                                                    | <table border="1"> <thead> <tr> <th>Criterion</th> <th>Weight</th> <th>Value</th> <th>Comment / Remarks</th> </tr> </thead> <tbody> <tr> <td>Relevant experience in general building projects similar in nature, scope and value (Section T2.2.9, Form I)</td> <td>40</td> <td></td> <td></td> </tr> <tr> <td>Experience of key personnel – Site Agent, (Section T2.2.11, Form K)</td> <td>30</td> <td></td> <td></td> </tr> <tr> <td>Experience of key personnel – Contracts Manager (Section T2.2.11, Form K)</td> <td>30</td> <td></td> <td></td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>100</b></td> <td></td> <td></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |  |  | Criterion                                              | Weight                                                                                                                             | Value                 | Comment / Remarks                                                                                                | Relevant experience in general building projects similar in nature, scope and value (Section T2.2.9, Form I) | 40                                                                                                               |                       |                                                                                                                    | Experience of key personnel – Site Agent, (Section T2.2.11, Form K) | 30                                                                                                                |                            |                                                                                                                           | Experience of key personnel – Contracts Manager (Section T2.2.11, Form K) | 30 |  |  | <b>TOTAL</b> | <b>100</b> |  |  |
| Criterion                                                                                                    | Weight                                                                                                                             | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Comment / Remarks |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| Relevant experience in general building projects similar in nature, scope and value (Section T2.2.9, Form I) | 40                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| Experience of key personnel – Site Agent, (Section T2.2.11, Form K)                                          | 30                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| Experience of key personnel – Contracts Manager (Section T2.2.11, Form K)                                    | 30                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| <b>TOTAL</b>                                                                                                 | <b>100</b>                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
|                                                                                                              |                                                                                                                                    | <p><b><u>RELEVANT EXPERIENCE OF SIMILAR PROJECTS – (40)</u></b></p> <p>Tenderers are required to demonstrate relevant experience and competency and attach completion certificates (<b>Practical or Final</b>). Tenderers are required to submit full details of, and <b>reliable contactable references</b> for relevant projects which were successfully completed. Relevant projects must be of similar scope, nature and size, completed within the last Nine (9) years.</p> <p><b>Tenderers should have completed general building projects of similar nature, that being primarily concerned with the development, extension, installation, renewal, renovation alteration, or dismantling of a permanent shelter for its occupants or contents, with a minimum value of R6 000 000 each in the last 9 years.</b></p> <p>The employer reserves the right to verify projects before considering them.</p> <p><b><u>NB: Bidders are required to attach completion certificates. Failure to submit / attach completion certificates for the projects will result in the bidder not being awarded the points.</u></b></p> <table border="1"> <tbody> <tr> <td><b>No submission / Incomplete Submission (score 0)</b></td> <td>The tenderer has not listed any relevant completed projects and/or failed to attach completion certificates.<br/><b>(0 Project)</b></td> </tr> <tr> <td><b>Poor (score 1)</b></td> <td>The tenderer has listed one (1) relevant completed project with a completion certificate.<br/><b>(1 Projects)</b></td> </tr> <tr> <td><b>Average (score 2)</b></td> <td>The tenderer has listed two (2) relevant completed projects with completion certificates.<br/><b>(2 Projects)</b></td> </tr> <tr> <td><b>Good (score 3)</b></td> <td>The tenderer has listed three (3) relevant completed projects with completion certificates.<br/><b>(3 Projects)</b></td> </tr> <tr> <td><b>Very Good (score 4)</b></td> <td>The tenderer has listed four (4) relevant completed projects with completion certificates.<br/><b>(4 Projects)</b></td> </tr> <tr> <td><b>Excellent (Score 5)</b></td> <td>The tenderer has listed five (5) relevant completed projects with completion certificates.<br/><b>(5 or more Projects)</b></td> </tr> </tbody> </table> |                   |  |  | <b>No submission / Incomplete Submission (score 0)</b> | The tenderer has not listed any relevant completed projects and/or failed to attach completion certificates.<br><b>(0 Project)</b> | <b>Poor (score 1)</b> | The tenderer has listed one (1) relevant completed project with a completion certificate.<br><b>(1 Projects)</b> | <b>Average (score 2)</b>                                                                                     | The tenderer has listed two (2) relevant completed projects with completion certificates.<br><b>(2 Projects)</b> | <b>Good (score 3)</b> | The tenderer has listed three (3) relevant completed projects with completion certificates.<br><b>(3 Projects)</b> | <b>Very Good (score 4)</b>                                          | The tenderer has listed four (4) relevant completed projects with completion certificates.<br><b>(4 Projects)</b> | <b>Excellent (Score 5)</b> | The tenderer has listed five (5) relevant completed projects with completion certificates.<br><b>(5 or more Projects)</b> |                                                                           |    |  |  |              |            |  |  |
| <b>No submission / Incomplete Submission (score 0)</b>                                                       | The tenderer has not listed any relevant completed projects and/or failed to attach completion certificates.<br><b>(0 Project)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| <b>Poor (score 1)</b>                                                                                        | The tenderer has listed one (1) relevant completed project with a completion certificate.<br><b>(1 Projects)</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| <b>Average (score 2)</b>                                                                                     | The tenderer has listed two (2) relevant completed projects with completion certificates.<br><b>(2 Projects)</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| <b>Good (score 3)</b>                                                                                        | The tenderer has listed three (3) relevant completed projects with completion certificates.<br><b>(3 Projects)</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| <b>Very Good (score 4)</b>                                                                                   | The tenderer has listed four (4) relevant completed projects with completion certificates.<br><b>(4 Projects)</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
| <b>Excellent (Score 5)</b>                                                                                   | The tenderer has listed five (5) relevant completed projects with completion certificates.<br><b>(5 or more Projects)</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |
|                                                                                                              |                                                                                                                                    | <p><b><u>TENDERERS EXPERIENCE OF KEY PERSONNEL – (60)</u></b></p> <p>Tenderers are required to demonstrate that they have the necessary resources and technical expertise to undertake and successfully complete the project.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |  |  |                                                        |                                                                                                                                    |                       |                                                                                                                  |                                                                                                              |                                                                                                                  |                       |                                                                                                                    |                                                                     |                                                                                                                   |                            |                                                                                                                           |                                                                           |    |  |  |              |            |  |  |

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|                                                 | <p><b>EXPERIENCE AND QUALIFICATION OF CONTRACTS MANAGER (30) AND SITE AGENT (30)</b></p> <p><b>1. CONTRACT MANAGER (30)</b><br/>This criterion covers the general average experience of the proposed Contract Manager dealing with General Building projects. The candidate should have <b>completed general building projects of similar nature, that being primarily concerned with the development, extension, installation, renewal, renovation alteration, or dismantling of a permanent shelter for its occupants or contents, with a minimum value of R6 000 000 each in the last 9 years.</b></p> <p>Tenderers are required to complete Form K and/or submit curriculum vitae for the key personnel proposed to be employed on the project. This curriculum vitae is to include specific details of these individuals including past experience and competence in delivering key similar general building projects.</p> <table><tr><td>No Submission / Incomplete Submission (score 0)</td><td>No CV or No projects</td></tr><tr><td>Poor (score 1)</td><td>1 similar project completed in the last 9 years</td></tr><tr><td>Average (score 2)</td><td>2 similar projects completed in the last 9 years</td></tr><tr><td>Good (score 3)</td><td>3 similar projects completed in the last 9 years</td></tr><tr><td>Very Good (score 4)</td><td>4 similar projects completed in the last 9 years</td></tr><tr><td>Excellent (score 5)</td><td>5 similar projects completed in the last 9 years</td></tr></table> <p><b>2. SITE AGENT (30)</b><br/>This criterion covers the general average experience of the proposed Site Agent dealing with General Building projects. The candidate <b>should have completed general building projects of similar nature, that being primarily concerned with the development, extension, installation, renewal, renovation alteration, or dismantling of a permanent shelter for its occupants or contents, with a minimum value of R3 000 000 each in the last 9 years.</b></p> <p>Tenderers are required to complete Form K and/or submit curriculum vitae for the key personnel proposed to be employed on the project. This curriculum vitae is to include specific details of these individuals including past experience and competence in delivering key similar general building projects.</p> <table><tr><td>No Submission/ Incomplete Submission (Score 0)</td><td>No CV or No projects</td></tr><tr><td>Poor (score 1)</td><td>1 similar project completed in the last 9 years</td></tr><tr><td>Average (score 2)</td><td>2 similar projects completed in the last 9 years</td></tr><tr><td>Good (score 3)</td><td>3 similar projects completed in the last 9 years</td></tr><tr><td>Very Good (score 4)</td><td>4 similar projects completed in the last 9 years</td></tr><tr><td>Excellent (score 5)</td><td>5 similar projects completed in the last 9 years</td></tr></table> | No Submission / Incomplete Submission (score 0) | No CV or No projects | Poor (score 1) | 1 similar project completed in the last 9 years | Average (score 2) | 2 similar projects completed in the last 9 years | Good (score 3) | 3 similar projects completed in the last 9 years | Very Good (score 4) | 4 similar projects completed in the last 9 years | Excellent (score 5) | 5 similar projects completed in the last 9 years | No Submission/ Incomplete Submission (Score 0) | No CV or No projects | Poor (score 1) | 1 similar project completed in the last 9 years | Average (score 2) | 2 similar projects completed in the last 9 years | Good (score 3) | 3 similar projects completed in the last 9 years | Very Good (score 4) | 4 similar projects completed in the last 9 years | Excellent (score 5) | 5 similar projects completed in the last 9 years |
| No Submission / Incomplete Submission (score 0) | No CV or No projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |
| Poor (score 1)                                  | 1 similar project completed in the last 9 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |
| Average (score 2)                               | 2 similar projects completed in the last 9 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |
| Good (score 3)                                  | 3 similar projects completed in the last 9 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |
| Very Good (score 4)                             | 4 similar projects completed in the last 9 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |
| Excellent (score 5)                             | 5 similar projects completed in the last 9 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |
| No Submission/ Incomplete Submission (Score 0)  | No CV or No projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |
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| Very Good (score 4)                             | 4 similar projects completed in the last 9 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |
| Excellent (score 5)                             | 5 similar projects completed in the last 9 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                 |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |                                                |                      |                |                                                 |                   |                                                  |                |                                                  |                     |                                                  |                     |                                                  |

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| Item                                      |                                         | Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |        |       |    |                |    |                                           |     |
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|                                           | Method 3: Scoring Points and preference | <p><b>Scoring financial offers:</b></p> <p>The formula to determine points for price is:</p> <p><b>THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS</b></p> <p>A maximum of 80 or 90 points is allocated for price on the following basis:</p> <p style="text-align: center;"><b>80/20   or   90/10</b></p> $Ps = 80 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right) \quad \text{or} \quad Ps = 90 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right)$ <p>Where</p> <p>Ps       =       Points scored for price of tender under consideration</p> <p>Pt       =       Price of tender under consideration</p> <p>Pmin    =       Price of lowest acceptable tender</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |        |       |    |                |    |                                           |     |
|                                           | <b>PREFERENCE POINT SYSTEM</b>          | <p><b><u>COMPETITIVE BID PROCESS (ABOVE R 1 MILLION UP TO R 50M)</u></b></p> <p>1.1       The following preference point systems are applicable to invitations to tender:</p> <p style="margin-left: 40px;">-       the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and</p> <p>1.2       <b>To be completed by the organ of state</b></p> <p style="margin-left: 40px;">a) The applicable preference point system for this tender is the 80/20 preference point system.</p> <p style="margin-left: 40px;">b) 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.</p> <p>1.3       Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:</p> <p style="margin-left: 40px;">(a)   Price; and</p> <p style="margin-left: 40px;">(b)   Specific Goals</p> <p style="margin-left: 40px;">The maximum points for this tender are allocated as follows:</p> <table><tr><th></th><th>POINTS</th></tr><tr><td>PRICE</td><td>80</td></tr><tr><td>SPECIFIC GOALS</td><td>20</td></tr><tr><td>Total points for Price and SPECIFIC GOALS</td><td>100</td></tr></table> |  | POINTS | PRICE | 80 | SPECIFIC GOALS | 20 | Total points for Price and SPECIFIC GOALS | 100 |
|                                           | POINTS                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |        |       |    |                |    |                                           |     |
| PRICE                                     | 80                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |        |       |    |                |    |                                           |     |
| SPECIFIC GOALS                            | 20                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |        |       |    |                |    |                                           |     |
| Total points for Price and SPECIFIC GOALS | 100                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |        |       |    |                |    |                                           |     |
|                                           | Scoring specific goals                  | <p>The tender must make sure that they complete the SBD 6.1 attached so that they can claim the Specific Goals (20) points.</p> <p>1.1       Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |        |       |    |                |    |                                           |     |

Contractor

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Witness 2

Employer

Witness 1

Witness 2

| Item   |                                       | Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                       | <p>1.2 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.</p> <p>1.3 Bidders who wish to claim points in terms of table 4.2 below need to provide proof for each point claimed as guided below:</p> <ul style="list-style-type: none"> <li>• Who had no franchise in national elections before the 1983 and 1993 Constitution – attach certified copy of identity document (ID) and company registration document / CSD report to show/ substantiate percentage ownership equity.</li> <li>• Who is female- attach certified copy of identity document (ID) and company registration document / CSD report to show/ substantiate percentage ownership equity.</li> <li>• Who has a disability – attach doctor's letter confirming the disability.</li> <li>• Who is youth - attach certified copy of identity document (ID) and company registration document / CSD report to show/ substantiate percentage ownership equity. The definition of youth being determined by age up to and including 35 years.</li> <li>• Specific goal: Locality – Western Cape Province</li> </ul> <p>(a) a valid municipal services account (water, sanitation, rates and electricity) in the name of the bidder/s or active director/s or</p> <p>(b) a valid lease agreement from the lessor or</p> <p>(c) a letter on the letterhead of the ward councillor/traditional authority/council that must be signed, stamped and dated.</p> |
| C.3.13 | <b>Acceptance of tender offer:</b>    | A Tender Offer will only be accepted on condition that such acceptance is not prohibited in terms of Clause 44 of the Supply Chain Management Regulations published in terms of the Public Finance Management Act, 2003.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| C.3.17 | <b>Provide copies of the contract</b> | One signed copy of the contract shall be provided by the Employer to the successful Tenderer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Contractor

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Employer

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| C.4                                      | ADDITIONAL CONDITIONS OF TENDER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The additional conditions of Tender are: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| C.4.1                                    | <p><b>Compliance with Occupational Health and Safety Act 1993</b></p> <p>Tenderers are to note the requirements of the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 issued in terms of Section 43 of the Act. The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.</p> <p>In this regard the <b>Contractor</b> shall submit a detailed Health and Safety Plan in respect of the Works in order to demonstrate the necessary competencies and resources to perform the construction work all in accordance with the Act and Regulations. Such Health and Safety Plan shall cover inter-alia the following details:</p> <ol style="list-style-type: none"> <li>(1) Management Structure, Site Supervision and Responsible Persons including a succession plan.</li> <li>(2) Contractor's induction training programme for Employees, Sub-contractors and Visitors to the Site.</li> <li>(3) Health and safety precautions and procedures to be adhered to, in order to ensure compliance with the Act, Regulations and Safety Specifications.</li> <li>(4) Regular monitoring procedures to be performed.</li> <li>(5) Regular liaison, consultation and review meetings with all parties.</li> <li>(6) Site security, welfare facilities and first aid.</li> <li>(7) Site rules and fire and emergency procedures.</li> </ol> <p>Tenderers are to note that the Contractor is required to ensure that all Sub-contractors or others engaged in the performance of the Contract also comply with the above requirements.</p> <p>The Contractor shall prepare and maintain a Health and Safety File in respect of the project, which shall be available for inspection on Site at all times and handed over to the Employer on Final Completion of the project.</p> <p>The Contractor is required to submit to the Employer the Occupational Health and Safety Agreement (included <b>in Part C1.4</b> of the Contract Document) and a letter of good standing from the Compensation Commissioner, or a licensed compensation insurer, within 14 days after the Commencement Date of the Contract.</p> <p>The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith. (<b>Annexure A</b>).</p> |
| C.4.2                                    | <p><b>Community Liaison Officer</b></p> <p>It is a requirement of the Contract that a Community Liaison Officer (CLO) be appointed (per site) by the Contractor. The primary functions of the CLO shall be to assist the Contractor with the selection and recruitment of targeted labour, to represent the local community in matters concerning the use of targeted labour (and/or enterprises) on the works, and to assist with and facilitate communication between the Contractor, the Principal Agent and the local communities.</p> <p>The method of identifying suitable candidates for the position of CLO, as well as requirements in respect of the employment of the selected candidate, are described in <b>Part C3.3.2: Scope of Work</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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# CIDB STANDARD CONDITIONS OF TENDER

## SECTION T1.2.3: CIDB STANDARD CONDITIONS OF TENDER

*As published in Annexure C of the CIDB Standard for Uniformity in Engineering and Construction Works Contracts Volume 650, Government Gazette No 42622 of 8 August 2019.*

### Annexure C

#### **C.1 GENERAL**

##### **C.1.1 Actions**

**C.1.1.1** The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

**C.1.1.2** The employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

*Note:*

- 1) *A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.*
- 2) *Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.*

**C.1.1.3** The employer shall not seek and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

##### **C.1.2 Tender Documents**

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

##### **C.1.3 Interpretation**

**C.1.3.1** The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

**C.1.3.2** These conditions of tender, the tender data and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the invitation to tender.

**C.1.3.3** For the purposes of these conditions of tender, the following definitions apply:

a) **conflict of interest** means any situation in which:

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Witness 2

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- i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfil his or her duties impartially;
  - ii) an individual or tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
  - iii) incompatibility or contradictory interests exist between an employee and the tenderer who employs that employee.
- b) **comparative offer** means the price after the factors of a non-firm price and all unconditional discounts it can be utilised to have been taken into consideration;
- c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process;
- d) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels;

**C.1.4      Communication and employer’s agent**

Each communication between the employer and a tenderer shall be to or from the employer's agent only, and in a form that can be readily read, copied and recorded. Communications shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the tender data.

**C.1.5      Cancellation and Re-Invitation of Tenders**

- C.1.5.1**      An employer may, prior to the award of the tender, cancel a tender if-
- a)              due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
  - b)              funds are no longer available to cover the total envisaged expenditure; or
  - c)              no acceptable tenders are received.
  - d)              there is a material irregularity in the tender process.
- C.1.5.2**      The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised
- C.1.5.3**      An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

**C.1.6      Procurement procedures**

**C.1.6.1      General**

Unless otherwise stated in the tender data, a contract will, subject to C.3.13, be concluded with the tenderer who in terms of C.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

**C.1.6.2      Competitive negotiation procedure**

- C.1.6.2.1**      Where the tender data require that the competitive negotiation procedure is to be followed, tenderers shall submit tender offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of C.3.4, the employer shall announce only the names of the tenderers who make a submission. The requirements of C.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.

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**C.1.6.2.2** All responsive tenderers or at least a minimum of not less than three responsive tenderers that are highest ranked in terms of the evaluation criteria stated in the tender data shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information.

Notwithstanding the provisions of C.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.

**C.1.6.2.3** At the conclusion of each round of negotiations, tenderers shall be invited by the employer to revise their tender offer based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.

**C.1.6.2.4** The contract shall be awarded in accordance with the provisions of C.3.11 and C.3.13 after tenderers have been requested to submit their best and final offer.

**C.1.6.3** Proposal procedure using the two stage-system

**C.1.6.3.1** *Option 1*

Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The employer shall evaluate each responsive submission in terms of the method of evaluation stated in the tender data, and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these conditions of tender.

**C.1.6.3.2** *Option 2*

**C.1.6.3.2.1** Tenderers shall submit in the first stage only technical proposals. The employer shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.

**C.1.6.3.2.2** The employer shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the tender data, and award the contract in terms of these conditions of tender.

**C.2** **Tenderer's obligations**

**C.2.1** **Eligibility**

**C.2.1.1** Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer.

**C.2.1.2** Notify the employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

**C.2.2** **Cost of tendering**

**C.2.2.1** Accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

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Witness 2

Employer

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- C.2.2.2** The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.
- C.2.3 Check documents**
- Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.
- C.2.4 Confidentiality and copyright of documents**
- Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.
- C.2.5 Reference documents**
- Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.
- C.2.6 Acknowledge addenda**
- Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.
- C.2.7 Clarification meeting**
- Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.
- C.2.8 Seek clarification**
- Request clarification of the tender documents, if necessary, by notifying the employer at least five (5) working days before the closing time stated in the tender data.
- C.2.9 Insurance**
- Be aware that the extent of insurance to be provided by the employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.
- C.2.10 Pricing the tender offer**
- C.2.10.1** Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable fourteen (14) days before the closing time stated in the tender data.
- C.2.10.2** Show VAT payable by the employer separately as an addition to the tendered total of the prices.
- C.2.10.3** Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

**C.2.10.4** State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

**C.2.11 Alterations to documents**

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

**C.2.12 Alternative tender offers**

**C.2.12.1** Unless otherwise stated in the tender data, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

**C.2.12.2** Accept that an alternative tender offer must be based only on the criteria stated in the tender data or criteria otherwise acceptable to the employer.

**C.2.12.3** An alternative tender offer must only be considered if the main tender offer is the winning tender.

**C.2.13 Submitting a tender offer**

**C.2.13.1** Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

**C.2.13.2** Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

**C.2.13.3** Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

**C.2.13.4** Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

**C.2.13.5** Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

**C.2.13.6** Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

**C.2.13.7** Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.

**C.2.13.8** Accept that the employer will not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

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Witness 1

Witness 2

**C.2.13.9** Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

**C.2.14 Information and data to be completed in all respects**  
Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive.

**C.2.15 Closing time**

**C.2.15.1** Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

**C.2.15.2** Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline.

**C.2.16 Tender offer validity**

**C.2.16.1** Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

**C.2.16.2** If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.

**C.2.16.3** Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer’s agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).

**C.2.16.4** Where a tender submission is to be substituted, a tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as “SUBSTITUTE”.

**C.2.17 Clarification of tender offer after submission**

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

***Note:** Sub-clause C.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.*

**C.2.18 Provide other material**

**C.2.18.1** Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer’s commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment.

Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer’s request, the employer may regard the tender offer as non-responsive.

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

**C.2.18.2**     Dispose of samples of materials provided for evaluation by the employer, where required.

**C.2.19        Inspections, tests and analysis**

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

**C.2.20        Submit securities, bonds and policies**

If requested, submit for the employer’s acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

**C.2.21        Check final draft**

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

**C.2.22        Return of other tender documents**

If so instructed by the employer, return all retained tender documents within twenty-eight (28) days after the expiry of the validity period stated in the tender data.

**C.2.23        Certificates**

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

**C.3            The employer’s undertakings**

**C.3.1         Respond to requests from the tenderer**

**C.3.1.1**     Unless otherwise stated in the tender Data, respond to a request for clarification received up to five (5) working days before the tender closing time stated in the Tender Data and notify all tenderers who collected tender documents.

**C.3.1.2**     Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence:

- a)        an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;
- b)        the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
- c)        in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

**C.3.2         Issue Addenda**

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three (3) working days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who collected tender documents.

|                                                                                                         |                                                                                                        |                                                                                                        |                                                                                                       |                                                                                                        |                                                                                                        |
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|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|

**C.3.3 Return late tender offers**

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.

**C.3.4 Opening of tender submissions**

**C.3.4.1** Unless the two-envelope system is to be followed, open valid tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

**C.3.4.2** Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each tenderer whose tender offer is opened and, where applicable, the total of his prices, number of points claimed for its BBEE status level and time for completion for the main tender offer only.

**C.3.4.3** Make available the record outlined in C.3.4.2 to all interested persons upon request.

**C.3.5 Two-envelope system**

**C.3.5.1** Where stated in the tender data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data and announce the name of each tenderer whose technical proposal is opened.

**C.3.5.2** Evaluate functionality of the technical proposals offered by tenderers, then advise tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the functionality evaluation more than the minimum number of points for functionality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any points claimed on BBEE status level. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for functionality.

**C.3.6 Non-disclosure**

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

**C.3.7 Grounds for rejection and disqualification**

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

**C.3.8 Test for responsiveness**

**C.3.8.1** Determine, after opening and before detailed evaluation, whether each tender offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**C.3.8.2** A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

**C.3.9      Arithmetical errors, omissions and discrepancies**

**C.3.9.1** Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

**C.3.9.2** Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the pricing schedule or bills of quantities; or
- c) arithmetic errors in:
  - (i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
  - (ii) the summation of the prices.

**C.3.9.3** Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.

**C.3.9.4** Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:

- a) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
- b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

**C.3.10      Clarification of a tender offer**

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

**C.3.11      Evaluation of tender offers**

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the Tender Data associated with a specific project.

|                                                                                                         |                                                                                                        |                                                                                                        |                                                                                                       |                                                                                                        |                                                                                                        |
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|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|

Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the employer's undertakings in soliciting and evaluating tender offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require employers to conduct the process of offer and acceptance in terms of a set of standard procedures.

| <b>The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:</b> |                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Requirement</b>                                                                                                                | <b>Qualitative interpretation of goal</b>                                                                                                                                                                                              |
| Fair                                                                                                                              | The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.                                                                  |
| Equitable                                                                                                                         | Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.                                                                                                                                   |
| Transparent                                                                                                                       | The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the employer, lack of capability or capacity, legal impediments and conflicts of interest.         |
| Competitive                                                                                                                       | The system provides for appropriate levels of competition to ensure cost effective and best value outcomes.                                                                                                                            |
| Cost effective                                                                                                                    | The processes, procedures and methods are standardized with sufficient flexibility to attain best value outcomes in respect of quality, timing and price, and least resources to effectively manage and control procurement processes. |

**The activities associated with evaluating tender offers are as follows:**

- a) Open and record tender offers received
- b) Determine whether or not tender offers are complete
- c) Determine whether or not tender offers are responsive
- d) Evaluate tender offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred tenderer
- g) Prepare a tender evaluation report
- h) Confirm the recommendation contained in the tender evaluation report

#### **C.3.11.1**    General

The employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data.

#### **C.3.12**    **Insurance provided by the employer**

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the contract data, require the employer to provide.

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**C.3.13      Acceptance of tender offer**

Accept the tender offer; if in the opinion of the employer, it does not present any risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement;
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract;
- c) has the legal capacity to enter into the contract;
- d) is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing;
- e) complies with the legal requirements, if any, stated in the tender data; and
- f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

**C.3.14      Prepare contract documents**

**C.3.14.1**      If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents and
- c) other revisions agreed between the employer and the successful tenderer.

**C.3.14.2**      Complete the schedule of deviations attached to the form of offer and acceptance, if any.

**C.3.15      Complete adjudicator's contract**

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

**C.3.16      Registration of the award**

An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the CIDB Register of Projects.

**C.3.17      Provide copies of the contracts**

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

**C.3.18      Provide written reasons for actions taken**

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



# PART T2: RETURNABLE DOCUMENTS & SCHEDULES

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## SECTION T2.1: LIST OF RETURNABLE DOCUMENTS

THE TENDERER MUST SUBMIT THE FOLLOWING DOCUMENTS WITH THIS TENDER. IF THE DOCUMENTS ARE NOT INCLUDED IN THE DOCUMENT, THE DEPARTMENT WILL NOT CONSIDER THIS TENDER.

| Clause referred to in Standard Conditions of Tender | Document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C.2.1                                               | <p>Tenderers shall provide their CRS Number of registered Contractor as well as JV Partner*. CRS Number of Tenderers or JV Partners must be filled in below:</p> <p><b>NB: In cases where a bidder intends to form a Joint Venture, the CRS number/s must be filled in below i.e. the Lead partner and Joint Venture partner/s:</b></p> <p><b><u>Tenderer/Leading JV Partner</u></b></p> <p>CRS Number: _____</p> <p>Name of Company: _____</p> <p><b><u>JV Partner</u></b></p> <p>CRS Number: _____</p> <p>Name of Company: _____</p> <p><b><u>JV Partner</u></b></p> <p>CRS Number: _____</p> <p>Name of Company: _____</p> <p>All contractors, even tendering in JV, must be registered with CIDB. The lead Partner must have Category <b>6GB</b> or <b>HIGHER</b> Contractor</p> <p><b>*NB:</b> Recent printout from CIDB website indicating the CRS number will also be accepted.</p>                                                                                                             |
| C.2.7                                               | Attendance of the compulsory Tender Clarification meeting as stipulated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| C.2.8                                               | <p>1.1 Bidders must ensure compliance with their tax obligations.</p> <p>1.2 Bidders are required to submit their unique personal identification number (PIN) issued by SARS to enable the organ of state to verify the taxpayer's profile and tax status.</p> <p>1.3 Application for tax compliance status (TCS) PIN may be made via e-filing through the SARS website <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</p> <p>1.4 Bidders may also submit a printed TCS certificate or provide Tax pin together with the bid.</p> <p>1.5 In bids where consortia / joint ventures / sub-contractors are involved; each party must submit a separate TCS certificate / PIN / CSD number.</p> <p>Where consortium/ joint ventures are involved, each party to the association must submit separate CSD reports or confirm the CSD number on their respective letterhead.</p> <p>No tender may be awarded to any tenderer whose tax matters have not been declared by the SARS to be in order.</p> |

\_\_\_\_\_

Contractor

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Witness 1

\_\_\_\_\_

Witness 2

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Employer

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Witness 1

\_\_\_\_\_

Witness 2

**CONTRACT : SSC WC 1 (2024/2025) DALRRD**  
**Part T2: Returnable Documents**  
**Section T2.1: List of Returnable Documents**

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|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C.2.10 | Form of offer must be completed and signed by duly authorized person.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|        | <p>Bidders must be registered on the National Treasury Central Supplier Database and attach a report as proof or write the CSD supplier number or registration number on the space provided on the SBD 1 document.</p> <p>Where the bidder forms a consortium or joint venture, written Proof of the contract between all parties must be attached.</p> <p>Where consortium/ joint ventures/ sub-contractor are involved each must submit separate CSD reports or write the CSD supplier number or confirm the CSD number on their respective letterhead. (SDB 1 form).</p> |
|        | <b>Fully completed Declarations on SBD forms</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Clause referred to in Standard Conditions of Tender | Document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C.2.11                                              | <p>Tampering with or taking apart the bound document is strictly prohibited. <b>All additional documentation must be stapled into the tender document or attached in a separate file.</b></p> <p>Corrections in terms of price must not be made by means of a correction fluid such as Tipp-Ex or similar product. If correction fluid has been used on any specific item price, such item will not be considered. No correction fluid may be used in a Bill of Quantities where prices are calculated to arrive at a total amount. If correction fluid has been used the Tender as a whole will not be considered.</p> <p>"In the event of mistakes having been made on prices INCLUSIVE OF VAT, it must be crossed out in ink at each and every price alteration on the form of offer and be accompanied by an initial at each and every price alteration.</p>                    |
| C.2.13.4                                            | Letter of authorization to sign the Form of Offer and where required in tender document (See Form D).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| C.2.28                                              | <p>Bidders must ensure compliance with their tax obligations.</p> <p>Bidders are required to submit their valid compliance personal identification number (PIN) issued by SARS to enable the organ of state to view the taxpayer's profile and tax status.</p> <p>Application for tax compliance status (TCS) or pin may also be made via e-filing. In order to use this provision, taxpayers will need to register with SARS as e-filers through the website <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</p> <p>Bidders may also submit a printed TCS together with the bid.</p> <p>In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate proof of TCS / PIN / CSD number.</p> <p>Where no TCS is available but the bidder is registered on the central supplier database (CSD), a CSD number must be provided.</p> |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**THE TENDERER MUST REGISTER AND SUBMIT THE FOLLOWING NATIONAL TREASURY CENTRAL SUPPLIER DATABASE (CSD) DETAILS WITH THIS TENDER.**

| Document                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p>Tenderers shall provide their <b>CSD Supplier Number (Master Registration Number)</b> and <b>Tax Compliance PIN Number</b> in the space provided below:</p> <p><b>NB: In cases where a bidder intends to form a Joint Venture, the CSD Supplier Number (Master Registration Number) and Tax Compliance PIN shall also be provided in the space provided below, i.e. the lead partner and Joint Venture partner/s.</b></p> <p>If any sub-contractors are proposed their CSD Supplier Number (Master Registration Number) and Tax Compliance PIN numbers shall be provided in Form A.</p> <p><b>If the documents are not included in the document, the tender will be regarded as being NON-RESPONSIVE.</b></p> |  |
| <b><u>Tenderer/Leading JV Partner</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Name of Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| CSD Supplier Number: (Master Registration Number)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Tax Compliance PIN number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b><u>JV Partner 1</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Name of Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| CSD Supplier Number: (Master Registration Number)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Tax Compliance PIN number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <b><u>JV Partner 2</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Name of Company:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| CSD Supplier Number: (Master Registration Number)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| Tax Compliance PIN number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| <p><b>*NB: All contractors, even tendering in JV, must be registered with National Treasury Central Supplier Database</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## **SECTION T2.2: RETURNABLE SCHEDULES**

- SECTION T2.2.1: FORM A: SCHEDULE OF PROPOSED SUBCONTRACTORS**
- SECTION T2.2.2: FORM B: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022 (SBD 6.1)**
- SECTION T2.2.3: FORM C: RECORD OF ADDENDA TO TENDER DOCUMENTS**
- SECTION T2.2.4: FORM D: AUTHORITY OF SIGNATORY**
- SECTION T2.2.5: FORM E: STATUS OF CONCERN SUBMITTING TENDER**
- SECTION T2.2.6: FORM F: DECLARATION OF INTEREST (SBD 4)**
- SECTION T2.2.7: FORM G: DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES (SBD 8)**
- SECTION T2.2.8: FORM H: SCHEDULE OF PLANT AND EQUIPMENT AVAILABLE FOR THIS CONTRACT**
- SECTION T2.2.9: FORM I: SCHEDULE OF WORK CARRIED OUT BY THE TENDERER**
- SECTION T2.2.10: FORM J: CERTIFICATE OF TENDERER'S VISIT TO THE SITE**
- SECTION T2.2.11: FORM K: KEY-PERSONNEL/ SUPERVISORY AND MANAGEMENT STAFF**
- SECTION T2.2.12: FORM L: KEY-PERSONNEL AND NON-LOCAL WORKERS TO BE EMPLOYED**
- SECTION T2.2.13: FORM M: QUALITY MANAGEMENT SYSTEMS:**
- SECTION T2.2.14: FORM N: COMPLIANCE WITH OHSA (ACT 85 OF 1993)**
- SECTION T2.2.15: FORM O: CSD SUPPLIER NUMBER AND TAX COMPLIANCE PIN**
- SECTION T2.2.16: FORM P: PRELIMINARY PROGRAMMEME**
- SECTION T2.2.17: FORM Q: ESTIMATED MONTHLY EXPENDITURE**
- SECTION T2.2.18: FORM R: ALTERATIONS BY TENDERER**
- SECTION T2.2.19: FORM S: COMPULSORY ENTERPRISE QUESTIONNAIRE**
- SECTION T2.2.20: FORM T: TENDERERS PERFORMANCE EVALUATION FORM**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## SECTION T2.2.1: FORM A: SCHEDULE OF PROPOSED SUBCONTRACTORS

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us. The contractor is to obtain approval if he/she intends to change the submitted list of Subcontractors.

**In Bids where subcontractors are involved each party must submit a separate proof of TCS / PIN / CSD number together with the bid. Where no TCS is available but the subcontractor is registered on the Central Supplier Database (CSD), a CSD number must be provided. (Refer to Clause C2.28)**  
**Alternatively, where a subcontractor is not yet registered on the National Treasury CSD, submission of a Valid Tax Clearance Certificate together with the bid is compulsory. (Refer to Clause C2.28)**

1. Will any portion of the contract be sub-contracted? Yes ☐ / No ☐

2. If yes, indicate:

- (i) The name of the proposed sub-contractor, the nature and extent of the work to be sub-contracted and the previous experience with the sub-contractor in the table below.

|    | Name and address of the proposed Sub-contractor | Nature and extent of work | Previous experience with Sub-contractor |
|----|-------------------------------------------------|---------------------------|-----------------------------------------|
| 1. |                                                 |                           |                                         |
| 2. |                                                 |                           |                                         |
| 3. |                                                 |                           |                                         |
| 4. |                                                 |                           |                                         |

### SUB-CONTRACTING

1. Will any portion of the contract be sub-contracted? Yes ☐ / No ☐

2. If yes, indicate:

- (i) What percentage of the contract will be Sub-contracted? ..... %

- (ii) The name/s of the sub-contractor(s)? (1) .....  
(2) .....  
(3) .....  
(4) .....

- (iii) The B-BBEE status level of the sub-contractor(s)?

- (iv) Whether the sub-contractor(s) is/are an EME? Yes ☐ / No ☐

Signature of person authorised to sign the tender: .....

Date:.....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

(iii) What percentage of the contract will be sub-contracted, the B-BBEE status level of the sub-contractors and whether they are an EME/QSE, must be stated in the table below and specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

| Name of proposed Sub Contractor | % of the work that will be sub-contracted | B-BBEE status level of the sub-contractor | Designated Group: An EME or QSE which is at last 51% owned by: |  |                            |  |                            |  |                                |  |                                                                    |  |                                    |  |                                        |  |         |  |         |  |
|---------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------------|--|----------------------------|--|----------------------------|--|--------------------------------|--|--------------------------------------------------------------------|--|------------------------------------|--|----------------------------------------|--|---------|--|---------|--|
|                                 |                                           |                                           | Black people                                                   |  | Black people who are youth |  | Black people who are women |  | Black people with disabilities |  | Black people living in rural or under-developed areas or townships |  | Coope-rative owned by black people |  | Black people who are military veterans |  | Any EME |  | Any QSE |  |
|                                 |                                           |                                           | EME                                                            |  | EME                        |  | EME                        |  | EME                            |  | EME                                                                |  | EME                                |  | EME                                    |  | EME     |  | EME     |  |
|                                 |                                           |                                           | QSE                                                            |  | QSE                        |  | QSE                        |  | QSE                            |  | QSE                                                                |  | QSE                                |  | QSE                                    |  | QSE     |  | QSE     |  |
|                                 |                                           |                                           | EME                                                            |  | EME                        |  | EME                        |  | EME                            |  | EME                                                                |  | EME                                |  | EME                                    |  | EME     |  | EME     |  |
|                                 |                                           |                                           | QSE                                                            |  | QSE                        |  | QSE                        |  | QSE                            |  | QSE                                                                |  | QSE                                |  | QSE                                    |  | QSE     |  | QSE     |  |
|                                 |                                           |                                           | EME                                                            |  | EME                        |  | EME                        |  | EME                            |  | EME                                                                |  | EME                                |  | EME                                    |  | EME     |  | EME     |  |
|                                 |                                           |                                           | QSE                                                            |  | QSE                        |  | QSE                        |  | QSE                            |  | QSE                                                                |  | QSE                                |  | QSE                                    |  | QSE     |  | QSE     |  |
|                                 |                                           |                                           | EME                                                            |  | EME                        |  | EME                        |  | EME                            |  | EME                                                                |  | EME                                |  | EME                                    |  | EME     |  | EME     |  |
|                                 |                                           |                                           | QSE                                                            |  | QSE                        |  | QSE                        |  | QSE                            |  | QSE                                                                |  | QSE                                |  | QSE                                    |  | QSE     |  | QSE     |  |

Signature of person authorised to sign the tender: .....

Date: .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

|                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------|
| <b>SECTION T2.2.2: FORM B: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022 (SBD 6.1)</b> |
|---------------------------------------------------------------------------------------------------------------------------------|

**BID PROCESS (EQUAL OR BELOW R 50 MILLION)**

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

**NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022**

---

**1. DEFINITIONS**

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of tender invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions;
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000); and
- (f) **“Historically Disadvantaged individuals”** means a person historically disadvantaged by unfair discrimination on the basis of race: Provided that a person historically disadvantaged on the basis of race refers to Africans, Coloureds, Indians and people of Chinese descent who are South African citizens by birth or descent; or who became citizens of the Republic of South Africa by Naturalisation -
  - Before 27 April 1994; or
  - On or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date.

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Contractor

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Witness 1

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Witness 2

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Employer

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Witness 1

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|--|

Witness 2



## 2. GENERAL CONDITIONS

2.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and

### 2.2 To be completed by the organ of state

- a) The applicable preference point system for this tender is the 80/20 preference pointsystem.
- b) 80/20 preference point system will be applicable in this tender. The lowest/ highestacceptable tender will be used to determine the accurate system once tenders arereceived.

2.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

### 2.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

|                                           | POINTS |
|-------------------------------------------|--------|
| PRICE                                     | 80     |
| SPECIFIC GOALS                            | 20     |
| Total points for Price and SPECIFIC GOALS | 100    |

- 2.5 Failure on the part of a tenderer to submit proof or documentation required in terms ofthis tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 2.6 Tenderers that fail to claim points for specific goals or that fail to fully complete the table in paragraph 2.12 below, will not be awarded points for specific goals.
- 2.7 Tenderers that make a calculation error when claiming points as per the table in paragraph 2.12 below, will not be awarded points for specific goals. Please take noteof the examples on how to calculate points for specific goals as per paragraph 2.12 below.
- 2.8 Tenderers that fail to submit the correct SBD 6.1 form as issued by the Department of Agriculture, Land Reform and Rural Development, will not be awarded points for specific goals.
- 2.9 The organ of state reserves the right to require of a tenderer, either before a tender isadjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

2.10 Tenderers who wish to claim points in terms of the table in paragraph 2.12 below need to provide proof for each point claimed as guided below:

2.10.1 Historically Disadvantaged individuals (HDI):

- **Attach a copy of Identity Document (ID) and company registration document.**

2.10.2 Who is female:

- **Attach a copy of Identity Document (ID) and company registration document.**

2.10.3 Who has a disability:

- **Attach a certified copy or original doctor's letter confirming the disability.**

2.10.4 Who is youth (a person that is not older than 35 years on the closing date of a bid):

- **Attach a copy of Identity Document (ID) and company registration document.**

2.11 The Department will use the Central Supplier Database and documents submitted by the tenderer to verify the points claimed for specific goals.

2.12 Specific goals for the tender and points claimed are indicated per the table below.

*(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)*

*Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)*

| The specific goals allocated points in terms of this tender | Number of points allocated (80/20 system) | Percentage ownership equity (To be completed by the tenderer) | Number of points claimed (80/20 system) (To be completed by the tenderer) |
|-------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|
| I. HDI                                                      | 8                                         |                                                               |                                                                           |
| II. Who is female                                           | 5                                         |                                                               |                                                                           |
| III. Who has a disability                                   | 2                                         |                                                               |                                                                           |
| IV. Specific goal: Who is youth                             | 2                                         |                                                               |                                                                           |
| V. Specific goal: Locality                                  | 3                                         |                                                               |                                                                           |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

The number of points claimed for specific goals, are calculated as follow:

- (I) A maximum of 8 points may be allocated to tenderers who had no franchise in national elections before the 1983 and 1993 Constitution, on the following basis:
  - **Percentage ownership equity** x 8 ÷ 100 = number of points claimed.
- (II) A maximum of 5 points may be allocated for to tenderers who is female, on the following basis:
  - **Percentage ownership equity** x 5 ÷ 100 = number of points claimed.
- (III) A maximum of 2 points may be allocated to tenderers who has a disability, on the following basis:
  - **Percentage ownership equity** x 2 ÷ 100 = number of points claimed.
- (IV) A maximum of 2 points may be allocated to tenderers who are youth, on the following basis:
  - **Percentage ownership equity** x 2 ÷ 100 = number of points claimed.
- (V) A maximum of 3 points may be allocated to tenderers for locality, on the following basis:
  - **Percentage ownership equity** x 3 ÷ 100 = number of points claimed.

**2.13 It is important to note that failure by a tenderer to complete the table in paragraph 2.12 in full, will result in points for specific goals not to be allocated.**

### **3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES**

#### **3.1. POINTS AWARDED FOR PRICE**

##### **3.1.1 THE 80/20 PREFERENCE POINT SYSTEMS**

A maximum of 80 points is allocated for price on the following basis:

$$P_s = 80(1 - \frac{P_t - P_{min}}{P_{min}})$$

Where :

- $P_s$  = Points scored for price of tender under consideration
- $P_t$  = Price of tender under consideration
- $P_{min}$  = Price of lowest acceptable tender

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

### 3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

#### 3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 points is allocated for price on the following basis:

$$P_s = 80(1 - \frac{P_t - P_{min}}{P_{min}})$$

Where :

- $P_s$  = Points scored for price of tender under consideration  
 $P_t$  = Price of tender under consideration  
 $P_{max}$  = Price of highest acceptable tender

### 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in the table in paragraph 2.12 above as may be supported by proof/documentation stated in the conditions of this tender.
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of;
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system: or
  - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

- 4.3 A consortium or joint venture may, based on the percentage of the contract value managed or executed by their members, be entitled to claim points in respect of specific contract participation goals.
- 4.4 A tenderer will not be awarded points for HDI if it is indicated in the tender documents that such a tenderer intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for the same number or more points for equity ownership.
- 4.5 A tenderer awarded a contract as a result of preference for contracting with, or providing equity ownership to a HDI, may not subcontract more than 25% of the value of the contract to a tenderer who is not a HDI or does not qualify for the same number or more preference for equity ownership.

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

## 5. SUB-CONTRACTING

5.1 Will any portion of the contract be sub-contracted?(*Tick applicable box*)

|     |  |    |  |
|-----|--|----|--|
| YES |  | NO |  |
|-----|--|----|--|

5.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted:.....%
- ii) The name of the sub-contractor: .....
- iii) Points claimed for HDI by the sub-contractor: .....

## 6. DECLARATION WITH REGARD TO COMPANY/FIRM

6.1. Name of company/firm: .....

6.2. Company registration number: .....

6.3. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company [TICK APPLICABLE BOX]

6.4. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

- (a) disqualify the person from the tendering process;
- (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
- (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
- (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
- (e) forward the matter for criminal prosecution, if deemed necessary.

|                                                        |       |
|--------------------------------------------------------|-------|
| <p>.....</p> <p><b>SIGNATURE(S) OF TENDERER(S)</b></p> |       |
| <b>SURNAME AND NAME:</b>                               | ..... |
| <b>DATE:</b>                                           | ..... |
| <b>ADDRESS:</b>                                        | ..... |
|                                                        | ..... |

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

SECTION T2.2.3: FORM C: RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

| Date |  | Title of Details |
|------|--|------------------|
| 1.   |  |                  |
| 2.   |  |                  |
| 3.   |  |                  |
| 4.   |  |                  |
| 5.   |  |                  |
| 6.   |  |                  |
| 7.   |  |                  |
| 8.   |  |                  |
| 9.   |  |                  |
| 10.  |  |                  |

Attach additional pages if more space is required.

Signature of person authorised to sign the tender: .....

Date: .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

#### SECTION T2.2.4: FORM D: AUTHORITY OF SIGNATORY

Signatories for companies, closed corporations and partnerships must establish their authority **BY ATTACHING TO THIS FORM, ON THEIR ORGANISATIONS'S LETTERHEAD STATIONERY**, a copy of the relevant resolution by their Board of Directors, Members or Partners, duly signed and dated.

An **EXAMPLE** is shown below for a COMPANY:

## MABEL HOUSE (Pty) Ltd

By resolution of the Board of Directors taken on *20 May 2000, MR A.F JONES*

has been duly authorised to sign all documents in connection with Contract no CON 0005, and any contract which may arise therefrom, on behalf of *Mabel House (Pty) Ltd*.

SIGNED ON BEHALF OF THE COMPANY: (Signature of Managing Director)

IN HIS CAPACITY AS: Managing Director

DATE: 20 May 2000

SIGNATURE OF SIGNATORY: Signature of A.F Jones)

As witnesses:

1. ....

2. ....

Signature of person authorised to sign the tender: .....

Date: .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



|                                                                    |
|--------------------------------------------------------------------|
| <b>SECTION T2.2.5: FORM E: STATUS OF CONCERN SUBMITTING TENDER</b> |
|--------------------------------------------------------------------|

**1. GENERAL**

State whether the tenderer is a company, a closed corporation, a partnership or a one-man concern.  
(Make an X in the appropriate space below)

|                 |                          |                    |                          |             |                          |
|-----------------|--------------------------|--------------------|--------------------------|-------------|--------------------------|
| Company         | <input type="checkbox"/> | Closed Corporation | <input type="checkbox"/> | Partnership | <input type="checkbox"/> |
| One-man concern | <input type="checkbox"/> | Joint Venture      | <input type="checkbox"/> |             |                          |

**2. INFORMATION TO BE PROVIDED**

(Block letters)

**2.1 If the tenderer is a Company:**

- (a) Affix a certified copy of the Certificate of Incorporation to this page.
- (b) List the Directors.

**2.2 If the tenderer is a Closed Corporation:**

- (a) Affix a certified copy of the Founding Statement to this page.
- (b) List the Members.

**2.3 If the tenderer is a Partnership:**

List the partners.

**2.4 If the tenderer is a One-man concern:**

Provide the full name and ID number of the person.

**2.5 If the tenderer is a Joint Venture:**

- (a) Affix a certified copy of the Founding Statement of each partner of the JV to this page.
- (b) Affix JV agreement.

**3. REGISTERED FOR VAT PURPOSES IN TERMS OF THE VALUE-ADDED TAX ACT, (Act Nr. 89 of 1991) (Make an X in the appropriate space below)**

Yes ☐ / No ☐ Registration nr.: .....

Signature of person authorised to sign the tender: .....

Date: .....

|                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Contractor           | Witness 1            | Witness 2            | Employer             | Witness 1            | Witness 2            |

**SECTION T2.2.6: FORM F: DECLARATION OF INTEREST (SBD 4)**

**BIDDER'S DISCLOSURE**

**1. PURPOSE OF THE FORM**

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

**2. Bidder's declaration**

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>1</sup> in the enterprise, employed by the state? **YES/NO**

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

| Full Name | Identity Number | Name of State institution |
|-----------|-----------------|---------------------------|
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |

- 2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

- 2.2.1 If so, furnish particulars:

.....  
.....

- 2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

<sup>1</sup> the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

2.3.1 If so, furnish particulars:

.....  
 .....

### **3 DECLARATION**

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>2</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
 Signature

.....  
 Date

.....  
 Position

.....  
 Name of bidder

---

<sup>2</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**SECTION T2.2.7**  
**FORM G: DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES (SBD 8)**

1. This Standard Bidding Document must form part of all tenders invited.
2. It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
3. The tender of any tenderer will be rejected if that tenderer, or any of its directors have:
  - a. abused the institution's supply chain management system;
  - b. committed fraud or any other improper conduct in relation to such system; or
  - c. failed to perform on any previous contract.
4. **In order to give effect to the above, the following questionnaire must be completed and submitted with the tender:**

| Item  | Question                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes                          | No                          |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
| 4.1   | Is the bidder any of its directors listed on the National Treasury's database as a company or persons prohibited from doing business with the public sector?<br><br>(Companies for persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).                                                                                                                         | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.1.1 | If so, furnish particulars:<br>.....<br>.....<br>.....<br>.....                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |                             |
| 4.2   | Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?<br><br>(To access this Register enter the National Treasury's website, <a href="http://www.treasury.gov.za">www.treasury.gov.za</a> , click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012) 326 5445) | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.2.1 | If so, furnish particulars:<br>.....<br>.....<br>.....<br>.....                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |                             |
| 4.3   | Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?                                                                                                                                                                                                                                                                                           | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

| Item  | Question                                                                                                                                                                                                                               | Yes                          | No                          |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------|
| 4.3.1 | If so, furnish particulars:<br>.....<br>.....<br>.....                                                                                                                                                                                 |                              |                             |
| 4.4   | Was any contract between the bidder and the Department entity or any other organ of state terminated during the past five years on account of failure to perform on or to comply with the contract?                                    | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.4.1 | If so, furnish particulars:<br>.....<br>.....<br>.....                                                                                                                                                                                 |                              |                             |
| 4.5   | Does the bidder or any of its directors owe any Municipal rates and taxes or Municipal charges to the Municipality / Municipal entity, or to any other Municipality / Municipal entity, that is in arrears for more than three months? | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.5.1 | If so, furnish particulars:<br>.....<br>.....<br>.....                                                                                                                                                                                 |                              |                             |

#### CERTIFICATION

I, the undersigned (full name) .....  
certify that the information furnished on this declaration form to be true and correct.

I accept that, in addition to cancellation of a contract, action may be taken against me should this declaration prove to be false.

.....  
Signature

.....  
Date

.....  
Name of Bidder

.....  
Position of Bidder

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SECTION T2.2.8:   **FORM H: SCHEDULE OF PLANT AND EQUIPMENT AVAILABLE FOR THIS CONTRACT**

The following are lists of major items of relevant equipment that I/we presently own or lease and will have **available for this contract** or will acquire or hire **for this contract** if my/our tender is accepted.

(a)       Details of major equipment that is owned by and immediately available for this contract.

| Quantity | Description, size, capacity, etc. |
|----------|-----------------------------------|
|          |                                   |
|          |                                   |
|          |                                   |
|          |                                   |
|          |                                   |
|          |                                   |

Attach additional pages if more space is required.

(b)       Details of major equipment that will be hired or acquired for this contract if my/our tender is acceptable.

| Quantity | Description, size, capacity, etc. |
|----------|-----------------------------------|
|          |                                   |
|          |                                   |
|          |                                   |
|          |                                   |
|          |                                   |
|          |                                   |
|          |                                   |

Attach additional pages if more space is required.

Signature of person authorised to sign the tender: .....

Date: .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SECTION T2.2.9:    **FORM I: SCHEDULE OF WORK CARRIED OUT BY THE TENDERER**

The tenderer shall list in the spaces provided below the **general building related projects of similar nature, that being primarily concerned with the development, extension, installation, renewal, renovation alteration, or dismantling of a permanent shelter for its occupants or contents, with a minimum value of R6 000 000 each in the last 9 years.**

a) LIST OF SIMILAR RELEVANT PROJECTS COMPLETED BY THE BIDDER

| Employer<br>(Name, Tel No, Fax No)    | Consulting Engineer<br>(Name, Tel No, Fax No) | Nature Of Work | Value Of Work | Year Completed |
|---------------------------------------|-----------------------------------------------|----------------|---------------|----------------|
| Completed (similar relevant projects) |                                               |                |               |                |
|                                       |                                               |                |               |                |
|                                       |                                               |                |               |                |
|                                       |                                               |                |               |                |
|                                       |                                               |                |               |                |
|                                       |                                               |                |               |                |
|                                       |                                               |                |               |                |
|                                       |                                               |                |               |                |
|                                       |                                               |                |               |                |
|                                       |                                               |                |               |                |

Signature of person authorised to sign the tender: .....

Date: .....

Contractor
 Witness 1
 Witness 2
 Employer
 Witness 1
 Witness 2

**SECTION T2.2.10: FORM J: CERTIFICATE OF TENDERER'S VISIT TO THE SITE**

This is to certify that I,.....

Representative of (Tenderer) .....

Of (address).....

.....

.....

Telephone No: .....

Fax No: .....

Visited and carefully examined the Site on the ..... day of ..... 20.....

In the company of (Engineer's representative) .....

Signature (Tenderer's Representative) .....

Signature (Engineer's Representative) .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**SECTION T2.2.11: FORM K: KEY-PERSONNEL/ SUPERVISORY AND MANAGEMENT STAFF**

The Tenderer shall, submit the names of all management and supervisory staff that will be employed to supervise Contract. **Please attach the CVs that include lists of successfully general building projects of similar nature, that being primarily concerned with the development, extension, installation, renewal, renovation alteration, or dismantling of a permanent shelter for its occupants or contents, with a minimum value of R6 000 000 each in the last 9 years by the Contract Manager and R3 000 000 each in the last 9 years by the Site Agent.** The Tenderer shall also include an organogram of the project team and the company structure.

Note that the Key personnel (Contract manager and Site agent) specified here directly influence the award of the contract hence should they need to be changed, the substitution should be a person who is of equal or higher skills and the approval of this change by the DALRRD is required prior to implementation. The Department reserves the right to not award the contract or terminate the contract should this be violated.

**Note:** that any project with incomplete details will be regarded as non-responsive.

| 1. Position                                      | Contract Manager         |           |            |          |           |
|--------------------------------------------------|--------------------------|-----------|------------|----------|-----------|
| Name                                             |                          |           |            |          |           |
| Indicate Qualification                           |                          |           |            |          |           |
| Indicate Years of Experience                     |                          |           |            |          |           |
| List of Projects Worked on as a Contract Manager | Project Name/Description | Value (R) | Start Date | End Date | Reference |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
| Currently Employed by Tenderer (Y/N)             |                          |           |            |          |           |
| Signature                                        |                          |           |            |          |           |

Signature of person authorised to sign the tender: .....

Date: .....

Contractor      Witness 1      Witness 2      Employer      Witness 1      Witness 2

| 2. Position                                      | Site Agent               |           |            |          |           |
|--------------------------------------------------|--------------------------|-----------|------------|----------|-----------|
| Name                                             |                          |           |            |          |           |
| Indicate Qualification                           |                          |           |            |          |           |
| Indicate Years of Experience                     |                          |           |            |          |           |
| List of Projects Worked on as a Contract Manager | Project Name/Description | Value (R) | Start Date | End Date | Reference |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
|                                                  |                          |           |            |          |           |
| Currently Employed by Tenderer (Y/N)             |                          |           |            |          |           |
| Signature                                        |                          |           |            |          |           |

Signature of person authorised to sign the tender: . .....

Date:

Contractor
Witness 1
Witness 2
Employer
Witness 1
Witness 2

SECTION T2.2.12:     **FORM L: KEY-PERSONNEL AND NON-LOCAL WORKERS TO BE EMPLOYED**

The Tenderer shall insert in the spaces below, the name of non-local key personnel and non-local workers to be engaged on the Contract.

|     | Name | Category   |
|-----|------|------------|
| 1.  |      | Site Agent |
| 2.  |      | Site Agent |
| 3.  |      | Site Agent |
| 4.  |      | Foreman    |
| 5.  |      | Foreman    |
| 6.  |      | Foreman    |
| 7.  |      |            |
| 8.  |      |            |
| 9.  |      |            |
| 10. |      |            |

Attach additional pages if more space is required.

\* The Contractor must fill in the various categories, e.g. Site Agent, Foreman, Trainers, Plant Operators, Clerks, Technicians, Laboratory Assistants, etc. as required.

\*See Part 3.5 of this document for contractual requirements related to Site Agents

Signature of person authorised to sign the tender: .....

Date:.....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**SECTION T2.2.13: FORM M: QUALITY MANAGEMENT SYSTEMS:**

Briefly describe the construction quality system incorporated by the tenderer in his organisation and which will be applicable to this Contract.

|  | Internal | External | Name of responsible Company /or Person (In case of Person give years' experience and qualification) |
|--|----------|----------|-----------------------------------------------------------------------------------------------------|
|  |          |          |                                                                                                     |
|  |          |          |                                                                                                     |
|  |          |          |                                                                                                     |
|  |          |          |                                                                                                     |
|  |          |          |                                                                                                     |
|  |          |          |                                                                                                     |

Signature of person authorised to sign the tender: .....

Date: .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## SECTION T2.2.14: FORM N: COMPLIANCE WITH OHSA (ACT 85 OF 1993)

Tenderers are required to satisfy the Employer and the Engineer as to their ability and available resources to comply with the above by answering the following questions and providing the relevant information required below.

1. Is the Contractor familiar with the OHSA (ACT 85 of 1993) and its Regulations? Yes ☐ / No ☐
  
2. Who will prepare the Contractor's Health and Safety Plan? (Section T2.2.18 – Form R) (Provide a copy of the person/s curriculum vitae/s or company profile). Yes ☐ / No ☐  
\_\_\_\_\_
  
3. Does the Contractor have a health and safety policy? (if yes, provide a copy). How is this policy communicated to all employees? Yes ☐ / No ☐  
\_\_\_\_\_
  
4. Does the Contractor keep records of safety aspects of each construction site? If yes, what records are kept? Yes ☐ / No ☐  
\_\_\_\_\_
  
5. Does the Contractor conduct monthly safety meetings? If yes, who is the chairperson of the meeting, and who attend these meetings? Yes ☐ / No ☐  
\_\_\_\_\_
  
6. Does the Contractor have a safety officer in his employment, responsible for the overall safety of his company? Yes ☐ / No ☐  
If yes, please explain his duties and provide a copy of his CV.  
\_\_\_\_\_
  
7. Does the Contractor have trained first aid employees? If yes, indicate, who. Yes ☐ / No ☐  
\_\_\_\_\_
  
8. Does the Contractor have a safety induction training programme in place? (If yes, provide a copy) Yes ☐ / No ☐

Signature of person authorised to sign the tender: .....

Date: .....

\_\_\_\_\_

Contractor

\_\_\_\_\_

Witness 1

\_\_\_\_\_

Witness 2

\_\_\_\_\_

Employer

\_\_\_\_\_

Witness 1

\_\_\_\_\_

Witness 2

### SECTION T2.2.15: FORM O: CSD SUPPLIER NUMBER AND TAX COMPLIANCE PIN

Bidders registered on the **National Treasury Central Supplier Database (CSD)** are required to submit their unique **Personal Identification Number (PIN)** issued by SARS in the space provided below as stipulated in Clause F2.28.

Bidders may also submit a **printed TCS** together with the bid.

In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party **must** submit a separate proof of **TCS / PIN / CSD** number.

Where no TCS is available but the bidder is registered on the Central Supplier Database (CSD), a **CSD number** must be provided

**Alternatively** the tenderer must submit a valid tax clearance certificate together with the Bid, including Valid Tax Clearance Certificates for the Joint Venture partner/s and Subcontractors proposed.

The certificates may be stapled into the tender document without taking the tender document apart or may be attached in a separate file to the tender document.

**If the documents are not included in the document, the tender will be regarded as being NON-RESPONSIVE.**

#### Tenderer/Leading JV Partner

Name of Company:

CSD Supplier Number: (Master  
Registration Number)

Tax Compliance PIN number:

#### JV Partner 1

Name of Company:

CSD Supplier Number: (Master  
Registration Number)

Tax Compliance PIN number:

#### JV Partner 2

Name of Company:

CSD Supplier Number: (Master  
Registration Number)

Tax Compliance PIN number:

**\*NB: All contractors, even tendering in JV, must be registered with National Treasury Central Supplier Database**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

|                                                         |
|---------------------------------------------------------|
| <b>SECTION T2.2.16: FORM P: PRELIMINARY PROGRAMMEME</b> |
|---------------------------------------------------------|

The Tenderer shall attach a preliminary programme reflecting the proposed sequence and tempo of execution of the various activities comprising the work for this Contract. The programme shall be in accordance with the information supplied in the Contract, requirements of the Project Specifications and with all other aspects of the Tender.

**Note:** The programme must be based on the completion time as specified in the Contract Data.

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

### SECTION T2.2.17: FORM Q: ESTIMATED MONTHLY EXPENDITURE

The tenderer shall, in the table below, state the estimated cash flow on the contract based on his preliminary programme, his tendered unit rates and his submission of payment certificates to the Employer. Amounts for Contract Price Adjustment shall not be included.

[illegible]

From what sources will you fund the above amount (e.g. funds internally available, bank overdraft, loan, partner (his source), etc.)

.....

.....

.....

Signature of person authorised to sign the tender: .....

Date: .....

Contractor    
  Witness 1    
  Witness 2    
  Employer    
  Witness 1    
  Witness 2



## SECTION T2.2.18: FORM R: ALTERATIONS BY TENDERER

Should the Tenderer desire to have any departures from, or modifications to the General Conditions of Contract, Specifications, Bill of Quantities or Drawings considered, or to qualify his tender in any way, he shall set out his proposals clearly hereunder or alternatively state them in a covering letter attached to his tender and referred to hereunder.

[illegible]

Signature of person authorised to sign the tender:

Date: .....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SECTION T2.1.1: SECTIONT2.2.19 : FORM S: COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: cidb registration number, if any:

Section 4: Particulars of sole proprietors and partners in partnerships

| Name*                                                                                              | Identity number* | Personal income tax number* |
|----------------------------------------------------------------------------------------------------|------------------|-----------------------------|
|                                                                                                    |                  |                             |
|                                                                                                    |                  |                             |
| * Complete only if sole proprietor or partnership and attach separate page if more than 3 partners |                  |                             |

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: The attached SBD4 must be completed for each tender and be attached as a tender requirement.

Section 7: The attached SBD 6 must be completed for each tender and be attached as a requirement.

Section 8: The attached SBD8 must be completed for each tender and be attached as a requirement.

Section 9: The attached SBD9 must be completed for each tender and be attached as a requirement.

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed

Date

Name

Position

Enterprise name

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SECTION T2.2.20: FORM T: TENDERERS PERFORMANCE EVALUATION FORM

PROJECT PERFORMANCE EVALUATION FORM  
(not to be completed at tender stage)

Project Name of Tenderer: \_\_\_\_\_

Project name: \_\_\_\_\_

Project location: \_\_\_\_\_

Construction period: \_\_\_\_\_

Completion date: \_\_\_\_\_

Contract value: \_\_\_\_\_

A. Please evaluate the performance of the Tenderer on the abovementioned project, on which you were the principal agent, by inserting “Yes” in the relevant box below:

|                                                                     | Unacceptable | Challenging | Acceptable | Commendable | Outstanding |
|---------------------------------------------------------------------|--------------|-------------|------------|-------------|-------------|
|                                                                     | 1            | 2           | 3          | 4           | 5           |
| 1. Quality of Workmanship                                           |              |             |            |             |             |
| 2. Resources Personnel                                              |              |             |            |             |             |
| 3. Project performance/ time management/ programming                |              |             |            |             |             |
| 4. Financial management/ payment of subcontractors/ cash flows etc. |              |             |            |             |             |
| 5. Resources Plant                                                  |              |             |            |             |             |

B. Would you consider / recommend this tenderer again:

|     |    |
|-----|----|
| YES | NO |
|     |    |

C. Any other comments:

\_\_\_\_\_

\_\_\_\_\_

D. My contact details are:

Telephone: \_\_\_\_\_

Contractor

Witness 1

Witness 2

Employer

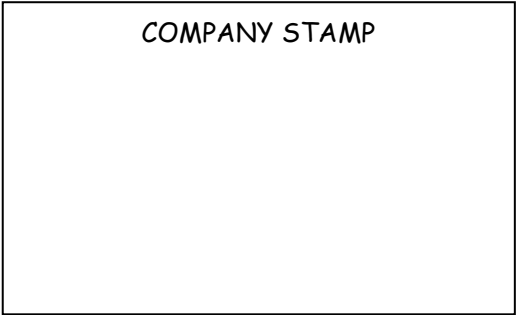
Witness 1

Witness 2

Cellphone: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 E-mail: \_\_\_\_\_

Thus signed at \_\_\_\_\_ on this \_\_\_\_\_ day of \_\_\_\_\_ 2023

\_\_\_\_\_  
 Signature of principal agent



**NOTE:**  
 If reference cannot be verified due to the inability to contact the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points.

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

## CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

## **PORTION 2: CONTRACT**

### **PART C1: AGREEMENTS AND CONTRACT DATA**

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

## AGREEMENTS AND CONTRACT DATA

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| <i>Section</i> | <i>Description</i>                            | <i>Page No</i> |
|----------------|-----------------------------------------------|----------------|
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| C1.2           | CONTRACT DATA.....                            | C1.2.1         |
| C1.3           | GUARANTEE FOR CONSTRUCTION.....               | C1.3.1         |
| C1.4           | OCCUPATIONAL HEALTH AND SAFETY AGREEMENT..... | C1.4.1         |
| C1.5           | INSURANCE BROKERS WARRANTY.....               | C1.5.1         |

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

## CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE

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|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

C1.1



## C1.1 FORM OF OFFER AND ACCEPTANCE

---

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

C1.1

## C1.1 FORM OF OFFER AND ACCEPTANCE

### FORM OF OFFER AND ACCEPTANCE (AGREEMENT)

#### OFFER

### APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

The Bidder, identified in the Offer signature block below, has examined the documents listed in the Bid Data and addenda thereto as listed in the Bid Schedules, and by submitting this Offer has accepted the Conditions of Bid.

By the representative of the Bidder, deemed to be duly authorised, signing this apart of this Form of Offer and Acceptance, the Bidder offers to perform all of the obligations and liabilities of the Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

#### THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS

Rand (in words);

R (in figures),

*(Should there be a discrepancy between the amount in words and the amount in figures then the amount in figures shall govern.)*

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the Bidder before the end of the period of validity stated in the Bid Data, where upon the Bidder becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Bid documents and the receipt by the Bidder of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

#### FOR THE TENDERER:

Signature(s)

Name(s)

Capacity

(Name and address of organisation)

Name and Signature  
Of Witness

Date

C1.1.1

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|--|--|--|--|--|--|

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE

### ACCEPTANCE

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Bidder's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the, Conditions of Contract identified in the Contract Data. Acceptance of the Bidder's Offer shall form an agreement, between the Employer and the Bidder upon the terms and conditions contained in this Agreement and in the, Contract that is the subject of this Agreement. The terms of the contract, are contained in

|         |                                                                                   |
|---------|-----------------------------------------------------------------------------------|
| Part C1 | Agreements and Contract Data, (which includes this Form of Offer and Acceptance); |
| Part C2 | Pricing Data;                                                                     |
| Part C3 | Scope of Work: Works Information;                                                 |
| Part C4 | Site Information;                                                                 |
| Part C5 | Annexures                                                                         |

And drawings and documents or parts thereof, which may be incorporated by reference into the above listed parts.

Deviations from and amendments to the documents listed in the Bid Data and any addenda thereto listed in the Bid Schedules as well as any changes to the terms of the Offer agreed by the Bidder and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representative(s) of both parties.

The Bidder shall within two weeks after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the, Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Bidder receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Bidder (now Contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Bid documents and the receipt by the Bidder of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

#### FOR THE EMPLOYER:

Signature(s)

Name(s)

Capacity: Department Agriculture Land Reform and Rural Development.

(Name and address of organisation)

Name and Signature Of Witness

Date \_\_\_\_\_

C1.1.2

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

## SCHEDULE OF DEVIATIONS

Notes:

1. The extent of deviations from the bid documents issued by the Employer prior to the bid closing date is limited to those permitted in terms of the Conditions of Bid.
2. A Bidder's covering letter shall not be included in the final contract document. Should any matter in such, letter, which constitutes a deviation as aforesaid become the subject of agreements reached during the process of, offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the bid documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the bid documents arising from the above agreements and recorded here shall also be incorporated into the final draft of the Contract.

**1 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**2 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**3 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**4 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**5 Subject** \_\_\_\_\_

Details \_\_\_\_\_

**6 Subject** \_\_\_\_\_

Details \_\_\_\_\_

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Bidder agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Bid Data and addenda thereto as listed in the Bid Schedules, as well as any confirmation, clarification or change to the terms of the offer agreed by the Bidder and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the bid documents and the receipt by the Bidder of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

---

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|--|--|--|--|--|--|

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.1.3

---

**THE APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

**FOR THE TENDERER:**

Signature(s)

Name(s)

Capacity

\_\_\_\_\_  
(Name and address of organisation)

Name and Signature

Of Witness

Date \_\_\_\_\_

**FOR THE EMPLOYER:**

Signature(s)

Name(s)

Capacity: Department Agriculture Land Reform and Rural Development,

Name and Signature

Of Witness

Date \_\_\_\_\_

---

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

C1.1.4

DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

## CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE

### C1.2 CONTRACT DATA

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|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

C1.2

**The Joint Building Contracts Committee® - NPC**  
**CONTRACT DATA**  
*For use by ORGANS OF STATE and other PUBLIC SECTOR BODIES*  
**Principal Building Agreement Edition 6.2 - May 2018**

## **JBCC®**

The Joint Building Contracts Committee® NPC (JBCC®) is representative of building owners and developers, professional consultants and general and specialist contractors who contribute their knowledge and experience to the compilation of the JBCC® documents. The JBCC® documents portray the consensus view of the constituent members and are published in the interests of standardisation and good practice with an equitable distribution of contractual risk

## **Application of JBCC® agreements**

The definitions contained in the JBCC® Principal Building Agreement apply to this document. A word or phrase in bold type in the text has the same meaning assigned to it in the definitions of such agreement. Where a word or phrase is not in bold type it has the meaning consistent with the context of its use

This contract data contains changes made to the JBCC® Principal Building Agreement to suit Organs of State and other Public Sector Bodies' requirements, as well as unique requirements applicable to the project and variables referred to in the JBCC® Principal Building Agreement and the JBCC® General Preliminaries. The information provided in this document is complete and accurate at the time of calling for tenders. Where additional information becomes available, all tenderers will be informed in writing. Reference to clause numbers in the JBCC® Principal Building Agreement are shown in [square brackets] in this contract data eg [3.2.1]. Spaces requiring information must be filled in, or marked as 'not applicable' but not left blank

Where the contractor is appointed, the contract documents comprise the completed and signed Form of Offer and Acceptance, the signed JBCC® Principal Building Agreement, this completed contract data, the priced document, drawings and other listed documents

## **Endorsement of JBCC® agreements**

The JBCC® Edition 6.2 agreements have been endorsed by Construction Industry Development Board (CIDB) for use by Organs of State and other Public Sector Bodies

## **Warning!**

The JBCC® Principal Building Agreement Edition 6.2 has been coordinated with the JBCC® Nominated/Selected Subcontract Agreement Edition 6.2, the JBCC® General Preliminaries and the JBCC® certificate forms and support documents. Forms from previous editions are not compatible with the JBCC® Principal Building Agreement Edition 6.2

Persons entering into or preparing contracts using the JBCC® suite of contract agreements and support documents are warned of the dangers inherent in modifying any part of it

Experience has shown that changes drafted by others, including members of the building professions, often have unintended results that may be prejudicial to either, or both, parties

## **Disclaimer**

While the JBCC® aims to ensure that its publications represent best practice it does not accept or assume any liability or responsibility for any events or consequences which derive from the use of JBCC® documents

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C1.2.1

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

## A PROJECT INFORMATION

### A 1.0 Works [1.1]

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project name             | THE APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reference number         | SSC WC 1 (2024/2025) DALRRD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Works</b> description | The works in this contract include excavation for the re-laying of existing- and the installation of new stormwater and sewage infrastructure. The building works will entail new reinforced concrete foundations and brickwork superstructures with associated cladded timber roof structures. Construction will further entail plumbing and sanitary allowances in all the buildings, including water connections and waste disposal. Allowance is also made for earthworks and installation paving on designed platform levels with perimeter fencing on all sites. |

### A 2.0 Site [1.1]

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Erf / stand number  | 1. Erf 7349<br>2. Erf 2044<br>3. Erf 1969                                                                                                                                                          |
| Township / Suburb   | 1. Bambanani - Kleinmond, Western Cape<br>2. Masakhane – Gansbaai, Western Cape<br>3. Eluxolweni – Pearly Beach, Western Cape                                                                      |
| <b>Site</b> address | 1. Bambanani; 34°20'17.03" S, 19°00'31.02" E; G. M. Siyoni Street<br>2. Masakhane; 34°35'27.95" S, 19°21'37.06" E; Thandbuntu Street<br>3. Eluxolweni; 34°39'12.57" S, 19°29'16.81" E; Oasi Street |
| Local authority     | Overstrand Local Municipality                                                                                                                                                                      |

### A 3.0 Employer [1.1]

|                                                      |                                                              |                  |              |
|------------------------------------------------------|--------------------------------------------------------------|------------------|--------------|
| Official Name of Organ of State / Public Sector Body | Department of Agriculture, Land Reform and Rural Development |                  |              |
| Business registration number                         |                                                              |                  |              |
| VAT/GST number                                       |                                                              |                  |              |
| Country                                              | South Africa                                                 |                  |              |
| Employer's representative: Name                      | Mac Ntsikelelo Nodliwa                                       |                  |              |
| E-mail                                               | MNodliwa@dalrrd.gov.za                                       | Telephone number | 021 409 0300 |
| Mobile number                                        | 071 856 0592                                                 |                  |              |
| Postal address                                       | Private Bag X9133                                            |                  |              |
|                                                      | Cape Town                                                    | Postal code      | 8000         |
| Physical address                                     | 14 Long Street                                               |                  |              |
|                                                      | Cape Town                                                    | Postal code      | 8000         |

C1.2.2

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |



#### A 4.0 Principal agent [1.1]

|                       |                                              |                  |                          |
|-----------------------|----------------------------------------------|------------------|--------------------------|
| Name                  | WEC-Consult (Pty) Ltd                        |                  |                          |
| Legal entity of above |                                              | Contact person   | Norman van der Merwe     |
| Practice number       |                                              | Telephone number | 021 886 6895/6           |
|                       |                                              | Mobile number    | 076 484 4495             |
| Country               | South Africa                                 | E-mail           | norman@wec-consult.co.za |
| Postal address        | PO Box 12861                                 |                  |                          |
|                       | Die Boord                                    | Postal code      | 7613                     |
| Physical address      | Unit 24, Oewerpark, Rokewood Road, Die Boord |                  |                          |
|                       | Stellenbosch                                 | Postal code      | 7600                     |

#### A 5.0 Agent [1.1; 6.2]

|            |                              |
|------------|------------------------------|
| Discipline | Health and Safety Specialist |
|------------|------------------------------|

|                       |                                                          |                  |                         |
|-----------------------|----------------------------------------------------------|------------------|-------------------------|
| Name                  | Safe Working Practice Cape Town (Pty) Ltd                |                  |                         |
| Legal entity of above |                                                          | Contact person   | Mark Winter             |
| Practice number       |                                                          | Telephone number | 021 701 0470            |
|                       |                                                          | Mobile number    | 071 603 2213            |
| Country               |                                                          | E-mail           | mark@safepractice.co.za |
| Postal address        | Tazra Park, 11 Stuart Close, Somerset West Business Park |                  |                         |
|                       | Cape Town                                                | Postal code      | 7130                    |
| Physical address      | Tazra Park, 11 Stuart Close, Somerset West Business Park |                  |                         |
|                       | Cape Town                                                | Postal code      | 7130                    |

#### A 6.0 Agent [1.1; 6.2]

|            |           |
|------------|-----------|
| Discipline | Architect |
|------------|-----------|

|                       |                                |                  |                              |
|-----------------------|--------------------------------|------------------|------------------------------|
| Name                  | Gericke Architectural Services |                  |                              |
| Legal entity of above |                                | Contact person   | Johan Gericke                |
| Practice number       |                                | Telephone number | 028 384 1659                 |
|                       |                                | Mobile number    | 082 453 8554                 |
| Country               | South Africa                   | E-mail           | gerickeargitektuur@gmail.com |
| Postal address        | 4 Bietou Road                  |                  |                              |
|                       | Gansbaai                       | Postal code      | 7220                         |
| Physical address      | 4 Bietou Road                  |                  |                              |
|                       | Gansbaai                       | Postal code      | 7220                         |

#### A 7.0 Agent [1.1; 6.2]

|            |  |
|------------|--|
| Discipline |  |
|------------|--|

|                       |  |                  |  |
|-----------------------|--|------------------|--|
| Name                  |  |                  |  |
| Legal entity of above |  | Contact person   |  |
| Practice number       |  | Telephone number |  |
|                       |  | Mobile number    |  |
| Country               |  | E-mail           |  |
| Postal address        |  |                  |  |
|                       |  | Postal code      |  |
| Physical address      |  |                  |  |
|                       |  | Postal code      |  |

C1.2.3

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## B CONTRACT INFORMATION

### B 1.0 Definitions [1.1]

|                                                          |                                    |
|----------------------------------------------------------|------------------------------------|
| <b>Bills of quantities:</b> System/Method of measurement | International System of Units (SI) |
|----------------------------------------------------------|------------------------------------|

### B 2.0 Law, regulations and notices [2.0]

|                                                                 |                          |
|-----------------------------------------------------------------|--------------------------|
| <b>Law</b> applicable to the <b>works</b> , state country [2.1] | Republic of South Africa |
|-----------------------------------------------------------------|--------------------------|

### B 3.0 Offer and Acceptance [3.0]

|                                                    |          |
|----------------------------------------------------|----------|
| Currency applicable to this <b>agreement</b> [3.2] | Rand (R) |
|----------------------------------------------------|----------|

### B 4.0 Documents [5.0]

|                                                                                                                                                    |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| The original signed <b>agreement</b> is to be held by the <b>principal agent</b> [5.2], if not, indicate by whom                                   | <b>Employer</b> |
| Number of copies of <b>construction information</b> issued to the <b>contractor</b> at no cost [5.6]                                               | <b>3</b>        |
| Documents comprising the <b>agreement</b>                                                                                                          | Page numbers    |
| The <b>JBCC</b> <sup>®</sup> Principal Building Agreement, Edition 6.2 May 2018                                                                    | 1 to 30         |
| The <b>JBCC</b> <sup>®</sup> Principal Building Agreement - Contract Data for Organs of State and other Public Sector Bodies, Edition 6.2 May 2018 | 1 to 14         |
| The <b>JBCC</b> <sup>®</sup> General Preliminaries for use with the <b>JBCC</b> <sup>®</sup> Principal Building Agreement, Edition 6.2 May 2018    | 1 to 7          |
| The Contract (Tender) Document including Bill of Quantities                                                                                        |                 |
| Drawings attached hereto                                                                                                                           |                 |

| <b>Contract drawings</b> - description                                 | Number | Revision | Date |
|------------------------------------------------------------------------|--------|----------|------|
| Bambanani (Kleinmond) Existing Layout                                  | SUR101 | 00       |      |
| Bambanani (Kleinmond) Proposed Layout                                  | SUR102 | 00       |      |
| Maskhane (Gansbaai) Existing Layout                                    | SUR103 | 00       |      |
| Maskhane (Gansbaai) Proposed Layout                                    | SUR104 | 00       |      |
| Eluxolweni (Pearly Beach) Existing Layout                              | SUR105 | 00       |      |
| Eluxolweni (Pearly Beach) Proposed Layout                              | SUR106 | 00       |      |
| Bambanani (Kleinmond) Proposed Building Floor Plan & Electrical Layout | ST601  | 00       |      |
| Bambanani (Kleinmond) Proposed Building Window Schedule                | ST602  | 00       |      |
| Bambanani (Kleinmond) Proposed Building Elevations & Details           | ST603  | 00       |      |
| Maskhane (Gansbaai) Proposed Building Floor Plan & Electrical Layout   | ST604  | 00       |      |
| Maskhane (Gansbaai) Proposed Building Section & Fence Details          | ST605  | 00       |      |
| Maskhane (Gansbaai) Proposed Building Elevations                       | ST606  | 00       |      |

C1.2.4

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**Contract: SSC WC 1 (2024/2025) DALRRD**  
**Part C1 : Contract Data**  
**Section C1.2: Contract Data**

|                                                                                     |       |    |  |
|-------------------------------------------------------------------------------------|-------|----|--|
| Maskhane (Gansbaai) Proposed Roof Layout                                            | ST607 | 00 |  |
| Maskhane (Gansbaai) Proposed Fire Escape Plan                                       | ST608 | 00 |  |
| Eluxolweni (Pearly Beach) Proposed Building Floor Plan, Electrical Layout & Details | ST609 | 00 |  |
| Eluxolweni (Pearly Beach) Proposed Building Elevations (Sheet 1 of 2)               | ST610 | 00 |  |
| Eluxolweni (Pearly Beach) Proposed Building Elevations (Sheet 2 of 2)               | ST611 | 00 |  |
| Eluxolweni (Pearly Beach) Proposed Building Sections (Sheet 1 of 2)                 | ST612 | 00 |  |
| Eluxolweni (Pearly Beach) Proposed Building Sections (Sheet 2 of 2)                 | ST613 | 00 |  |
| Eluxolweni (Pearly Beach) Proposed Door Details                                     | ST614 | 00 |  |
| Eluxolweni (Pearly Beach) Proposed Roof Layout                                      | ST615 | 00 |  |
| Eluxolweni (Pearly Beach) Proposed Fire Plan Layout                                 | ST616 | 00 |  |
| Contract Nameboard                                                                  | G701  | 00 |  |
| Typical Road Details                                                                | G702  | 00 |  |
| Typical Stormwater Details                                                          | G703  | 00 |  |
| Typical Fencing Details                                                             | G704  | 00 |  |
| Permanent Contract Nameboard                                                        | G705  | 00 |  |

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

C1.2.5

## B 5.0 Employer's agents [6.0]

|                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Authority is delegated to the following <b>agents</b> to issue <b>contract instructions</b> and perform duties for specific aspects of the <b>works</b> [6.2] |
| <b>A 5.0 Agent</b> , Safe Working Practice Cape Town (Pty) Ltd – Monthly Health and Safety Audits                                                             |

|                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Principal agent's</b> and <b>agents'</b> interest or involvement in the <b>works</b> other than a professional interest [6.3] |
| N/A                                                                                                                              |

## B 6.0 Insurance [10.0]

| Insurances by <b>employer</b>                       |    |                                                                                                                                     | Amount including <b>tax</b> | Deductible amount including <b>tax</b> |
|-----------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------|
| Yes/no?                                             | No |                                                                                                                                     |                             |                                        |
| Contract works insurance:                           |    |                                                                                                                                     |                             |                                        |
|                                                     |    | New <b>works</b> [10.1.1] ( <b>contract sum</b> or amount)                                                                          |                             |                                        |
| or                                                  |    | <b>Works</b> with <b>practical completion</b> in <b>sections</b> [10.2] ( <b>contract sum</b> or amount)                            |                             |                                        |
| or                                                  |    | <b>Works</b> with alterations and additions [10.3] (reinstatement value of existing structures with or including new <b>works</b> ) |                             |                                        |
|                                                     |    | <b>Direct contractors</b> [10.1.1; 10.2] where applicable, to be included in the contract works insurance                           |                             |                                        |
|                                                     |    | <b>Free issue</b> [10.1.1; 10.2] where applicable, to be included in the contract works insurance                                   |                             |                                        |
|                                                     |    | Escalation, professional fees and reinstatement costs if not included above                                                         |                             |                                        |
| Total of the above contract works insurance amount  |    |                                                                                                                                     |                             |                                        |
| Supplementary insurance [10.1.2; 10.2]              |    |                                                                                                                                     |                             |                                        |
| Public liability insurance [10.1.3; 10.2]           |    |                                                                                                                                     |                             |                                        |
| Removal of lateral support insurance [10.1.4; 10.2] |    |                                                                                                                                     |                             |                                        |
| Other insurances [10.1.5]                           |    |                                                                                                                                     |                             |                                        |
| Yes/no?                                             |    | If yes, description 1                                                                                                               |                             |                                        |
|                                                     |    |                                                                                                                                     |                             |                                        |
| Yes/no?                                             |    | If yes, description 2                                                                                                               |                             |                                        |

C1.2.6

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

and/or

| Insurances by <b>contractor</b>                     |                                                                                                                                     |                       | Amount including <b>tax</b> | Deductible amount including <b>tax</b>   |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|------------------------------------------|
| Yes/no?                                             | Yes                                                                                                                                 |                       |                             |                                          |
| Contract works insurance:                           |                                                                                                                                     |                       |                             |                                          |
|                                                     | New <b>works</b> [10.1.1] ( <b>contract sum</b> or amount)                                                                          |                       |                             |                                          |
| or                                                  | <b>Works</b> with <b>practical completion</b> in <b>sections</b> [10.2] ( <b>contract sum</b> or amount)                            |                       |                             |                                          |
| or                                                  | <b>Works</b> with alterations and additions [10.3] (reinstatement value of existing structures with or including new <b>works</b> ) |                       | Contract Sum                | Not exceeding 5% of each and every claim |
|                                                     | <b>Direct contractors</b> [10.1.1; 10.2] where applicable, to be included in the contract works insurance                           |                       |                             |                                          |
|                                                     | <b>Free issue</b> [10.1.1; 10.2] where applicable, to be included in the contract works insurance                                   |                       |                             |                                          |
|                                                     | Escalation, professional fees and reinstatement costs if not included above                                                         |                       |                             |                                          |
| Total of the above contract works insurance amount  |                                                                                                                                     |                       | Contract Sum                |                                          |
| Supplementary insurance [10.1.2; 10.2]              |                                                                                                                                     |                       | Contract Sum                | Not exceeding 5% of each and every claim |
| Public liability insurance [10.1.3; 10.2]           |                                                                                                                                     |                       | R 10 000 000                | Not exceeding 5% of each and every claim |
| Removal of lateral support insurance [10.1.4; 10.2] |                                                                                                                                     |                       |                             |                                          |
| Other insurances [10.1.5]: Refer B17.0              |                                                                                                                                     |                       |                             |                                          |
| Yes/no?                                             | Yes                                                                                                                                 | If yes, description 1 |                             |                                          |
|                                                     |                                                                                                                                     |                       |                             |                                          |
| Yes/no?                                             |                                                                                                                                     | If yes, description 2 |                             |                                          |
|                                                     |                                                                                                                                     |                       |                             |                                          |

#### B 7.0 Obligations of the employer [12.1]

|                                                                                             |                                                                                                     |         |     |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------|-----|
| Existing premises will be in use and occupied [12.1.2]                                      |                                                                                                     | Yes/no? | Yes |
| If yes, description                                                                         | Daily schooling will continue in the existing on-site buildings while construction is taking place. |         |     |
| Restriction of working hours [12.1.2]                                                       |                                                                                                     | Yes/no? | Yes |
| If yes, description                                                                         | 18h00 – 05h00                                                                                       |         |     |
| Natural features and known services to be preserved by the <b>contractor</b> [12.1.3]       |                                                                                                     | Yes/no? | Yes |
| If yes, description                                                                         | Known services are shown drawings SUR101, SUR103, SUR105                                            |         |     |
| Restrictions to the <b>site</b> or areas that the <b>contractor</b> may not occupy [12.1.4] |                                                                                                     | Yes/no? | Yes |
| If yes, description                                                                         | Existing buildings shall not be occupied or used by the contractor.                                 |         |     |
| Supply of <b>free issue</b> [12.1.10]                                                       |                                                                                                     | Yes/no? | No  |
| If yes, description                                                                         |                                                                                                     |         |     |

C1.2.7

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**B 8.0 Nominated subcontractors [14.0]**

| Yes/no?          | No | If yes, description of specialisation |
|------------------|----|---------------------------------------|
| Specialisation 1 |    |                                       |
| Specialisation 2 |    |                                       |
| Specialisation 3 |    |                                       |
| Specialisation 4 |    |                                       |
| Specialisation 5 |    |                                       |

**B 9.0 Direct contractors [16.0]**

| Yes/no?          | No | If yes, description of specialisation |
|------------------|----|---------------------------------------|
| Specialisation 1 |    |                                       |
| Specialisation 2 |    |                                       |
| Specialisation 3 |    |                                       |
| Specialisation 4 |    |                                       |
| Specialisation 5 |    |                                       |

**B 10.0 Description of sections [20.1]**

|                  |                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------|
| <b>Section 1</b> | Erf 7349; G. M. Siyoni Street; Bambanani - Kleinmond, Western Cape; 34°20'17.03" S, 19°00'31.02" E |
| <b>Section 2</b> | Erf 2044; Thandubuntu Street; Masakhane – Gansbaai, Western Cape; 34°35'27.95" S, 19°21'37.06" E   |
| <b>Section 3</b> | Erf 1969; Oasis Street; Eluxolweni – Pearly Beach, Western Cape; 34°39'12.57" S, 19°29'16.81" E    |
| <b>Section 4</b> |                                                                                                    |
| <b>Section 5</b> |                                                                                                    |
| <b>Section 6</b> |                                                                                                    |
| <b>Section</b>   | Remainder of <b>works</b>                                                                          |

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**B 11.0 Possession of site [12.1.5], practical completion [19.0; 20.0] and penalty [24.0]**

|                                                             |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |
|-------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Practical completion</b> for the <b>works</b> as a whole | Intended date of possession of the <b>site</b><br>Refer B17.0<br>[12.1.5; 12.2.22] | Period for inspection by the <b>principal agent</b><br>[19.3] | The date for <b>practical completion</b> shall be the period as indicated below from the date of possession of the <b>site</b> by the <b>contractor</b><br>[12.2.7; 24.1] | <b>Penalty</b> for late completion<br>[24.1]               |
|                                                             |                                                                                    | <b>working days</b>                                           | Period in months                                                                                                                                                          | Penalty amount per <b>calendar day</b> (excl. <b>tax</b> ) |
|                                                             |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |

or where **sections** are applicable

|                                                             |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |
|-------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Practical completion</b> for the <b>works</b> as a whole | Intended date of possession of the <b>site</b><br>Refer B17.0<br>[12.1.5; 12.2.22] | Period for inspection by the <b>principal agent</b><br>[19.3] | The date for <b>practical completion</b> shall be the period as indicated below from the date of possession of the <b>site</b> by the <b>contractor</b><br>[12.2.7; 24.1] | <b>Penalty</b> for late completion<br>[24.1]               |
|                                                             |                                                                                    | <b>working days</b>                                           | Period in weeks                                                                                                                                                           | Penalty amount per <b>calendar day</b> (excl. <b>tax</b> ) |
|                                                             |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |
| <b>Section 1</b>                                            |                                                                                    | 5                                                             | 26                                                                                                                                                                        | R 3 000                                                    |
| <b>Section 2</b>                                            |                                                                                    | 5                                                             | 26                                                                                                                                                                        | R 3 000                                                    |
| <b>Section 3</b>                                            |                                                                                    | 5                                                             | 26                                                                                                                                                                        | R 3 000                                                    |
| <b>Section 4</b>                                            |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |
| <b>Section 5</b>                                            |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |
| <b>Section 6</b>                                            |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |
| <b>Section 7</b>                                            |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |
| <b>Section 8</b>                                            |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |
| Remainder of the <b>works</b>                               |                                                                                    |                                                               |                                                                                                                                                                           |                                                            |

Criteria to achieve **practical completion** not covered in the definition of **practical completion**

The following work should be complete at practical completion:

- All stormwater, water and sewage infrastructure
- All plumbing and drainage
- All earthworks
- Entire sub-structures and superstructures
- Waterproofing to new walls and roof structures
- Installed sealable and lockable windows and doors
- All internal and external wall and floor finishes, including ceilings
- External paving and kerbing

C1.2.9

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

## B 12.0 Payment [25.0]

|                                                                       |         |    |  |
|-----------------------------------------------------------------------|---------|----|--|
| Date of month for issue of regular <b>payment certificates</b> [25.2] | 22      |    |  |
| Contract price adjustment / Cost fluctuations [25.3.4; 26.9.5]        | Yes/no? | No |  |
| If yes, method to calculate                                           |         |    |  |

## B 15.0 Dispute resolution [30.0]

|                                                                                                                        |                                            |    |  |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----|--|
| Adjudication [30.6.1; 30.10]<br>Name of nominating body                                                                | Association of Arbitrators Southern Africa |    |  |
| Applicable rules for adjudication [30.6.2]                                                                             |                                            |    |  |
| Arbitration [30.7.4; 30.10]<br>If Yes, name of nominating body<br>* If No, then dispute will be referred to litigation | Yes/no? *                                  | No |  |
| Applicable rules for arbitration [30.7.5]                                                                              |                                            |    |  |

## B 16.0 JBCC® General Preliminaries - sections

|                                                                                             |                      |                                                                                                      |     |                                         |
|---------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------|-----|-----------------------------------------|
| Provisional bills of quantities [P2.2]                                                      |                      | Yes/no?                                                                                              | Yes |                                         |
| Availability of construction information - is the construction information complete? [P2.3] |                      | Yes/no?                                                                                              | Yes |                                         |
| Previous work - dimensional accuracy - details of previous contract(s) [P3.1]               |                      |                                                                                                      |     |                                         |
| Previous work - <b>defects</b> - details of previous contract(s) [P3.2]                     |                      |                                                                                                      |     |                                         |
| Inspection of adjoining properties - details [P3.3]                                         |                      | Contractor to inspect and keep accurate records of the adjoining properties                          |     |                                         |
| Handover of <b>site</b> in stages - specific requirements [P4.1]                            |                      |                                                                                                      |     |                                         |
| Enclosure of the <b>works</b> - specific requirements [P4.2]                                |                      | Construction works shall be enclosed to protect all on-site occupants for the duration of the works. |     |                                         |
| Geotechnical and other investigations - specific requirements [P4.3]                        |                      |                                                                                                      |     |                                         |
| Existing premises occupied - details [P4.5]                                                 |                      | Schooling will proceed in existing buildings while construction works are taking place.              |     |                                         |
| Services - known - specific requirements [P4.6]                                             |                      | Known services are shown drawings SUR101, SUR103, SUR105                                             |     |                                         |
| Water [P8.1]                                                                                | By <b>contractor</b> | Yes/no?                                                                                              | Yes | Metered connection from local authority |
|                                                                                             | By <b>employer</b>   | Yes/no?                                                                                              |     |                                         |
|                                                                                             | By <b>employer</b>   | Yes/no?                                                                                              |     |                                         |
| Electricity [P8.2]                                                                          | By <b>contractor</b> | Yes/no?                                                                                              | Yes | Metered connection from local authority |
|                                                                                             | By <b>employer</b>   | Yes/no?                                                                                              |     |                                         |
|                                                                                             | By <b>employer</b>   | Yes/no?                                                                                              |     |                                         |
| Ablution and welfare facilities [P8.3]                                                      | By <b>contractor</b> | Yes/no?                                                                                              | Yes |                                         |
|                                                                                             | By <b>employer</b>   | Yes/no?                                                                                              |     |                                         |

C1.2.10

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |



|                                                                                                                              |                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Communication facilities - specific requirements [P8.4]                                                                      |                                                                                                      |
| Protection of the <b>works</b> - specific requirements [P11.1]                                                               | Refer to Part C3: Scope of Works of the contract document                                            |
| Protection / isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b> - specific requirements [P11.2] | Construction works shall be enclosed to protect all on-site occupants for the duration of the works. |
| Disturbance - specific requirements [P11.5]                                                                                  | Refer to Part C3: Scope of Works of the contract document                                            |
| Environmental disturbance - specific requirements [P11.6]                                                                    | Refer to Part C3: Scope of Works of the contract document                                            |

## B 17.0 Changes made to JBCC® documentation

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference may be made to other documents forming part of this <b>agreement</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>1.1 Definitions</b></p> <p><b>AGREEMENT:</b> The completed Form of Offer and Acceptance, the completed <b>JBCC®</b> Principal Building Agreement and <b>JBCC® contract data for organs of state and other public sector bodies</b>, the <b>contract drawings</b>, the <b>priced document</b> and any other documents reduced to writing and signed by the authorised representatives of the <b>parties</b></p> <p><b>CONSTRUCTION PERIOD:</b> The period commencing on the date of possession of the <b>site</b> by the <b>contractor</b> and ending on the date of <b>practical completion</b></p> <p><b>CONTRACT DATA FOR ORGANS OF STATE AND OTHER PUBLIC SECTOR BODIES:</b> The document listing the Organs of State and other Public Sector Bodies' requirements and the project specific information</p> <p><b>3.0 Offer and Acceptance</b></p> <p>Amend 3.3 to read as follows:</p> <p>This <b>agreement</b> shall come into force on the date as stated on the Form of Offer and Acceptance and continue to be of force and effect until the end of the <b>latent defects</b> liability period [22.0] notwithstanding termination [29.0] or the certification of <b>final completion</b> [21.0] and final payment [25.0]</p> <p><b>6.0 Employer's Agents</b></p> <p>Add the following as 6.7:</p> <p>In terms of the clauses listed hereunder, the <b>employer</b> has retained its authority and has not given a mandate to the <b>principal agent</b>. The <b>employer</b> shall sign all documents in relation to clauses 4.2, 14.1.2, 14.1.4, 14.4.1, 14.6, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 and 28.4</p> |

|                                                                                                                                       |                                                                                                                                       |                                                                                                                                       |                                                                                                                                       |                                                                                                                                       |                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <div style="border: 1px solid black; width: 80px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> | <div style="border: 1px solid black; width: 80px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> | <div style="border: 1px solid black; width: 80px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> | <div style="border: 1px solid black; width: 80px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> | <div style="border: 1px solid black; width: 80px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> | <div style="border: 1px solid black; width: 80px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> |
| Contractor                                                                                                                            | Witness 1                                                                                                                             | Witness 2                                                                                                                             | Employer                                                                                                                              | Witness 1                                                                                                                             | Witness 2                                                                                                                             |

C1.2.11

## 9.0 Indemnities

9.2.7: Add the following to the end of the first sentence: “.... due to no fault of the **contractor**”

## 11.0 Securities

Amend 11.10 to read as follows:

There shall be no lien or right of retention held by any **contractor** in respect of the **works** executed on **Site**

## 12.0 Obligations of the Parties

Amend 12.1.5 to read as follows:

Give possession of the **site** to the **contractor** within ten (10) **working days** of the **contractor** complying with the terms of 12.2.22

12.2.2: Not applicable

Add the following as 12.2.22:

Within fifteen (15) **working days** of the date of the **agreement** submit to the **principal agent** an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

## 19.0 Practical Completion

19.5: Delete the words “subject to the **contractor**’s lien or right of continuing possession of the **works** where this has not been waived”

## 25.0 Payment

25.7.5: Not applicable

Amend 25.10 to read as follows:

The employer shall pay the contractor the amount certified in an issued payment certificate within thirty (30) calendar days of the date for issue of the payment certificate [CD].

25.14.2: Not applicable

## 27.0 Recovery of Expense and/or Loss

27.1.5: Not applicable

## 29.0 Termination

Add the following after 29.1.3:

or where ...

29.1.4: The **contractor**’s estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

---

C1.2.12

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## C TENDERER'S SELECTION

### C 1.0 Securities [11.0]

Guarantee for construction: Select Option A or B ☐ B

|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Option A                                                                          | <del>Guarantee for construction</del> (variable) by <del>contractor</del> [11.1.1] |
| Option B                                                                          | Guarantee for construction (fixed) by <b>contractor</b> [11.1.2]                   |
| Guarantee for payment by employer [11.5.1; 11.10]                                 | Not applicable                                                                     |
| Advance payment, subject to a <b>guarantee for advance payment</b> [11.2.2; 11.3] | Not applicable                                                                     |

### C 2.0 Contractor's annual holiday periods during the construction period

|                                                  |            |  |          |  |
|--------------------------------------------------|------------|--|----------|--|
| Year 1 <b>contractor's</b> annual holiday period | start date |  | end date |  |
| Year 2 <b>contractor's</b> annual holiday period | start date |  | end date |  |
| Year 3 <b>contractor's</b> annual holiday period | start date |  | end date |  |

### C 3.0 Payment of preliminaries [25.0]

Contractor's selection

Select Option A or B ☐ A

Where the **contractor** does not select an option, Option A shall apply

Payment methods

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option A | The <b>preliminaries</b> shall be paid in accordance with an amount prorated to the value of the <b>works</b> executed in the same ratio as the amount of the <b>preliminaries</b> to the <b>contract sum</b> , which <b>contract sum</b> shall exclude the amount of <b>preliminaries</b> . Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio                                                                              |
| Option B | <del>The <b>preliminaries</b> shall be paid in accordance with an amount agreed by the <b>principal agent</b> and the <b>contractor</b> in terms of the <b>priced document</b> to identify an initial establishment charge, a time-related charge and a final dis-establishment charge. Payment of the time related charge shall be assessed by the <b>principal agent</b> and adjusted from time to time as may be necessary to take into account the rate of progress of the <b>works</b></del> |

Lump sum contract

Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half per cent) of the **contract sum**, excluding contingency sum(s) and any provision for cost fluctuations.

### C 4.0 Adjustment of preliminaries [26.9.4]

Contractor's selection

Select Option A or B ☐ A

Where the **contractor** does not select an option, Option A shall apply

Provision of particulars

The **contractor** shall provide the particulars for the purpose of the adjustment of **preliminaries** in terms of his selection. Where completion in **sections** is required, the **contractor** shall provide an apportionment of **preliminaries** per **section**

C1.2.13

|                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Contractor           | Witness 1            | Witness 2            | Employer             | Witness 1            | Witness 2            |

|          |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option A | An allocation of the <b>preliminaries</b> amounts into Fixed, Value-related and Time-related amounts as defined for adjustment method Option A below, within fifteen (15) <b>working days</b> of the date of acceptance of the tender                                                                                                                                                    |
| Option B | <del>A detailed breakdown of the <b>preliminaries</b> amounts within fifteen (15) <b>working days</b> of possession of the <b>site</b>. Such breakdown shall include, inter alia, the administrative and supervisory staff, the use of <b>construction equipment</b>, establishment and dis-establishment charges, insurances and guarantees, all in terms of the <b>programme</b></del> |

#### Adjustment methods

The amount of **preliminaries** shall be adjusted to take account of the effect which changes in time and/or value have on **preliminaries**. Such adjustment shall be based on the particulars provided by the **contractor** for this purpose in terms of Options A or B, shall preclude any further adjustment of the amount of **preliminaries** and shall apply notwithstanding the actual employment of resources by the **contractor** in the execution of the **works**

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option A | <p>The <b>preliminaries</b> shall be adjusted in accordance with the allocation of <b>preliminaries</b> amounts provided by the <b>contractor</b>, apportioned to <b>sections</b> where completion in <b>sections</b> is required</p> <p>Fixed - An amount which shall not be varied</p> <p>Value-related - An amount varied in proportion to the <b>contract value</b> as compared to the <b>contract sum</b>. Both the <b>contract sum</b> and the <b>contract value</b> shall exclude the amount of <b>preliminaries</b>, contingency sum(s) and any provision for cost fluctuations</p> <p>Time-related - An amount varied in proportion to the number of <b>calendar days</b> extension to the date of <b>practical completion</b> to which the <b>contractor</b> is entitled with an adjustment of the <b>contract value</b> [23.2; 23.3] as compared to the number of <b>calendar days</b> in the initial <b>construction period</b> [26.9.4]</p> |
| Option B | <p>The adjustment of <b>preliminaries</b> shall be based on the number of <b>calendar days</b> extension to the date of <b>practical completion</b> to which the <b>contractor</b> is entitled with an adjustment of the <b>contract value</b> [23.2; 23.3] as compared to the number of <b>calendar days</b> in the initial <b>construction period</b> [26.9.4]</p> <p>The adjustment shall take into account the resources as set out in the detailed breakdown of the <b>preliminaries</b> for the period of construction during which the delay occurred</p>                                                                                                                                                                                                                                                                                                                                                                                         |

#### Failure to provide particulars within the period stated

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option A | <p>Where the allocation of <b>preliminaries</b> amounts for Option A is not provided, the following allocation of <b>preliminaries</b> amounts shall apply:</p> <p>Fixed - Ten per cent (10%)<br/>Value-related - Fifteen per cent (15%)<br/>Time-related - Seventy-five per cent (75%)</p> <p>Where the apportionment of the <b>preliminaries</b> per <b>section</b> is not provided, the categorised amounts shall be prorated to the cost of each <b>section</b> within the <b>contract sum</b> as determined by the <b>principal agent</b></p> |
| Option A | Where the detailed breakdown of <b>preliminaries</b> amounts for Option B is not provided, Option A shall apply                                                                                                                                                                                                                                                                                                                                                                                                                                    |

#### Lump sum contract

Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half per cent) of the **contract sum**, excluding contingency sum(s) and any provision for cost fluctuations

C1.2.14

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

## Guarantee for Construction

For use with the JBCC® Principal Building Agreement

edition/date

### GUARANTOR DETAILS AND DEFINITIONS

|                             |                                  |          |                  |
|-----------------------------|----------------------------------|----------|------------------|
| Guarantor:                  |                                  |          |                  |
| Physical Address:           |                                  |          |                  |
| Guarantor's signatory 1:    |                                  |          |                  |
| Guarantor's signatory 2:    |                                  |          |                  |
| Employer:                   |                                  |          |                  |
| Contractor:                 |                                  |          |                  |
| Principal Agent:            |                                  |          |                  |
| Works:                      |                                  |          |                  |
| Site:                       |                                  |          |                  |
| Contract Sum:               | Accepted amount inclusive of tax | Currency |                  |
| ... amounts in words:       |                                  |          |                  |
| Guaranteed Sum:             | The maximum aggregate amount     | Currency |                  |
| ... amounts in words:       |                                  |          |                  |
| Guarantee for Construction: | (Insert Variable or Fixed)       | Fixed    | 10% contract sum |
| Expire Date:                |                                  |          |                  |

### AGREEMENT DETAILS

|                        |                                                                                                                                                           |  |              |  |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|
| Sections:              | Total number / not applicable                                                                                                                             |  | Last Section |  |
| Principal Agent issues | JBCC® format Interim Payment Certificates, the Final Payment Certificate, the Certificate of Practical Completion and the Certificate of Final Completion |  |              |  |

#### 1.0 GUARANTEE FOR CONSTRUCTION (Variable)

1.1 Where a Guarantee for Construction (Variable) in terms of the Agreement has been selected this clause 1.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the diminishing amounts of the Guaranteed Sum as follows:-

##### GUARANTOR'S LIABILITY

1.1.1. Maximum Guaranteed Sum (not exceeding 10% of the contract sum) in the amount of:

Amounts in words:

##### PERIOD OF LIABILITY

From and including the date of issue of this Guarantee for Construction and up to and including the date of issue of the interim Payment Certificate certifying in excess of 50% of the contract sum

|                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Contractor           | Witness 1            | Witness 2            | Employer             | Witness 1            | Witness 2            |

C1.3.1

- 1.1.2. Reducing to the Guaranteed Sum (not exceeding 6.0% of the contract sum) in the amount of:

From and including the day after the date of the aforesaid Interim Payment Certificate and up to and including the date of issue of the only Certificate of Practical Completion or last Certificate of Practical Completion where there are sections

Amount in words:

- 1.1.3. Reducing to the Guaranteed Sum (not exceeding 4.0% of the contract sum) in the amount of:

From and including the day after the date of the applicable Certificate of Practical Completion and up to and including the date of issue of the only Certificate of Final Completion or the last Certificate of Final Completion where there are sections

Amount in words:

- 1.1.4. Reducing to the Guaranteed Sum (not exceeding 2.0% of the contract) in the amount of:

From and including the day after the date of the applicable Certificate of Final Completion and up to and including the date of issue of the Final Payment Certificate where payment is due to the Contractor, whereafter this Guarantee for Construction shall expire. Where the Final Payment Certificate reflects payment due to the Employer, this Guarantee for Construction shall expire upon payment of the full amount certified

Amount in words:

- 1.2. The Guarantor's liability limits set out in 1.1.1 to 1.1.4 shall apply in respect of any claim received by the Guarantor during the guarantee validity period

## 2.0. FIXED N/S CONSTRUCTION GUARANTEE

- 2.1. Where a Guarantee for Construction (fixed) in terms of the Agreement has been selected this clause 2.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum as follows:

### GUARANTOR'S LIABILITY

Maximum Guaranteed Sum (not exceeding 7.5 % of the contract sum) in the amount of:

### PERIOD OF LIABILITY

From and including the date of issue of this Guarantee for Construction and up to and including the date of the only Certificate of Practical Completion or the last Certificate of Practical Completion where there are sections, whereafter this Guarantee for Construction shall expire

Amount in words:

- 3.0. The Guarantor acknowledges that:

- 3.1. Any reference in this Guarantee for Construction to the Agreement is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention to create a suretyship;
- 3.2. Its obligation under this Guarantee for Construction is restricted to the payment of money; and
- 3.3 Reference to a Recovery Statement or an Interim or Final Payment Certificate, or a Certificate(s) of Practical or Final Completion shall mean such certificate issued by the Principal Agent

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.3.2

- 4.0. Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
- 4.1. A copy of a first written demand notice issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an Interim or Final Payment Certificate has not been made in terms of the Agreement and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
  - 4.2. A first written demand notice issued by the Employer to the Guarantor at the Guarantor's Physical Address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the issue of the first written demand notice in terms of 4.1 and that the sum certified has not been paid to date. The Employer herewith calls up this Guarantee for Construction and demands payment of the sum certified from the Guarantor; and
  - 4.3. A copy of the applicable payment certificate which entitles the Employer to receive payment in terms of the Agreement of the sum certified in 4.0
- 5.0. Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor undertakes to pay the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand notice from the Employer to the Guarantor at the Guarantor's Physical Address calling up this Guarantee for Construction stating that:
- 5.1. The Agreement has been terminated due to the Contractor's default and that the Guarantee for Construction is called up in terms of 5.0. The demand shall enclose a copy of the notice of termination; or
  - 5.2. A provisional sequestration or liquidation court order has been granted against the Contractor and that the Guarantee for Construction is called up in terms of 5.0. The demand notice shall enclose a copy of the court order.
- 6.0. The aggregate amount of payments to be made by the Guarantor in terms of 4.0 and 5.0 shall not exceed the Guarantor's maximum liability in terms of 1.0 or 2.0.
- 7.0. Where the Guarantor is a registered insurer and has made payment in terms of 5.0, the Employer shall within one hundred and eighty (180) calendar days of receipt of payment submit an expense account to the Guarantor showing how all monies received in terms of the Guarantee for Construction have been expended, or will be expended, and shall refund to the Guarantor any surplus amount. All monies refunded to the Guarantor in terms of this Guarantee for Construction shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date of payment by the Guarantor to the Employer until the date of refund.
- 8.0. Payment by the Guarantor in terms of 4.0 or 5.0 shall be made within seven (7) calendar days upon receipt of the first written demand notice to the Guarantor.
- 9.0. The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer deems fit and the Guarantor shall not have the right to claim its release from this Guarantee for Construction on account of any conduct alleged to be prejudicial to the Guarantor.
- 10.0. The Guarantor chooses the Physical Address stated above for all notices and correspondences in relation to this Guarantee.
- 11.0. This Guarantee for Construction is neither negotiable nor transferable and shall expire in terms of either 1.1.4 or 2.1, or payment in full of the Guaranteed Sum or on the Expiry Date, whichever is the earlier, whereafter no claims will be considered by the Guarantor. The original Guarantee for Construction form shall be returned to the Guarantor after it has expired.
- 12.0. This Guarantee for Construction, with the required demand notices in terms of 4.0 or 5.0, shall be regarded as a liquid document for the purpose of obtaining a court order.
- 13.0. Where this Guarantee for Construction is issued in the Republic of South Africa this Guarantee for Construction shall be governed by the laws of the Republic of South Africa. A competent court in the Republic of South Africa shall have sole jurisdiction in terms of this Guarantee for Construction. Where this Guarantee for Construction is issued outside the Republic of South Africa, the laws of the guarantor who issued this Guarantee for Construction shall prevail. A competent court, in the jurisdiction in which the guarantor is domicile shall prevail.

Signed at:

Date:

Guarantor's Signatory 1: \_\_\_\_\_

Guarantor's Signatory 2: \_\_\_\_\_

Witness: \_\_\_\_\_

Witness: \_\_\_\_\_

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C1.3.3

**LIST OF INSTITUTIONS FROM WHICH CONTRACT SURETIES CAN BE ACCEPTED:**

1. ABSA Bank
2. Credit Agricole Indosuez (South Africa Branch)
3. Development Bank of South Africa
4. FirstRand Bank
5. ING Bank N.V. (South Africa Branch)
6. Investec Bank
7. Landbank
8. National Housing Finance Co.
9. Nedcor Bank
10. South African Reserve Bank
11. Standard Bank
12. AIG South Africa
13. Credit Guarantee Insurance Co
14. Emerald Insurance Company
15. Federated Employers Mutual Assurance Co
16. Global Insurance Company
17. Guardrisk Insurance Company
18. Hannover Re:
19. Home Loan Guarantee Company
20. Lion of Africa Insurance Company
21. Metropolitan Life
22. Metropolitan Odyssey Ltd
23. MUA Insurance
24. Mutual & Federal Insurance Company
25. Rand Mutual Assurance Company
26. Regent Insurance Company
27. SA Eagle Insurance Company
28. Lombard Insurance

**NB: List of institutions is not limited to the above mentioned; the tenderer may use any other accredited institution to offer contract sureties.**

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|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

C1.3.4



## **C1.4 OCCUPATIONAL HEALTH AND SAFETY AGREEMENT**

This agreement is mandatory for all contractors appointed by the Department Agriculture Land Reform and Rural Development.

**This agreement is between:**

### **THE CONTRACTOR:**

Herein represented by .....

In his capacity as .....Being duly authorized hereto hereinafter referred to as "contractor".

Compensation Commissioner Number:

(Attach a copy of the Registration  
Certificate to this agreement)

Company : Name:

Registration Number:

CEO : Name:

ID Number:

Physical Address:

.....

**And the**

### **DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT (Hereinafter referred to as "the Department")**

#### **1. DEFINITIONS**

- |     |                               |                                                                                                                                                                                                                               |
|-----|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.1 | <b>CONTRACTOR</b>             | Means the "Contractor" as defined in the "Principal Contract" Annexed hereto in his capacity as mandatory.                                                                                                                    |
| 1.2 | <b>MANDATORY</b>              | Includes an agent, contractor or subcontractor for work to be done or service rendered, but without derogating from his status in his own right as an employer of people or user of equipment, machinery, tools or materials. |
| 1.3 | <b>THE PRINCIPAL CONTRACT</b> | Means the contract annexed hereto as annexure "A".                                                                                                                                                                            |
| 1.4 | <b>DEPARTMENT</b>             | Means the Department Agriculture Land Reform and Rural Development.                                                                                                                                                           |
| 1.5 | <b>RISK CONTROL OFFICER</b>   | A person appointed in writing by Department.                                                                                                                                                                                  |

|                                                                                                        |                                                                                                       |                                                                                                       |                                                                                                      |                                                                                                       |                                                                                                       |
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C1.4.1

- 1.6 Any definitions contained in any Statute hereinafter mentioned shall have the meaning allocated to it by the specific statute.

## 2. OBJECTIVE

- 2.1 Whereas Department and the Contractor have entered into a contract for service (work) as fully indicated in the "Principle Contract" and whereas the "Contractor" agreed to indemnify Department against the risks stated hereunder whether foreseeable or not, and, whereas it is agreed between the parties that it is of cardinal importance to safeguard both Department and the Contractor's obligation in terms of relevant legislation as well as to extend the obligation as a company and/or legal person and/or person as an entity concerned with health, safety and the environment.
- 2.2 These rules are applicable to all contractors performing work for Department within the jurisdictional area of the Department and on any premises which are owned, rented or developed by the Department.
- 2.3 The Department acts through those officials or persons who are generally or specifically charged with the responsibility, in terms of legislation, as well as any other official or person who is generally or specifically charged with the control and supervision of the project.

## IT IS HEREBY AGREED AS FOLLOWS:

## 3. INDEMNITIES

- 3.1 The "Contractor" hereby indemnifies the "Department" against any loss in respect of all claims, proceeding, damages, costs and expenses arising out of any claim or proceeding pertaining to the non-compliance by the "Contractor" of any statutory requirements and/or requirements regarding the following Acts in particular pertaining to the provisions of:
- 3.1.1 The Occupational Health and Safety Act 85 of 1993 (as amended), including the Construction Regulations, 2003 as promulgated on 18 July 2003, in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), in Government Gazette No. 25207 and Regulation Gazette No. 7721. See Annexure B.
  - 3.1.2 The Health Act 63 of 1977.
  - 3.1.3 Road Traffic Act 29 of 1989 (as amended).
  - 3.1.4 Environment Conservation Act 73 of 1989.
  - 3.1.5 The National Water Act 36 of 1998.
  - 3.1.6 The Criminal Procedure Act 51 of 1977.
  - 3.1.7 The Explosives Act 26 of 1956.
  - 3.1.8 The Arms and Ammunition Act 75 of 1969.
  - 3.1.9 Compensation for Occupational Injuries and Diseases Act 130 of 1993.
  - 3.1.10 The Labor Relations Act 66 of 1995.
  - 3.1.11 The Unemployment Insurance Act 30 of 1966 (as amended).
  - 3.1.12 The Basic Conditions of Employment Act 75 of 1997 (as amended).
  - 3.1.13 Standards Act 29 of 1993.
  - 3.1.14 any statutory provisions in any act and/or any law or bylaw of any local government and/or any published official standard incorporated into any statute or bylaw relating to the completion of the work set out in the "Principal Contract".
  - 3.1.15 Any other health and safety standard prescribed by the "Department".
- 3.2 The "Contractor" shall ensure that he familiarizes himself with the requirements of the above legislation and that he, his employees and any subcontractor will comply with all the statutory provisions contained in them.

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C1.4.2

- 3.3 The "Contractor" shall indemnify the "Department" in respect of any physical loss or damage to any plant, equipment or other property belonging to the "Contractor" or for which he is responsible and he hereby indemnifies the "Department" against any loss in respect of all claims, proceedings, damages, costs and expenses consequent upon the loss of or damage to any plant, equipment or other property belonging to, or which is the responsibility of, any subcontractor, agent or employee of the subcontractor.
- 3.4 The "Contractor" shall and hereby indemnifies the "Department" against any liability, loss, claim or proceedings whatsoever, whether arising in common law or by statute, consequent on personal injuries to or the loss of health or death of any person whatsoever arising out of or in the course of or caused by the execution of the "Principal Contract".
- 3.5 The "Contractor" shall and hereby indemnifies the "Department" against any liability, loss, claim or proceedings consequent on loss of or damage to any movable or immovable property arising out of or in the course of or caused by the execution of the "Principal Contract" and due to any act or omission of the "Contractor", his agents, servants or subcontractors.

#### 4. *PERFORMANCE SAFE WORKING PRACTICE*

- 4.1 The "Department" requires a high standard of safe work performance from all employees and expects that the standard be maintained by the "Contractor" within the "Department's" jurisdictional area or on its premises.
- 4.2 Irrespective of human considerations, the maintaining of these health and safety rules shall be the execution of the prescribed legal requirements. These rules are not to hinder the "Contractor" in rendering services or indemnify the "Contractor" from any legal responsibility to ensure healthy and safe work circumstances.
- 4.3 The "Department" shall assist the "Contractor" in any practical considerations to accommodate the healthy and safe execution of work and therefore require co-operation in the execution of these safety rules.

#### 5. *LOCK OUT PROCEDURE*

- 5.1 When power or air driven machines or equipment, electrical apparatus or pipe lines are examined, repaired, adjusted, cleaned, lubricated or serviced in any other way than normal servicing, then all isolating switches, -levers, valves or appliances must be put in the "off" or "closed" position and locked.
- 5.2 Should more than one team work on a machine, then each person in control of a team, must put a separate lock on the switch, lever, valve or appliance.

#### 6. **CRANES, VEHICLES AND HOISTING**

- 6.1 For each crane or hoisting equipment used, the "Contractor" must submit a valid and recent test certificate or other form of the last examination of the machine or equipment, to the "Department".
- 6.2 Only trained personnel with written permission and where determined by Law, with a valid driver's license, may be allowed to operate any electrical diesel or petrol driver overhead crane, hydraulic or electrical hoisting equipment, self-driven forklift, tractor or any other crane or vehicle. No employee of the "Contractor" may perform any overhead work or work on an overhead crane or hoisting equipment or work near cranes or crane rail, before:

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| Contractor                                                                                  | Witness 1                                                                                   | Witness 2                                                                                   | Employer                                                                                    | Witness 1                                                                                   | Witness 2                                                                                   |

C1.4.3

- i) An agreement was concluded with the “Department”.
- ii) Approval has been obtained from the “Department” to perform the work.
- iii) All applicable danger – and warning symbolic signs are put into position, or exemption, if applied for, is in operation.

6.3 The “Contractor” shall be wholly responsible for any loss or damage to cranes, hoisting equipment, plant, machines or equipment brought onto the work site by the “Contractor”

## 7. MACHINE VALANCES, PROTECTION AND FENCING

7.1 No machine valances, protection or fencing may be removed from machines, manholes, etc without the written permission of “Department” if applicable exemption procedures were not appropriated.

## 8. SCAFFOLD, LADDERS, TOOLS AND EQUIPMENT

8.1 No equipment or appliance belonging to “Department” may be used without written permission from “Department”.

8.2 Unless prior arranged, “Contractors” must bring sufficient tools and equipment to the site to finish the contract, including offices and storerooms. The mentioned equipment remains the responsibility of the “Contractor” with respect to loss, damage and theft.

8.3 In exceptional cases, where tools and equipment belonging to “Department” are used to finish the contract, the said equipment and tools are used on own risk and the “Contractor” indemnifies “Department” from any claims that may arise. The said indemnity must be in writing, as well as information regarding the loan period, identification and condition of tools and equipment. The “Contractor” is responsible for the returning of said tools and equipment in the same condition or better. The “Contractor” is responsible to “Department” for any damage or excessive wear of such tools or equipment and material.

## 9. EXCAVATIONS

9.1 Before any excavations commence, written permission must be obtained from “Department” to confirm the location of existing electrical cables, water pipes, etc.

9.2 All excavations and obstructions in floor, tar and dirt surfaces must be fenced effectively and safeguarded between sundown and sunup with a sufficient amount of red/yellow warning lights and symbolic signs.

9.3 The surrounding area must be kept clean, safe and tidy during excavation. Excess material may not obstruct unnecessarily.

9.4 If any property is in danger during excavation, it must be supported and the proposed support work must be submitted to the Department of Labour (OHS) and “Department” for approval.

9.5 Written permission must be obtained from “Department” to grant admittance to restricted areas as well as areas where dangerous or poisonous gases are present.

## 10. FIRST AID

10.1 The “Contractor” must provide and maintain a first aid box equipped according to legal requirement where more than (5) five persons are employed. The first aid box must be in the care of a person

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C1.4.4

with a competency certificate from one of the following organizations:

- (i) SA Red Cross Association;
- (ii) St Johns Ambulance;
- (iii) SA First Aid League; or
- (iv) A person or organization approved by the Chief inspector for this purpose.

10.2 A visible notice must be put up on any work premises with the name of the person responsible for first aid. In an emergency "Department's" Ambulance / Fire Department or emergency services may be contacted at .....

#### 11. FLAMMABLE LIQUIDS

11.1 The "Contractor" shall be held responsible for the necessary precautionary fire prevention measures. No smoking signs must be put up where applicable. The "Contractor's" employees must be informed of "Department's" fire prevention measures and evacuation procedures.

#### 12. COMPENSATION BY CONTRACTOR

12.1 The "Contractor" shall be held responsible for all loss of and damage to property, the death or injury of persons, the resultant loss or damage suffered as well as all law suits, claims, costs, charges, fines and expenses due to negligence, violation of statutory liability or neglect of the "Contractor" or the "Contractor's" employees.

#### 13. TRANSGRESSION OF RULES AND MISBEHAVIOUR

13.1 The "Contractor" is warned that any act(s) leading to damage or loss of employees of the "Contractor" or the "Department" shall not be tolerated. The "Department" may (without any reason) demand that any employee of the "Contractor" be withdrawn from the principal "Contract" or site.

#### 14. INCIDENT REPORTING

14.1 All incidents referred to in Section 24 of the Occupational Health and Safety Act and or other incidents shall be reported, by the "Contractor", to the Department of Labour, as well as to the "Department" and should such an incident take place outside normal working hours, on a Saturday, Sunday or Public holiday to The "Department" shall further be provided with a written report relating to any incident.

14.2 The "Department" will obtain an interest in the issue of any formal inquiry conducted in terms of the Occupational Health and Safety Act in any incident involving the "Contractor" and/or his employees and/or his subcontractors.

14.3 The "Contractor" undertakes to report to "Department" anything deemed to be unhealthy and/or unsafe and that he undertakes to verse his employees and/or subcontractors in this regard.

#### 15. LIAISON AND SUPERVISION

15.1 The "Contractor" hereby undertakes to liaise on a regular basis with the designated Risk Control Officer and "Department" representative regarding any hazards or incidents that may be identified or encountered during the performance of the "Principal Contract".

#### 16. SERVICE INTERRUPTION

16.1 Should any work done by the "Contractor" cause a possible interruption, written permission must be

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C1.4.5

obtained from "Department", before such work commences. The "Contractor" may not switch on or off any compressed air, steam, oxygen, vacuum supply or electrical supply without written permission from the "Department".

#### 17. CONFIDENTIALITY

- 17.1 The "Contractor" and his employees shall regard all data, documentation and information of the contract and related documentation as confidential.
- 17.2 Lost documentation/plans or related documentation shall immediately be reported in writing to the "Department".
- 17.3 The "Contractor" shall not put up any advertisements or billboard at the site without permission.
- 17.4 The "Contractor" shall not take photographs of the contract site or part thereof or any work process or part thereof, without written permission from the "Department", or have photographs taken, published or let it be published.

#### 18. CONTRACT SITE AND PRESERVATION

- 18.1 Employees of the "Contractor" shall not be allowed entrance to the site unless a valid identity document, issued by "Department", is displayed. The mentioned documents shall only be valid for a limited period, where after it must be renewed.

#### 19. COMPLETION OF WORK

- 19.1 The "Contractor" or his employees shall not leave the contract site before the "Department" is satisfied that the contract is completed according to the requirements and standards set out in the contract and that the working site is left in a satisfactory and safe condition.

#### 20. LIQUOR, DRUGS, DANGEROUS WEAPONS AND FIREARMS

- 20.1 The "Contractor" shall ensure that no liquor, drugs, dangerous weapons or firearms be brought onto the premises.

#### 21. SEARCHES

- 21.1 The "Contractor" and any person engaged in the contract work may at any time be searched by "Department" appointed security personnel and all packages, suitcases, etc. must be presented to the access control point for examination prior to them being brought onto the property or leaving the property.

#### 22. GENERAL CONDITIONS

- 22.1 Notwithstanding anything to the contrary in this agreement, it is hereby specifically determined that the "Contractor-"
  - 22.1.1 shall have acquainted himself and be conversant with the contents of all statutory provisions applicable to the health and safety of workers and other persons on the site including the execution of the work, and in particular the conditions contained in the Occupational Health and Safety Act, 1993 (Act 85/1993), and the regulations promulgated in terms thereof, and shall comply therewith meticulously and in all aspects and/or take care that it is complied with;

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C1.4.6

- 22.1.2 shall be obliged to immediately execute all instructions given to him by an authorized representative of "Department" in order to ensure and uphold the implementation and enforcement of the provisions referred to in sub-paragraph 1, to the satisfaction of the said representative;
- 22.1.3 shall indemnify the "Department" against any or all liability which may be incurred by the "Department" as a result of the omission of the "Contractor", his employees, sub-contractors and/or representatives to comply with the provisions referred to in sub-paragraph 1, or to ensure that it shall be complied with;
- 22.1.4 shall undertake to pay upon demand any and/or all legal costs and other expenses which "Department" may have incurred as a consequence of any criminal charges or other proceedings pending against, or involving the "Department" as a result of the contravention or non-compliance by the "Contractor", his employees, sub-contractors and/or representative of any of the statutory provisions referred to in sub-paragraph 1.
- 22.1.5 Should the "Contractor" neglect to immediately execute any health and safety written orders issued to him, or to his employee in charge of the works, in terms of the stipulations of sub-paragraph 2, the "Department" shall be entitled to suspend the execution of the works and take the necessary steps to execute or have such order executed. Under these circumstances the contractor shall be obliged to pay "Department", upon demand, all costs and expenses incurred by "Department", in order to execute or have the said orders executed.
- 22.1.6 Should the abovementioned steps not establish a healthy and safe work environment the "Department" will be entitled to terminate the contract without incurring any further costs or claims from the contractor?

### 23. "CONTRACTOR" IDENTIFICATION BOARD

- 23.1 The "Contractor" shall provide on any work premises a temporary identification board containing at all worksites the following information:

Company name  
On behalf of which division/department the work is being done  
The contact number and name of the person representing the "Contractor"  
The contact number and name of the person representing "Department"

### 24. ACKNOWLEDGEMENT

- 24.1 The "Contractor" hereby acknowledges that he has read and received a copy of the "Principal Contract" and agrees to be bound by and undertakes to observe all the terms and conditions of the "Principal Contract". This appointment is made in terms of Section 37(2) of the Occupational Health and Safety Act, 85 of 1993.

### 25. EXCEPTIONS AND OMISSIONS

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|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

C1.4.7

26. REMARKS

**THE CONTRACTOR**

SIGNED AT ..... ON THIS ..... DAY OF .....

WITNESSES:

.....  
THE CONTRACTOR

1. ....  
2. ....

**THE DEPARTMENT**

SIGNED AT ..... ON THIS ..... DAY OF .....

WITNESSES:

.....  
THE DEPARTMENT

1. ....  
2. ....

**INDEMNITY CERTIFICATE**

Contractor : \_\_\_\_\_  
Employer : Department Agriculture Land Reform and Rural Development  
Contract : \_\_\_\_\_

I/we \_\_\_\_\_ Hereafter the "Contractor"

"Contractor" hereby indemnifies the Department against any claim of whatever sort which may arise directly or indirectly from the execution by me/us of the above-mentioned contract and which may be instituted against "Department", as well as of any loss or damage which the "Department" suffers or expenditure the "Department" incurs to prevent responsibility for such claim, loss or damage, whatever the cause of such claim may be or whatever loss or damage the "Department" suffers.

THUS done and signed at ..... on this ..... day of..... 2023

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

C1.4.8



**WITNESSES:**

1. ....

.....  
**CONTRACTOR**

2. ....

.....  
**DEPARTMENT**

|                            |
|----------------------------|
| C.<br>R 2<br>REVENUE STAMP |
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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

C1.4.9

### ACKNOWLEDGEMENT CERTIFICATE

I, in my capacity as.....

Duly authorized hereto.....representing

..... Contractors, acknowledge receipt  
Of a copy of the Department's safety manual for contractors and the under mentioned person as my supervisor  
regarding all works and services which must be executed by the Contractor. The appointment is done in terms of the  
Occupational Health and Safety Act, 1993 (Act 85/1993).

SIGNED AT ..... ON ..... 2023.

I, ..... accept the abovementioned appointment, and  
declare that I am familiar with the contents of the Department Safety Manual for contractors.

### CASUALTIES REGISTRATION NUMBER

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SIGNED AT ..... ON ..... 2023

SIGNATURE:

WITNESSES: 1. ....

2. ....

A copy of this certificate shall be submitted to the "Department" before any work commences.

|                      |
|----------------------|
| R 2<br>REVENUE STAMP |
|----------------------|

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

C1.4.10

### ACKNOWLEDGEMENT CERTIFICATE

I, in my capacity as.....

Duly authorized hereto.....representing

..... Contractors, acknowledge receipt  
Of a copy of the Department's safety manual for contractors and the under mentioned person as my supervisor  
regarding all works and services which must be executed by the Contractor. The appointment is done in terms of the  
Occupational Health and Safety Act, 1993 (Act 85/1993).

SIGNED AT ..... ON ..... 2023

I, ..... accept the abovementioned appointment, and  
declare that I am familiar with the contents of the Department Safety Manual for contractors.

### CASUALTIES REGISTRATION NUMBER

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SIGNED AT ..... ON ..... 2023

SIGNATURE:

WITNESSES: 1. ....

3. ....

A copy of this certificate shall be submitted to the "Department" before any work commences.

|                      |
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| R 2<br>REVENUE STAMP |
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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

C1.4.11

DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE

PORTION 2: CONTRACT

PART C2: PRICING DATA

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PRICING DATA  
INDEX

| Section | Description                          | Page No       |
|---------|--------------------------------------|---------------|
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| C2.2    | PROVISIONAL BILLS OF QUANTITIES..... | 118 – 119.220 |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

**CONTRACT NO.: 08/2/15/91**

**APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

**C2.1                      PRICING INSTRUCTIONS**

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

C 2.1 PRICING INSTRUCTIONS

**GENERAL**

This section provides the tenderer with guidelines and requirements with regard to the completion of the Bill of Quantities. The Schedule has to be completed in black ink and the tenderer is referred to the Tender Specifications in regard to the correction of errors.

**CORRECTION OF ENTRIES MADE BY TENDERER**

Any entry made by the Tenderer in the Bill of Quantities, forms, etc., which the tenderer desires to change, shall not be erased or painted out. A line shall be drawn through the incorrect entry and the correct entry shall be written above in black ink and the full signature of the Tenderer shall be placed next to the correction.

1. Measurement and payment shall be in accordance with the relevant provisions of the SANS 1200 Standardised Specification for Civil Engineering Construction as amended in the Scope of Works.
2. The units of measurement described in the Bill of Quantities are metric units. Abbreviations used in the Bill of Quantities are as follows:

|                      |   |                       |
|----------------------|---|-----------------------|
| %                    | = | percent               |
| h                    | = | hour                  |
| ha                   | = | hectare               |
| kg                   | = | kilogram              |
| kl                   | = | kilolitre             |
| km                   | = | kilometre             |
| km-pass              | = | kilometre-pass        |
| kPa                  | = | kilopascal            |
| kW                   | = | kilowatt              |
| litre                | = | litre                 |
| m                    | = | metre                 |
| mm                   | = | millimetre            |
| m <sup>2</sup>       | = | square metre          |
| m <sup>2</sup> -pass | = | square metre pass     |
| m <sup>3</sup>       | = | cubic metre           |
| m <sup>3</sup> -km   | = | cubic metre kilometre |
| MN                   | = | meganewton            |
| MN.m                 | = | meganewton-metre      |
| MPa                  | = | megapascal            |
| No                   | = | number                |
| ton                  | = | ton (1000 kg)         |
| W/day                | = | Work day              |

3. For the purpose of the Bill of Quantities, the following words shall have the meanings hereby assigned to them:

|                  |                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit:            | The unit of measurement for each item of work as defined in the Standard Specifications.                                                                 |
| Quantity:        | The number of units of work for each item.                                                                                                               |
| Rate:            | The agreed payment per unit of measurement.                                                                                                              |
| Amount:          | The product of the quantity and the agreed rate for an item.                                                                                             |
| Lump sum:        | An agreed amount for an item, the extent of which is described in the Bill of Quantities but the quantity of work of which is not measured in any units. |
| Provisional sum: | An amount provided for work the scope and/or the necessity of which is undecided.                                                                        |
| Prime cost sum:  | An amount provided to cover the cost price of certain goods, services or materials.                                                                      |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

4. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
5. It will be assumed that prices included in the bills of quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to [www.stanza.org.za](http://www.stanza.org.za) or [www.iso.org](http://www.iso.org) for information on standards).
6. The prices and rates in the Bill of Quantities are to be fully inclusive prices for the work described under the several items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. Reasonable prices shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out.
7. Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items.
8. **A price or rate shall be entered against each item in the Bill of Quantities.** Should the Tenderer not wish to make any charge in respect of an item, a rate of zero "R0.00" or "Nil" shall be entered. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bill of Quantities. Except where rates only are required, insert all amounts to be included in the total tendered price in the "Amount" column and show the corresponding total tendered price. The Tenderer may not group a number of items together and tender one lump sum for such group of items.

The tendered rates shall be valid irrespective of any change in the quantities during the execution of the works under the contract.

**No unauthorized amendment shall be made to the Bill of Quantities or any part of the Pricing Data. If such amendment is made or if the Bill of Quantities is not properly completed, the tender will be rejected.**

9. The quantities set out in the Bill of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bill of Quantities.
10. Reasonable compensation will be received where no pay item appears in the Bill of Quantities in respect of work required in terms of the Contract and which is not covered in any other pay item.
11. The short descriptions of the items of payment given in the Bill of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
12. The item numbers appearing in the Bill of Quantities refer to the corresponding item numbers in the SANS 1200 Standardised Specification for Civil Engineering Construction).
13. Those parts of the contract to be constructed using labour-intensive methods have been marked in the Bills of Quantities with the letters L in a separate column filled in against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters L are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour-intensive specification in the Scope of Works.
14. Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour- intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

## CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE

### C2.2 PROVISIONAL BILLS OF QUANTITIES

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

C 2.2 PROVISIONAL BILLS OF QUANTITIES

Please note that it is mandatory to submit the complete Priced Bills of Quantities with the Returnable Documents in the following acceptable formats:

Filled in, in clearly legible and **PERMANENT BLACK INK.**

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| SECTION B10: METALWORK                               | 119.41  |
| SECTION B11: PLASTERING                              | 119.43  |
| SECTION B12: TILING                                  | 119.44  |
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| <b>SCHEDULE C: MASAKHANE (GANSBAAI)</b>              | 119.64  |
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| SECTION C2: EARTHWORKS                               | 119.65  |
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| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                            | Unit | Quantity | Rate | Amount |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
|         | <b><u>SCHEDULE A</u></b>                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |        |
|         | <b><u>SECTION A1</u></b>                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |        |
|         | <b><u>PRELIMINARIES</u></b>                                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |
|         | <b><u>BUILDING AGREEMENT AND<br/>PRELIMINARIES</u></b>                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
|         | The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described                                                                                                                                                                                      |      |          |      |        |
|         | The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b>                                                                                                                                                                                                                                                                           |      |          |      |        |
|         | The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b> , amended as hereinafter described                                                                                          |      |          |      |        |
|         | The <b>contractor</b> is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause                                                                                                                                                                                                                                                           |      |          |      |        |
|         | The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only                                                                                                                                                                                                                                                                                 |      |          |      |        |
|         | Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"                                                                                                                                                                                                                                                                                |      |          |      |        |
|         | Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents |      |          |      |        |
|         | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                     |      |          | R    |        |
|         | Schedule A<br>Section A1: Preliminary & General                                                                                                                                                                                                                                                                                                                                            |      |          |      |        |

**PREAMBLES FOR TRADES**

*The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. **Where such preambles are not applicable** (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications*

*Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same*

*The latest version of the General Preambles for Trades should be referred to should the General Preambles for Trades 2017 be revised in future*

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained

Supplementary preambles and/or specifications are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles

The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications

**STRUCTURE OF THIS PRELIMINARIES BILL**

Section A : A recital of the headings of the individual clauses in the aforementioned **JBCC** Principal Building Agreement

Section B : A recital of the headings of the individual clauses in the aforementioned **JBCC** General Preliminaries

Section C : Any special clauses to meet the particular circumstances of the project

**PRICING OF PRELIMINARIES**

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

**SECTION A: PRINCIPAL BUILDING AGREEMENT****Interpretation (A1-A7)**

- 1 Clause 1.0 - Definitions and interpretation

**Pricing of bills of quantities**

The **contractor** is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this **agreement**. Value Added Tax (VAT) is to be separately stated on the summary page of these **bills of quantities**

## R

Prices for all **construction equipment**, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

The items in these **bills of quantities** utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the **contractor** shall, before submission of his tender, call for a written directive from the **principal agent**, failing which it shall be assumed that the **contractor** has allowed in his pricing for materials and workmanship in terms of international best practice

If the **contractor** constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:

1. These persons are deemed to be jointly and severally liable to the **employer** for the performance of this **agreement**
2. These persons shall notify the **employer** of their leader who has assigned authority to bind the **contractor** and each of these persons
3. The **contractor** shall not alter its composition or legal status without the prior written consent of the **employer**

Item

Item

## R

T: .....

Schedule A  
Section 1A: Preliminary  
& General

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  |   |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|---|
|   | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |  | R |
| 3 | <p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Item |  |   |
| 4 | <p>Clause 4.0 - Cession and assignment</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Item |  |   |
| 5 | <p>Clause 5.0 - Documents</p> <p><b>Value Added Tax</b></p> <p>Provision is made in the summary page of these <b>bills of quantities</b> for the inclusion of Value Added Tax (VAT)</p> <p>The <b>principal agent</b> shall decide which portion of the <b>priced document</b> may be used as a specification of <b>materials and goods</b> or methods, if any</p> <p><b>Electronic issue of drawings</b></p> <p>All drawings for this project will be issued electronically and the <b>contractor</b> shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]</p> <p>F:..... V:.....</p> <p>T:.....</p> | Item |  |   |
| 6 | <p>Clause 6.0 - <b>Employer's agents</b></p> <p><b>Delegated authority</b></p> <p>The authority of the <b>principal agent</b> to issue <b>contract instructions</b> [17.1] and perform duties for specific aspects of the <b>works</b> is delegated to <b>agents</b> as follows [6.2]. This does not preclude the <b>principal agent</b> from issuing such <b>contract instructions</b>:</p> <p>1. <u>Principle Agent</u></p> <p><i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i></p>                                                                                                                |      |  |   |
|   | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |  | R |
|   | <p>Schedule A</p> <p>Section A1: Preliminary &amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |  |   |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |          |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------|--|
| <p style="text-align: right;"><b>Brought Forward</b></p> <p>1.1 Duties [6.2] :</p> <p>The <b>principle agent</b> is responsible for the architectural design, functional design and quality inspection of the <b>works</b></p> <p>1.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>1.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>1.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p>1.2.3 The <b>site</b> [13.0]</p> <p>1.2.4 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p> <p>1.2.5 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p> <p>1.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>1.2.7 Removal or re-execution of work</p> <p>1.2.8 Removal or substitution of any <b>materials and goods</b></p> <p>1.2.9 Protection of the <b>works</b></p> <p>1.2.10 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]</p> <p>1.2.11 Rectification of <b>defects</b> [21.2]</p> <p>1.2.12 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b>, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Schedule A<br/>Section A1: Preliminary &amp; General</p> |  |  | <p>R</p> |  |
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| <p style="text-align: right;"><b>Brought Forward</b></p> <p>1.2.13 Expenditure of <b>budgetary allowances, prime cost amounts</b> and <b>provisional sums</b></p> <p>1.2.14 Appointment of a <b>subcontractor</b> [14.0; 15.0]</p> <p>1.2.15 Work by <b>direct contractors</b> [16.0]</p> <p>1.2.16 On suspension or termination, protection of the <b>works</b>, removal of <b>construction equipment</b> and surplus <b>materials and goods</b> [29.0]</p> <p>2. <u>Civil and structural engineer</u></p> <p><i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i></p> <p>2.1 Duties [6.2] :</p> <p>The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the <b>works</b></p> <p>2.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>2.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>2.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p>2.2.3 The <b>site</b> [13.0]</p> <p>2.2.4 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p> <p>2.2.5 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p> <p>2.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Schedule A<br/>Section A1: Preliminary &amp; General</p> |  |  | <p>R</p> | <hr/> <p>R</p> |
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| <p style="text-align: right;"><b>Brought Forward</b></p> <p>2.2.7 Removal or re-execution of work</p> <p>2.2.8 Removal or substitution of any <b>materials and goods</b></p> <p>2.2.9 Protection of the <b>works</b></p> <p>2.2.10 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]</p> <p>2.2.11 Rectification of <b>defects</b> [21.2]</p> <p>2.2.12 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b>, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b></p> <p>2.2.13 Expenditure of <b>budgetary allowances, prime cost amounts</b> and <b>provisional sums</b></p> <p>3. <u>Electrical engineer</u></p> <p><i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i></p> <p>3.1 Duties [6.2] :</p> <p>The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the <b>works</b> ? and, where appointed by the <b>employer</b> for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions</p> <p style="text-align: right;"><b>Carried Forward</b></p> |  |  | R |  |
| <p>Schedule A<br/>Section A1: Preliminary &amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  | R |  |

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| <p style="text-align: right;"><b>Brought Forward</b></p> <p>3.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>3.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>3.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p>3.2.3 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p> <p>3.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p> <p>3.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>3.2.6 Removal or re-execution of work</p> <p>3.2.7 Removal or substitution of any <b>materials and goods</b></p> <p>3.2.8 Protection of the <b>works</b></p> <p>3.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]</p> <p>3.2.10 Rectification of <b>defects</b> [21.2]</p> <p>3.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b>, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b></p> <p>3.2.12 Expenditure of <b>budgetary allowances, prime cost amounts</b> and <b>provisional sums</b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Schedule A<br/>Section A1: Preliminary &amp; General</p> |  |  | R |  |
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| <p style="text-align: right;"><b>Brought Forward</b></p> <p>4. <u>Fire consultant</u></p> <p><i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i></p> <p>4.1 Duties [6.2] :</p> <p>The fire consultant is responsible for all aspects of rational fire design and quality inspection of the <b>works</b></p> <p>4.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>4.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p>4.2.3 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p> <p>4.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p> <p>4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>4.2.6 Removal or re-execution of work</p> <p>4.2.7 Removal or substitution of any <b>materials and goods</b></p> <p>4.2.8 Protection of the <b>works</b></p> <p>4.2.9</p> <p>4.2.10 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]</p> <p>4.2.11 Rectification of <b>defects</b> [21.2]</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Schedule A<br/>Section A1: Preliminary &amp; General</p> |  |  | R |  |
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|   | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |  | R |
|   | <p>4.2.12 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b>, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b></p> <p>4.2.13 Expenditure of <b>budgetary allowances, prime cost amounts</b> and <b>provisional sums</b></p> <p>5. <u>Health and safety consultant</u></p> <p>5.1 Duties [6.2] :</p> <p>The health and safety consultant is responsible for all aspects of health and safety of the <b>works</b>. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the <b>works</b>. He shall:</p> <p>5.1.1 Act as the <b>employer's agent</b> in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended</p> <p>5.1.2 Prepare and update the health and safety specification for the <b>works</b></p> <p>5.1.3 Agree with the <b>contractor</b> the health and safety plan for the <b>works</b></p> <p>5.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations</p> <p>5.1.5 Stop the execution of the <b>works</b> where the agreed specification or plan is not adhered to?</p> <p>F:..... V:.....<br/>T:.....</p> |      |  |   |
| 7 | <p>Clause 7.0 - Design responsibility</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Item |  |   |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Item |  |   |
|   | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |  | R |
|   | <p>Schedule A</p> <p>Section A1: Preliminary &amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |  |   |

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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  | R |
|    | <b><u>Insurances and securities (A8-A11)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |  |   |
| 8  | <p>Clause 8.0 - <b>Works</b> risk</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Item |  |   |
| 9  | <p>Clause 9.0 - Indemnities</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Item |  |   |
| 10 | <p>Clause 10.0 - Insurances</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Item |  |   |
| 11 | <p>Clause 11.0 - <b>Securities</b></p> <p><b>Guarantee for payment</b></p> <p>The <b>employer</b> shall not provide to the <b>contractor</b> a <b>guarantee for payment</b></p> <p>[11.5.1]. The <b>contractor</b> shall consequently waive his lien or right of continuing possession of the <b>works</b> [11.10]?</p> <p><b>Extension of waiver of lien</b></p> <p>The <b>contractor</b> shall ensure that a waiver of lien is included in all subcontracts and that the <b>works</b> executed on the <b>site</b> are kept free of all liens and other encumbrances at all times [11.10]</p> <p>F:..... V:.....</p> <p>T:.....</p> | Item |  |   |
|    | <b><u>Execution (A12 - A17)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |  |   |
| 12 | <p>Clause 12.0 - Obligations of the <b>parties</b></p> <p><b>Office accommodation</b></p> <p>The <b>contractor</b> shall provide, maintain and remove on <b>practical completion</b> air conditioned office accommodation with suitable tables and chairs for meetings to be held on the <b>site</b>. Such offices shall be kept clean and fit for use at all times [12.2.18]</p>                                                                                                                                                                                                                                                    |      |  |   |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |  | R |
|    | <p>Schedule A</p> <p>Section A1: Preliminary &amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |  |   |





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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  | R |
|    | 1. Designate an area for the <b>direct contractor</b> to establish a temporary office and workshop and storage of equipment and materials<br><br>2. Allow the use of personnel welfare facilities, where provided<br><br>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation<br><br>4. Permit the <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the <b>contractor</b> , in common with others having the like right, while it remains erected on the <b>site</b> [16.1]<br><br>F:..... V:.....<br>T:..... | Item |  |   |
| 17 | <b>Clause 17.0 - Contract instructions</b><br><br><b>Site instructions</b><br><br>Instructions issued on <b>site</b> are to be recorded in a site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b> ?<br><br>F:..... V:.....<br>T:.....<br><br><b><u>Completion (A18 - A24)</u></b>                                                                                                                                                                                                                                                                                                                                                                                      | Item |  |   |
| 18 | Clause 18.0 - Interim completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | N/A  |  |   |
| 19 | <b>Clause 19.0 - Practical completion</b><br><br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Item |  |   |
| 20 | <b>Clause 20.0 - Completion in sections</b><br><br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Item |  |   |
| 21 | <b>Clause 21.0 - Defects liability period and final completion</b><br><br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Item |  |   |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  | R |
|    | Schedule A<br>Section A1: Preliminary<br>& General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |  |   |

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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  | R |
| 22 | <p>Clause 22.0 - <b>Latent defects</b> liability period</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Item |  |   |
| 23 | <p>Clause 23.0 - Revision of the date for <b>practical completion</b></p> <p><b>Substitution of materials and goods</b></p> <p>The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 &amp; 2]</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                        | Item |  |   |
| 24 | <p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>F:..... V:.....</p> <p>T:.....</p> <p><b>Payment (A25 - A27)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Item |  |   |
| 25 | <p>Clause 25.0 - Payment</p> <p><b>Prices submitted</b></p> <p>Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> or in regard to a claim under the terms of this <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing</p> <p>F:..... V:.....</p> <p>T:.....</p> | Item |  |   |
| 26 | <p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p> <p><b>Fluctuations in costs</b></p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the <b>contractor</b> [26.9.5]</p>                                                                                                                                                                                                                                                                                                                                                           |      |  |   |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  | R |
|    | <p>Schedule A</p> <p>Section A1: Preliminary &amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |  |   |

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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                               |      | R |  |
|    | F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                           | Item |   |  |
| 29 | Clause 29.0 - Termination                                                                                                                                                                                                                                                                                            |      |   |  |
|    | F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                           | Item |   |  |
|    | <b><u>Dispute resolution (A30)</u></b>                                                                                                                                                                                                                                                                               |      |   |  |
| 30 | Clause 30.0 - Dispute resolution                                                                                                                                                                                                                                                                                     |      |   |  |
|    | F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                           | Item |   |  |
| 31 | <b><u>Agreement</u></b><br>The required information of the <b>parties</b> and the amount of the <b>contract sum</b> shall be inserted in the <b>agreement</b> for signature of the <b>agreement</b> by the <b>parties</b>                                                                                            |      |   |  |
|    | F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                           | Item |   |  |
| 32 | <b><u>Contract data</u></b><br><br>Before submission of his tender the <b>contractor</b> is to complete the tenderer's selections in the <b>contract data</b>                                                                                                                                                        |      |   |  |
|    | F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                           | Item |   |  |
|    | <b><u>SECTION B: GENERAL PRELIMINARIES</u></b><br><br><i>Should it be necessary to expand on any of the General Preliminaries clauses, the user should list the appropriate General Preliminary clause number and heading and insert the relevant provision under a suitable heading in bold as may be necessary</i> |      |   |  |
|    | <b><u>Definitions and interpretation (B1)</u></b>                                                                                                                                                                                                                                                                    |      |   |  |
| 33 | Clause 1.1 - Definitions                                                                                                                                                                                                                                                                                             |      |   |  |
|    | F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                           | Item |   |  |
| 34 | Clause 1.2 - Interpretation                                                                                                                                                                                                                                                                                          |      |   |  |
|    | F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                           | Item |   |  |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                               |      | R |  |
|    | Schedule A<br>Section A1: Preliminary<br>& General                                                                                                                                                                                                                                                                   |      |   |  |

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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  | R |  |
|    | <b><u>Documents (B2)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |  |   |  |
| 35 | Clause 2.1 - Checking of documents<br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                                                | Item |  |   |  |
| 36 | Clause 2.2 - Provisional <b>bills of quantities</b><br><br><b>Multiple procurement</b><br>These <b>bills of quantities</b> are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are <b>budgetary allowances</b> and/or <b>provisional sums</b><br><br>F:..... V:.....<br>T:..... | Item |  |   |  |
| 37 | Clause 2.3 - Availability of <b>construction information</b><br><br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                  | Item |  |   |  |
| 38 | Clause 2.4 - Ordering of <b>materials and goods</b><br><br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                           | Item |  |   |  |
|    | <b><u>Previous work and adjoining properties (B3)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                       |      |  |   |  |
| 39 | Clause 3.1 - Previous work - dimensional accuracy<br><br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                             | Item |  |   |  |
| 40 | Clause 3.2 - Previous work - <b>defects</b><br><br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                                   | Item |  |   |  |
| 41 | Clause 3.3 - Inspection of adjoining properties<br><br>F:..... V:.....<br>T:.....                                                                                                                                                                                                                                                                                                                                                                               | Item |  |   |  |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  | R |  |
|    | Schedule A<br>Section A1: Preliminary<br>& General                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |   |  |

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|    | <b>Brought Forward</b>                                                           |      |  | R |  |
|    | <b><u>The site (B4)</u></b>                                                      |      |  |   |  |
| 42 | Clause 4.1 - Handover of <b>site</b> in stages<br>F:..... V:.....<br>T:.....     | Item |  |   |  |
| 43 | Clause 4.2 - Enclosure of the <b>works</b><br>F:..... V:.....<br>T:.....         | Item |  |   |  |
| 44 | Clause 4.3 - Geotechnical and other investigations<br>F:..... V:.....<br>T:..... | Item |  |   |  |
| 45 | Clause 4.4 - Encroachments<br>F:..... V:.....<br>T:.....                         | Item |  |   |  |
| 46 | Clause 4.5 - Existing premises occupied<br>F:..... V:.....<br>T:.....            | Item |  |   |  |
| 47 | Clause 4.6 - Services - known<br>F:..... V:.....<br>T:.....                      | Item |  |   |  |
|    | <b><u>Management of contract (B5)</u></b>                                        |      |  |   |  |
| 48 | Clause 5.1 - Management of the <b>works</b><br>F:..... V:.....<br>T:.....        | Item |  |   |  |
| 49 | Clause 5.2 - Progress meetings<br>F:..... V:.....<br>T:.....                     | Item |  |   |  |
| 50 | Clause 5.3 - Technical meetings<br>F:..... V:.....<br>T:.....                    | Item |  |   |  |
|    | <b>Carried Forward</b>                                                           |      |  | R |  |
|    | Schedule A<br>Section A1: Preliminary<br>& General                               |      |  |   |  |

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|----|----------------------------------------------------------------------------------------|------|--|---|--|
|    | <b>Brought Forward</b>                                                                 |      |  | R |  |
|    | <b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b>              |      |  |   |  |
| 51 | Clause 6.1 - Samples of materials<br>F:..... V:.....<br>T:.....                        | Item |  |   |  |
| 52 | Clause 6.2 - Workmanship samples<br>F:..... V:.....<br>T:.....                         | Item |  |   |  |
| 53 | Clause 6.3 - Shop drawings<br>F:..... V:.....<br>T:.....                               | Item |  |   |  |
| 54 | Clause 6.4 - Compliance with manufacturer's instructions<br>F:..... V:.....<br>T:..... | Item |  |   |  |
|    | <b><u>Deposits and fees (B7)</u></b>                                                   |      |  |   |  |
| 55 | Clause 7.1 - Deposits and fees<br>F:..... V:.....<br>T:.....                           | Item |  |   |  |
|    | <b><u>Temporary services (B8)</u></b>                                                  |      |  |   |  |
| 56 | Clause 8.1 - Water<br>F:..... V:.....<br>T:.....                                       | Item |  |   |  |
| 57 | Clause 8.2 - Electricity<br>F:..... V:.....<br>T:.....                                 | Item |  |   |  |
| 58 | Clause 8.3 - Ablution and welfare facilities<br>F:..... V:.....<br>T:.....             | Item |  |   |  |
| 59 | Clause 8.4 - Communication facilities<br>F:..... V:.....<br>T:.....                    | Item |  |   |  |
|    | <b>Carried Forward</b>                                                                 |      |  | R |  |
|    | Schedule A<br>Section A1: Preliminary<br>& General                                     |      |  |   |  |

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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  | R |  |
|    | <b><u>Prime cost amounts (B9)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |  |   |  |
| 60 | <p>Clause 9.1 - Responsibility for <b>prime cost amounts</b></p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Item |  |   |  |
|    | <b><u>Attendance on subcontractors (B10)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |   |  |
| 61 | <p>Clause 10.1 - General attendance</p> <p><b><u>User note</u></b></p> <p><i>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</i></p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Item |  |   |  |
| 62 | <p>Clause 10.2 - Special attendance</p> <p><i>It is important to note that general attendance only requires the contractor to "permit the subcontractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site" (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of "special attendance" in the applicable bill</i></p> <p>F:..... V:.....</p> <p>T:.....</p> | Item |  |   |  |
|    | <b><u>General (B11)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |  |   |  |
| 63 | <p>Clause 11.1 - Protection of the <b>works</b></p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Item |  |   |  |
| 64 | <p>Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b></p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Item |  |   |  |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  | R |  |
|    | <p>Schedule A</p> <p>Section A1: Preliminary</p> <p>&amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |  |   |  |



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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |  | R |  |
| 65 | <p>Clause 11.3 - Security of the <b>works</b></p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Item |  |   |  |
| 66 | <p>Clause 11.4 - Notice before covering work</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Item |  |   |  |
| 67 | <p>Clause 11.5 - Disturbance</p> <p><b>Disturbance</b></p> <p>All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the <b>construction period</b> or <b>contract value</b> whatsoever</p> <p>F:..... V:.....T:.....</p> | Item |  |   |  |
| 68 | <p>Clause 11.6 - Environmental disturbance</p> <p>The <b>contractor</b> is to ensure that all roads which border the <b>site</b> and are used by the <b>contractor</b> during the execution of the <b>works</b> are kept clean and free of any dirt or debris caused by the execution of the <b>works</b></p>                                                                                                                                                                                                                                                                                                                                  |      |  |   |  |
| 69 | <p>Clause 11.7 - <b>Works</b> cleaning and clearing</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Item |  |   |  |
| 70 | <p>Clause 11.8 - Vermin</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Item |  |   |  |
| 71 | <p>Clause 11.9 - Overhand work</p> <p>F:..... V:.....</p> <p>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Item |  |   |  |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |  | R |  |
|    | <p>Schedule A</p> <p>Section A1: Preliminary &amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  |   |  |

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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  | R |
| 72 | <p>Clause 11.10 - Tenant installations</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Item |  |   |
| 73 | <p>Clause 11.11 - Advertising</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Item |  |   |
|    | <b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  |   |
| 74 | <p>Warranties for materials and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the <b>contractor</b> shall obtain a written warranty, addressed to the <b>employer</b>, from the entity supplying the materials and/or executing the work and shall deliver same to the <b>principal agent</b> on <b>final completion</b> of the contract</p> <p>The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of <b>practical completion</b> and that any <b>defects</b> that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written <b>notice</b> to do so</p> <p>The warranty will not be enforced if the work is damaged by <b>defects</b> in the execution of the <b>works</b>, in which case the responsibility for replacement shall rest entirely with the <b>contractor</b></p> <p>F:..... V:.....<br/>T:.....</p> | Item |  |   |
| 75 | <p>Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the <b>contractor</b> unless the <b>principal agent</b> has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the <b>employer</b></p> <p>F:..... V:.....T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Item |  |   |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  | R |
|    | <p>Schedule A<br/>Section A1: Preliminary<br/>&amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |  |   |

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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |  | R |
| 76 | <p>Co-operation of the <b>contractor</b> for cost management</p> <p>It is specifically agreed that the <b>contractor</b> accepts the obligation of assisting the <b>principal agent</b> in implementing proper cost management. The <b>contractor</b> will be advised by the <b>principal agent</b> of all cost management procedures which will be implemented to ensure that the <b>contract value</b> does not exceed the budget</p> <p>F:..... V:.....T:.....</p>                                                                                                                                                                                                                                                                                                                    | Item |  |   |
| 77 | <p>Overloading</p> <p>The <b>contractor</b> shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the <b>works</b> or temporary works eg scaffolding, etc. The <b>contractor</b> shall submit details of his proposed loading, storage, plant erection, etc to the <b>principal agent</b> for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the <b>principal agent's</b> requirements in connection with the provision of temporary support work, etc. Any damage caused to the <b>works</b> by overloading shall be made good by the <b>contractor</b> at his sole expense</p> <p>F:..... V:.....T:.....</p>                                                                      | Item |  |   |
| 78 | <p>Health and safety</p> <p>Without limiting the generality of the provisions of clause 2.0, the <b>contractor's</b> attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the <b>employer</b> shall prepare a documented health and safety specification for the <b>works</b> and that the <b>employer</b> shall ensure that the <b>contractor</b> has made provision for the cost of health and safety measures during the execution of the <b>works</b>. The <b>contractor</b> shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1]</p> |      |  |   |
|    | <b>Carried Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |  | R |
|    | <p>Schedule A</p> <p>Section A1: Preliminary &amp; General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |  |   |



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|    | <b>Brought Forward</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |  | R |
| 81 | <p>Confidentiality</p> <p>The <b>contractor</b> undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all <b>subcontractors</b> and suppliers. Such information shall not be used in any way except in connection with the execution of the <b>works</b></p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the <b>employer</b></p> <p>F:..... V:.....T:.....</p>                                                                                                                        | Item |  |   |
| 82 | <p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the <b>employer</b></p> <p>The <b>contractor</b> together with his <b>subcontractors</b> shall not, without the prior written consent of the <b>employer</b>, cause any statement or advertisement connected with this project to be printed, screened or aired by the media</p> <p>F:..... V:.....T:.....</p> <p><b><u>SUMMARY OF CATEGORIES</u></b></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p> | Item |  |   |
|    | <b>Carried to Final Summary</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  | R |
|    | Schedule A<br>Section A1: Preliminary & General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |   |

**SECTION B1: SITE CLEARANCE**

| ITEM NO                          | PAYMENT     | DESCRIPTION                                                                                                                                      | UNIT | QTY | RATE | AMOUNT |   |
|----------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                                  |             |                                                                                                                                                  |      |     |      | R      | c |
| B1                               | SANS 1200 C | SITE CLEARANCE                                                                                                                                   |      |     |      |        |   |
| B1.1                             | PSC 8.2.1   | Clear and grub Site (including hauling to licensed dumping site and dumping levy)                                                                | m²   | 846 |      |        |   |
|                                  | 8.2.5       | Take down existing fences                                                                                                                        |      |     |      |        |   |
| B1.2                             |             | Steel diamond mesh fence 2.2m high with steel posts and droppers                                                                                 | m    | 4   |      |        |   |
| B1.3                             |             | 500mm High galvanised razor fence                                                                                                                | m    | 40  |      |        |   |
|                                  | 8.2.7       | Dismantle and remove pipelines, electricity transmission lines, cables, etc.                                                                     |      |     |      |        |   |
| B1.4                             |             | Half round PVC gutters exceeding 50mm and not exceeding 100mm diameter                                                                           | m    | 46  |      |        |   |
| B1.5                             |             | PVC piping exceeding 50mm and not exceeding 100mm diameter                                                                                       | m    | 14  |      |        |   |
|                                  | 8.2.8       | Demolish and remove structures/buildings and dismantle steelwork, etc.                                                                           |      |     |      |        |   |
| B1.6                             |             | Mass brickwork                                                                                                                                   | m³   | 2   |      |        |   |
| B1.7                             |             | One brick boundary or yard walls 2m high including removal of foundations and backfilling of trenches                                            | m    | 40  |      |        |   |
| B1.8                             |             | Timber double door and frame 1,511 x 2,032mm high overall from 230mm brick wall                                                                  | No.  | 1   |      |        |   |
| B1.9                             |             | Take off and remove existing fibre cement barge boards                                                                                           | m    | 1   |      |        |   |
| B1.10                            |             | Timber skirtings                                                                                                                                 | m    | 1   |      |        |   |
| B1.11                            |             | Break-out new opening in existing wall for timber door with frame 0.813 x 2.043 m high overall through one brick wall (door measured else where) | No.  | 1   |      |        |   |
|                                  |             | Relocation of existing storage container                                                                                                         |      |     |      |        |   |
| B1.12                            |             | Relocate existing storage container approximately 2.5 x 6 x 2.2m high to a new location indicated on site                                        | Sum  | 1   |      |        |   |
|                                  | PSC 8.2.11  | Removal and stockpile of existing kerbs, pavers, etc.                                                                                            |      |     |      |        |   |
| B1.13                            |             | Remove and stockpile existing pavers                                                                                                             | m²   | 55  |      |        |   |
|                                  | PSC 8.2.12  | Import from stockpile and reinstate existing kerbs, pavers, etc.(all inclusive)                                                                  |      |     |      |        |   |
| B1.14                            |             | Reinstate existing pavers                                                                                                                        | m²   | 55  |      |        |   |
| Total Carried Forward To Summary |             |                                                                                                                                                  |      |     |      |        |   |

**SECTION B2: EARTHWORKS**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |              |                                                                                                                                            |                |     |      | R      | c |
| B2                    | SANS 1200 DA | EARTHWORKS (small works)                                                                                                                   |                |     |      |        |   |
|                       | 8.3.1        | Excavation                                                                                                                                 |                |     |      |        |   |
| B2.1                  |              | a) Remove topsoil to nominal depth 150 mm, stockpile, and maintain                                                                         | m <sup>2</sup> | 500 |      |        |   |
|                       |              | b) Excavate in all materials and use for embankment or backfill or dispose, as ordered                                                     |                |     |      |        |   |
|                       |              | To reduced levels under floors                                                                                                             |                |     |      |        |   |
| B2.2                  |              | i) Cut to Fill and compact to 93% MOD AASHTO density in layers not exceeding 150 mm                                                        | m <sup>3</sup> | 25  |      |        |   |
| B2.3                  |              | ii) Cut to Spoil                                                                                                                           | m <sup>3</sup> | 15  |      |        |   |
| B2.4                  |              | iii) Cut to Stockpile and maintain                                                                                                         | m <sup>3</sup> | 10  |      |        |   |
| B2.5                  |              | iv) Stockpile to Fill and compact to 93% MOD AASHTO density in layers not exceeding 150 mm                                                 | m <sup>3</sup> | 10  |      |        |   |
|                       |              | c) Extra-over for                                                                                                                          |                |     |      |        |   |
| B2.6                  |              | 2) Hard rock excavation                                                                                                                    | m <sup>3</sup> | 4   |      |        |   |
| B2.7                  |              | 3) Boulder excavation, Class A                                                                                                             | m <sup>3</sup> | 1   |      |        |   |
| B2.8                  |              | 4) Boulder excavation, Class B                                                                                                             | m <sup>3</sup> | 1   |      |        |   |
|                       | 8.3.2        | Restricted Excavation                                                                                                                      |                |     |      |        |   |
|                       |              | a) Excavate for restricted foundations, footings and trenches in all materials and use for backfill or embankment or dispose, as directed: |                |     |      |        |   |
| B2.9                  |              | Strip-footings not exceeding 2.0 m deep                                                                                                    | m <sup>3</sup> | 90  |      |        |   |
|                       |              | b) Extra-over for                                                                                                                          |                |     |      |        |   |
| B2.10                 |              | 2) Hard rock excavation                                                                                                                    | m <sup>3</sup> | 1   |      |        |   |
|                       | 8.3.4        | Importing of materials from borrow pits                                                                                                    |                |     |      |        |   |
|                       |              | Under concrete surface beds                                                                                                                |                |     |      |        |   |
| B2.11                 |              | i) G9 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                          | m <sup>3</sup> | 20  |      |        |   |
| B2.12                 |              | ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                         | m <sup>3</sup> | 5   |      |        |   |
|                       | 8.3.4        | Importing of materials from commercial sources                                                                                             |                |     |      |        |   |
|                       |              | Under concrete surface beds                                                                                                                |                |     |      |        |   |
| B2.13                 |              | i) G9 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                          | m <sup>3</sup> | 200 |      |        |   |
| Total Carried Forward |              |                                                                                                                                            |                |     |      |        |   |

## SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]



**SECTION B3: CONCRETE (STRUCTURAL)**

| ITEM NO               | PAYMENT    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNIT           | QTY | RATE | AMOUNT    |   |
|-----------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|-----------|---|
|                       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |     |      | R         | c |
| B3                    |            | CONCRETE (STRUCTURAL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |     |      |           |   |
| B3.1                  |            | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |     |      |           |   |
|                       |            | Engineering specifications: The contractor is referred to the engineer's general notes and specifications attached to these bills of quantities and must allow for all costs deemed to be incurred in complying with the aforementioned specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |     |      |           |   |
|                       |            | Formwork: Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" |                |     |      |           |   |
| B3.2                  | SANS1200 G | UNREINFORCED CONCRETE CAST AGAINST BRICKWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |     |      |           |   |
|                       | 8.4.2      | Blinding layer in 15 MPa/19 mm concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |     |      |           |   |
| B3.2.1                |            | 50 mm minimum thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m <sup>2</sup> | 6   |      | Rate Only |   |
|                       | 8.4.3      | Strength concrete: Grade 20 MPa/19 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |     |      |           |   |
| B3.2.2                |            | Filling to cavity of hollow walls (hollow walls elsewhere)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | m <sup>3</sup> | 18  |      |           |   |
| B3.3                  | SANS1200 G | REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |     |      |           |   |
|                       | 8.4.3      | 25MPa/19mm concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |     |      |           |   |
| B3.3.1                |            | Strip footings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | m <sup>3</sup> | 39  |      |           |   |
| B3.3.2                |            | Surface beds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | m <sup>3</sup> | 29  |      |           |   |
| B3.3.3                |            | Ramps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | m <sup>3</sup> | 4   |      |           |   |
| B3.3.4                |            | Steps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | m <sup>3</sup> | 2   |      |           |   |
| B3.4                  | 8.2        | SCHEDULED FORMWORK ITEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |     |      |           |   |
| Total Carried Forward |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |     |      |           |   |

**SECTION B3: CONCRETE (STRUCTURAL)**

| ITEM NO                          | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                  | UNIT | QTY | RATE | AMOUNT |   |
|----------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                                  |         |                                                                                                                                                                                                                                                                                                                              |      |     |      | R      | c |
| Brought Forward                  |         |                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                                  |         | Includes the necessary anchor and supports bolts and fastening components as specified in the drawings.                                                                                                                                                                                                                      |      |     |      |        |   |
|                                  | 8.2.1   | Rough formwork to sides                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
| B3.4.1                           |         | Strip footings                                                                                                                                                                                                                                                                                                               | m²   | 15  |      |        |   |
|                                  | 8.2.2   | Smooth formwork to Soffits:                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
| B3.4.2                           |         | Edges, risers, ends and reveals not exceeding 300mm high or wide                                                                                                                                                                                                                                                             | m    | 79  |      |        |   |
| B3.5                             | 8.5     | JOINTS                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                                  |         | Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces                                                                                                                                                                                                                    |      |     |      |        |   |
| B3.5.1                           |         | Not exceeding 300mm high to edges of surface bed                                                                                                                                                                                                                                                                             | m    | 206 |      |        |   |
| B3.6                             | 8.1.2   | REINFORCEMENT                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                                  | 8.3.1   | High tensile steel reinforcement to structural concrete work                                                                                                                                                                                                                                                                 |      |     |      |        |   |
| B3.6.1                           |         | up to 20mm diameter bars                                                                                                                                                                                                                                                                                                     | t    | 4   |      |        |   |
|                                  | 8.3.2   | Fabric reinforcement                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
| B3.6.2                           |         | Type 245 fabric reinforcement in concrete surface beds, slabs, etc                                                                                                                                                                                                                                                           | m²   | 322 |      |        |   |
| B3.7                             |         | BOUNDARY WALL                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                                  |         | Vibracrete reinforced precast concrete wall finished smooth on exposed surfaces, including site clearance and preparation of ground                                                                                                                                                                                          |      |     |      |        |   |
| B3.7.1                           |         | Pre-cast concrete fence 1 800m high above ground level over flat or sloping terrain with 120 x 120mm standard H-section posts at 1 450mm centres, filled in with standard 1 450 x 600mm high panels with louvre design on one side, including concrete bases, grouting panels in cement mortar, excavations, backfilling etc | m    | 36  |      |        |   |
| Total Carried Forward To Summary |         |                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |

**SECTION B4: MASONRY**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                              | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                          |                |     |      | R      | c |
| B4                    |         | MASONRY                                                                                                                                                                                                  |                |     |      |        |   |
| B4.1                  |         | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                  |                |     |      |        |   |
| B4.2                  |         | BRICKWORK                                                                                                                                                                                                |                |     |      |        |   |
| B4.2.1                |         | Brick structures complete according to details specified in the drawings. In the event of discrepancies between the BOQ and the drawings, details in the drawings will govern.                           |                |     |      |        |   |
| B4.2.2                |         | All brickwork shall be hard clay bricks with compressive strength of 14MPa and must comply with the requirements. Mortar Class I in accordance with SANS 0164 shall be used throughout in all brickwork. |                |     |      |        |   |
|                       |         | Sizes in descriptions: Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.                                               |                |     |      |        |   |
|                       |         | Hollow walls etc: Descriptions of hollow walls shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weephole.                        |                |     |      |        |   |
| B4.3                  |         | FOUNDATIONS                                                                                                                                                                                              |                |     |      |        |   |
| B4.3.1                |         | i) One brick Walls - 230mm wide solid clay NFP to SABS 277                                                                                                                                               | m <sup>2</sup> | 119 |      |        |   |
| B4.3.2                |         | ii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277                                                                                                                      | m <sup>2</sup> | 155 |      |        |   |
| B4.4                  |         | SUPERSTRUCTURE                                                                                                                                                                                           |                |     |      |        |   |
| B4.4.1                |         | i) Half brick walls - 115mm wide solid clay NFP SABS 277                                                                                                                                                 | m <sup>2</sup> | 64  |      |        |   |
| B4.4.2                |         | ii) One brick Walls - 230mm wide solid clay NFP to SABS 277                                                                                                                                              | m <sup>2</sup> | 178 |      |        |   |
| B4.4.3                |         | iii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277                                                                                                                     | m <sup>2</sup> | 280 |      |        |   |
| B4.5                  |         | BRICKWORK SUNDRIES                                                                                                                                                                                       |                |     |      |        |   |
|                       |         | Cavity closure, finishings etc.                                                                                                                                                                          |                |     |      |        |   |
| B4.5.1                |         | i) Splayed mortar fillets one course high in 50mm cavities                                                                                                                                               | m              | 87  |      |        |   |
| B4.5.2                |         | ii) Closing 50mm cavity of hollow wall vertically with brickwork half brick wide                                                                                                                         | m              | 78  |      |        |   |
| B4.5.3                |         | iii) Closing 50mm cavity of hollow wall horizontally with one course of brickwork                                                                                                                        | m              | 50  |      |        |   |
| B4.5.4                |         | iv) Cutting toothings and bonding new brickwork to existing                                                                                                                                              | m <sup>2</sup> | 2   |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                          |                |     |      |        |   |

**SECTION B4: MASONRY**

| ITEM NO                          | PAYMENT     | DESCRIPTION                                                                                                                                                                                              | UNIT | QTY   | RATE | AMOUNT |   |
|----------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|--------|---|
|                                  |             |                                                                                                                                                                                                          |      |       |      | R      | c |
| Brought Forward                  |             |                                                                                                                                                                                                          |      |       |      |        |   |
| B4.6                             | PSBW 6.2.3  | BAGGING                                                                                                                                                                                                  |      |       |      |        |   |
|                                  |             | Bagging of 1:3 cement and sand mixture                                                                                                                                                                   |      |       |      |        |   |
| B4.6.1                           |             | On brick walls, piers, etc                                                                                                                                                                               | m²   | 50    |      |        |   |
| B4.7                             | PSBW 6.2.10 | JOINTS                                                                                                                                                                                                   |      |       |      |        |   |
|                                  |             | Joint forming material in movement joints                                                                                                                                                                |      |       |      |        |   |
| B4.7.1                           |             | 10mm Fibre board built in vertically through brick walls                                                                                                                                                 | m    | 72    |      |        |   |
| B4.8                             |             | BRICK REINFORCEMENT                                                                                                                                                                                      |      |       |      |        |   |
|                                  |             | 2.5mm Galvanised brickwork reinforcement                                                                                                                                                                 |      |       |      |        |   |
| B4.8.1                           |             | i) 75mm Wide reinforcement built in horizontally                                                                                                                                                         | m    | 3,829 |      |        |   |
| B4.8.2                           |             | ii) 150mm Wide reinforcement built in horizontally                                                                                                                                                       | m    | 1,985 |      |        |   |
| B4.9                             |             | WIRE WALL TIES                                                                                                                                                                                           |      |       |      |        |   |
|                                  |             | Tie wires shall be butterfly type and comply with the requirements of SANS 28, shall be of required size to suit cavity wall dims. and shall be installed not less than 5no. per square meter wall area. |      |       |      |        |   |
| B4.9.1                           |             | Galvanized Wire Butterfly Wall Ties                                                                                                                                                                      | No.  | 1,400 |      |        |   |
| B4.10                            |             | PRECAST LINTELS                                                                                                                                                                                          |      |       |      |        |   |
|                                  |             | Prestressed fabricated concrete lintels including necessary supports                                                                                                                                     |      |       |      |        |   |
| B4.10.1                          |             | 110 x 75mm Lintels in lengths not exceeding 3m                                                                                                                                                           | m    | 126   |      |        |   |
| B4.10.2                          |             | 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4.5m                                                                                                                                        | m    | 13    |      |        |   |
| B4.11                            |             | ROOF TIES                                                                                                                                                                                                |      |       |      |        |   |
|                                  |             | Galvanised hoop iron cramps, ties, etc                                                                                                                                                                   |      |       |      |        |   |
| B4.11.1                          |             | 30 x 1.2mm Roof tie 600mm long with one end built into brickwork and other end fixed to timber                                                                                                           | No.  | 75    |      |        |   |
| B4.12                            | PSBW 6.2.2  | AIR BRICKS                                                                                                                                                                                               |      |       |      |        |   |
|                                  |             | Clay vermin-proof air brick                                                                                                                                                                              |      |       |      |        |   |
| B4.12.1                          |             | 229 x 152mm clay vermin-proof air brick                                                                                                                                                                  | No.  | 16    |      |        |   |
| Total Carried Forward To Summary |             |                                                                                                                                                                                                          |      |       |      |        |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE B: BAMBANANI - KLEINMOND

## SECTION B6: ROOF COVERINGS

[illegible]

**SECTION B7: CARPENTRY AND JOINERY**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                              | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                          |      |     |      | R      | c |
| B7                    |             | CARPENTRY AND JOINERY                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
| B7.1                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Fixing: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere. |      |     |      |        |   |
|                       |             | Joinery: Descriptions of frames shall be deemed to include frames, transomes, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.                                                                                                                                                           |      |     |      |        |   |
| B7.2                  | PSBW 6.2.11 | ROOFS ETC                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
| B7.3                  |             | PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC                                                                                                                                                                                                                                                                                          |      |     |      |        |   |
| B7.4                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Design Responsibility                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
|                       |             | The contractor shall be responsible for the design of the timber roof construction. The contractor will submit shop drawings for approval to the principal agent. The contractor shall commence manufacturing only after written approval of shop drawings from the principal agent.                                                     |      |     |      |        |   |
|                       |             | Trusses are at maximum 1,500mm centres.                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Roof coverings are IBR metal profiled fixed sheeting on purlins (sheeting measured elsewhere).                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |             | Ceilings are 6.4mm gypsum plasterboard on 38 x 38mm branderling (ceilings measured elsewhere).                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |             | Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences.                                                                                                                                                    |      |     |      |        |   |
|                       |             | All exposed wood of roof construction to be Carbolinuem treated.                                                                                                                                                                                                                                                                         |      |     |      |        |   |
| B7.4.1                |             | 38 x 114mm Wall plates                                                                                                                                                                                                                                                                                                                   | m    | 48  |      |        |   |
| B7.4.2                |             | Roof construction to double pitched roof 24.98 x 10.29m with two hip and valley intersections including 4.35 x 0.61m and 9.78 x 2.71m double pitched projections, including trusses, jack rafters, permanent bracing and 76 x 50mm purlins at maximum 500mm centres for roof covering (wall plates elsewhere)                            | No.  | 1   |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                          |      |     |      |        |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

119.37



**SECTION B8: CEILINGS, PARTITIONS AND ACCESS FLOORING**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                              | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                          |                |     |      | R      | c |
| B8                    |             | CEILINGS, PARTITIONS AND ACCESS FLOORING                                                                                                                                                                                                                                                                                                 |                |     |      |        |   |
| B8.1                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |                |     |      |        |   |
|                       |             | Fixing: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere. |                |     |      |        |   |
|                       |             | Ceilings: Unless otherwise described ceilings shall be deemed to be horizontal.                                                                                                                                                                                                                                                          |                |     |      |        |   |
|                       |             | Steel components: All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121.                                                                                                                                                                                                                  |                |     |      |        |   |
| B8.2                  | PSBW 6.2.16 | CEILING INSULATION                                                                                                                                                                                                                                                                                                                       |                |     |      |        |   |
|                       |             | Think Pink Aerolite Class A1 insulation or similar and approved                                                                                                                                                                                                                                                                          |                |     |      |        |   |
| B8.2.1                |             | 135mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of branderling between roof timbers etc                                                                                                                                                                                                       | m <sup>2</sup> | 250 |      |        |   |
| B8.3                  | PSBW 6.2.15 | NAILED-UP CEILINGS                                                                                                                                                                                                                                                                                                                       |                |     |      |        |   |
| B8.4                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |                |     |      |        |   |
|                       |             | Openings                                                                                                                                                                                                                                                                                                                                 |                |     |      |        |   |
|                       |             | Prices for openings for light fittings, ventilation grilles, air-conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc.                                                                                                                                                                  |                |     |      |        |   |
|                       |             | 6,4mm Gypsum plasterboard with taped joints and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer                                                                                                                                                           |                |     |      |        |   |
| B8.4.1                |             | Ceilings including 38 x 38mm sawn softwood branderling at 300mm centres and cross branderling at 600mm centres                                                                                                                                                                                                                           | m <sup>2</sup> | 250 |      |        |   |
| B8.4.2                |             | Sloping ceilings including 38 x 38mm sawn softwood branderling at 600mm centres                                                                                                                                                                                                                                                          | m <sup>2</sup> | 4   |      |        |   |
| B8.4.3                |             | Extra over ceiling for 900 x 900mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around                                                                                                                           | No.            | 4   |      |        |   |
|                       |             | Gypsum plasterboard cornices                                                                                                                                                                                                                                                                                                             |                |     |      |        |   |
| B8.4.4                |             | 75mm Coved cornices                                                                                                                                                                                                                                                                                                                      | m              | 233 |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                          |                |     |      |        |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

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119.40

**SECTION B10: METALWORK**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                 | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                             |      |     |      | R      | c |
| B10                   | PSBW 6.2.18 | METALWORK                                                                                                                                                                                                                                                                                                                                   |      |     |      |        |   |
| B10.1                 |             | WINDOWS                                                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |             | Natural anodized aluminium windows to a thickness of 25micron with laminated safety glass for windows as per window schedule (drawing no 23-OVM-003 ST602)                                                                                                                                                                                  |      |     |      |        |   |
| B10.1.1               |             | Window 600 x 600mm high (ref W1, W15, W16, W17, W18)                                                                                                                                                                                                                                                                                        | No.  | 5   |      |        |   |
| B10.1.2               |             | Window 1800 x 1200mm high (ref W2)                                                                                                                                                                                                                                                                                                          | No.  | 1   |      |        |   |
| B10.1.3               |             | Window 1800 x 1200mm high (ref W3)                                                                                                                                                                                                                                                                                                          | No.  | 1   |      |        |   |
| B10.1.4               |             | Window 900 x 1200mm high (ref W4)                                                                                                                                                                                                                                                                                                           | No.  | 1   |      |        |   |
| B10.1.5               |             | Window 2400 x 600mm high (ref W5, W6, W7, W12, W19, W24,W25, W26)                                                                                                                                                                                                                                                                           | No.  | 8   |      |        |   |
| B10.1.6               |             | Window 1500 x 600mm high (ref W8, W22)                                                                                                                                                                                                                                                                                                      | No.  | 2   |      |        |   |
| B10.1.7               |             | Window 1500 x 600mm high (ref W9, W23)                                                                                                                                                                                                                                                                                                      | No.  | 2   |      |        |   |
| B10.1.8               |             | Window 1800 x 600mm high (ref W10, W11, W20, W21)                                                                                                                                                                                                                                                                                           | No.  | 4   |      |        |   |
| B10.1.9               |             | Window 1800 x 1200mm high (ref W13)                                                                                                                                                                                                                                                                                                         | No.  | 1   |      |        |   |
| B10.1.10              |             | Window 600 x 1200mm high (ref W14)                                                                                                                                                                                                                                                                                                          | No.  | 1   |      |        |   |
| B10.2                 |             | GALVANISED STEEL GATES, SCREENS, ETC                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
|                       |             | Refer to "Typical Window Security Screen Detail" on drawing no. ST603 annexed to the Bill of Quantities                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |             | Welded screens and gates to windows of 35 x 35 x 3mm angle outer frame and 35 x 3mm flat section bracing, filled with "Mentex 118/VEM 315F" or similar approved expanded metal mesh spot welded to frame and bracing, with 32 x 32 x 2.5mm hollow section supports welded onto outer frame and build epoxy fixed 100mm deep into brickwork. |      |     |      |        |   |
| B10.2.1               |             | Window screen 840 x 840mm high                                                                                                                                                                                                                                                                                                              | No.  | 5   |      |        |   |
| B10.2.2               |             | Window screen 2040 x 1440mm high                                                                                                                                                                                                                                                                                                            | No.  | 3   |      |        |   |
| B10.2.3               |             | Window screen 1140 x 1440mm high                                                                                                                                                                                                                                                                                                            | No.  | 1   |      |        |   |
| B10.2.4               |             | Window screen 2640 x 840mm high                                                                                                                                                                                                                                                                                                             | No.  | 8   |      |        |   |
| B10.2.5               |             | Window screen 1740 x 840mm high                                                                                                                                                                                                                                                                                                             | No.  | 4   |      |        |   |
| B10.2.6               |             | Window screen 2040 x 840mm high                                                                                                                                                                                                                                                                                                             | No.  | 4   |      |        |   |
| B10.2.7               |             | Window screen 840 x 1,440mm high                                                                                                                                                                                                                                                                                                            | No.  | 1   |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                             |      |     |      |        |   |

| ITEM NO                          | PAYMENT | DESCRIPTION                                                                                                                                                                       | UNIT | QTY | RATE | AMOUNT    |   |
|----------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                                  |         |                                                                                                                                                                                   |      |     |      | R         | c |
| Brought Forward                  |         |                                                                                                                                                                                   |      |     |      |           |   |
| B10.3                            |         | GALVANISED PRESSED STEEL DOOR FRAMES                                                                                                                                              |      |     |      |           |   |
|                                  |         | 1,2mm Double rebated frames suitable for one brick walls                                                                                                                          |      |     |      |           |   |
| B10.3.1                          |         | Frame for door 813 x 2,032mm high                                                                                                                                                 | No.  |     |      | Rate Only |   |
| B10.4                            |         | FENCING                                                                                                                                                                           |      |     |      |           |   |
|                                  |         | Galvanised wired mesh fence with timber posts, including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground                               |      |     |      |           |   |
| B10.4.1                          |         | Fence 1.8m high of galvanised wired mesh fixed to150mm diameter timber posts at 2,500mm centres with steel wire etc including excavation, backfilling and concrete for bases      | m    | 15  |      |           |   |
| B10.4.2                          |         | Galvanised steel gate 813 x 1,800mm high fixed to 150 x 150mm timber posts on both sides and filled in with galvanised wired mesh, including hinges, spring latch with catch, etc | No.  | 1   |      |           |   |
| B10.5                            |         | IRONMONGERY                                                                                                                                                                       |      |     |      |           |   |
|                                  |         | Fixing of ironmongery to wooden doors                                                                                                                                             |      |     |      |           |   |
| B10.5.1                          |         | 100mm Hinge                                                                                                                                                                       | No.  | 28  |      |           |   |
| B10.5.2                          |         | Flush bolt                                                                                                                                                                        | No.  | 10  |      |           |   |
| B10.5.3                          |         | Mortice indicator bolt                                                                                                                                                            | No.  | 4   |      |           |   |
| B10.5.4                          |         | Mortice deadlock                                                                                                                                                                  | No.  | 10  |      |           |   |
| B10.5.5                          |         | Approximately 150mm door handle                                                                                                                                                   | No.  | 14  |      |           |   |
| B10.5.6                          |         | Door stop, plugged                                                                                                                                                                | No.  | 14  |      |           |   |
|                                  |         | Fixing of ironmongery to brickwork                                                                                                                                                |      |     |      |           |   |
| B10.5.7                          |         | Toilet roll holders                                                                                                                                                               | No.  | 5   |      |           |   |
| B10.5.8                          |         | Soap dishes                                                                                                                                                                       | No.  | 11  |      |           |   |
| B10.5.9                          |         | Towl rails                                                                                                                                                                        | No.  | 12  |      |           |   |
| B10.6                            |         | SAFETY GATES                                                                                                                                                                      |      |     |      |           |   |
|                                  |         | Supply and Install Xpanda Saftidor (or similar approved)                                                                                                                          |      |     |      |           |   |
| B10.6.1                          |         | B Slamlock security gate, white 1000mm x 2100mm high, single external doors                                                                                                       | No.  | 5   |      |           |   |
| Total Carried Forward To Summary |         |                                                                                                                                                                                   |      |     |      |           |   |

## SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

**SECTION B13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                   | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      | R      | c |
| B13                   |         | PLUMBING AND DRAINAGE                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
| B13.1                 |         | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Stormwater channels                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc and disposal of surplus material on site.                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | Stainless steel basins, sinks, wash troughs, urinals, etc                                                                                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |         | Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.             |      |     |      |        |   |
|                       |         | Sealing of edges                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone.                                                                                                                                                                                                                                                                                                          |      |     |      |        |   |
|                       |         | uPVC pipes and fittings                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings.                                                                                                                                                                                                                            |      |     |      |        |   |
|                       |         | uPVC pressure pipes and fittings                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.                                                                                             |      |     |      |        |   |
|                       |         | Polycop polypropylene pipes                                                                                                                                                                                                                                                                                                                                                                                                   |      |     |      |        |   |
|                       |         | Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions. |      |     |      |        |   |
|                       |         | Copper pipes                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |



**SECTION B13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
|                       |         | Pipes shall be hard drawn and half-hard "Maksal" or similar and approved pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" or similar and approved type. Capillary solder fittings shall comply with ISO 2016. |      |     |      |        |   |
|                       |         | Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition.                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Reducing fittings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained.                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Fixing of pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
|                       |         | Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc casting in, building in or suspending not exceeding 1m below suspension level.                                                                                                                                                                                                                                                                                                                                                             |      |     |      |        |   |
|                       |         | Paper wrapping to pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |         | Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings.                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
|                       |         | Disinfection of water pipework                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
|                       |         | Water pipework is to be disinfected at completion in accordance with SANS 1200L (provision for disinfection elsewhere).                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |         | Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 55% overlaps Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc.                                                                                                                                                                                                                                |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |

**SECTION B13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |         | Prices for wrapping of pipes shall include for all work as described to couplings in the length.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |
|                       |         | Laying, backfilling, bedding, etc of pipes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
|                       |         | Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled.                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | "Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SANS 1200L : Medium-pressure pipelinesSANS 1200LD : SewersSANS 1200LE : Stormwater drainagePipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB : Earthworks (Pipe trenches)Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB : Bedding (Pipes)Unless otherwise described, bedding of rigid pipes shall be Class B bedding" |      |     |      |        |   |
|                       |         | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
|                       |         | Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends.                                                                                                                                                                                                                                                            |      |     |      |        |   |
|                       |         | Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc. shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site.                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc. and to steel pipes (adaptors for connections to copper pipes, etc are given separately).                                                                                                                                                                                                                                                                                                                                            |      |     |      |        |   |
|                       |         | Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured).                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | As-built drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere).                                                                                                                                                                                                                                                  |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |

**SECTION B13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT                                                                                                             | DESCRIPTION                                                                       | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |                                                                                                                     |                                                                                   |      |     |      | R      | c |
| Brought Forward       |                                                                                                                     |                                                                                   |      |     |      |        |   |
| B13.2                 | PSBW 6.2.14                                                                                                         | RAINWATER DISPOSAL                                                                |      |     |      |        |   |
|                       |                                                                                                                     | uPVC gutters and rain water pipes                                                 |      |     |      |        |   |
| B13.2.1               |                                                                                                                     | 150 x 125 x 100mm VHV roof gutters                                                | m    | 48  |      |        |   |
| B13.2.2               |                                                                                                                     | Extra over gutter for stopped end                                                 | No.  | 14  |      |        |   |
| B13.2.3               |                                                                                                                     | Extra over gutter for angle                                                       | No.  | 10  |      |        |   |
| B13.2.4               |                                                                                                                     | Extra over gutter for outlet for 80mm pipe                                        | No.  | 10  |      |        |   |
| B13.2.5               |                                                                                                                     | 80mm Diameter rainwater pipes                                                     | m    | 28  |      |        |   |
| B13.2.6               |                                                                                                                     | Extra over rainwater pipe for bend                                                | No.  | 4   |      |        |   |
| B13.2.7               |                                                                                                                     | Extra over rainwater pipe for shoe                                                | No.  | 10  |      |        |   |
| B13.2.8               |                                                                                                                     | Extra over rainwater pipe for eaves or plinth offset                              | No.  | 10  |      |        |   |
| B13.3                 |                                                                                                                     | STORMWATER CHANNELS                                                               |      |     |      |        |   |
|                       |                                                                                                                     | Precast concrete channels                                                         |      |     |      |        |   |
| B13.3.1               |                                                                                                                     | 200 x 90mm Channels with 105 x 50mm deep segmental channel                        | m    | 36  |      |        |   |
| B13.3.2               |                                                                                                                     | Extra over for angles, intersections, ends, dressing into sides of catchpits, etc | No.  | 4   |      |        |   |
| B13.4                 |                                                                                                                     | SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES, ETC                                  |      |     |      |        |   |
|                       |                                                                                                                     | uPVC SV pipes                                                                     |      |     |      |        |   |
| B13.4.1               | Set of two 110mm pipes laid side-by-side in and including trenches not exceeding 1m deep                            | m                                                                                 | 21   |     |      |        |   |
|                       | Extra over uPVC SV pipes for fittings                                                                               |                                                                                   |      |     |      |        |   |
| B13.4.2               | 110mm Bend                                                                                                          | No.                                                                               | 6    |     |      |        |   |
|                       | Draw wires                                                                                                          |                                                                                   |      |     |      |        |   |
| B13.4.3               | 1,6mm Galvanised steel draw wires in pipes                                                                          | m                                                                                 | 43   |     |      |        |   |
|                       | Inspection chambers                                                                                                 |                                                                                   |      |     |      |        |   |
| B13.4.4               | 800 x 800mm Brick inspection chamber 750mm deep internally, including precast concrete cover slab (cover elsewhere) | m                                                                                 | 1    |     |      |        |   |
|                       | Cast iron covers, etc.                                                                                              |                                                                                   |      |     |      |        |   |
| B13.4.5               | 600 x 600mm Cast iron single seal manhole cover and frame                                                           | No.                                                                               | 1    |     |      |        |   |
| B13.5                 | SOIL DRAINAGE                                                                                                       |                                                                                   |      |     |      |        |   |
| Total Carried Forward |                                                                                                                     |                                                                                   |      |     |      |        |   |

**SECTION B13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                  | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|--------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                              |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                              |      |     |      |        |   |
|                       |         | Heavy duty (Class 34) uPVC sewer and drain pipes                                                             |      |     |      |        |   |
| B13.5.1               |         | 110mm Pipes vertically or ramped to cleaning eyes, etc (no excavation)                                       | m    | 11  |      |        |   |
| B13.5.2               |         | 110mm Pipes laid in and including trenches not exceeding 1m deep                                             | m    | 64  |      |        |   |
|                       |         | Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings                                     |      |     |      |        |   |
| B13.5.3               |         | 110mm Bend                                                                                                   | No.  | 13  |      |        |   |
| B13.5.4               |         | 110mm Junction                                                                                               | No.  | 6   |      |        |   |
| B13.5.5               |         | 110mm Access bend                                                                                            | No.  | 8   |      |        |   |
| B13.5.6               |         | 110mm Rodding eye                                                                                            | No.  | 3   |      |        |   |
|                       |         | uPVC gulleys                                                                                                 |      |     |      |        |   |
| B13.5.7               |         | 110mm Gulley not exceeding 500mm deep                                                                        | No.  | 5   |      |        |   |
|                       |         | Brick inspection chambers including precast concrete cover slabs (covers elsewhere) and channels in benching |      |     |      |        |   |
| B13.5.8               |         | 900 x 900mm Inspection chamber not exceeding 1m deep internally                                              | No.  | 1   |      |        |   |
|                       |         | Cast iron covers, etc.                                                                                       |      |     |      |        |   |
| B13.5.9               |         | 900 x 900mm Double seal manhole cover and frame                                                              | No.  | 1   |      |        |   |
| B13.6                 |         | SUNDRIES                                                                                                     |      |     |      |        |   |
| B13.6.1               |         | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock                  | m³   | 2   |      |        |   |
| B13.6.2               |         | Concrete encasing to 110mm horizontal pipes                                                                  | m    | 24  |      |        |   |
| B13.6.3               |         | 350 x 350 x 50mm Precast concrete inspection eye marker slab set in ground                                   | No.  | 9   |      |        |   |
| B13.6.4               |         | Cutting into existing 160mm drain pipe for and forming junction with 110mm pipe                              | No.  | 1   |      |        |   |
|                       |         | Testing                                                                                                      |      |     |      |        |   |
| B13.6.5               |         | Testing soil drainage system                                                                                 | No.  | 1   |      |        |   |
| B13.7                 |         | SANITARY FITTINGS                                                                                            |      |     |      |        |   |
| B13.7.1               |         | WC suite with cistern and seat                                                                               | No.  | 5   |      |        |   |
| B13.7.2               |         | Wash hand basin wall hung                                                                                    | No.  | 11  |      |        |   |
|                       |         | Stainless steel                                                                                              |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                              |      |     |      |        |   |

**SECTION B13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                       | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|-----------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                   |      |     |      | R      | c |
| Brought Forward       |         |                                                                                   |      |     |      |        |   |
| B13.7.3               |         | Double sink                                                                       | No.  | 1   |      |        |   |
| B13.7.4               |         | Prep bowl                                                                         | No.  | 1   |      |        |   |
| B13.8                 |         | WASTE UNIONS ETC                                                                  |      |     |      |        |   |
|                       |         | Chrome plated                                                                     |      |     |      |        |   |
| B13.8.1               |         | 32mm Basin waste union                                                            | No.  | 11  |      |        |   |
| B13.8.2               |         | 40mm Basin waste union                                                            | No.  | 3   |      |        |   |
| B13.9                 |         | TRAPS ETC                                                                         |      |     |      |        |   |
|                       |         | Rubber                                                                            |      |     |      |        |   |
| B13.9.1               |         | 40mm S trap                                                                       | No.  | 1   |      |        |   |
| B13.9.2               |         | 40mm Double bowl wash trough or sink reseal "P" or "S" trap combination           | No.  | 1   |      |        |   |
|                       |         | Chrome plated                                                                     |      |     |      |        |   |
| B13.9.3               |         | 32mm CP bottle trap                                                               | No.  | 11  |      |        |   |
| B13.10                |         | TAPS, VALVES, ETC                                                                 |      |     |      |        |   |
|                       |         | Brass                                                                             |      |     |      |        |   |
| B13.10.1              |         | 22mm Stopcock                                                                     | No.  | 6   |      |        |   |
| B13.10.2              |         | 15mm Bib-tap                                                                      | No.  | 2   |      |        |   |
|                       |         | Chromium plated                                                                   |      |     |      |        |   |
| B13.10.3              |         | 15mm Angle regulating valve and connection pipe                                   | No.  | 31  |      |        |   |
| B13.10.4              |         | 15mm Pillar tap (PC R 450/No)                                                     | No.  | 22  |      |        |   |
| B13.10.5              |         | 15mm Basin mixer with pop-up waste and angle flow regulating valves (PC R 800/No) | No.  | 2   |      |        |   |
| B13.11                |         | SANITARY PLUMBING                                                                 |      |     |      |        |   |
|                       |         | uPVC soil and vent pipes                                                          |      |     |      |        |   |
| B13.11.1              |         | 22mm Pipes                                                                        | m    | 8   |      |        |   |
| B13.11.2              |         | 50mm Pipes                                                                        | m    | 21  |      |        |   |
| B13.11.3              |         | 110mm Pipes                                                                       | m    | 8   |      |        |   |
|                       |         | Extra over uPVC soil and vent pipes for fittings                                  |      |     |      |        |   |
| B13.11.4              |         | 50mm End cap                                                                      | No.  | 2   |      |        |   |
| B13.11.5              |         | 110mm End cap                                                                     | No.  | 2   |      |        |   |
| B13.11.6              |         | 50mm BSP adaptor                                                                  | No.  | 10  |      |        |   |
| Total Carried Forward |         |                                                                                   |      |     |      |        |   |

**SECTION B13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                     | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|---------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                 |      |     |      | R      | c |
| Brought Forward       |         |                                                                                 |      |     |      |        |   |
| B13.11.7              |         | 110mm BSP adaptor                                                               | No.  | 5   |      |        |   |
| B13.11.8              |         | 110mm Pan connector                                                             | No.  | 5   |      |        |   |
| B13.11.9              |         | 50mm Bend                                                                       | No.  | 16  |      |        |   |
| B13.11.10             |         | 110mm Bend                                                                      | No.  | 9   |      |        |   |
| B13.11.11             |         | 50mm Junction                                                                   | No.  | 7   |      |        |   |
| B13.11.12             |         | 110mm Junction                                                                  | No.  | 6   |      |        |   |
| B13.11.13             |         | 110mm Reducing junction                                                         | No.  | 7   |      |        |   |
| B13.11.14             |         | 110mm Access bend                                                               | No.  | 5   |      |        |   |
| B13.11.15             |         | 110mm Stubstack                                                                 | No.  | 3   |      |        |   |
| B13.11.16             |         | 110mm Air vent cowl                                                             | No.  | 3   |      |        |   |
|                       |         | Testing                                                                         |      |     |      |        |   |
| B13.11.17             |         | Testing waste pipe system                                                       | No.  | 1   |      |        |   |
| B13.12                |         | WATER SUPPLIES                                                                  |      |     |      |        |   |
|                       |         | Class 16 uPVC pressure pipes with solvent welded joints                         |      |     |      |        |   |
| B13.12.1              |         | 25mm Pipes laid in and including trenches not exceeding 1m deep                 | m    | 26  |      |        |   |
|                       |         | Extra over Class 16 uPVC pressure pipes for fittings with solvent welded joints |      |     |      |        |   |
| B13.12.2              |         | 25mm Fittings                                                                   | No.  | 5   |      |        |   |
|                       |         | Class 2 copper pipes with capillary couplings                                   |      |     |      |        |   |
| B13.12.3              |         | 15mm Pipes                                                                      | m    | 17  |      |        |   |
| B13.12.4              |         | 15mm Pipes chased into brickwork including brown paper lagging                  | m    | 25  |      |        |   |
| B13.12.5              |         | 22mm Pipes                                                                      | m    | 13  |      |        |   |
| B13.12.6              |         | 22mm Pipes chased into brickwork including brown paper lagging                  | m    | 19  |      |        |   |
|                       |         | Extra over class 2 copper pipes with capillary couplings                        |      |     |      |        |   |
| B13.12.7              |         | 15mm Fittings                                                                   | No.  | 30  |      |        |   |
| B13.12.8              |         | 22mm Fittings                                                                   | No.  | 22  |      |        |   |
|                       |         | Extra over Class 2 copper pipes for brass compression fittings                  |      |     |      |        |   |
| B13.12.9              |         | 15mm Fittings                                                                   | No.  | 33  |      |        |   |
| Total Carried Forward |         |                                                                                 |      |     |      |        |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

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119.53



**SECTION B15: PAINTWORK**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                          | UNIT           | QTY | RATE | AMOUNT    |   |
|-----------------------|-------------|----------------------------------------------------------------------------------------------------------------------|----------------|-----|------|-----------|---|
|                       |             |                                                                                                                      |                |     |      | R         | c |
| B15                   | PSBW 6.2.20 | PAINTWORK                                                                                                            |                |     |      |           |   |
| B15.1                 |             | PAINTWORK ETC TO NEW WORK                                                                                            |                |     |      |           |   |
| B15.2                 |             | ON INTERNAL FLOATED PLASTER SURFACES                                                                                 |                |     |      |           |   |
|                       |             | One coat alkali resistant primer and two coats PVA emulsion paint for interior use                                   |                |     |      |           |   |
| B15.2.1               |             | Walls                                                                                                                | m <sup>2</sup> | 617 |      |           |   |
| B15.3                 |             | ON EXTERNAL FLOATED PLASTER SURFACES                                                                                 |                |     |      |           |   |
|                       |             | One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use |                |     |      |           |   |
| B15.3.1               |             | Walls                                                                                                                | m <sup>2</sup> | 482 |      |           |   |
| B15.4                 |             | ON PLASTERBOARD SURFACES                                                                                             |                |     |      |           |   |
|                       |             | One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use                  |                |     |      |           |   |
| B15.4.1               |             | Partitions                                                                                                           | m <sup>2</sup> | 9   |      |           |   |
| B15.4.2               |             | Ceilings and cornices                                                                                                | m <sup>2</sup> | 273 |      |           |   |
| B15.5                 |             | ON FIBRE-CEMENT SURFACES                                                                                             |                |     |      |           |   |
|                       |             | One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use              |                |     |      |           |   |
| B15.5.1               |             | Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips                          | m              | 61  |      |           |   |
| B15.6                 |             | ON METAL SURFACES                                                                                                    |                |     |      |           |   |
|                       |             | Two coat alkyd based universal undercoat and one coat superior quality universal enamel paint                        |                |     |      |           |   |
| B15.6.1               |             | Door frames                                                                                                          | m <sup>2</sup> |     |      | Rate Only |   |
| B15.6.2               |             | Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)                      | m <sup>2</sup> | 59  |      |           |   |
| B15.7                 |             | ON WOOD SURFACES                                                                                                     |                |     |      |           |   |
|                       |             | Two coats superior quality clear matt varnish                                                                        |                |     |      |           |   |
| B15.7.1               |             | Doors                                                                                                                | m <sup>2</sup> | 46  |      |           |   |
| B15.7.2               |             | Skirtings, rails, etc not exceeding 300mm girth                                                                      | m              | 250 |      |           |   |
| B15.8                 |             | PAINTWORK ETC TO PREVIOUSLY PAINTED WORK                                                                             |                |     |      |           |   |
| Total Carried Forward |             |                                                                                                                      |                |     |      |           |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

119.55

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

**SECTION B17: SEWER RETICULATION**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                                                                                                                                                                         | UNIT | QTY | RATE | AMOUNT    |   |
|-----------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                       |              |                                                                                                                                                                                                                                                                                                     |      |     |      | R         | c |
| B17                   |              | SEWER RETICULATION                                                                                                                                                                                                                                                                                  |      |     |      |           |   |
| B17.1                 | SANS 1200 DB | EARTHWORKS (PIPE TRENCHES)                                                                                                                                                                                                                                                                          |      |     |      |           |   |
|                       | 8.3.2        | Excavation                                                                                                                                                                                                                                                                                          |      |     |      |           |   |
|                       |              | a) Excavate in all materials for trenches, backfill and dispose of surplus material                                                                                                                                                                                                                 |      |     |      |           |   |
|                       |              | For pipes with nominal dia up to 450 mm                                                                                                                                                                                                                                                             |      |     |      |           |   |
|                       |              | Over and Up to                                                                                                                                                                                                                                                                                      |      |     |      |           |   |
| B17.1.1               |              | 0,0 m 1,5 m                                                                                                                                                                                                                                                                                         | m    | 180 |      |           |   |
| B17.1.2               |              | 1,5 m 2,5 m                                                                                                                                                                                                                                                                                         | m    | 45  |      |           |   |
|                       |              | b) Extra - over item (a) above for:                                                                                                                                                                                                                                                                 |      |     |      |           |   |
| B17.1.3               |              | 2) Hard rock excavation                                                                                                                                                                                                                                                                             | m³   | 5   |      |           |   |
|                       | 8.3.5        | Existing services that intersect or adjoin a pipe                                                                                                                                                                                                                                                   |      |     |      |           |   |
| B17.1.4               |              | a) Services that intersect a trench                                                                                                                                                                                                                                                                 | No.  | 2   |      |           |   |
| B17.1.5               |              | b) Services that adjoin a trench                                                                                                                                                                                                                                                                    | m    | 10  |      |           |   |
| B17.2                 | SANS 1200 LB | BEDDING (PIPES)                                                                                                                                                                                                                                                                                     |      |     |      |           |   |
|                       | 8.2.1        | Provision of bedding from trench excavation                                                                                                                                                                                                                                                         |      |     |      |           |   |
| B17.2.1               |              | a) Selected granular material                                                                                                                                                                                                                                                                       | m³   | 5   |      |           |   |
| B17.2.2               |              | b) Selected fill material                                                                                                                                                                                                                                                                           | m³   | 11  |      |           |   |
|                       | 8.2.2.3      | Provision of Bedding by Importation from Commercial sources                                                                                                                                                                                                                                         |      |     |      |           |   |
| B17.2.3               |              | a) Selected granular material                                                                                                                                                                                                                                                                       | m³   | 19  |      |           |   |
| B17.2.4               |              | b) Selected fill material                                                                                                                                                                                                                                                                           | m³   | 45  |      |           |   |
| B17.3                 | SANS 1200 LD | SEWERS                                                                                                                                                                                                                                                                                              |      |     |      |           |   |
|                       | 8.2.1        | Supply, lay, joint, bed and test sewer pipes (heavy duty) with spigot and socket rubber ring joints:                                                                                                                                                                                                |      |     |      |           |   |
| B17.3.1               |              | 110 mm diameter Class 34 uPVC                                                                                                                                                                                                                                                                       | m    | 225 |      |           |   |
| B17.3.2               |              | 160 mm diameter Class 34 uPVC                                                                                                                                                                                                                                                                       | m    |     |      | Rate Only |   |
|                       | 8.2.3        | Manholes as per detail drawing 23-OVM-003/G703                                                                                                                                                                                                                                                      |      |     |      |           |   |
|                       |              | Supply all materials and construct 1,05m diameter precast concrete manholes with class D400, Standard type 2A ductile iron cover (non-ventilated) and frame, 560mm opening, SANS Approved (cast into slab, manholes to be raised 150mm above ground where located outside road reserve) for depths: |      |     |      |           |   |
| Total Carried Forward |              |                                                                                                                                                                                                                                                                                                     |      |     |      |           |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

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119.58

**SECTION B18: STORMWATER DRAINAGE**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                              | UNIT | QTY | RATE | AMOUNT    |   |
|-----------------------|--------------|------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                       |              |                                                                                          |      |     |      | R         | c |
| B18                   |              | STORMWATER DRAINAGE                                                                      |      |     |      |           |   |
| B18.1                 | SANS 1200 DB | EARTHWORKS (PIPE TRENCHES)                                                               |      |     |      |           |   |
|                       | 8.3.2        | Excavation                                                                               |      |     |      |           |   |
|                       |              | a) Excavate in all materials for trenches, backfill and dispose of surplus material      |      |     |      |           |   |
|                       |              | For pipes with nominal dia up to 450 mm                                                  |      |     |      |           |   |
|                       |              | Over and Up to                                                                           |      |     |      |           |   |
| B18.1.1               |              | 0,0 m 1,5 m                                                                              | m    | 35  |      |           |   |
| B18.1.2               |              | 1,5 m 2,5 m                                                                              | m    | 10  |      |           |   |
|                       |              | b) Extra - over item (a) above for:                                                      |      |     |      |           |   |
| B18.1.3               |              | 2) Hard rock excavation                                                                  | m³   | 2   |      |           |   |
|                       | 8.3.5        | Existing services that intersect or adjoin a pipe                                        |      |     |      |           |   |
| B18.1.4               |              | a) Services that intersect a trench                                                      | No.  | 2   |      |           |   |
| B18.1.5               |              | b) Services that adjoin a trench                                                         | m    | 35  |      |           |   |
| B18.2                 | SANS 1200 LB | BEDDING (PIPES)                                                                          |      |     |      |           |   |
|                       | 8.2.1        | Provision of bedding from trench excavation                                              |      |     |      |           |   |
| B18.2.1               |              | a) Selected granular material                                                            | m³   | 2   |      |           |   |
| B18.2.2               |              | b) Selected fill material                                                                | m³   | 4   |      |           |   |
|                       | 8.2.2.3      | Provision of Bedding by Importation from Commercial sources                              |      |     |      |           |   |
| B18.2.3               |              | a) Selected granular material                                                            | m³   | 9   |      |           |   |
| B18.2.4               |              | b) Selected fill material                                                                | m³   | 16  |      |           |   |
| B18.3                 | SANS 1200 LE | STORMWATER DRAINAGE                                                                      |      |     |      |           |   |
|                       | 8.2.1        | Supply, handle, lay, bed in Class B bedding, concrete pipe with spigot and socket joints |      |     |      |           |   |
| B18.3.1               |              | a) 300 mm diameter Class 100D                                                            | m    |     |      | Rate Only |   |
| B18.3.2               |              | b) 375 mm diameter Class 100D                                                            | m    | 45  |      |           |   |
|                       | 8.2.8        | Supply and Install Manholes, Catchpits                                                   |      |     |      |           |   |
|                       |              | a) Manholes as per detail drawing 23-OVM-003/G703                                        |      |     |      |           |   |
|                       |              | Precast concrete for up to 450 mm pipes - 1.0 m dia manhole                              |      |     |      |           |   |
|                       |              | Over and Up to                                                                           |      |     |      |           |   |
| B18.3.3               |              | 0,0 m 1,5 m                                                                              | No.  | 2   |      |           |   |
| Total Carried Forward |              |                                                                                          |      |     |      |           |   |

SCHEDULE B: BAMBANANI - KLEINMOND

[illegible]

119.60

**SECTION B19: ROADWORKS**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                 | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |              |                                                                                                                                             |                |     |      | R      | c |
| B19                   |              | ROADWORKS                                                                                                                                   |                |     |      |        |   |
| B19.1                 | SANS 1200 DM | EARTHWORKS (ROADS, SUBGRADE)                                                                                                                |                |     |      |        |   |
|                       | 8.3.3        | Treatment of Roadbed                                                                                                                        |                |     |      |        |   |
| B19.1.1               |              | 2) 150 mm thick Roadbed preparation and compaction of material to minimum of 93% MOD AASHTO density                                         | m <sup>3</sup> | 15  |      |        |   |
| B19.1.2               | 8.3.7        | Cut to Spoil: Excavate in all material and dispose.                                                                                         | m <sup>3</sup> | 2   |      |        |   |
|                       |              | Surface finishes                                                                                                                            |                |     |      |        |   |
| B19.1.3               |              | Shaping and Trimming of Road Reserves                                                                                                       | m <sup>2</sup> | 5   |      |        |   |
|                       | 8.3.3        | Treatment of Roadbed                                                                                                                        |                |     |      |        |   |
| B19.2                 | SANS 1200 ME | SUBBASE                                                                                                                                     |                |     |      |        |   |
|                       | 8.3.3        | Construct Subbase with material from commercial sources                                                                                     |                |     |      |        |   |
| B19.2.1               |              | Import from commercial sources, 150 mm thick G5 natural gravel material for road base, compacted to 95 % of modified AASHTO maximum density | m <sup>3</sup> | 205 |      |        |   |
| B19.3                 | SANS 1200 MJ | SEGMENTED PAVING                                                                                                                            |                |     |      |        |   |
|                       | 8.2.2        | Construction of Paving Complete (25mm sand bedding etc): All included                                                                       |                |     |      |        |   |
| B19.3.1               |              | 60mm Interlocking Grey Cement Pavers Class 40/2.6 (35 MPa minimum), laid in a Herringbone Pattern.                                          | m <sup>2</sup> | 150 |      |        |   |
| B19.3.2               |              | Import from stockpile and reinstate existing kerbs, pavers, etc.(all inclusive)                                                             | m <sup>2</sup> | 55  |      |        |   |
| B19.3.3               | 8.2.3        | Cutting Units to fit Edge Restraints                                                                                                        | m              | 135 |      |        |   |
| B19.3.4               | 8.2.4        | Rolling of units to lock-up condition as specified in clause 5.6.2 of SANS 1200 MJ                                                          | m <sup>2</sup> | 205 |      |        |   |
| B19.4                 | SANS 1200 MM | ANCILLARY ROADWORKS                                                                                                                         |                |     |      |        |   |
|                       | 8.3          | Permanent road traffic signs                                                                                                                |                |     |      |        |   |
|                       | 8.3.1        | Road sign faces, 1,6mm thick pre-painted galvanized steel, with painted symbols, characters, legend and borders of areas over and up to:    |                |     |      |        |   |
| B19.4.1               |              | 1) 0 m <sup>2</sup> to 2 m <sup>2</sup> (R578 - Disabled Sign)                                                                              | No             | 1   |      |        |   |
|                       | 8.3.2        | Extra-over on item above for the provision and application of retro-reflective material:                                                    |                |     |      |        |   |
| B19.4.2               |              | a) High intensity grade (Class II) retro-reflective background, characters, symbols, legend and border                                      | Sum            | 1   |      |        |   |
| Total Carried Forward |              |                                                                                                                                             |                |     |      |        |   |



| ITEM NO                          | PAYMENT      | DESCRIPTION                                                                                           | UNIT | QTY | RATE | AMOUNT    |   |
|----------------------------------|--------------|-------------------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                                  |              |                                                                                                       |      |     |      | R         | c |
| Brought Forward                  |              |                                                                                                       |      |     |      |           |   |
| B19.4.3                          |              | b) Galvanized steel tubing road sign supports                                                         | No   | 1   |      |           |   |
| B19.4.4                          |              | Excavation, backfilling and concreting for road sign supports                                         | m³   | 1   |      |           |   |
|                                  | 8.4          | Road Markings                                                                                         |      |     |      |           |   |
|                                  | 8.4.1        | Non-reflective paint applied at a nominal rate of 0.42 l/m2 as scheduled:                             |      |     |      |           |   |
|                                  |              | a) White lines (broken or unbroken)                                                                   |      |     |      |           |   |
| B19.4.5                          |              | 1) 100 mm width                                                                                       | m    | 10  |      |           |   |
| B19.4.6                          |              | c) White charaters and symbols                                                                        | m²   | 1   |      |           |   |
| B19.4.7                          |              | d) Yellow charaters and symbols                                                                       | m²   | 1   |      |           |   |
| B19.5                            | SANS 1200 MK | KERBING AND CHANNELLING                                                                               |      |     |      |           |   |
|                                  | 8.2.1        | Concrete Kerbing (25 MPa) (as per detail drawing 23-OVM-003/G702)                                     |      |     |      |           |   |
| B19.5.1                          |              | a) Type BK2 Kerbing with radius smaller than 20m                                                      | m    | 6   |      |           |   |
| B19.5.2                          |              | b) Type BK2 Kerbing with radius greater than 20m                                                      | m    | 13  |      |           |   |
| B19.5.3                          |              | c) Type MK10 Kerbing with radius smaller than 20m                                                     | m    |     |      | Rate Only |   |
| B19.5.4                          |              | d) Type MK10 Kerbing with radius greater than 20m                                                     | m    | 8   |      |           |   |
| B19.5.5                          |              | e) Type E1 Kerbing with radius smaller than 20m                                                       | m    | 20  |      |           |   |
| B19.5.6                          |              | f) Type E1 Kerbing with radius greater than 20m                                                       | m    | 40  |      |           |   |
|                                  | 8.2.6        | Ancilliaries                                                                                          |      |     |      |           |   |
| B19.5.7                          | 8.2.6.1      | Construct 1 m - 2 m long, 25 Mpa cast-in-situ kerbing transition sections between transitioning kerbs | No.  | 2   |      |           |   |
| Total Carried Forward To Summary |              |                                                                                                       |      |     |      |           |   |

**SUMMARY OF SECTIONS**

| SECTION                                       | DESCRIPTION                                          | AMOUNT<br>(RAND) |
|-----------------------------------------------|------------------------------------------------------|------------------|
| B1                                            | SECTION B1: SITE CLEARANCE                           | .....            |
| B2                                            | SECTION B2: EARTHWORKS                               | .....            |
| B3                                            | SECTION B3: CONCRETE (STRUCTURAL)                    | .....            |
| B4                                            | SECTION B4: MASONRY                                  | .....            |
| B5                                            | SECTION B5: WATERPROOFING                            | .....            |
| B6                                            | SECTION B6: ROOF COVERINGS                           | .....            |
| B7                                            | SECTION B7: CARPENTRY AND JOINERY                    | .....            |
| B8                                            | SECTION B8: CEILINGS, PARTITIONS AND ACCESS FLOORING | .....            |
| B9                                            | SECTION B9: FLOOR COVERINGS, WALL LININGS, ETC       | .....            |
| B10                                           | SECTION B10: METALWORK                               | .....            |
| B11                                           | SECTION B11: PLASTERING                              | .....            |
| B12                                           | SECTION B12: TILING                                  | .....            |
| B13                                           | SECTION B13: PLUMBING AND DRAINAGE                   | .....            |
| B14                                           | SECTION B14: GLAZING                                 | .....            |
| B15                                           | SECTION B15: PAINTWORK                               | .....            |
| B16                                           | SECTION B16: ELECTRICAL WORK                         | .....            |
| B17                                           | SECTION B17: SEWER RETICULATION                      | .....            |
| B18                                           | SECTION B18: STORMWATER DRAINAGE                     | .....            |
| B19                                           | SECTION B19: ROADWORKS                               | .....            |
| Total Carried Forward To Summary Of Schedules |                                                      | .....            |

**SECTION C1: SITE CLEARANCE**

| ITEM NO                          | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                           | UNIT | QTY | RATE | AMOUNT |   |
|----------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                                  |             |                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      | R      | c |
| C1                               | SANS 1200 C | SITE CLEARANCE                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
| C1.1                             |             | CLEAR SITE                                                                                                                                                                                                                                                                                                                                                                                            |      |     |      |        |   |
| C1.1.1                           | PSC 8.2.1   | Clear and grub Site (including hauling to licensed dumping site and dumping levy)                                                                                                                                                                                                                                                                                                                     | m²   | 290 |      |        |   |
|                                  | 8.2.2       | Remove and grub large trees and tree stumps of girth                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
| C1.1.2                           |             | a) over 1 m and up to and including 2 m                                                                                                                                                                                                                                                                                                                                                               | No.  | 1   |      |        |   |
| C1.1.3                           | PSC 8.2.2   | Removal of trees of endangered species (Melkhoutboom / Sideroxylon inerme)                                                                                                                                                                                                                                                                                                                            | No.  | 1   |      |        |   |
| C1.1.4                           | PSC 8.2.2   | Trimming of trees of endangered species (Melkhoutboom / Sideroxylon inerme)                                                                                                                                                                                                                                                                                                                           | No.  | 1   |      |        |   |
|                                  | 8.2.5       | Take down existing fences                                                                                                                                                                                                                                                                                                                                                                             |      |     |      |        |   |
| C1.1.5                           |             | Steel diamond mesh fence 2.2 m high with steel posts and droppers                                                                                                                                                                                                                                                                                                                                     | m    | 40  |      |        |   |
| C1.1.6                           |             | Steel wire gate with frame 3,6 x 1,8 m high fixed to existing fence, including replacing with new steel fence (steel fence elsewhere)                                                                                                                                                                                                                                                                 | No.  | 1   |      |        |   |
|                                  | 8.2.8       | Demolish and remove structures/buildings and dismantle steelwork, etc.                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
| C1.1.7                           |             | Timber single door and frame 813 x 2,032mm high overall from half brick wall                                                                                                                                                                                                                                                                                                                          | No.  | 1   |      |        |   |
| C1.1.8                           |             | Vinyl tile floor covering                                                                                                                                                                                                                                                                                                                                                                             | m²   | 194 |      |        |   |
| C1.1.9                           |             | Cutting through 100mm Thick reinforced concrete surface bed for 600mm wide concrete wall footings and making good concrete on both sides of new one brick walls                                                                                                                                                                                                                                       | m    | 9   |      |        |   |
| C1.1.10                          |             | Altering opening in half brick wall where 1,000 x 1,200m high steel window removed to form opening for new timber window and frame 1,800 x 1,200m high overall by breaking out brickwork on both sides, including making good cement plaster on both sides and into reveals and with 20 MPa concrete threshold with steel trowelled finish (new window and frame and making good paintwork elsewhere) | No.  | 1   |      |        |   |
| C1.1.11                          |             | Opening 813 x 2,032mm high through half brick wall                                                                                                                                                                                                                                                                                                                                                    | No.  | 1   |      |        |   |
| C1.1.12                          |             | Opening 1,800 x 2,100mm high through half brick wall                                                                                                                                                                                                                                                                                                                                                  | No.  | 1   |      |        |   |
| C1.1.13                          |             | Opening for door with timber frame 813 x 2,032mm high overall through one brick wall                                                                                                                                                                                                                                                                                                                  | No.  | 1   |      |        |   |
| Total Carried Forward To Summary |             |                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |

**SECTION C2: EARTHWORKS**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |              |                                                                                                                                            |                |     |      | R      | c |
| C2                    | SANS 1200 DA | EARTHWORKS (small works)                                                                                                                   |                |     |      |        |   |
|                       | 8.3.1        | Excavation                                                                                                                                 |                |     |      |        |   |
| C2.1                  |              | a) Remove topsoil to nominal depth 150 mm, stockpile, and maintain                                                                         | m <sup>2</sup> | 290 |      |        |   |
|                       |              | b) Excavate in all materials and use for embankment or backfill or dispose, as ordered                                                     |                |     |      |        |   |
|                       |              | To reduced levels under floors                                                                                                             |                |     |      |        |   |
| C2.2                  |              | i) Cut to Fill and compact to 93% MOD AASHTO density in layers not exceeding 150 mm                                                        | m <sup>3</sup> | 13  |      |        |   |
| C2.3                  |              | ii) Cut to Spoil                                                                                                                           | m <sup>3</sup> | 25  |      |        |   |
| C2.4                  |              | iii) Cut to Stockpile and maintain                                                                                                         | m <sup>3</sup> | 5   |      |        |   |
| C2.5                  |              | iv) Stockpile to Fill and compact to 93% MOD AASHTO density in layers not exceeding 150 mm                                                 | m <sup>3</sup> | 5   |      |        |   |
|                       |              | c) Extra-over for                                                                                                                          |                |     |      |        |   |
| C2.6                  |              | 2) Hard rock excavation                                                                                                                    | m <sup>3</sup> | 2   |      |        |   |
|                       | 8.3.2        | Restricted Excavation                                                                                                                      |                |     |      |        |   |
|                       |              | a) Excavate for restricted foundations, footings and trenches in all materials and use for backfill or embankment or dispose, as directed: |                |     |      |        |   |
| C2.7                  |              | Strip-footings not exceeding 2.0 m deep                                                                                                    | m <sup>3</sup> | 91  |      |        |   |
|                       |              | b) Extra-over for                                                                                                                          |                |     |      |        |   |
| C2.8                  |              | 2) Hard rock excavation                                                                                                                    | m <sup>3</sup> | 20  |      |        |   |
|                       | 8.3.4        | Importing of materials from borrow pits                                                                                                    |                |     |      |        |   |
|                       |              | Under concrete surface beds                                                                                                                |                |     |      |        |   |
| C2.9                  |              | i) G9 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                          | m <sup>3</sup> | 20  |      |        |   |
| C2.10                 |              | ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                         | m <sup>3</sup> | 5   |      |        |   |
|                       | 8.3.4        | Importing of materials from commercial sources                                                                                             |                |     |      |        |   |
|                       |              | Under concrete surface beds                                                                                                                |                |     |      |        |   |
| C2.11                 |              | i) G9 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                          | m <sup>3</sup> | 110 |      |        |   |
| C2.12                 |              | ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                         | m <sup>3</sup> | 40  |      |        |   |
| Total Carried Forward |              |                                                                                                                                            |                |     |      |        |   |

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

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119.66

**SECTION C3: CONCRETE (STRUCTURAL)**

| ITEM NO               | PAYMENT    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNIT           | QTY | RATE | AMOUNT    |   |
|-----------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|-----------|---|
|                       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |     |      | R         | c |
| C3                    |            | CONCRETE (STRUCTURAL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |     |      |           |   |
| C3.1                  |            | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |     |      |           |   |
|                       |            | Engineering specifications: The contractor is referred to the engineer's general notes and specifications attached to these bills of quantities and must allow for all costs deemed to be incurred in complying with the aforementioned specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |     |      |           |   |
|                       |            | Formwork: Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" |                |     |      |           |   |
| C3.2                  | SANS1200 G | UNREINFORCED CONCRETE CAST AGAINST BRICKWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |     |      |           |   |
|                       | 8.4.2      | Blinding layer in 15 MPa/19 mm concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |     |      |           |   |
| C3.2.1                |            | 50 mm minimum thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m <sup>2</sup> | 6   |      | Rate Only |   |
|                       | 8.4.3      | Strength concrete: Grade 20 MPa/19 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |     |      |           |   |
| C3.2.2                |            | Filling to cavity of hollow walls (hollow walls elsewhere)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | m <sup>3</sup> | 2   |      |           |   |
| C3.3                  | SANS1200 G | REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |     |      |           |   |
|                       | 8.4.3      | 25MPa/19mm concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |     |      |           |   |
| C3.3.1                |            | Strip footings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | m <sup>3</sup> | 28  |      |           |   |
| C3.3.2                |            | Surface beds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | m <sup>3</sup> | 33  |      |           |   |
| C3.3.3                |            | Ramps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | m <sup>3</sup> | 3   |      |           |   |
| C3.3.4                |            | Steps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | m <sup>3</sup> | 2   |      |           |   |
| C3.4                  | 8.2        | SCHEDULED FORMWORK ITEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |     |      |           |   |
| Total Carried Forward |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |     |      |           |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

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119.68

**SECTION C4: MASONRY**

| ITEM NO               | PAYMENT    | DESCRIPTION                                                                                                                                                                                              | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |            |                                                                                                                                                                                                          |                |     |      | R      | c |
| C4                    |            | MASONRY                                                                                                                                                                                                  |                |     |      |        |   |
| C4.1                  |            | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                  |                |     |      |        |   |
| C4.2                  |            | BRICKWORK                                                                                                                                                                                                |                |     |      |        |   |
| C4.2.1                |            | Brick structures complete according to details specified in the drawings. In the event of discrepancies between the BOQ and the drawings , details in the drawings will govern.                          |                |     |      |        |   |
| C4.2.2                |            | All brickwork shall be hard clay bricks with compressive strength of 14MPa and must comply with the requirements. Mortar Class I in accordance with SANS 0164 shall be used throughout in all brickwork. |                |     |      |        |   |
|                       |            | Sizes in descriptions: Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.                                               |                |     |      |        |   |
|                       |            | Hollow walls etc: Descriptions of hollow walls shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weephole.                        |                |     |      |        |   |
| C4.3                  |            | FOUNDATIONS                                                                                                                                                                                              |                |     |      |        |   |
| C4.3.1                |            | i) One brick Walls - 230mm wide solid clay NFP to SABS 277                                                                                                                                               | m <sup>2</sup> | 49  |      |        |   |
| C4.3.2                |            | ii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277                                                                                                                      | m <sup>2</sup> | 41  |      |        |   |
| C4.4                  |            | SUPERSTRUCTURE                                                                                                                                                                                           |                |     |      |        |   |
| C4.4.1                |            | i) Half brick walls - 115mm wide solid clay NFP SABS 277                                                                                                                                                 | m <sup>2</sup> | 67  |      |        |   |
| C4.4.2                |            | ii) One brick Walls - 230mm wide solid clay NFP to SABS 277                                                                                                                                              | m <sup>2</sup> | 139 |      |        |   |
| C4.4.3                |            | iii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277                                                                                                                     | m <sup>2</sup> | 207 |      |        |   |
| C4.5                  |            | BRICKWORK SUNDRIES                                                                                                                                                                                       |                |     |      |        |   |
| C4.5.1                |            | i) Splayed mortar fillets one course high in 50mm cavities                                                                                                                                               | m              | 75  |      |        |   |
| C4.5.2                |            | ii) Closing 50mm cavity of hollow wall vertically with brickwork half brick wide                                                                                                                         | m              | 46  |      |        |   |
| C4.5.3                |            | iii) Closing 50mm cavity of hollow wall horizontally with one course of brickwork                                                                                                                        | m              | 46  |      |        |   |
| C4.6                  | PSBW 6.2.3 | BAGGING                                                                                                                                                                                                  |                |     |      |        |   |
|                       |            | Bagging of 1:3 cement and sand mixture                                                                                                                                                                   |                |     |      |        |   |
| C4.6.1                |            | On brick walls, piers, etc                                                                                                                                                                               | m <sup>2</sup> | 41  |      |        |   |
| Total Carried Forward |            |                                                                                                                                                                                                          |                |     |      |        |   |



**CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH**  
TENDER  
SCHEDULE C: MASAKHANE - GANSBAAI

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## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

Total Carried Forward To Summary

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

**SECTION C7: CARPENTRY AND JOINERY**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                              | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                          |      |     |      | R      | c |
| C7                    |             | CARPENTRY AND JOINERY                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
| C7.1                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Fixing: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere. |      |     |      |        |   |
|                       |             | Joinery: Descriptions of frames shall be deemed to include frames, transomes, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.                                                                                                                                                           |      |     |      |        |   |
| C7.2                  | PSBW 6.2.11 | ROOFS ETC                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |             | Making good roof coverings                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |
| C7.2.1                |             | Tie new roof into existing and making good finishes                                                                                                                                                                                                                                                                                      | m    | 7   |      |        |   |
|                       |             | Wrought softwood                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
| C7.2.2                |             | 44 x 144mm Bearers bolted                                                                                                                                                                                                                                                                                                                | m    | 17  |      |        |   |
| C7.3                  |             | PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC                                                                                                                                                                                                                                                                                          |      |     |      |        |   |
| C7.4                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Design Responsibility                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
|                       |             | The contractor shall be responsible for the design of the timber roof construction. The contractor will submit shop drawings for approval to the principal agent. The contractor shall commence manufacturing only after written approval of shop drawings from the principal agent.                                                     |      |     |      |        |   |
|                       |             | Trusses are at maximum 1,500mm centres.                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Roof coverings are IBR metal profiled fixed sheeting on purlins (sheeting measured elsewhere).                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |             | Ceilings are 6.4mm gypsum plasterboard on 38 x 38mm branderling (ceilings measured elsewhere).                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |             | Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences.                                                                                                                                                    |      |     |      |        |   |
|                       |             | All exposed wood of roof construction to be Carbolinuem treated                                                                                                                                                                                                                                                                          |      |     |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                          |      |     |      |        |   |

**SECTION C7: CARPENTRY AND JOINERY**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                     | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                 |      |     |      | R      | c |
| Brought Forward       |             |                                                                                                                                                                                                                                                                                 |      |     |      |        |   |
| C7.4.1                |             | 38 x 114mm Wall plates                                                                                                                                                                                                                                                          | m    | 49  |      |        |   |
| C7.4.2                |             | Roof construction to double pitched roof 21 x 7.5m with double valley intersections including 9.2 x 8.1m double pitched projection, including trusses, jack rafters, permanent bracing and 76 x 50mm purlins at maximum 500mm centres for roof covering (wall plates elsewhere) | No.  | 1   |      |        |   |
| C7.4.3                |             | Extra over for wrought splayed purlins at eaves                                                                                                                                                                                                                                 | m    | 49  |      |        |   |
| C7.4.4                |             | Extra over for 750mm long wrought rafter foot                                                                                                                                                                                                                                   | No.  | 78  |      |        |   |
| C7.5                  | PSBW 6.2.13 | EAVES, VERGES, ETC                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |             | Medium density plain fibre-cement fascias and barge boards                                                                                                                                                                                                                      |      |     |      |        |   |
| C7.5.1                |             | 12 x 225mm Fibre cement fascias and barge boards                                                                                                                                                                                                                                | m    | 80  |      |        |   |
| C7.6                  | PSBW 6.2.17 | SKIRTINGS                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |             | Wrought meranti                                                                                                                                                                                                                                                                 |      |     |      |        |   |
| C7.6.1                |             | 22 x 90mm Skirtings, plugged                                                                                                                                                                                                                                                    | m    | 443 |      |        |   |
| C7.7                  | PSBW 6.2.17 | DOORS ETC                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |             | Standard hollow core flush doors with 3,2mm plain hardboard covering on both sides                                                                                                                                                                                              |      |     |      |        |   |
| C7.7.1                |             | 40mm Door 813 x 2,034mm high - D2                                                                                                                                                                                                                                               | No.  | 7   |      |        |   |
|                       |             | Wrought "Swartland Kayo KYD1" doors or similar and approved                                                                                                                                                                                                                     |      |     |      |        |   |
| C7.7.2                |             | 44mm Framed and ledged batten door 813 x 2,032mm high - D1                                                                                                                                                                                                                      | No.  | 4   |      |        |   |
| C7.7.3                |             | 44mm Framed and ledged batten double door 1,613 x 2,032mm high - D3/D4                                                                                                                                                                                                          | No.  | 3   |      |        |   |
| C7.8                  | PSBW 6.2.17 | FRAMED FRAMES ETC                                                                                                                                                                                                                                                               |      |     |      |        |   |
|                       |             | Wrought "Swartland Kayo HC3014M" or similar and approved                                                                                                                                                                                                                        |      |     |      |        |   |
| C7.8.1                |             | 86 x 53mm Rebated frames, plugged - D1/D2                                                                                                                                                                                                                                       | m    | 65  |      |        |   |
|                       |             | Wrought "Swartland Kayo HC3026M" or similar and approved                                                                                                                                                                                                                        |      |     |      |        |   |
| C7.8.2                |             | 86 x 53mm Rebated frames, plugged - D3/D4                                                                                                                                                                                                                                       | m    | 6   |      |        |   |
| C7.9                  | PSBW 6.2.17 | WINDOWS                                                                                                                                                                                                                                                                         |      |     |      |        |   |
|                       |             | Wrought meranti windows including glazing, beads, etc as per window schedule                                                                                                                                                                                                    |      |     |      |        |   |
| C7.9.1                |             | Window type PT66, 600 x 600mm high - W1                                                                                                                                                                                                                                         | No.  | 1   |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                 |      |     |      |        |   |

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

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119.75

**SECTION C8: CIELINGS, PARTITIONS AND ACCESS FLOORING**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                              | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                          |                |     |      | R      | c |
| C8                    |             | CEILINGS, PARTITIONS AND ACCESS FLOORING                                                                                                                                                                                                                                                                                                 |                |     |      |        |   |
| C8.1                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |                |     |      |        |   |
|                       |             | Fixing: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere. |                |     |      |        |   |
|                       |             | Ceilings: Unless otherwise described ceilings shall be deemed to be horizontal.                                                                                                                                                                                                                                                          |                |     |      |        |   |
|                       |             | Steel components: All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121.                                                                                                                                                                                                                  |                |     |      |        |   |
| C8.2                  | PSBW 6.2.16 | CEILING INSULATION                                                                                                                                                                                                                                                                                                                       |                |     |      |        |   |
|                       |             | Isotherm insulation or similar approved.                                                                                                                                                                                                                                                                                                 |                |     |      |        |   |
| C8.2.1                |             | 100mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of branderling between roof timbers etc                                                                                                                                                                                                       | m <sup>2</sup> | 258 |      |        |   |
| C8.3                  | PSBW 6.2.15 | NAILED-UP CEILINGS                                                                                                                                                                                                                                                                                                                       |                |     |      |        |   |
| C8.4                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |                |     |      |        |   |
|                       |             | Openings                                                                                                                                                                                                                                                                                                                                 |                |     |      |        |   |
|                       |             | Prices for openings for light fittings, ventilation grilles, air-conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc.                                                                                                                                                                  |                |     |      |        |   |
|                       |             | 6,4mm Gypsum plasterboard with taped joints and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer.                                                                                                                                                          |                |     |      |        |   |
| C8.4.1                |             | Ceilings including 38 x 38mm sawn softwood branderling at 450mm centres and cross branderling at 600mm centres                                                                                                                                                                                                                           | m <sup>2</sup> | 258 |      |        |   |
| C8.4.2                |             | Extra over ceiling for 900 x 900mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around                                                                                                                           | No.            | 4   |      |        |   |
|                       |             | 4mm Nutec fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips                                                                                                                                                                                                                                              |                |     |      |        |   |
| C8.4.3                |             | Ceilings including 38 x 38mm sawn softwood branderling at 450mm centres generally in one direction and cross branders at 600mm centres at joints and edges of boards                                                                                                                                                                     | m <sup>2</sup> | 40  |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                          |                |     |      |        |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE C: MASAKHANE - GANSBAAI

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119.77



## SCHEDULE C: MASAKHANE - GANSBAAI

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119.78

**SECTION C10: METALWORK**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                             | UNIT | QTY | RATE | AMOUNT    |   |
|-----------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                                         |      |     |      | R         | c |
| C10                   | PSBW 6.2.18 | METALWORK                                                                                                                                                                                                                                                                                                                                               |      |     |      |           |   |
| C10.1                 |             | WINDOWS                                                                                                                                                                                                                                                                                                                                                 |      |     |      |           |   |
|                       |             | Natural anodized aluminium windows to a thickness of 25micron with laminated safety glass for windows                                                                                                                                                                                                                                                   |      |     |      |           |   |
| C10.1.1               |             | Window 600 x 600mm high - W1                                                                                                                                                                                                                                                                                                                            | No.  |     |      | Rate Only |   |
| C10.1.2               |             | Window 900 x 1200mm high - W2                                                                                                                                                                                                                                                                                                                           | No.  |     |      | Rate Only |   |
| C10.1.3               |             | Window 1800 x 600mm high - W3                                                                                                                                                                                                                                                                                                                           | No.  |     |      | Rate Only |   |
| C10.1.4               |             | Window 1800 x 1200mm high - W4                                                                                                                                                                                                                                                                                                                          | No.  |     |      | Rate Only |   |
| C10.2                 |             | GALVANISED STEEL GATES, SCREENS, ETC                                                                                                                                                                                                                                                                                                                    |      |     |      |           |   |
|                       |             | Welded screens and gates to windows of 35 x 35 x 3mm angle outer frame and 35 x 3mm flat section bracing, filled with "Mentex 118/VEM 315F" or similar approved expanded metal mesh spot welded to frame and bracing, with 32 x 32 x 2.5mm hollow section supports welded onto outer frame and build epoxy fixed 100mm deep into brickwork for windows: |      |     |      |           |   |
| C10.2.1               |             | Window type PT66, 600 x 600mm high - W1                                                                                                                                                                                                                                                                                                                 | No.  | 1   |      |           |   |
| C10.2.2               |             | Window type PT912, 900 x 1200mm high - W2                                                                                                                                                                                                                                                                                                               | No.  | 15  |      |           |   |
| C10.2.3               |             | Window type PT186, 1800 x 600mm high - W3                                                                                                                                                                                                                                                                                                               | No.  | 3   |      |           |   |
| C10.2.4               |             | Window type PT1812, 1800 x 1200mm high - W4                                                                                                                                                                                                                                                                                                             | No.  | 2   |      |           |   |
| C10.3                 |             | GALVANISED PRESSED STEEL DOOR FRAMES                                                                                                                                                                                                                                                                                                                    |      |     |      |           |   |
|                       |             | 1,2mm Double rebated frames suitable for one brick walls                                                                                                                                                                                                                                                                                                |      |     |      |           |   |
| C10.3.1               |             | Frame for door 813 x 2032mm high                                                                                                                                                                                                                                                                                                                        | No.  |     |      | Rate Only |   |
| C10.4                 |             | FENCING                                                                                                                                                                                                                                                                                                                                                 |      |     |      |           |   |
|                       |             | Galvanised wired mesh fence with timber posts, including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground                                                                                                                                                                                                     |      |     |      |           |   |
| C10.4.1               |             | Fence 1.8m high of galvanised wired mesh fixed to 150mm diameter timber posts at 2,500mm centres with steel wire etc including excavation, backfilling and concrete for bases                                                                                                                                                                           | m    | 27  |      |           |   |
| C10.4.2               |             | Galvanised steel gate 813 x 1800mm high fixed to 150 x 150mm timber posts on both sides and filled in with galvanised wired mesh, including hinges, spring latch with catch, etc                                                                                                                                                                        | No.  | 2   |      |           |   |
| C10.5                 | SANS 1200 H | STRUCTURAL STEELWORK                                                                                                                                                                                                                                                                                                                                    |      |     |      |           |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                                         |      |     |      |           |   |

| ITEM NO                          | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                  | UNIT | QTY | RATE | AMOUNT |   |
|----------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                                  |         |                                                                                                                                                                                                                                                                                                                                                                              |      |     |      | R      | c |
| Brought Forward                  |         |                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
| C10.6                            |         | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                                  |         | Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Descriptions of expansion anchors and bolts, and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. |      |     |      |        |   |
|                                  |         | All structural steelwork shall be Grade S355JR                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |
|                                  |         | Contractor to provide steel workshop drawings                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
| C10.7                            |         | GALVANISED STEEL COLUMNS AND BEAMS                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                                  |         | Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete.                                                                                                                                                                                                                                                                      |      |     |      |        |   |
| C10.7.1                          |         | 100mm Diameter x 5mm thick circular hollow section columns                                                                                                                                                                                                                                                                                                                   | kg   | 164 |      |        |   |
| C10.8                            |         | BOLTS, FASTENERS, ETC                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
| C10.8.1                          |         | 12mm Diameter chemical anchor                                                                                                                                                                                                                                                                                                                                                | No.  | 10  |      |        |   |
| C10.9                            |         | IRONMONGERY                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                                  |         | Fixing of ironmongery to wooden doors                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
| C10.9.1                          |         | 100mm Hinge                                                                                                                                                                                                                                                                                                                                                                  | No.  | 28  |      |        |   |
| C10.9.2                          |         | Flush bolt                                                                                                                                                                                                                                                                                                                                                                   | No.  | 5   |      |        |   |
| C10.9.3                          |         | Mortice deadlock                                                                                                                                                                                                                                                                                                                                                             | No.  | 14  |      |        |   |
| C10.9.4                          |         | Approximately 150mm door handle                                                                                                                                                                                                                                                                                                                                              | No.  | 14  |      |        |   |
| C10.9.5                          |         | Door stop, plugged                                                                                                                                                                                                                                                                                                                                                           | No.  | 14  |      |        |   |
|                                  |         | Fixing of ironmongery to brickwork                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
| C10.9.6                          |         | Toilet roll holders                                                                                                                                                                                                                                                                                                                                                          | No.  | 4   |      |        |   |
| C10.9.7                          |         | Soap dishes                                                                                                                                                                                                                                                                                                                                                                  | No.  | 5   |      |        |   |
| C10.9.8                          |         | Towl rails                                                                                                                                                                                                                                                                                                                                                                   | No.  | 5   |      |        |   |
| C10.10                           |         | SAFETY GATES                                                                                                                                                                                                                                                                                                                                                                 |      |     |      |        |   |
|                                  |         | Supply and Install Xpanda Saftidor (or similar approved)                                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
| C10.10.1                         |         | B Slamlock security gate, white 1000mm x 2100mm high, single external doors                                                                                                                                                                                                                                                                                                  | No.  | 4   |      |        |   |
| C10.10.2                         |         | F Slamlock security gate, white 1600mm x 2100mm high, double external doors                                                                                                                                                                                                                                                                                                  | No.  | 3   |      |        |   |
| Total Carried Forward To Summary |         |                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

Total Carried Forward To Summary

**SECTION C13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                   | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      | R      | c |
| C13                   |         | PLUMBING AND DRAINAGE                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
| C13.1                 |         | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Stormwater channels                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc and disposal of surplus material on site.                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | Stainless steel basins, sinks, wash troughs, urinals, etc                                                                                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |         | Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.             |      |     |      |        |   |
|                       |         | Sealing of edges                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone.                                                                                                                                                                                                                                                                                                          |      |     |      |        |   |
|                       |         | uPVC pipes and fittings                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings.                                                                                                                                                                                                                            |      |     |      |        |   |
|                       |         | uPVC pressure pipes and fittings                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.                                                                                             |      |     |      |        |   |
|                       |         | Polycop polypropylene pipes                                                                                                                                                                                                                                                                                                                                                                                                   |      |     |      |        |   |
|                       |         | Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions. |      |     |      |        |   |
|                       |         | Copper pipes                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |

**SECTION C13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
|                       |         | Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. |      |     |      |        |   |
|                       |         | Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition.                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Reducing fittings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained.                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Fixing of pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
|                       |         | Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc casting in, building in or suspending not exceeding 1m below suspension level.                                                                                                                                                                                                                                                                                                             |      |     |      |        |   |
|                       |         | Paper wrapping to pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |         | Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings.                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
|                       |         | Disinfection of water pipework                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
|                       |         | Water pipework is to be disinfected at completion in accordance with SANS 1200L (provision for disinfection elsewhere).                                                                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |         | Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 55% overlaps Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc.                                                                                                                                                                                |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |

**SECTION C13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |
|                       |         | Prices for wrapping of pipes shall include for all work as described to couplings in the length.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Laying, backfilling, bedding, etc of pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
|                       |         | Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled.                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |         | Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SANS 1200L: Medium-pressure pipelines SANS 1200LD : Sewers SANS 1200LE: Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB: Earthworks (Pipe trenches)Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB : Bedding (Pipes)Unless otherwise described, bedding of rigid pipes shall be Class B bedding. |      |     |      |        |   |
|                       |         | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends.                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc. shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site.                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |         | Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc. and to steel pipes (adaptors for connections to copper pipes, etc are given separately).                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured).                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | As-built drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |      |        |   |
|                       |         | Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere).                                                                                                                                                                                                                                                 |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |



**SECTION C13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT                                                                                                             | DESCRIPTION                                                                       | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |                                                                                                                     |                                                                                   |      |     |      | R      | c |
| Brought Forward       |                                                                                                                     |                                                                                   |      |     |      |        |   |
| C13.2                 | PSBW 6.2.14                                                                                                         | RAINWATER DISPOSAL                                                                |      |     |      |        |   |
|                       |                                                                                                                     | uPVC gutters and rain water pipes                                                 |      |     |      |        |   |
| C13.2.1               |                                                                                                                     | 150 x 125 x 100mm VHV roof gutters                                                | m    | 49  |      |        |   |
| C13.2.2               |                                                                                                                     | Extra over gutter for stopped end                                                 | No.  | 5   |      |        |   |
| C13.2.3               |                                                                                                                     | Extra over gutter for angle                                                       | No.  | 1   |      |        |   |
| C13.2.4               |                                                                                                                     | Extra over gutter for outlet for 80mm pipe                                        | No.  | 5   |      |        |   |
| C13.2.5               |                                                                                                                     | 80mm Diameter rainwater pipes                                                     | m    | 17  |      |        |   |
| C13.2.6               |                                                                                                                     | Extra over rainwater pipe for bend                                                | No.  | 5   |      |        |   |
| C13.2.7               |                                                                                                                     | Extra over rainwater pipe for shoe                                                | No.  | 5   |      |        |   |
| C13.2.8               |                                                                                                                     | Extra over rainwater pipe for eaves or plinth offset                              | No.  | 5   |      |        |   |
| C13.3                 |                                                                                                                     | STORMWATER CHANNELS                                                               |      |     |      |        |   |
|                       |                                                                                                                     | Precast concrete channels                                                         |      |     |      |        |   |
| C13.3.1               |                                                                                                                     | 200 x 90mm Channels with 105 x 50mm deep segmental channel                        | m    | 49  |      |        |   |
| C13.3.2               |                                                                                                                     | Extra over for angles, intersections, ends, dressing into sides of catchpits, etc | No.  | 2   |      |        |   |
| C13.4                 |                                                                                                                     | SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES, ETC                                  |      |     |      |        |   |
|                       |                                                                                                                     | uPVC SV pipes                                                                     |      |     |      |        |   |
| C13.4.1               | Set of two 110mm pipes laid side-by-side in and including trenches not exceeding 1m deep                            | m                                                                                 | 32   |     |      |        |   |
|                       | Extra over uPVC SV pipes for fittings                                                                               |                                                                                   |      |     |      |        |   |
| C13.4.2               | 110mm Bend                                                                                                          | No.                                                                               | 3    |     |      |        |   |
|                       | Draw wires                                                                                                          |                                                                                   |      |     |      |        |   |
| C13.4.3               | 1,6mm Galvanised steel draw wires in pipes                                                                          | m                                                                                 | 65   |     |      |        |   |
|                       | Inspection chambers                                                                                                 |                                                                                   |      |     |      |        |   |
| C13.4.4               | 800 x 800mm Brick inspection chamber 750mm deep internally, including precast concrete cover slab (cover elsewhere) | m                                                                                 | 2    |     |      |        |   |
|                       | Cast iron covers, etc.                                                                                              |                                                                                   |      |     |      |        |   |
| C13.4.5               | 600 x 600mm Cast iron single seal manhole cover and frame                                                           | No.                                                                               | 2    |     |      |        |   |
| C13.5                 | SOIL DRAINAGE                                                                                                       |                                                                                   |      |     |      |        |   |
| Total Carried Forward |                                                                                                                     |                                                                                   |      |     |      |        |   |

**SECTION C13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                  | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|--------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                              |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                              |      |     |      |        |   |
|                       |         | Heavy duty (Class 34) uPVC sewer and drain pipes                                                             |      |     |      |        |   |
| C13.5.1               |         | 110mm Pipes vertically or ramped to cleaning eyes, etc (no excavation)                                       | m    | 6   |      |        |   |
| C13.5.2               |         | 110mm Pipes laid in and including trenches not exceeding 1m deep                                             | m    | 55  |      |        |   |
|                       |         | Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings                                     |      |     |      |        |   |
| C13.5.3               |         | 110mm Bend                                                                                                   | No.  | 20  |      |        |   |
| C13.5.4               |         | 110mm Junction                                                                                               | No.  | 2   |      |        |   |
| C13.5.5               |         | 110mm Access bend                                                                                            | No.  | 2   |      |        |   |
| C13.5.6               |         | 110mm Rodding eye                                                                                            | No.  | 2   |      |        |   |
|                       |         | uPVC gulleys                                                                                                 |      |     |      |        |   |
| C13.5.7               |         | 110mm Gulley not exceeding 500mm deep                                                                        | No.  | 2   |      |        |   |
|                       |         | Brick inspection chambers including precast concrete cover slabs (covers elsewhere) and channels in benching |      |     |      |        |   |
| C13.5.8               |         | 900 x 900mm Inspection chamber not exceeding 1m deep internally                                              | No.  | 1   |      |        |   |
|                       |         | Cast iron covers, etc.                                                                                       |      |     |      |        |   |
| C13.5.9               |         | 900 x 900mm Double seal manhole cover and frame                                                              | No.  | 1   |      |        |   |
| C13.6                 |         | SUNDRIES                                                                                                     |      |     |      |        |   |
| C13.6.1               |         | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock                  | m³   | 14  |      |        |   |
| C13.6.2               |         | Concrete encasing to 110mm horizontal pipes                                                                  | m    | 6   |      |        |   |
| C13.6.3               |         | 350 x 350 x 50mm Precast concrete inspection eye marker slab set in ground                                   | No.  | 2   |      |        |   |
| C13.6.4               |         | Cutting into existing 160mm drain pipe for and forming junction with 110mm pipe                              | No.  | 1   |      |        |   |
|                       |         | Testing                                                                                                      |      |     |      |        |   |
| C13.6.5               |         | Testing soil drainage system                                                                                 | No.  | 1   |      |        |   |
| C13.7                 |         | SANITARY FITTINGS                                                                                            |      |     |      |        |   |
| C13.7.1               |         | Wash hand basin on cupboard (PC R 1,000/No)                                                                  | No.  | 3   |      |        |   |
| C13.7.2               |         | Wash hand basin wall hung (PC R 1,500/No)                                                                    | No.  | 2   |      |        |   |
| C13.7.3               |         | WC suite with cistern and seat (PC R 1,500/No)                                                               | No.  | 4   |      |        |   |
| Total Carried Forward |         |                                                                                                              |      |     |      |        |   |

**SECTION C13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                       | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|-----------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                   |      |     |      | R      | c |
| Brought Forward       |         |                                                                                   |      |     |      |        |   |
| C13.7.4               |         | Wall urinal with spreader and waste union (flush valve elsewhere) (PC R1,000/No)  | No.  | 2   |      |        |   |
|                       |         | Stainless steel                                                                   |      |     |      |        |   |
| C13.7.5               |         | Double sink (PC R 1,500/No)                                                       | No.  | 1   |      |        |   |
| C13.8                 |         | WASTE UNIONS ETC                                                                  |      |     |      |        |   |
|                       |         | Chrome plated                                                                     |      |     |      |        |   |
| C13.8.1               |         | 32mm Basin waste union                                                            | No.  | 5   |      |        |   |
| C13.8.2               |         | 40mm Basin waste union                                                            | No.  | 1   |      |        |   |
| C13.9                 |         | TRAPS ETC                                                                         |      |     |      |        |   |
|                       |         | Rubber                                                                            |      |     |      |        |   |
| C13.9.1               |         | 40mm S trap                                                                       | No.  | 3   |      |        |   |
| C13.9.2               |         | 40mm Double bowl wash trough or sink reseal "P" or "S" trap combination           | No.  | 1   |      |        |   |
|                       |         | Chrome plated                                                                     |      |     |      |        |   |
| C13.9.3               |         | 32mm CP bottle trap                                                               | No.  | 4   |      |        |   |
| C13.10                |         | TAPS, VALVES, ETC                                                                 |      |     |      |        |   |
|                       |         | Brass                                                                             |      |     |      |        |   |
| C13.10.1              |         | 22mm Stopcock                                                                     | No.  | 2   |      |        |   |
| C13.10.2              |         | 15mm Bib-tap                                                                      | No.  | 2   |      |        |   |
|                       |         | Chromium plated                                                                   |      |     |      |        |   |
| C13.10.3              |         | 15mm Angle regulating valve and connection pipe                                   | No.  | 18  |      |        |   |
| C13.10.4              |         | 15mm Pillar tap (PC R 450/No)                                                     | No.  | 10  |      |        |   |
| C13.10.5              |         | 15mm Basin mixer with pop-up waste and angle flow regulating valves (PC R 800/No) | No.  | 1   |      |        |   |
| C13.10.6              |         | Urinal flush valve (PC R180/No)                                                   | No.  | 2   |      |        |   |
| C13.11                |         | SANITARY PLUMBING                                                                 |      |     |      |        |   |
|                       |         | uPVC soil and vent pipes                                                          |      |     |      |        |   |
| C13.11.1              |         | 50mm Pipes                                                                        | m    | 11  |      |        |   |
| C13.11.2              |         | 110mm Pipes                                                                       | m    | 5   |      |        |   |
|                       |         | Extra over uPVC soil and vent pipes for fittings                                  |      |     |      |        |   |
| C13.11.3              |         | 50mm End cap                                                                      | No.  | 2   |      |        |   |
| C13.11.4              |         | 110mm End cap                                                                     | No.  | 2   |      |        |   |
| Total Carried Forward |         |                                                                                   |      |     |      |        |   |

**SECTION C13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                               | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|-----------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                           |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                           |      |     |      |        |   |
| C13.11.5              |         | 50mm BSP adaptor                                                                                          | No.  | 12  |      |        |   |
| C13.11.6              |         | 110mm BSP adaptor                                                                                         | No.  | 11  |      |        |   |
| C13.11.7              |         | 110mm Pan connector                                                                                       | No.  | 4   |      |        |   |
| C13.11.8              |         | 50mm Bend                                                                                                 | No.  | 8   |      |        |   |
| C13.11.9              |         | 110mm Bend                                                                                                | No.  | 2   |      |        |   |
| C13.11.10             |         | 50mm Junction                                                                                             | No.  | 1   |      |        |   |
| C13.11.11             |         | 110mm Junction                                                                                            | No.  | 1   |      |        |   |
| C13.11.12             |         | 110mm Reducing junction                                                                                   | No.  | 3   |      |        |   |
| C13.11.13             |         | 110mm Access bend                                                                                         | No.  | 2   |      |        |   |
| C13.11.14             |         | 110mm Stubstack                                                                                           | No.  | 2   |      |        |   |
| C13.11.15             |         | 110mm Air vent cowl                                                                                       | No.  | 1   |      |        |   |
|                       |         | Testing                                                                                                   |      |     |      |        |   |
| C13.11.16             |         | Testing waste pipe system                                                                                 | No.  | 1   |      |        |   |
| C13.12                |         | WATER SUPPLIES                                                                                            |      |     |      |        |   |
|                       |         | Class 16 uPVC pressure pipes with solvent welded joints                                                   |      |     |      |        |   |
| C13.12.1              |         | 25mm Pipes laid in and including trenches not exceeding 1m deep                                           | m    | 11  |      |        |   |
|                       |         | Extra over Class 16 uPVC pressure pipes for fittings with solvent welded joints                           |      |     |      |        |   |
| C13.12.2              |         | 25mm Fittings                                                                                             | No.  | 3   |      |        |   |
|                       |         | Cobra Pex or similar and approved polypropylene pipes with "Fast-fuse" thermoplastic couplings            |      |     |      |        |   |
| C13.12.3              |         | 15mm Pipes                                                                                                | m    | 21  |      |        |   |
| C13.12.4              |         | 15mm Pipes chased into brickwork including brown paper lagging                                            | m    | 32  |      |        |   |
| C13.12.5              |         | 22mm Pipes                                                                                                | m    | 18  |      |        |   |
| C13.12.6              |         | 22mm Pipes chased into brickwork including brown paper lagging                                            | m    | 27  |      |        |   |
|                       |         | Extra over "Cobra Pex" or similar and approved polypropylene pipes for "Fast-fuse" thermoplastic fittings |      |     |      |        |   |
| C13.12.7              |         | 15mm Fittings                                                                                             | No.  | 22  |      |        |   |
| C13.12.8              |         | 22mm Fittings                                                                                             | No.  | 7   |      |        |   |
| Total Carried Forward |         |                                                                                                           |      |     |      |        |   |

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

119.90

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

119.91

**SECTION C15: PAINTWORK**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                          | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|----------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |             |                                                                                                                      |                |     |      | R      | c |
| C15                   | PSBW 6.2.20 | PAINTWORK                                                                                                            |                |     |      |        |   |
| C15.1                 |             | PAINTWORK ETC TO NEW WORK                                                                                            |                |     |      |        |   |
| C15.2                 |             | ON INTERNAL FLOATED PLASTER SURFACES                                                                                 |                |     |      |        |   |
|                       |             | One coat alkali resistant primer and two coats PVA emulsion paint for interior use                                   |                |     |      |        |   |
| C15.2.1               |             | Walls                                                                                                                | m <sup>2</sup> | 553 |      |        |   |
| C15.3                 |             | ON EXTERNAL FLOATED PLASTER SURFACES                                                                                 |                |     |      |        |   |
|                       |             | One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use |                |     |      |        |   |
| C15.3.1               |             | Walls                                                                                                                | m <sup>2</sup> | 261 |      |        |   |
| C15.4                 |             | ON PLASTERBOARD SURFACES                                                                                             |                |     |      |        |   |
|                       |             | One coat primer and one coat superior quality acrylic emulsion paint for interior and exterior use                   |                |     |      |        |   |
| C15.4.1               |             | Ceilings and cornices                                                                                                | m <sup>2</sup> | 285 |      |        |   |
| C15.5                 |             | ON FIBRE-CEMENT SURFACES                                                                                             |                |     |      |        |   |
|                       |             | One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use              |                |     |      |        |   |
| C15.5.1               |             | Ceilings and cornices, including priming metal cover strips and nailheads                                            | m <sup>2</sup> | 40  |      |        |   |
| C15.5.2               |             | Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips                          | m              | 80  |      |        |   |
|                       |             | Two coats extremely durable UV-resistant, washable pure acrylic emulsion sheen paint                                 |                |     |      |        |   |
| C15.5.3               |             | Roof                                                                                                                 | m <sup>2</sup> | 0   |      |        |   |
| C15.6                 |             | ON METAL SURFACES                                                                                                    |                |     |      |        |   |
|                       |             | One coat water based primer and two coats premium quality polyurethane enamel paint, on galvanised steel             |                |     |      |        |   |
| C15.6.1               |             | Columns and beams                                                                                                    | m <sup>2</sup> | 4   |      |        |   |
|                       |             | Two coat alkyd based universal undercoat and one coat superior quality universal enamel paint                        |                |     |      |        |   |
| C15.6.2               |             | Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)                      | m <sup>2</sup> | 9   |      |        |   |
| C15.7                 |             | ON WOOD SURFACES                                                                                                     |                |     |      |        |   |
| Total Carried Forward |             |                                                                                                                      |                |     |      |        |   |

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|----------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                            |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                                            |      |     |      |        |   |
|                       |         | One coat primer and two coats premium quality polyurethane enamel paint                                                    |      |     |      |        |   |
| C15.7.1               |         | Doors                                                                                                                      | m²   | 36  |      |        |   |
| C15.7.2               |         | Columns and beams                                                                                                          | m²   | 6   |      |        |   |
|                       |         | Two coats superior quality clear matt varnish                                                                              |      |     |      |        |   |
| C15.7.3               |         | Doors                                                                                                                      | m²   | 20  |      |        |   |
|                       |         | Skirtings, rails, etc not exceeding 300mm girth                                                                            |      |     |      |        |   |
| C15.8                 |         | PAINTWORK ETC TO PREVIOUSLY PAINTED WORK                                                                                   |      |     |      |        |   |
| C15.9                 |         | ON INTERNAL FLOATED PLASTER SURFACES                                                                                       |      |     |      |        |   |
|                       |         | One coat low odour premium quality highly washable and stain resistant acrylic emulsion paint, on work in sound condition  |      |     |      |        |   |
| C15.9.1               |         | Walls                                                                                                                      | m²   | 314 |      |        |   |
| C15.10                |         | ON PLASTERBOARD SURFACES                                                                                                   |      |     |      |        |   |
|                       |         | One coat low odour premium quality highly washable and stain resistant acrylic emulsion paint, on work in sound condition  |      |     |      |        |   |
| C15.10.1              |         | Partitions                                                                                                                 | m²   | 61  |      |        |   |
| C15.10.2              |         | Ceilings and cornices                                                                                                      | m²   | 224 |      |        |   |
| C15.11                |         | ON EXTERNAL FLOATED PLASTER SURFACES                                                                                       |      |     |      |        |   |
|                       |         | Two coats extremely durable UV-resistant washable pure acrylic emulsion sheen paint with teflon, on work in poor condition |      |     |      |        |   |
| C15.11.1              |         | Walls                                                                                                                      | m²   | 160 |      |        |   |
| C15.12                |         | ON FIBRE-CEMENT BOARD SURFACES                                                                                             |      |     |      |        |   |
|                       |         | Two coats extremely durable UV-resistant washable pure acrylic paint, on work in sound condition                           |      |     |      |        |   |
| C15.12.1              |         | Roof                                                                                                                       | m²   | 226 |      |        |   |
| C15.12.2              |         | Fascias and barge boards                                                                                                   | m²   | 19  |      |        |   |
| C15.13                |         | ON WOOD SURFACES                                                                                                           |      |     |      |        |   |
|                       |         | One coat alkyd based universal undercoat and one coat superior quality universal enamel paint, on work in sound condition  |      |     |      |        |   |
| C15.13.1              |         | Doors                                                                                                                      | m²   | 38  |      |        |   |
| Total Carried Forward |         |                                                                                                                            |      |     |      |        |   |



119.94



**SECTION C17: SEWER RETICULATION**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                                                                                                                                                                         | UNIT | QTY | RATE | AMOUNT    |   |
|-----------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                       |              |                                                                                                                                                                                                                                                                                                     |      |     |      | R         | c |
| C17                   |              | SEWER RETICULATION                                                                                                                                                                                                                                                                                  |      |     |      |           |   |
| C17.1                 | SANS 1200 DB | EARTHWORKS (PIPE TRENCHES)                                                                                                                                                                                                                                                                          |      |     |      |           |   |
|                       | 8.3.2        | Excavation                                                                                                                                                                                                                                                                                          |      |     |      |           |   |
|                       |              | a) Excavate in all materials for trenches, backfill and dispose of surplus material                                                                                                                                                                                                                 |      |     |      |           |   |
|                       |              | For pipes with nominal dia up to 450 mm                                                                                                                                                                                                                                                             |      |     |      |           |   |
|                       |              | Over and Up to                                                                                                                                                                                                                                                                                      |      |     |      |           |   |
| C17.1.1               |              | 0,0 m 1,5 m                                                                                                                                                                                                                                                                                         | m    | 50  |      |           |   |
| C17.1.2               |              | 1,5 m 2,5 m                                                                                                                                                                                                                                                                                         | m    | 5   |      |           |   |
|                       |              | b) Extra - over item (a) above for:                                                                                                                                                                                                                                                                 |      |     |      |           |   |
| C17.1.3               |              | 2) Hard rock excavation                                                                                                                                                                                                                                                                             | m³   | 2   |      |           |   |
|                       | 8.3.5        | Existing services that intersect or adjoin a pipe                                                                                                                                                                                                                                                   |      |     |      |           |   |
| C17.1.4               |              | a) Services that intersect a trench                                                                                                                                                                                                                                                                 | No.  | 2   |      |           |   |
| C17.1.5               |              | b) Services that adjoin a trench                                                                                                                                                                                                                                                                    | m    | 10  |      |           |   |
| C17.2                 | SANS 1200 LB | BEDDING (PIPES)                                                                                                                                                                                                                                                                                     |      |     |      |           |   |
|                       | 8.2.1        | Provision of bedding from trench excavation                                                                                                                                                                                                                                                         |      |     |      |           |   |
| C17.2.1               |              | a) Selected granular material                                                                                                                                                                                                                                                                       | m³   | 1   |      |           |   |
| C17.2.2               |              | b) Selected fill material                                                                                                                                                                                                                                                                           | m³   | 3   |      |           |   |
|                       | 8.2.2.3      | Provision of Bedding by Importation from Commercial sources                                                                                                                                                                                                                                         |      |     |      |           |   |
| C17.2.3               |              | a) Selected granular material                                                                                                                                                                                                                                                                       | m³   | 5   |      |           |   |
| C17.2.4               |              | b) Selected fill material                                                                                                                                                                                                                                                                           | m³   | 11  |      |           |   |
| C17.3                 | SANS 1200 LD | SEWERS                                                                                                                                                                                                                                                                                              |      |     |      |           |   |
|                       | 8.2.1        | Supply, lay, joint, bed and test sewer pipes (heavy duty) with spigot and socket rubber ring joints:                                                                                                                                                                                                |      |     |      |           |   |
| C17.3.1               |              | 110 mm diameter Class 34 uPVC                                                                                                                                                                                                                                                                       | m    | 55  |      |           |   |
| C17.3.2               |              | 160 mm diameter Class 34 uPVC                                                                                                                                                                                                                                                                       | m    |     |      | Rate Only |   |
|                       | 8.2.3        | Manholes as per detail drawing 23-OVM-003/G703                                                                                                                                                                                                                                                      |      |     |      |           |   |
|                       |              | Supply all materials and construct 1,05m diameter precast concrete manholes with class D400, Standard type 2A ductile iron cover (non-ventilated) and frame, 560mm opening, SANS Approved (cast into slab, manholes to be raised 150mm above ground where located outside road reserve) for depths: |      |     |      |           |   |
| Total Carried Forward |              |                                                                                                                                                                                                                                                                                                     |      |     |      |           |   |

## SCHEDULE C: MASAKHANE - GANSBAAI

[illegible]

119.97

**SECTION C18: ROADWORKS**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                 | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |              |                                                                                                                                             |                |     |      | R      | c |
| C18                   |              | ROADWORKS                                                                                                                                   |                |     |      |        |   |
| C18.1                 | SANS 1200 DM | EARTHWORKS (ROADS, SUBGRADE)                                                                                                                |                |     |      |        |   |
|                       | 8.3.3        | Treatment of Roadbed                                                                                                                        |                |     |      |        |   |
| C18.1.1               |              | 2) 150 mm thick Roadbed preparation and compaction of material to minimum of 93% MOD AASHTO density                                         | m <sup>3</sup> | 15  |      |        |   |
| C18.1.2               | 8.3.7        | Cut to Spoil: Excavate in all material and dispose.                                                                                         | m <sup>3</sup> | 2   |      |        |   |
|                       |              | Surface finishes                                                                                                                            |                |     |      |        |   |
| C18.1.3               |              | Shaping and Trimming of Road Reserves                                                                                                       | m <sup>2</sup> | 5   |      |        |   |
|                       | 8.3.3        | Treatment of Roadbed                                                                                                                        |                |     |      |        |   |
| C18.2                 | SANS 1200 ME | SUBBASE                                                                                                                                     |                |     |      |        |   |
|                       | 8.3.3        | Construct Subbase with material from commercial sources                                                                                     |                |     |      |        |   |
| C18.2.1               |              | Import from commercial sources, 150 mm thick G5 natural gravel material for road base, compacted to 95 % of modified AASHTO maximum density | m <sup>3</sup> | 42  |      |        |   |
| C18.3                 | SANS 1200 MJ | SEGMENTED PAVING                                                                                                                            |                |     |      |        |   |
|                       | 8.2.2        | Construction of Paving Complete (25mm sand bedding etc): All included                                                                       |                |     |      |        |   |
| C18.3.1               |              | 60mm Interlocking Grey Cement Pavers Class 40/2.6 (35 MPa minimum), laid in a Herringbone Pattern.                                          | m <sup>2</sup> | 275 |      |        |   |
| C18.3.2               | 8.2.3        | Cutting Units to fit Edge Restraints                                                                                                        | m              | 120 |      |        |   |
| C18.3.3               | 8.2.4        | Rolling of units to lock-up condition as specified in clause 5.6.2 of SANS 1200 MJ                                                          | m <sup>2</sup> | 275 |      |        |   |
| C18.4                 | SANS 1200 MM | ANCILLARY ROADWORKS                                                                                                                         |                |     |      |        |   |
|                       | 8.3          | Permanent road traffic signs                                                                                                                |                |     |      |        |   |
|                       | 8.3.1        | Road sign faces, 1,6mm thick pre-painted galvanized steel, with painted symbols, characters, legend and borders of areas over and up to:    |                |     |      |        |   |
| C18.4.1               |              | 1) 0 m <sup>2</sup> to 2 m <sup>2</sup> (R578 - Disabled Sign)                                                                              | No             | 1   |      |        |   |
|                       | 8.3.2        | Extra-over on item above for the provision and application of retro-reflective material:                                                    |                |     |      |        |   |
| C18.4.2               |              | a) High intensity grade (Class II) retro-reflective background, characters, symbols, legend and border                                      | Sum            | 1   |      |        |   |
| C18.4.3               |              | b) Galvanized steel tubing road sign supports                                                                                               | No             | 1   |      |        |   |
| Total Carried Forward |              |                                                                                                                                             |                |     |      |        |   |

| ITEM NO                          | PAYMENT      | DESCRIPTION                                                                                           | UNIT | QTY | RATE | AMOUNT    |   |
|----------------------------------|--------------|-------------------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                                  |              |                                                                                                       |      |     |      | R         | c |
| Brought Forward                  |              |                                                                                                       |      |     |      |           |   |
| C18.4.4                          |              | Excavation, backfilling and concreting for road sign supports                                         | m³   | 1   |      |           |   |
|                                  | 8.4          | Road Markings                                                                                         |      |     |      |           |   |
|                                  | 8.4.1        | Non-reflective paint applied at a nominal rate of 0.42 l/m2 as scheduled:                             |      |     |      |           |   |
|                                  |              | a) White lines (broken or unbroken)                                                                   |      |     |      |           |   |
| C18.4.5                          |              | 1) 100 mm width                                                                                       | m    | 28  |      |           |   |
| C18.4.6                          |              | c) White charaters and symbols                                                                        | m²   | 1   |      |           |   |
| C18.4.7                          |              | d) Yellow charaters and symbols                                                                       | m²   | 1   |      |           |   |
| C18.5                            | SANS 1200 MK | KERBING AND CHANNELLING                                                                               |      |     |      |           |   |
|                                  | 8.2.1        | Concrete Kerbing (25 MPa) (as per detail drawing 23-OVM-003/G702)                                     |      |     |      |           |   |
| C18.5.1                          |              | a) Type BK2 Kerbing with radius smaller than 20m                                                      | m    | 10  |      |           |   |
| C18.5.2                          |              | b) Type BK2 Kerbing with radius greater than 20m                                                      | m    | 50  |      |           |   |
| C18.5.3                          |              | c) Type MK10 Kerbing with radius smaller than 20m                                                     | m    |     |      | Rate Only |   |
| C18.5.4                          |              | d) Type MK10 Kerbing with radius greater than 20m                                                     | m    | 37  |      |           |   |
| C18.5.5                          |              | e) Type E1 Kerbing with radius smaller than 20m                                                       | m    | 10  |      |           |   |
| C18.5.6                          |              | f) Type E1 Kerbing with radius greater than 20m                                                       | m    | 25  |      |           |   |
|                                  | 8.2.6        | Ancilliaries                                                                                          |      |     |      |           |   |
| C18.5.7                          | 8.2.6.1      | Construct 1 m - 2 m long, 25 Mpa cast-in-situ kerbing transition sections between transitioning kerbs | No.  | 2   |      |           |   |
| Total Carried Forward To Summary |              |                                                                                                       |      |     |      |           |   |

SUMMARY OF SECTIONS

| SECTION                                       | DESCRIPTION                                          | AMOUNT<br>(RAND) |
|-----------------------------------------------|------------------------------------------------------|------------------|
| C1                                            | SECTION C1: SITE CLEARANCE                           | .....            |
| C2                                            | SECTION C2: EARTHWORKS                               | .....            |
| C3                                            | SECTION C3: CONCRETE (STRUCTURAL)                    | .....            |
| C4                                            | SECTION C4: MASONRY                                  | .....            |
| C5                                            | SECTION C5: WATERPROOFING                            | .....            |
| C6                                            | SECTION C6: ROOF COVERINGS                           | .....            |
| C7                                            | SECTION C7: CARPENTRY AND JOINERY                    | .....            |
| C8                                            | SECTION C8: CIELINGS, PARTITIONS AND ACCESS FLOORING | .....            |
| C9                                            | SECTION C9: FLOOR COVERINGS, WALL LININGS, ETC       | .....            |
| C10                                           | SECTION C10: METALWORK                               | .....            |
| C11                                           | SECTION C11: PLASTERING                              | .....            |
| C12                                           | SECTION C12: TILING                                  | .....            |
| C13                                           | SECTION C13: PLUMBING AND DRAINAGE                   | .....            |
| C14                                           | SECTION C14: GLAZING                                 | .....            |
| C15                                           | SECTION C15: PAINTWORK                               | .....            |
| C16                                           | SECTION C16: ELECTRICAL WORK                         | .....            |
| C17                                           | SECTION C17: SEWER RETICULATION                      | .....            |
| C18                                           | SECTION C18: ROADWORKS                               | .....            |
| Total Carried Forward To Summary Of Schedules |                                                      | .....            |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

## SECTION D1: SITE CLEARANCE

[illegible]



**SECTION D2: EARTHWORKS**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |              |                                                                                                                                            |                |     |      | R      | c |
| D2                    | SANS 1200 DA | EARTHWORKS (small works)                                                                                                                   |                |     |      |        |   |
|                       | 8.3.1        | Excavation                                                                                                                                 |                |     |      |        |   |
| D2.1                  |              | a) Remove topsoil to nominal depth 150 mm, stockpile, and maintain                                                                         | m <sup>2</sup> | 475 |      |        |   |
|                       |              | b) Excavate in all materials and use for embankment or backfill or dispose, as ordered                                                     |                |     |      |        |   |
|                       |              | To reduced levels under floors                                                                                                             |                |     |      |        |   |
| D2.2                  |              | i) Cut to Fill and compact to 93% MOD AASHTO density in layers not exceeding 150 mm                                                        | m <sup>3</sup> | 60  |      |        |   |
| D2.3                  |              | ii) Cut to Spoil                                                                                                                           | m <sup>3</sup> | 30  |      |        |   |
| D2.4                  |              | iii) Cut to Stockpile and maintain                                                                                                         | m <sup>3</sup> | 10  |      |        |   |
| D2.5                  |              | iv) Stockpile to Fill and compact to 93% MOD AASHTO density in layers not exceeding 150 mm                                                 | m <sup>3</sup> | 10  |      |        |   |
|                       |              | c) Extra-over for                                                                                                                          |                |     |      |        |   |
| D2.6                  |              | 2) Hard rock excavation                                                                                                                    | m <sup>3</sup> | 5   |      |        |   |
| D2.7                  |              | 3) Boulder excavation, Class A                                                                                                             | m <sup>3</sup> | 1   |      |        |   |
| D2.8                  |              | 4) Boulder excavation, Class B                                                                                                             | m <sup>3</sup> | 1   |      |        |   |
|                       | 8.3.2        | Restricted Excavation                                                                                                                      |                |     |      |        |   |
|                       |              | a) Excavate for restricted foundations, footings and trenches in all materials and use for backfill or embankment or dispose, as directed: |                |     |      |        |   |
| D2.9                  |              | Strip-footings not exceeding 2.0 m deep                                                                                                    | m <sup>3</sup> | 130 |      |        |   |
|                       |              | b) Extra-over for                                                                                                                          |                |     |      |        |   |
| D2.10                 |              | 2) Hard rock excavation                                                                                                                    | m <sup>3</sup> | 1   |      |        |   |
|                       | 8.3.4        | Importing of materials from borrow pits                                                                                                    |                |     |      |        |   |
|                       |              | Under concrete surface beds                                                                                                                |                |     |      |        |   |
| D2.11                 |              | i) G9 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                          | m <sup>3</sup> | 2   |      |        |   |
| D2.12                 |              | ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                         | m <sup>3</sup> | 5   |      |        |   |
|                       | 8.3.4        | Importing of materials from commercial sources                                                                                             |                |     |      |        |   |
|                       |              | Under concrete surface beds                                                                                                                |                |     |      |        |   |
| D2.13                 |              | i) G9 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm                                                          | m <sup>3</sup> | 3   |      |        |   |
| Total Carried Forward |              |                                                                                                                                            |                |     |      |        |   |

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

**SECTION D3: CONCRETE (STRUCTURAL)**

| ITEM NO               | PAYMENT    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNIT           | QTY | RATE | AMOUNT    |   |
|-----------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|-----------|---|
|                       |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |     |      | R         | c |
| D3                    |            | CONCRETE (STRUCTURAL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |     |      |           |   |
| D3.1                  |            | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |     |      |           |   |
|                       |            | Engineering specifications: The contractor is referred to the engineer's general notes and specifications attached to these bills of quantities and must allow for all costs deemed to be incurred in complying with the aforementioned specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |     |      |           |   |
|                       |            | Formwork: Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" |                |     |      |           |   |
| D3.2                  | SANS1200 G | UNREINFORCED CONCRETE CAST AGAINST BRICKWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |     |      |           |   |
|                       | 8.4.2      | Blinking layer in 15 MPa/19 mm concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                |     |      |           |   |
| D3.2.1                |            | 50 mm minimum thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m <sup>2</sup> | 6   |      | Rate Only |   |
|                       | 8.4.3      | Strength concrete: Grade 20 MPa/19 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |     |      |           |   |
| D3.2.2                |            | Filling to cavity of hollow walls (hollow walls elsewhere)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | m <sup>3</sup> | 2   |      |           |   |
| D3.3                  | SANS1200 G | REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |     |      |           |   |
|                       | 8.4.3      | 25MPa/19mm concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |     |      |           |   |
| D3.3.1                |            | Strip footings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | m <sup>3</sup> | 42  |      |           |   |
| D3.3.2                |            | Surface beds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | m <sup>3</sup> | 34  |      |           |   |
| D3.3.3                |            | Ramps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | m <sup>3</sup> | 1   |      |           |   |
| D3.3.4                |            | Steps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | m <sup>3</sup> | 1   |      |           |   |
| D3.4                  | 8.2        | SCHEDULED FORMWORK ITEMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |     |      |           |   |
| Total Carried Forward |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |     |      |           |   |

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

**SECTION D4: MASONRY**

| ITEM NO               | PAYMENT    | DESCRIPTION                                                                                                                                                                                              | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |            |                                                                                                                                                                                                          |                |     |      | R      | c |
| D4                    |            | MASONRY                                                                                                                                                                                                  |                |     |      |        |   |
| D4.1                  |            | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                  |                |     |      |        |   |
| D4.2                  |            | BRICKWORK                                                                                                                                                                                                |                |     |      |        |   |
| D4.2.1                |            | Brick structures complete according to details specified in the drawings. In the event of discrepancies between the BOQ and the drawings , details in the drawings will govern.                          |                |     |      |        |   |
| D4.2.2                |            | All brickwork shall be hard clay bricks with compressive strength of 14MPa and must comply with the requirements. Mortar Class I in accordance with SANS 0164 shall be used throughout in all brickwork. |                |     |      |        |   |
|                       |            | Sizes in descriptions: Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.                                               |                |     |      |        |   |
|                       |            | Hollow walls etc: Descriptions of hollow walls shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open as a weephole.                        |                |     |      |        |   |
| D4.3                  |            | FOUNDATIONS                                                                                                                                                                                              |                |     |      |        |   |
| D4.3.1                |            | i) One brick Walls - 230mm wide solid clay NFP to SABS 277                                                                                                                                               | m <sup>2</sup> | 98  |      |        |   |
| D4.3.2                |            | ii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277                                                                                                                      | m <sup>2</sup> | 50  |      |        |   |
| D4.4                  |            | SUPERSTRUCTURE                                                                                                                                                                                           |                |     |      |        |   |
| D4.4.1                |            | i) Half brick walls - 115mm wide solid clay NFP SABS 277                                                                                                                                                 | m <sup>2</sup> | 58  |      |        |   |
| D4.4.2                |            | ii) One brick Walls - 230mm wide solid clay NFP to SABS 277                                                                                                                                              | m <sup>2</sup> | 108 |      |        |   |
| D4.4.3                |            | iii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277                                                                                                                     | m <sup>2</sup> | 252 |      |        |   |
| D4.5                  |            | BRICKWORK SUNDRIES                                                                                                                                                                                       |                |     |      |        |   |
|                       |            | Cavity closure, finishings etc.                                                                                                                                                                          |                |     |      |        |   |
| D4.5.1                |            | i) Splayed mortar fillets one course high in 50mm cavities                                                                                                                                               | m              | 107 |      |        |   |
| D4.5.2                |            | ii) Closing 50mm cavity of hollow wall vertically with brickwork half brick wide                                                                                                                         | m              | 81  |      |        |   |
| D4.5.3                |            | iii) Closing 50mm cavity of hollow wall horizontally with one course of brickwork                                                                                                                        | m              | 63  |      |        |   |
| D4.6                  | PSBW 6.2.3 | BAGGING                                                                                                                                                                                                  |                |     |      |        |   |
|                       |            | Bagging of 1:3 cement and sand mixture                                                                                                                                                                   |                |     |      |        |   |
| Total Carried Forward |            |                                                                                                                                                                                                          |                |     |      |        |   |

**SECTION D4: MASONRY**

| ITEM NO                          | PAYMENT                                                                                        | DESCRIPTION                                                                                                                                                                                              | UNIT | QTY   | RATE | AMOUNT |   |
|----------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|--------|---|
|                                  |                                                                                                |                                                                                                                                                                                                          |      |       |      | R      | c |
| Brought Forward                  |                                                                                                |                                                                                                                                                                                                          |      |       |      |        |   |
| D4.6.1                           | PSBW 6.2.10                                                                                    | On brick walls, piers, etc                                                                                                                                                                               | m²   | 82    |      |        |   |
| D4.7                             |                                                                                                | JOINTS                                                                                                                                                                                                   |      |       |      |        |   |
|                                  |                                                                                                | Joint forming material in movement joints                                                                                                                                                                |      |       |      |        |   |
| D4.7.1                           |                                                                                                | 10mm Fibre board built in vertically through brick walls                                                                                                                                                 | m    | 73    |      |        |   |
| D4.8                             |                                                                                                | BRICK REINFORCEMENT                                                                                                                                                                                      |      |       |      |        |   |
|                                  |                                                                                                | 2.5mm Galvanised brickwork reinforcement                                                                                                                                                                 |      |       |      |        |   |
| D4.8.1                           |                                                                                                | i) 75mm Wide reinforcement built in horizontally                                                                                                                                                         | m    | 4,524 |      |        |   |
| D4.8.2                           |                                                                                                | ii) 150mm Wide reinforcement built in horizontally                                                                                                                                                       | m    | 1,064 |      |        |   |
| D4.9                             |                                                                                                | WIRE WALL TIES                                                                                                                                                                                           |      |       |      |        |   |
|                                  |                                                                                                | Tie wires shall be butterfly type and comply with the requirements of SANS 28, shall be of required size to suit cavity wall dims. and shall be installed not less than 5no. per square meter wall area. |      |       |      |        |   |
| D4.9.1                           |                                                                                                | Galvanized Wire Butterfly Wall Ties: 225mm x 3.15mm thickness                                                                                                                                            | No.  |       |      |        |   |
| D4.10                            |                                                                                                | PRECAST LINTELS                                                                                                                                                                                          |      |       |      |        |   |
|                                  |                                                                                                | Prestressed fabricated concrete lintels including necessary supports                                                                                                                                     |      |       |      |        |   |
| D4.10.1                          |                                                                                                | 110 x 75mm Lintels in lengths not exceeding 3m                                                                                                                                                           | m    | 91    |      |        |   |
| D4.11                            |                                                                                                | ROOF TIES                                                                                                                                                                                                |      |       |      |        |   |
|                                  | Galvanised hoop iron cramps, ties, etc                                                         |                                                                                                                                                                                                          |      |       |      |        |   |
| D4.11.1                          | 30 x 1.2mm Roof tie 600mm long with one and built into brickwork and other end fixed to timber | No.                                                                                                                                                                                                      | 105  |       |      |        |   |
| Total Carried Forward To Summary |                                                                                                |                                                                                                                                                                                                          |      |       |      |        |   |

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]



**SECTION D7: CARPENTRY AND JOINERY**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                              | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                          |      |     |      | R      | c |
| D7                    |             | CARPENTRY AND JOINERY                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
| D7.1                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Fixing: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere. |      |     |      |        |   |
|                       |             | Joinery: Descriptions of frames shall be deemed to include frames, transomes, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.                                                                                                                                                           |      |     |      |        |   |
| D7.2                  | PSBW 6.2.11 | ROOFS ETC                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |             | Wrought softwood                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
| D7.2.1                |             | 44 x 144mm Bearers in lengths not exceeding 2,4m                                                                                                                                                                                                                                                                                         | m    | 24  |      |        |   |
| D7.3                  |             | PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC                                                                                                                                                                                                                                                                                          |      |     |      |        |   |
| D7.4                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Design Responsibility                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
|                       |             | The contractor shall be responsible for the design of the timber roof construction. The contractor will submit shop drawings for approval to the principal agent. The contractor shall commence manufacturing only after written approval of shop drawings from the principal agent.                                                     |      |     |      |        |   |
|                       |             | Trusses are at maximum 1,500mm centres.                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                       |             | Roof coverings are IBR metal profiled fixed sheeting on purlins (sheeting measured elsewhere).                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |             | Ceilings are 6.4mm gypsum plasterboard on 38 x 38mm branderling (ceilings measured elsewhere)                                                                                                                                                                                                                                            |      |     |      |        |   |
|                       |             | Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences.                                                                                                                                                    |      |     |      |        |   |
|                       |             | All exposed wood of roof construction to be Carbolinuem treated.                                                                                                                                                                                                                                                                         |      |     |      |        |   |
| D7.4.1                |             | 38 x 114mm Wall plates                                                                                                                                                                                                                                                                                                                   | m    | 65  |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                          |      |     |      |        |   |

**SECTION D7: CARPENTRY AND JOINERY**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                            | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                        |      |     |      | R      | c |
| Brought Forward       |             |                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
| D7.4.2                |             | Roof construction to double pitched roof 13.79 x 9.06m with double hipped intersections including 22.94 x 8.06m double pitched projection, including trusses, jack rafters, permanent bracing and 76 x 50mm purlins at maximum 500mm centres for roof covering (wall plates elsewhere) | No.  | 1   |      |        |   |
| D7.4.3                |             | Extra over for wrought splayed purlins at eaves                                                                                                                                                                                                                                        | m    | 65  |      |        |   |
| D7.4.4                |             | Extra over for 750mm long wrought rafter foot                                                                                                                                                                                                                                          | No.  | 39  |      |        |   |
| D7.5                  | PSBW 6.2.13 | EAVES, VERGES, ETC                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |             | Medium density plain fibre-cement fascias and barge boards                                                                                                                                                                                                                             |      |     |      |        |   |
| D7.5.1                |             | 12 x 225mm Fibre cement fascias and barge boards                                                                                                                                                                                                                                       | m    | 96  |      |        |   |
| D7.6                  | PSBW 6.2.17 | SKIRTINGS                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |             | Wrought meranti                                                                                                                                                                                                                                                                        |      |     |      |        |   |
| D7.6.1                |             | 22 x 90mm Skirtings, plugged                                                                                                                                                                                                                                                           | m    | 129 |      |        |   |
| D7.7                  | PSBW 6.2.17 | DOORS ETC                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |             | Standard hollow core flush doors with 3,2mm plain hardboard covering on both sides                                                                                                                                                                                                     |      |     |      |        |   |
| D7.7.1                |             | 40mm Door 813 x 2034mm high - D2                                                                                                                                                                                                                                                       | No.  | 2   |      |        |   |
|                       |             | Wrought "Swartland Kayo KYD1" doors or similar and approved                                                                                                                                                                                                                            |      |     |      |        |   |
| D7.7.2                |             | 44mm Framed and ledged batten door 813 x 2,032mm high - D1                                                                                                                                                                                                                             | No.  | 7   |      |        |   |
| D7.7.3                |             | 44mm Framed and ledged batten double door 1,613 x 2,032mm high - D3                                                                                                                                                                                                                    | No.  | 2   |      |        |   |
| D7.8                  | PSBW 6.2.17 | FRAMED FRAMES ETC                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |             | Wrought "Swartland Kayo HC3014M" or similar and approved                                                                                                                                                                                                                               |      |     |      |        |   |
| D7.8.1                |             | 86 x 53mm Rebated frames, plugged - D1/D2                                                                                                                                                                                                                                              | m    | 44  |      |        |   |
|                       |             | Wrought "Swartland Kayo HC3026M" or similar and approved                                                                                                                                                                                                                               |      |     |      |        |   |
| D7.8.2                |             | 86 x 53mm Rebated frames, plugged - D3                                                                                                                                                                                                                                                 | m    | 11  |      |        |   |
| D7.9                  | PSBW 6.2.17 | WINDOWS                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |             | Wrought meranti windows including glazing, beads, etc as per window schedule                                                                                                                                                                                                           |      |     |      |        |   |
| D7.9.1                |             | Window type PT66, 600 x 600mm high - W1                                                                                                                                                                                                                                                | No.  | 9   |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                        |      |     |      |        |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

**SECTION D8: CEILINGS, PARTITIONS AND ACCESS FLOORING**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                              | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                          |                |     |      | R      | c |
| D8                    |             | CEILINGS, PARTITIONS AND ACCESS FLOORING                                                                                                                                                                                                                                                                                                 |                |     |      |        |   |
| D8.1                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |                |     |      |        |   |
|                       |             | Fixing: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere. |                |     |      |        |   |
|                       |             | Ceilings: Unless otherwise described ceilings shall be deemed to be horizontal.                                                                                                                                                                                                                                                          |                |     |      |        |   |
|                       |             | Steel components: All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121.                                                                                                                                                                                                                  |                |     |      |        |   |
| D8.2                  | PSBW 6.2.16 | CEILING INSULATION                                                                                                                                                                                                                                                                                                                       |                |     |      |        |   |
|                       |             | Think Pink Aerolite Class A1 insulation or similar approved                                                                                                                                                                                                                                                                              |                |     |      |        |   |
| D8.2.1                |             | 135mm Insulation in blanket form lapped not less than 50mm along all edges and laid on top of branderling between roof timbers etc                                                                                                                                                                                                       | m <sup>2</sup> | 227 |      |        |   |
| D8.3                  | PSBW 6.2.15 | NAILED-UP CEILINGS                                                                                                                                                                                                                                                                                                                       |                |     |      |        |   |
| D8.4                  |             | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                  |                |     |      |        |   |
|                       |             | Openings                                                                                                                                                                                                                                                                                                                                 |                |     |      |        |   |
|                       |             | Prices for openings for light fittings, ventilation grilles, air-conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc.                                                                                                                                                                  |                |     |      |        |   |
|                       |             | 6,4mm Gypsum plasterboard with taped joints and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer.                                                                                                                                                          |                |     |      |        |   |
| D8.4.1                |             | Ceilings including 38 x 38mm sawn softwood branderling at 450mm centres and cross branderling at 600mm centres                                                                                                                                                                                                                           | m <sup>2</sup> | 227 |      |        |   |
| D8.4.2                |             | Extra over ceiling for 900 x 900mm trap door of 38 x 38mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around                                                                                                                           | No.            | 4   |      |        |   |
|                       |             | 4mm Nutec fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips.                                                                                                                                                                                                                                             |                |     |      |        |   |
| D8.4.3                |             | Ceilings including 38 x 38mm sawn softwood branderling at 450mm centres generally in one direction and cross branders at 600mm centres at joints and edges of boards                                                                                                                                                                     | m <sup>2</sup> | 33  |      |        |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                          |                |     |      |        |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

**SECTION D10: METALWORK**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                             | UNIT | QTY | RATE | AMOUNT    |   |
|-----------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                       |             |                                                                                                                                                                                                                                                                                                                                                         |      |     |      | R         | c |
| D10                   | PSBW 6.2.18 | METALWORK                                                                                                                                                                                                                                                                                                                                               |      |     |      |           |   |
| D10.1                 |             | WINDOWS                                                                                                                                                                                                                                                                                                                                                 |      |     |      |           |   |
|                       |             | Natural anodized aluminium windows to a thickness of 25micron with laminated safety glass for windows                                                                                                                                                                                                                                                   |      |     |      |           |   |
| D10.1.1               |             | Window 600 x 600mm high - W1                                                                                                                                                                                                                                                                                                                            | No.  |     |      | Rate Only |   |
| D10.1.2               |             | Window 900 x 1200mm high - W2                                                                                                                                                                                                                                                                                                                           | No.  |     |      | Rate Only |   |
| D10.1.3               |             | Window 1800 x 600mm high - W3                                                                                                                                                                                                                                                                                                                           | No.  |     |      | Rate Only |   |
| D10.1.4               |             | Window 1800 x 1200mm high - W4                                                                                                                                                                                                                                                                                                                          | No.  |     |      | Rate Only |   |
| D10.2                 |             | GALVANISED STEEL GATES, SCREENS, ETC                                                                                                                                                                                                                                                                                                                    |      |     |      |           |   |
|                       |             | Welded screens and gates to windows of 35 x 35 x 3mm angle outer frame and 35 x 3mm flat section bracing, filled with "Mentex 118/VEM 315F" or similar approved expanded metal mesh spot welded to frame and bracing, with 32 x 32 x 2.5mm hollow section supports welded onto outer frame and build epoxy fixed 100mm deep into brickwork for windows: |      |     |      |           |   |
| D10.2.1               |             | Window type PT66, 600 x 600mm high - W1                                                                                                                                                                                                                                                                                                                 | No.  | 9   |      |           |   |
| D10.2.2               |             | Window type PT912, 900 x 1200mm high - W2                                                                                                                                                                                                                                                                                                               | No.  | 9   |      |           |   |
| D10.2.3               |             | Window type PT186, 1800 x 600mm high - W3                                                                                                                                                                                                                                                                                                               | No.  | 6   |      |           |   |
| D10.2.4               |             | Window type PT1812, 1800 x 1200mm high - W4                                                                                                                                                                                                                                                                                                             | No.  | 2   |      |           |   |
| D10.3                 |             | GALVANISED PRESSED STEEL DOOR FRAMES                                                                                                                                                                                                                                                                                                                    |      |     |      |           |   |
|                       |             | 1,2mm Double rebated frames suitable for one brick walls                                                                                                                                                                                                                                                                                                |      |     |      |           |   |
| D10.3.1               |             | Frame for door 813 x 2032mm high                                                                                                                                                                                                                                                                                                                        | No.  |     |      | Rate Only |   |
| D10.4                 |             | FENCING                                                                                                                                                                                                                                                                                                                                                 |      |     |      |           |   |
|                       |             | Galvanised wired mesh fence with timber posts, stays, gates, etc. including galvanised steel bolts, straining eye bolts, etc, site clearance and preparation of ground                                                                                                                                                                                  |      |     |      |           |   |
| D10.4.1               |             | Fence 1.8m high of galvanised wired mesh fixed to 150mm diameter timber posts at 2,500mm centres with steel wire etc including excavation, backfilling and concrete for bases                                                                                                                                                                           | m    | 96  |      |           |   |
| D10.4.2               |             | Galvanised steel gate 813 x 1800mm high fixed to 150 x 150mm timber posts on both sides and filled in with galvanised wired mesh, including hinges, spring latch with catch, etc                                                                                                                                                                        | No.  | 1   |      |           |   |
| D10.4                 | SANS 1200 H | STRUCTURAL STEELWORK                                                                                                                                                                                                                                                                                                                                    |      |     |      |           |   |
| Total Carried Forward |             |                                                                                                                                                                                                                                                                                                                                                         |      |     |      |           |   |

| ITEM NO                          | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                  | UNIT | QTY | RATE | AMOUNT |   |
|----------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                                  |         |                                                                                                                                                                                                                                                                                                                                                                              |      |     |      | R      | c |
| Brought Forward                  |         |                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
| D10.6                            |         | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                                  |         | Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Descriptions of expansion anchors and bolts, and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. |      |     |      |        |   |
|                                  |         | All structural steelwork shall be Grade S355JR                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |
|                                  |         | Contractor to provide steel workshop drawings                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
| D10.7                            |         | GALVANISED STEEL COLUMNS AND BEAMS                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                                  |         | Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete.                                                                                                                                                                                                                                                                      |      |     |      |        |   |
| D10.7.1                          |         | 5 x 100mm Diameter x 11.9kg/m round columns                                                                                                                                                                                                                                                                                                                                  | kg   | 270 |      |        |   |
| D10.8                            |         | BOLTS, FASTENERS, ETC                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
| D10.8.1                          |         | 12mm Diameter chemical anchor                                                                                                                                                                                                                                                                                                                                                | No.  | 36  |      |        |   |
| D10.9                            |         | IRONMONGERY                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
|                                  |         | Fixing of ironmongery to wooden doors                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
| D10.9.1                          |         | 100mm Hinge                                                                                                                                                                                                                                                                                                                                                                  | No.  | 22  |      |        |   |
| D10.9.2                          |         | Flush bolt                                                                                                                                                                                                                                                                                                                                                                   | No.  | 9   |      |        |   |
| D10.9.3                          |         | Mortice deadlock                                                                                                                                                                                                                                                                                                                                                             | No.  | 11  |      |        |   |
| D10.9.4                          |         | Approximately 150mm door handle                                                                                                                                                                                                                                                                                                                                              | No.  | 11  |      |        |   |
| D10.9.5                          |         | Door stop, plugged                                                                                                                                                                                                                                                                                                                                                           | No.  | 11  |      |        |   |
|                                  |         | Fixing of ironmongery to brickwork                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
| D10.9.6                          |         | Toilet roll holders                                                                                                                                                                                                                                                                                                                                                          | No.  | 5   |      |        |   |
| D10.9.7                          |         | Soap dishes                                                                                                                                                                                                                                                                                                                                                                  | No.  | 7   |      |        |   |
| D10.9.8                          |         | Towl rails                                                                                                                                                                                                                                                                                                                                                                   | No.  | 7   |      |        |   |
| D10.10                           |         | SAFETY GATES                                                                                                                                                                                                                                                                                                                                                                 |      |     |      |        |   |
|                                  |         | Supply and Install Xpanda Saftidor (or similar approved)                                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
| D10.10.1                         |         | B Slamlock security gate, white 1000mm x 2100mm high, single external doors                                                                                                                                                                                                                                                                                                  | No.  | 7   |      |        |   |
| D10.10.2                         |         | F Slamlock security gate, white 1600mm x 2100mm high, double external doors                                                                                                                                                                                                                                                                                                  | No.  | 2   |      |        |   |
| Total Carried Forward To Summary |         |                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |



## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

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119.119

**SECTION D13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                   | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      | R      | c |
| D13                   |         | PLUMBING AND DRAINAGE                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
| D13.1                 |         | SUPPLEMENTARY PREAMBLES                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Stormwater channels                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc and disposal of surplus material on site.                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | Stainless steel basins, sinks, wash troughs, urinals, etc                                                                                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |         | Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.             |      |     |      |        |   |
|                       |         | Sealing of edges                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone.                                                                                                                                                                                                                                                                                                          |      |     |      |        |   |
|                       |         | uPVC pipes and fittings                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings.                                                                                                                                                                                                                            |      |     |      |        |   |
|                       |         | uPVC pressure pipes and fittings                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.                                                                                             |      |     |      |        |   |
|                       |         | Polycop polypropylene pipes                                                                                                                                                                                                                                                                                                                                                                                                   |      |     |      |        |   |
|                       |         | Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or where so described "Polylock" compression fittings Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions. |      |     |      |        |   |
|                       |         | Copper pipes                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |

**SECTION D13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
|                       |         | Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. |      |     |      |        |   |
|                       |         | Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition.                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Reducing fittings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained.                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Fixing of pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |
|                       |         | Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc casting in, building in or suspending not exceeding 1m below suspension level.                                                                                                                                                                                                                                                                                                             |      |     |      |        |   |
|                       |         | Paper wrapping to pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |         | Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings.                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
|                       |         | Disinfection of water pipework                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |   |
|                       |         | Water pipework is to be disinfected at completion in accordance with SANS 1200L (provision for disinfection elsewhere).                                                                                                                                                                                                                                                                                                                                                                                |      |     |      |        |   |
|                       |         | Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 55% overlaps Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc.                                                                                                                                                                                |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |   |

**SECTION D13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |
|                       |         | Prices for wrapping of pipes shall include for all work as described to couplings in the length.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |     |      |        |   |
|                       |         | Laying, backfilling, bedding, etc of pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |      |        |   |
|                       |         | Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled.                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |         | Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SANS 1200L: Medium-pressure pipelines SANS 1200LD : Sewers SANS 1200LE: Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB: Earthworks (Pipe trenches)Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB : Bedding (Pipes)Unless otherwise described, bedding of rigid pipes shall be Class B bedding. |      |     |      |        |   |
|                       |         | General                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |     |      |        |   |
|                       |         | Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends.                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc. shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site.                                                                                                                                                                                                                                                                                                     |      |     |      |        |   |
|                       |         | Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc. and to steel pipes (adaptors for connections to copper pipes, etc are given separately).                                                                                                                                                                                                                                                                                                                                           |      |     |      |        |   |
|                       |         | Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured).                                                                                                                                                                                                                                                                                                                                                                                                                      |      |     |      |        |   |
|                       |         | As-built drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |     |      |        |   |
|                       |         | Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere).                                                                                                                                                                                                                                                 |      |     |      |        |   |
| Total Carried Forward |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |   |

**SECTION D13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT       | DESCRIPTION                                                                                                         | UNIT | QTY | RATE | AMOUNT |   |  |
|-----------------------|---------------|---------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|--|
|                       |               |                                                                                                                     |      |     |      | R      | c |  |
| Brought Forward       |               |                                                                                                                     |      |     |      |        |   |  |
| D13.2                 | PSBW 6.2.14   | RAINWATER DISPOSAL                                                                                                  |      |     |      |        |   |  |
|                       |               | uPVC gutters and rain water pipes                                                                                   |      |     |      |        |   |  |
| D13.2.1               |               | 150 x 125 x 100mm VHV roof gutters                                                                                  | m    | 65  |      |        |   |  |
| D13.2.2               |               | Extra over gutter for stopped end                                                                                   | No.  | 6   |      |        |   |  |
| D13.2.3               |               | Extra over gutter for angle                                                                                         | No.  | 1   |      |        |   |  |
| D13.2.4               |               | Extra over gutter for outlet for 80mm pipe                                                                          | No.  | 4   |      |        |   |  |
| D13.2.5               |               | 80mm Diameter rainwater pipes                                                                                       | m    | 11  |      |        |   |  |
| D13.2.6               |               | Extra over rainwater pipe for bend                                                                                  | No.  | 4   |      |        |   |  |
| D13.2.7               |               | Extra over rainwater pipe for shoe                                                                                  | No.  | 4   |      |        |   |  |
| D13.2.8               |               | Extra over rainwater pipe for eaves or plinth offset                                                                | No.  | 4   |      |        |   |  |
| D13.3                 |               | STORMWATER CHANNELS                                                                                                 |      |     |      |        |   |  |
|                       |               | Precast concrete channels                                                                                           |      |     |      |        |   |  |
| D13.3.1               |               | 200 x 90mm Channels with 105 x 50mm deep segmental channel                                                          | m    | 61  |      |        |   |  |
| D13.3.2               |               | Extra over for angles, intersections, ends, dressing into sides of catchpits, etc                                   | No.  | 4   |      |        |   |  |
| D13.4                 |               | SLEEVES FOR ELECTRICAL AND TELEPHONE CABLES, ETC                                                                    |      |     |      |        |   |  |
|                       |               | uPVC SV pipes                                                                                                       |      |     |      |        |   |  |
| D13.4.1               |               | Set of two 110mm pipes laid side-by-side in and including trenches not exceeding 1m deep                            | m    | 40  |      |        |   |  |
|                       |               | Extra over uPVC SV pipes for fittings                                                                               |      |     |      |        |   |  |
| D13.4.2               |               | 110mm Bend                                                                                                          | No.  | 4   |      |        |   |  |
|                       |               | Draw wires                                                                                                          |      |     |      |        |   |  |
| D13.4.3               |               | 1,6mm Galvanised steel draw wires in pipes                                                                          | m    | 81  |      |        |   |  |
|                       |               | Inspection chambers                                                                                                 |      |     |      |        |   |  |
| D13.4.4               |               | 800 x 800mm Brick inspection chamber 750mm deep internally, including precast concrete cover slab (cover elsewhere) | m    | 2   |      |        |   |  |
|                       |               | Cast iron covers, etc.                                                                                              |      |     |      |        |   |  |
| D13.4.5               |               | 600 x 600mm Cast iron single seal manhole cover and frame                                                           | No.  | 2   |      |        |   |  |
| D13.5                 | SOIL DRAINAGE |                                                                                                                     |      |     |      |        |   |  |
| Total Carried Forward |               |                                                                                                                     |      |     |      |        |   |  |

**SECTION D13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                                  | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|--------------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                              |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                              |      |     |      |        |   |
|                       |         | Heavy duty (Class 34) uPVC sewer and drain pipes                                                             |      |     |      |        |   |
| D13.5.1               |         | 110mm Pipes vertically or ramped to cleaning eyes, etc (no excavation)                                       | m    | 10  |      |        |   |
| D13.5.2               |         | 110mm Pipes laid in and including trenches not exceeding 1m deep                                             | m    | 28  |      |        |   |
|                       |         | Extra over heavy duty (Class 34) uPVC sewer and drain pipes for fittings                                     |      |     |      |        |   |
| D13.5.3               |         | 110mm Bend                                                                                                   | No.  | 10  |      |        |   |
| D13.5.4               |         | 110mm Junction                                                                                               | No.  | 15  |      |        |   |
| D13.5.5               |         | 110mm Access bend                                                                                            | No.  | 4   |      |        |   |
| D13.5.6               |         | 110mm Rodding eye                                                                                            | No.  | 8   |      |        |   |
|                       |         | uPVC gulleys                                                                                                 |      |     |      |        |   |
| D13.5.7               |         | 110mm Gulley not exceeding 500mm deep                                                                        | No.  | 3   |      |        |   |
|                       |         | Brick inspection chambers including precast concrete cover slabs (covers elsewhere) and channels in benching |      |     |      |        |   |
| D13.5.8               |         | 900 x 900mm Inspection chamber not exceeding 1m deep internally                                              | No.  | 3   |      |        |   |
|                       |         | Cast iron covers, etc.                                                                                       |      |     |      |        |   |
| D13.5.9               |         | 900 x 900mm Double seal manhole cover and frame                                                              | No.  | 3   |      |        |   |
| D13.6                 |         | SUNDRIES                                                                                                     |      |     |      |        |   |
| D13.6.1               |         | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock                  | m³   | 7   |      |        |   |
| D13.6.2               |         | Concrete encasing to 110mm horizontal pipes                                                                  | m    | 8   |      |        |   |
| D13.6.3               |         | 350 x 350 x 50mm Precast concrete inspection eye marker slab set in ground                                   | No.  | 8   |      |        |   |
| D13.6.4               |         | Cutting into existing 160mm drain pipe for and forming junction with 110mm pipe                              | No.  | 1   |      |        |   |
|                       |         | Testing                                                                                                      |      |     |      |        |   |
| D13.6.5               |         | Testing soil drainage system                                                                                 | No.  | 1   |      |        |   |
| D13.7                 |         | SANITARY FITTINGS                                                                                            |      |     |      |        |   |
| D13.7.1               |         | Wash hand basin on cupboard (PC R 1,000/No)                                                                  | No.  | 5   |      |        |   |
| D13.7.2               |         | Wash hand basin wall hung (PC R 1,500/No)                                                                    | No.  | 2   |      |        |   |
| D13.7.3               |         | WC suite with cistern and seat (PC R 1,500/No)                                                               | No.  | 5   |      |        |   |
| Total Carried Forward |         |                                                                                                              |      |     |      |        |   |

**SECTION D13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                       | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|-----------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                   |      |     |      | R      | c |
| Brought Forward       |         |                                                                                   |      |     |      |        |   |
| D13.7.4               |         | Wall urinal with spreader and waste union (flush valve elsewhere) (PC R1,000/No)  | No.  | 4   |      |        |   |
|                       |         | Stainless steel                                                                   |      |     |      |        |   |
| D13.7.5               |         | Double sink (PC R 1,500/No)                                                       | No.  | 1   |      |        |   |
| D13.8                 |         | WASTE UNIONS ETC                                                                  |      |     |      |        |   |
|                       |         | Chrome plated                                                                     |      |     |      |        |   |
| D13.8.1               |         | 32mm Basin waste union                                                            | No.  | 7   |      |        |   |
| D13.8.2               |         | 40mm Basin waste union                                                            | No.  | 1   |      |        |   |
| D13.9                 |         | TRAPS ETC                                                                         |      |     |      |        |   |
|                       |         | Rubber                                                                            |      |     |      |        |   |
| D13.9.1               |         | 40mm S trap                                                                       | No.  | 5   |      |        |   |
| D13.9.2               |         | 40mm Double bowl wash trough or sink reseal "P" or "S" trap combination           | No.  | 1   |      |        |   |
|                       |         | Chrome plated                                                                     |      |     |      |        |   |
| D13.9.3               |         | 32mm CP bottle trap                                                               | No.  | 6   |      |        |   |
| D13.10                |         | TAPS, VALVES, ETC                                                                 |      |     |      |        |   |
|                       |         | Brass                                                                             |      |     |      |        |   |
| D13.10.1              |         | 22mm Stopcock                                                                     | No.  | 2   |      |        |   |
| D13.10.2              |         | 15mm Bib-tap                                                                      | No.  | 2   |      |        |   |
|                       |         | Chromium plated                                                                   |      |     |      |        |   |
| D13.10.3              |         | 15mm Angle regulating valve and connection pipe                                   | No.  | 25  |      |        |   |
| D13.10.4              |         | 15mm Pillar tap (PC R 450/No)                                                     | No.  | 14  |      |        |   |
| D13.10.5              |         | 15mm Basin mixer with pop-up waste and angle flow regulating valves (PC R 800/No) | No.  | 1   |      |        |   |
| D13.10.6              |         | Urinal flush valve (PC R180/No)                                                   | No.  | 4   |      |        |   |
| D13.11                |         | SANITARY PLUMBING                                                                 |      |     |      |        |   |
|                       |         | uPVC soil and vent pipes                                                          |      |     |      |        |   |
| D13.11.1              |         | 50mm Pipes                                                                        | No.  | 12  |      |        |   |
| D13.11.2              |         | 110mm Pipes                                                                       | No.  | 7   |      |        |   |
|                       |         | Extra over uPVC soil and vent pipes for fittings                                  |      |     |      |        |   |
| D13.11.3              |         | 50mm End cap                                                                      | No.  | 2   |      |        |   |
| D13.11.4              |         | 110mm End cap                                                                     | No.  | 2   |      |        |   |
| Total Carried Forward |         |                                                                                   |      |     |      |        |   |



**SECTION D13: PLUMBING AND DRAINAGE**

| ITEM NO               | PAYMENT | DESCRIPTION                                                                                               | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|---------|-----------------------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |         |                                                                                                           |      |     |      | R      | c |
| Brought Forward       |         |                                                                                                           |      |     |      |        |   |
| D13.11.5              |         | 50mm BSP adaptor                                                                                          | No.  | 17  |      |        |   |
| D13.11.6              |         | 110mm BSP adaptor                                                                                         | No.  | 27  |      |        |   |
| D13.11.7              |         | 110mm Pan connector                                                                                       | No.  | 5   |      |        |   |
| D13.11.8              |         | 50mm Bend                                                                                                 | No.  | 20  |      |        |   |
| D13.11.9              |         | 110mm Bend                                                                                                | No.  | 8   |      |        |   |
| D13.11.10             |         | 50mm Junction                                                                                             | No.  | 5   |      |        |   |
| D13.11.11             |         | 110mm Junction                                                                                            | No.  | 8   |      |        |   |
| D13.11.12             |         | 110mm Reducing junction                                                                                   | No.  | 7   |      |        |   |
| D13.11.13             |         | 110mm Access bend                                                                                         | No.  | 8   |      |        |   |
| D13.11.14             |         | 110mm Stubstack                                                                                           | No.  | 2   |      |        |   |
| D13.11.15             |         | 110mm Air vent cowl                                                                                       | No.  | 2   |      |        |   |
|                       |         | Testing                                                                                                   |      |     |      |        |   |
| D13.11.16             |         | Testing waste pipe system                                                                                 | No.  | 1   |      |        |   |
| D13.12                |         | WATER SUPPLIES                                                                                            |      |     |      |        |   |
|                       |         | Class 16 uPVC pressure pipes with solvent welded joints                                                   |      |     |      |        |   |
| D13.12.1              |         | 25mm Pipes laid in and including trenches not exceeding 1m deep                                           | m    | 48  |      |        |   |
|                       |         | Extra over Class 16 uPVC pressure pipes for fittings with solvent welded joints                           |      |     |      |        |   |
| D13.12.2              |         | 25mm Fittings                                                                                             | No.  | 5   |      |        |   |
|                       |         | Cobra Pex or similar and approved polypropylene pipes with "Fast-fuse" thermoplastic couplings            |      |     |      |        |   |
| D13.12.3              |         | 15mm Pipes                                                                                                | m    | 15  |      |        |   |
| D13.12.4              |         | 15mm Pipes chased into brickwork including brown paper lagging                                            | m    | 22  |      |        |   |
| D13.12.5              |         | 22mm Pipes                                                                                                | m    | 10  |      |        |   |
| D13.12.6              |         | 22mm Pipes chased into brickwork including brown paper lagging                                            | m    | 16  |      |        |   |
|                       |         | Extra over "Cobra Pex" or similar and approved polypropylene pipes for "Fast-fuse" thermoplastic fittings |      |     |      |        |   |
| D13.12.7              |         | 15mm Fittings                                                                                             | No.  | 32  |      |        |   |
| D13.12.8              |         | 22mm Fittings                                                                                             | No.  | 24  |      |        |   |
| Total Carried Forward |         |                                                                                                           |      |     |      |        |   |

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

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## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

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**SECTION D15: PAINTWORK**

| ITEM NO               | PAYMENT     | DESCRIPTION                                                                                                          | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|-------------|----------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |             |                                                                                                                      |                |     |      | R      | c |
| D15                   | PSBW 6.2.20 | PAINTWORK                                                                                                            |                |     |      |        |   |
| D15.1                 |             | PAINTWORK ETC TO NEW WORK                                                                                            |                |     |      |        |   |
| D15.2                 |             | ON INTERNAL FLOATED PLASTER SURFACES                                                                                 |                |     |      |        |   |
|                       |             | One coat alkali resistant primer and two coats PVA emulsion paint for interior use                                   |                |     |      |        |   |
| D15.2.1               |             | Walls                                                                                                                | m <sup>2</sup> | 483 |      |        |   |
| D15.3                 |             | ON EXTERNAL FLOATED PLASTER SURFACES                                                                                 |                |     |      |        |   |
|                       |             | One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use |                |     |      |        |   |
| D15.3.1               |             | Walls                                                                                                                | m <sup>2</sup> | 286 |      |        |   |
| D15.4                 |             | ON PLASTERBOARD SURFACES                                                                                             |                |     |      |        |   |
|                       |             | One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use                  |                |     |      |        |   |
| D15.4.1               |             | Partitions                                                                                                           | m <sup>2</sup> | 37  |      |        |   |
| D15.4.2               |             | Ceilings and cornices                                                                                                | m <sup>2</sup> | 246 |      |        |   |
| D15.5                 |             | ON FIBRE-CEMENT SURFACES                                                                                             |                |     |      |        |   |
|                       |             | One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use              |                |     |      |        |   |
| D15.5.1               |             | Ceilings and cornices, including priming metal cover strips and nailheads                                            | m <sup>2</sup> | 33  |      |        |   |
| D15.5.2               |             | Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips                          | m              | 65  |      |        |   |
| D15.6                 |             | ON METAL SURFACES                                                                                                    |                |     |      |        |   |
|                       |             | One coat water based primer and two coats premium quality polyurethane enamel paint, on galvanised steel             |                |     |      |        |   |
| D15.6.1               |             | Columns and beams                                                                                                    | m <sup>2</sup> | 7   |      |        |   |
|                       |             | Two coat alkyd based universal undercoat and one coat superior quality universal enamel paint                        |                |     |      |        |   |
| D15.6.2               |             | Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)                      | m <sup>2</sup> | 25  |      |        |   |
| D15.7                 |             | ON WOOD SURFACES                                                                                                     |                |     |      |        |   |
|                       |             | One coat primer and two coats premium quality polyurethane enamel paint                                              |                |     |      |        |   |
| Total Carried Forward |             |                                                                                                                      |                |     |      |        |   |

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

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**SECTION D17: SEWER RETICULATION**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                                                                                                                                                                         | UNIT | QTY | RATE | AMOUNT    |   |
|-----------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|-----------|---|
|                       |              |                                                                                                                                                                                                                                                                                                     |      |     |      | R         | c |
| D17                   |              | SEWER RETICULATION                                                                                                                                                                                                                                                                                  |      |     |      |           |   |
| D17.1                 | SANS 1200 DB | EARTHWORKS (PIPE TRENCHES)                                                                                                                                                                                                                                                                          |      |     |      |           |   |
|                       | 8.3.2        | Excavation                                                                                                                                                                                                                                                                                          |      |     |      |           |   |
|                       |              | a) Excavate in all materials for trenches, backfill and dispose of surplus material                                                                                                                                                                                                                 |      |     |      |           |   |
|                       |              | For pipes with nominal dia up to 450 mm                                                                                                                                                                                                                                                             |      |     |      |           |   |
|                       |              | Over and Up to                                                                                                                                                                                                                                                                                      |      |     |      |           |   |
| D17.1.1               |              | 0,0 m 1,5 m                                                                                                                                                                                                                                                                                         | m    | 30  |      |           |   |
| D17.1.2               |              | 1,5 m 2,5 m                                                                                                                                                                                                                                                                                         | m    | 15  |      |           |   |
|                       |              | b) Extra - over item (a) above for:                                                                                                                                                                                                                                                                 |      |     |      |           |   |
| D17.1.3               |              | 2) Hard rock excavation                                                                                                                                                                                                                                                                             | m³   | 5   |      |           |   |
|                       | 8.3.5        | Existing services that intersect or adjoin a pipe                                                                                                                                                                                                                                                   |      |     |      |           |   |
| D17.1.4               |              | a) Services that intersect a trench                                                                                                                                                                                                                                                                 | No.  | 1   |      |           |   |
| D17.1.5               |              | b) Services that adjoin a trench                                                                                                                                                                                                                                                                    | m    | 5   |      |           |   |
| D17.2                 | SANS 1200 LB | BEDDING (PIPES)                                                                                                                                                                                                                                                                                     |      |     |      |           |   |
|                       | 8.2.1        | Provision of bedding from trench excavation                                                                                                                                                                                                                                                         |      |     |      |           |   |
| D17.2.1               |              | a) Selected granular material                                                                                                                                                                                                                                                                       | m³   | 1   |      |           |   |
| D17.2.2               |              | b) Selected fill material                                                                                                                                                                                                                                                                           | m³   | 2   |      |           |   |
|                       | 8.2.2.3      | Provision of Bedding by Importation from Commercial sources                                                                                                                                                                                                                                         |      |     |      |           |   |
| D17.2.3               |              | a) Selected granular material                                                                                                                                                                                                                                                                       | m³   | 4   |      |           |   |
| D17.2.4               |              | b) Selected fill material                                                                                                                                                                                                                                                                           | m³   | 10  |      |           |   |
| D17.3                 | SANS 1200 LD | SEWERS                                                                                                                                                                                                                                                                                              |      |     |      |           |   |
|                       | 8.2.1        | Supply, lay, joint, bed and test sewer pipes (heavy duty) with spigot and socket rubber ring joints:                                                                                                                                                                                                |      |     |      |           |   |
| D17.3.1               |              | 110 mm diameter Class 34 uPVC                                                                                                                                                                                                                                                                       | m    | 45  |      |           |   |
| D17.3.2               |              | 160 mm diameter Class 34 uPVC                                                                                                                                                                                                                                                                       | m    |     |      | Rate Only |   |
|                       | 8.2.3        | Manholes as per detail drawing 23-OVM-003/G705                                                                                                                                                                                                                                                      |      |     |      |           |   |
|                       |              | Supply all materials and construct 1,05m diameter precast concrete manholes with class D400, Standard type 2A ductile iron cover (non-ventilated) and frame, 560mm opening, SANS Approved (cast into slab, manholes to be raised 150mm above ground where located outside road reserve) for depths: |      |     |      |           |   |
| Total Carried Forward |              |                                                                                                                                                                                                                                                                                                     |      |     |      |           |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

TENDER

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D17: SEWER RETICULATION

[illegible]



**SECTION D18: STORMWATER DRAINAGE**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                              | UNIT | QTY | RATE | AMOUNT |   |
|-----------------------|--------------|------------------------------------------------------------------------------------------|------|-----|------|--------|---|
|                       |              |                                                                                          |      |     |      | R      | c |
| D18                   |              | STORMWATER DRAINAGE                                                                      |      |     |      |        |   |
| D18.1                 | SANS 1200 DB | EARTHWORKS (PIPE TRENCHES)                                                               |      |     |      |        |   |
|                       | 8.3.2        | Excavation                                                                               |      |     |      |        |   |
|                       |              | a) Excavate in all materials for trenches, backfill and dispose of surplus material      |      |     |      |        |   |
|                       |              | For pipes with nominal dia up to 450 mm                                                  |      |     |      |        |   |
|                       |              | Over and Up to                                                                           |      |     |      |        |   |
| D18.1.1               |              | 0,0 m 1,5 m                                                                              | m    | 0   |      |        |   |
| D18.1.2               |              | 1,5 m 2,5 m                                                                              | m    | 0   |      |        |   |
|                       |              | b) Extra - over item (a) above for:                                                      |      |     |      |        |   |
| D18.1.3               |              | 2) Hard rock excavation                                                                  | m³   | 0   |      |        |   |
|                       | 8.3.5        | Existing services that intersect or adjoin a pipe                                        |      |     |      |        |   |
| D18.1.4               |              | a) Services that intersect a trench                                                      | No.  | 0   |      |        |   |
| D18.1.5               |              | b) Services that adjoin a trench                                                         | m    | 0   |      |        |   |
| D18.2                 | SANS 1200 LB | BEDDING (PIPES)                                                                          |      |     |      |        |   |
|                       | 8.2.1        | Provision of bedding from trench excavation                                              |      |     |      |        |   |
| D18.2.1               |              | a) Selected granular material                                                            | m³   |     |      |        |   |
| D18.2.2               |              | b) Selected fill material                                                                | m³   |     |      |        |   |
|                       | 8.2.2.3      | Provision of Bedding by Importation from Commercial sources                              |      |     |      |        |   |
| D18.2.3               |              | a) Selected granular material                                                            | m³   |     |      |        |   |
| D18.2.4               |              | b) Selected fill material                                                                | m³   |     |      |        |   |
| D18.3                 | SANS 1200 LE | STORMWATER DRAINAGE                                                                      |      |     |      |        |   |
|                       | 8.2.1        | Supply, handle, lay, bed in Class B bedding, concrete pipe with spigot and socket joints |      |     |      |        |   |
| D18.3.1               |              | a) 300 mm diameter Class 100D                                                            | m    |     |      |        |   |
| D18.3.2               |              | b) 375 mm diameter Class 100D                                                            | m    |     |      |        |   |
|                       | 8.2.8        | Supply and Install Manholes, Catchpits                                                   |      |     |      |        |   |
|                       |              | a) Manholes as per detail drawing 23-OVM-003/G705                                        |      |     |      |        |   |
|                       |              | Precast concrete for up to 450 mm pipes - 1.0 m dia manhole                              |      |     |      |        |   |
|                       |              | Over and Up to                                                                           |      |     |      |        |   |
| D18.3.3               |              | 0,0 m 1,5 m                                                                              | No.  |     |      |        |   |
| Total Carried Forward |              |                                                                                          |      |     |      |        |   |

## CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

**SECTION D19: ROADWORKS**

| ITEM NO               | PAYMENT      | DESCRIPTION                                                                                                                                 | UNIT           | QTY | RATE | AMOUNT |   |
|-----------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|--------|---|
|                       |              |                                                                                                                                             |                |     |      | R      | c |
| D19                   |              | ROADWORKS                                                                                                                                   |                |     |      |        |   |
| D19.1                 | SANS 1200 DM | EARTHWORKS (ROADS, SUBGRADE)                                                                                                                |                |     |      |        |   |
|                       | 8.3.3        | Treatment of Roadbed                                                                                                                        |                |     |      |        |   |
| D19.1.1               |              | 2) 150 mm thick Roadbed preparation and compaction of material to minimum of 93% MOD AASHTO density                                         | m <sup>3</sup> | 15  |      |        |   |
| D19.1.2               | 8.3.7        | Cut to Spoil: Excavate in all material and dispose.                                                                                         | m <sup>3</sup> | 2   |      |        |   |
|                       |              | Surface finishes                                                                                                                            |                |     |      |        |   |
| D19.1.3               |              | Shaping and Trimming of Road Reserves                                                                                                       | m <sup>2</sup> | 5   |      |        |   |
| D19.2                 | SANS 1200 ME | SUBBASE                                                                                                                                     |                |     |      |        |   |
|                       | 8.3.3        | Construct Subbase with material from commercial sources                                                                                     |                |     |      |        |   |
| D19.2.1               |              | Import from commercial sources, 150 mm thick G5 natural gravel material for road base, compacted to 95 % of modified AASHTO maximum density | m <sup>3</sup> | 15  |      |        |   |
| D19.3                 | SANS 1200 MJ | SEGMENTED PAVING                                                                                                                            |                |     |      |        |   |
|                       | 8.2.2        | Construction of Paving Complete (25mm sand bedding etc): All included                                                                       |                |     |      |        |   |
| D19.3.1               |              | 60mm Interlocking Grey Cement Pavers Class 40/2.6 (35 MPa minimum), laid in a Herringbone Pattern.                                          | m <sup>2</sup> | 95  |      |        |   |
| D19.3.2               | 8.2.3        | Cutting Units to fit Edge Restraints                                                                                                        | m              | 50  |      |        |   |
| D19.3.3               | 8.2.4        | Rolling of units to lock-up condition as specified in clause 5.6.2 of SANS 1200 MJ                                                          | m <sup>2</sup> | 95  |      |        |   |
| D19.4                 | SANS 1200 MM | ANCILLARY ROADWORKS                                                                                                                         |                |     |      |        |   |
|                       | 8.3          | Permanent road traffic signs                                                                                                                |                |     |      |        |   |
|                       | 8.3.1        | Road sign faces, 1,6mm thick pre-painted galvanized steel, with painted symbols, characters, legend and borders of areas over and up to:    |                |     |      |        |   |
| D19.4.1               |              | 1) 0 m <sup>2</sup> to 2 m <sup>2</sup> (R578 - Disabled Sign)                                                                              | No             | 1   |      |        |   |
|                       | 8.3.2        | Extra-over on item above for the provision and application of retro-reflective material:                                                    |                |     |      |        |   |
| D19.4.2               |              | a) High intensity grade (Class II) retro-reflective background, characters, symbols, legend and border                                      | Sum            | 1   |      |        |   |
| D19.4.3               |              | b) Galvanized steel tubing road sign supports                                                                                               | No             | 1   |      |        |   |
| D19.4.4               |              | Excavation, backfilling and concreting for road sign supports                                                                               | m <sup>3</sup> | 1   |      |        |   |
| Total Carried Forward |              |                                                                                                                                             |                |     |      |        |   |

## SCHEDULE D: ELUXOLWENI - PEARLY BEACH

[illegible]

**SUMMARY OF SECTIONS**

| SECTION | DESCRIPTION                                          | AMOUNT<br>(RAND) |
|---------|------------------------------------------------------|------------------|
| D1      | SECTION D1: SITE CLEARANCE                           | .....            |
| D2      | SECTION D2: EARTHWORKS                               | .....            |
| D3      | SECTION D3: CONCRETE (STRUCTURAL)                    | .....            |
| D4      | SECTION D4: MASONRY                                  | .....            |
| D5      | SECTION D5: WATERPROOFING                            | .....            |
| D6      | SECTION D6: ROOF COVERINGS                           | .....            |
| D7      | SECTION D7: CARPENTRY AND JOINERY                    | .....            |
| D8      | SECTION D8: CEILINGS, PARTITIONS AND ACCESS FLOORING | .....            |
| D9      | SECTION D9: FLOOR COVERINGS, WALL LININGS, ETC       | .....            |
| D10     | SECTION D10: METALWORK                               | .....            |
| D11     | SECTION D11: PLASTERING                              | .....            |
| D12     | SECTION D12: TILING                                  | .....            |
| D13     | SECTION D13: PLUMBING AND DRAINAGE                   | .....            |
| D14     | SECTION D14: GLAZING                                 | .....            |
| D15     | SECTION D15: PAINTWORK                               | .....            |
| D16     | SECTION D16: ELECTRICAL WORK                         | .....            |
| D17     | SECTION D17: SEWER RETICULATION                      | .....            |
| D18     | SECTION D18: STORMWATER DRAINAGE                     | .....            |
| D19     | SECTION D19: ROADWORKS                               | .....            |
|         | SUBTOTAL                                             | .....            |
|         | Add 15% VAT                                          | .....            |
|         | Total Carried Forward To Summary Of Schedules        | .....            |

SUMMARY OF SCHEDULES

| SCHEDULE | DESCRIPTION                           | AMOUNT<br>(RAND) |
|----------|---------------------------------------|------------------|
| 2        | SCHEDULE A: PRELIMINARY AND GENERAL   | .....            |
| 2        | SCHEDULE B: BAMBANANI - KLEINMOND     | .....            |
| 2        | SCHEDULE C: MASAKHANE - GANSBAAI      | .....            |
| 4        | SCHEDULE D: ELUXOLWENI - PEARLY BEACH | .....            |
| Total    |                                       | .....            |

**DECLARATION (In respect of completeness of Tender)**

Department Agriculture Land Reform and Rural Development  
14 Long Street  
CAPE TOWN  
8000

I/we, the undersigned, do hereby declare that these are the properly priced Bills of Quantities forming Part C2.2 of this Contract Document containing 139 pages in consecutive order upon which my/our tender for **TENDER NO. SSC WC 1 (2024/2025) DALRRD: APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE** has been based.

-----  
SIGNATURE OF TENDERER/S

-----  
DATE

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

**CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD**

**APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

**PART C3: SCOPE OF WORK**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**PART C3.1: Description of Works**

**CONTENT**

|                |                                                                          |                 |
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|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**C 3.1.1**      Employer's Objectives

The objective of the Employer is to expand on three (3) existing Early Childhood Development Centres (ECD's) located in Bambanani, Kleinmond; Masakhane, Gansbaai and Eluxolweni, Pearly Beach in the Overstrand Local Municipality, Western Cape. The employer's objective is to also deliver the ECD's by utilising local labour within the communities. Labour intensive works shall comprise the activities described in the Labour-Intensive Specification or any other activities as may be identified by the Contractor.

**C 3.1.2**      Overview of The Works

The works in this contract include excavation for the re-laying of existing- and the installation of new stormwater and sewage infrastructure. The building works will entail new reinforced concrete foundations and brickwork superstructures with associated cladded timber roof structures. Construction will further entail plumbing and sanitary allowances in all the buildings, including water connections and waste disposal. Allowance is also made for earthworks and installation paving on designed platform levels with perimeter fencing on all sites.

**C 3.1.3**      Scope of Works

The work to be carried out under this contract consists mainly of the following:

- Site clearance for the removal of trees and topsoil clearance.
- Earthworks for service excavation and platform creation.
- Concrete works for new foundations and surface beds.
- Masonry works.
- Waterproofing to new structures.
- Structural roof components, roof coverings and ceilings.
- Carpentry and joinery.
- Plumbing and drainage.
- Wall and floor finishes, including plastering and paintwork.

**This description of the works is not necessarily complete and shall not limit the work to be carried out by the Contractor under this contract.**

Approximate quantities of each type of work are given in the schedule of quantities.

**C 3.1.4**      Description of Site and Conditions

The sites are located as follows:

Bambanani - Kleinmond, Western Cape - 34°20'17.03" S, 19°00'31.02" E.  
Masakhane – Gansbaai, Western Cape - 34°35'27.95" S, 19°21'37.06" E.  
Eluxolweni – Pearly Beach, Western Cape - 34°39'12.57" S, 19°29'16.81" E.

**C 3.1.5**      Temporary Works

The Contractor shall be responsible for designing and providing any temporary works required. The Contractor shall allow for the cost of all temporary works, including design, provision and their removal, in his tendered rates.

Such temporary works shall be removed upon completion of the Works and the site of such temporary works re-instated to a condition acceptable to the Environmental requirements.

a) Other services (Telkom electricity etc.) / protection of existing works

Items have been allowed for in the Bill of Quantities for dealing with and protecting existing services where they are known. The Contractor will, however, ensure that prior to construction all the necessary Record Drawings and Wayleaves for all services have been obtained and verified on site by the relevant Service Providers in his presence. The Contractor must request in writing that the relevant official indicates the said services at least 48 hours prior to the commencement of the works.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

The Contractor shall take whatever precautions are required to protect all existing services from damage during the period of the Contract. Any damage to existing services indicated by the relevant service providers or other damage as a result thereof, shall be for the Contractor's account.

Photographical evidence shall be taken by the contractor before any work is done in close proximity to existing property, services, structures or any other infrastructure.

b) Survey beacons and benchmarks

The Contractor shall be responsible for the preservation of all land survey, erf or other pegs, benchmarks or beacons. If damage or disturbance of any such pegs or beacons is caused due to vandalism, the operations of the Contractor or his subcontractors, the pegs are to be replaced by a Registered Land Surveyor at the cost of the Contractor. Benchmarks will be replaced by the Engineer at the Contractor's expense.

Information regarding the position of all such pegs will be made available to the Contractor by the Engineer on request.

The Contractor is to ensure that no spoil is placed over an erf peg or benchmarks and that they are adequately protected for the full duration of the Contract.

Where disturbances of boundary pegs is unavoidable due to excavation of other operations adjacent to pegs, the Contractor shall advise the Engineer or his Representative immediately, agreement is to be reached that disturbance of the peg is unavoidable and a strict record of such disturbed pegs is to be kept. Such pegs are to be replaced by a Registered Land Surveyor as described above and the Contractor is to submit proof of the cost of replacement of pegs. The Contractor will be reimbursed on a basis pro-rata to the total cost of peg replacement determined on completion of the Works.

c) Tidying up of the works

The Contractor shall take note that the progressive and systematic finishing and tidying will form an essential part of this contract. On no account shall spoil, stockpiles, rubble, materials, equipment or unfinished operations be allowed to accumulate in such a manner as to unnecessarily be a hindrance or impede the activities of other the public or the Client. In the event of this occurring, the Employer shall have the right to withhold payment for as long as may be necessary in respect of the relevant works in the area(s) concerned.

Upon completion of the Works, or any portion thereof, the ground, fences, gates and any structures that have been interfered with are to be carefully restored to their original condition or better and all rubbish, tools, tackle, plant and materials must be removed, so as to leave the Site in a clean and orderly condition. No additional payment will be made for such work.

d) Temporary traffic control

The Contractor will be responsible for the design and implementation of all temporary traffic control measures where the works shall impact the public road network. To this end, all traffic control measures implemented by the Contractor shall be in accordance with The South African Road Traffic Signs Manual, Volume 2, Chapter 13.

e) Shoring of excavations

The Contractor will be required to make allowance for shoring and protection against collapse of all excavations deeper than 1.5m from the surrounding natural ground level. Alternatively battering of side slopes of the excavation will be allowed.

**C 3.1.6** Work to be carried out by others (under separate contracts)

The following works will be carried out under separate contracts by others:

- None

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## PART C3: SCOPE OF WORK

### C3.2: ENGINEERING

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**PART C3.2: Engineering**

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| <b>C 3.2.3</b> | <b>Contractor's Design .....</b> | <b>C3 - 127</b>  |
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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.2.1 Design

- a) The Employer is responsible for the design of the permanent Works as reflected in the Contract Documents unless otherwise stated.
- b) The Contractor is responsible for the design of the Temporary Works and their compatibility with the permanent Works.

The design responsibility per stage is summarized as follows:

- Concept, feasibility and overall process: - Employer
- Basic Engineering and detail layouts to tender stage: - Employer
- Final design to approved for construction stage: - Employer
- Temporary works and Wayleaves: - Contractor
- Preparation of as built drawings: - Contractor

Amendments to the design, if necessary, will be issued during the construction phase.

C 3.2.2 Employer's Design

The Consultants are responsible for the design of all permanent works and not the temporary works utilized by the Contractor. The Contractor shall be solely responsible for ensuring the safety and efficacy of his designs for temporary works. For those portions of the work scheduled as 'Design and Build', the Consultant must still approve in writing all designs before construction commences, although this will not relieve the Contractor of his responsibilities relating thereto.

C 3.2.3 Contractor's Design

Where the Contractor is to supply the design of designated parts of the permanent Works or temporary Works, he shall supply full working drawings supported by a professional engineer's design certificate.

The design of the temporary works shall be carried out in accordance with all relevant standards and codes of practice, with particular emphasis on the requirements of the OHS Act.

These drawings will have to be submitted for approval to the relevant authorities (Employer / Employer's Agent / H&S Agent/Local Authority) prior to commencement of the Works.

C 3.2.4 Drawings

The drawings listed below are attached to give an overview of the project. Additional construction drawings will be issued to the Contractor by the Engineer/ Employer on commencement date and thereafter from time to time as required.

The drawings that form part of the tender document are to be used for tender purposes only. On award of the Contract, the successful bidder will receive three (3) sets of unreduced paper prints of each drawing free of charge. Any additional prints will be for the account of the Contractor.

Only figured dimensions shall be used and drawings shall not be scaled unless so instructed by the Engineer. The Engineer shall supply all figured dimensions omitted from the drawings.

Any information in possession of the Contractor that the Engineer requires in order to complete his as-built drawings shall be supplied to the Engineer before a Certificate of Completion will be issued.

The following drawings are applicable to the contract and are issued with this tender document and will form part of the Contract Documents as Volume 4.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

| DRAWING NUMBER           | DRAWING TITLE                                                                       |
|--------------------------|-------------------------------------------------------------------------------------|
| <b><u>Survey</u></b>     |                                                                                     |
| SUR101                   | Bambanani (Kleinmond) Existing Layout                                               |
| SUR102                   | Bambanani (Kleinmond) Proposed Layout                                               |
| SUR103                   | Maskhane (Gansbaai) Existing Layout                                                 |
| SUR104                   | Maskhane (Gansbaai) Proposed Layout                                                 |
| SUR105                   | Eluxolweni (Pearly Beach) Existing Layout                                           |
| SUR106                   | Eluxolweni (Pearly Beach) Proposed Layout                                           |
| <b><u>Structures</u></b> |                                                                                     |
| ST601                    | Bambanani (Kleinmond) Proposed Building Floor Plan & Electrical Layout              |
| ST602                    | Bambanani (Kleinmond) Proposed Building Window Schedule                             |
| ST603                    | Bambanani (Kleinmond) Proposed Building Elevations & Details                        |
| ST604                    | Maskhane (Gansbaai) Proposed Building Floor Plan & Electrical Layout                |
| ST605                    | Maskhane (Gansbaai) Proposed Building Section & Fence Details                       |
| ST606                    | Maskhane (Gansbaai) Proposed Building Elevations                                    |
| ST607                    | Maskhane (Gansbaai) Proposed Roof Layout                                            |
| ST608                    | Maskhane (Gansbaai) Proposed Fire Escape Plan                                       |
| ST609                    | Eluxolweni (Pearly Beach) Proposed Building Floor Plan, Electrical Layout & Details |
| ST610                    | Eluxolweni (Pearly Beach) Proposed Building Elevations (Sheet 1 of 2)               |
| ST611                    | Eluxolweni (Pearly Beach) Proposed Building Elevations (Sheet 2 of 2)               |
| ST612                    | Eluxolweni (Pearly Beach) Proposed Building Sections (Sheet 1 of 2)                 |
| ST613                    | Eluxolweni (Pearly Beach) Proposed Building Sections (Sheet 2 of 2)                 |
| ST614                    | Eluxolweni (Pearly Beach) Proposed Door Details                                     |
| ST615                    | Eluxolweni (Pearly Beach) Proposed Roof Layout                                      |
| ST616                    | Eluxolweni (Pearly Beach) Proposed Fire Plan Layout                                 |
| <b><u>General</u></b>    |                                                                                     |
| G701                     | Contract Nameboard                                                                  |
| G702                     | Typical Road Details                                                                |
| G703                     | Typical Stormwater Details                                                          |
| G704                     | Typical Fencing Details                                                             |
| G705                     | Permanent Contract Nameboard                                                        |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## PART C3: SCOPE OF WORK

### C3.3: PROCUREMENT

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



**PART C3.3: Procurement**

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.3.1 Preferential Procurement

Tenders will be evaluated in terms of the criteria and selected method included in Part T1.2: Tender Data.

C3.3.2 Subcontractors

The Contractor shall not subcontract more than 5 % of the value of the contract to subcontractors that do not have an equal or higher B-BBEE status level than the Contractor, unless such subcontractors are exempted micro enterprises that can demonstrate to the satisfaction of the Employer's Agent that they have the capability and ability to execute the subcontract works. The Contractor is encouraged to make use of local emerging subcontractors.

Where monetary allowances for provisional sums or prime cost items have been provided in the Bills of Quantities, and where the work is to be executed/supplied by sub-contractors/suppliers then the following selection process shall be followed in respect of the required sub-contractors/suppliers:

- Where monetary allowances for provisional sums or prime cost items allowed and the monetary allowance is less than R200 000.00, the Contractor shall invite three quotations from suitably qualified sub-contractors/suppliers, the selection of which shall be in consultation with, and to the approval of the Employer's Agent, for the required work or items.
- Where these monetary allowances exceed R200 000.00 an open tender process will have to be followed in respect of a subcontractor for this work, unless otherwise advised and approved by the Employer. In such cases where a tender process is to be followed, the tender will be issued by the Employer's Agent on behalf of the Contractor.

The quotes shall include full technical descriptions as well as a breakdown of prices, which shall be submitted to the Employer's Agent for approval.

The evaluation of the quotation received must include a preference points system as described in C3.11 of the Standard Conditions of Tender.

C3.3.3 Attendance on subcontractors

Approval given in terms of subcontracting shall not relieve the Contractor of any responsibility, duty or obligation imposed upon him by the Contract, and the Contractor shall in particular be and remain solely liable and responsible for all acts, omissions, negligence or breaches of contract on the part of the assignee or any of his employees, and for all acts, omissions or negligence of any Sub-Contractor or any of his employees.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**PART C3: SCOPE OF WORK**

**C3.4: CONSTRUCTION**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PART C3.4: Construction

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

### C3.4.1 WORKS SPECIFICATIONS

#### 3.4.1.1 APPLICABLE SANS 1200 STANDARDS

Although not bound in or issued with this document, the following standardised specifications shall form part of the Contract, and, notwithstanding the provisions of clause 2.2 SANS 1200A, the editions specified below will apply:

|              |      |                                              |
|--------------|------|----------------------------------------------|
| SANS 1200A   | 1986 | General                                      |
| SANS 1200AA  | 1986 | General (small works)                        |
| SANS 1200AB  | 1986 | Engineer's office                            |
| SANS 1200AH  | 1986 | General (structural)                         |
| SANS 1200C   | 1980 | Site clearance                               |
| SANS 1200D   | 1988 | Earthworks                                   |
| SANS 1200DB  | 1989 | Earthworks (Pipe Trenches)                   |
| SANS 1200DK  | 1996 | Gabions and Pitching                         |
| SANS 1200DM  | 1981 | Earthworks (roads, subgrade)                 |
| SANS 1200G   | 1982 | Concrete (structural)                        |
| SANS 1200GA  | 1982 | Concrete (small works)                       |
| SANS 1200GB  | 1982 | Concrete (ordinary buildings)                |
| SANS 1200H   | 1990 | Structural steelwork                         |
| SANS 1200HA  | 1990 | Structural steelwork (sundry items)          |
| SANS 1200HB  | 1985 | Cladding and sheeting                        |
| SANS 1200HC  | 1988 | Corrosion protection of structural steelwork |
| SANS 1200HE  | 1983 | Structural aluminium work                    |
| SANS 1200L   | 1983 | Medium-pressure pipe lines                   |
| SANS 1200LB  | 1983 | Bedding (pipes)                              |
| SANS 1200LC  | 1981 | Cable ducts                                  |
| SANS 1200LD  | 1982 | Sewers                                       |
| SANS 1200LE  | 1982 | Stormwater drainage                          |
| SANS 1200M   | 1996 | Roads (general)                              |
| SANS 1200ME  | 1981 | Subbase                                      |
| SANS 1200MF  | 1981 | Base                                         |
| SANS 1200MFL | 1996 | Base (light pavement structures)             |
| SANS 1200MG  | 1996 | Bituminous surface treatment                 |
| SANS 1200MH  | 1996 | Asphalt base and surfacing                   |
| SANS 1200MJ  | 1984 | Segmented paving                             |
| SANS 1200MK  | 1983 | Kerbing and channeling                       |
| SANS 1200MM  | 1984 | Ancillary roadworks                          |

#### 3.4.1.2 APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS

No other standards than those mentioned in 3.4.1.1 above are deemed to be applicable.

#### 3.4.1.3 PARTICULAR / GENERIC SPECIFICATIONS

In certain instances, the Standard Specifications listed in 3.4.1 above allow a choice to be specified in the Scope of Work between alternative materials or methods of construction. Allowance is also made for additional requirements to be specified to suit each particular contract. Details of such alternatives or additions are contained in this part of the Scope of Works. In addition, it contains some supplementary specifications required for this particular contract. Sub-clauses referred to are those in the relevant Standardised Specification.

The number of each clause and each payment item in this part of the project specifications consists of the prefix PS followed by a number corresponding to the number of the relevant clause or payment item in the standard specifications. The number of a new clause or a payment item which does not form part of a clause or a payment item in the standard specifications and which is included here, is also prefixed by PS followed by a new number. The new numbers follow on the last clause or item number used in the relevant section of the standard specifications.

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**3.4.1.4 CERTIFICATION BY RECOGNIZED BODIES**

Not applicable to this contract.

**3.4.1.5 AGREEMENT CERTIFICATES**

Not applicable to this contract.

**3.4.2 PLANT AND MATERIALS**

**3.4.2.1 PLANT AND MATERIALS SUPPLIED BY THE EMPLOYER**

No “free issue” plant and materials will be incorporated in this contract.

**3.4.2.2 MATERIALS, SAMPLES AND SHOP DRAWINGS**

It is a requirement of this contract that all commercial/imported materials to be built into the Works be inspected and approved by representatives of the Employer and the Employer’s Agent to ensure adherence to the specifications. Samples of all materials will be required to be presented to the Employer’s Agent’s Representative (RE) on site for approval. Materials built into the permanent works without prior approval of the RE may be ordered to be removed and replaced with approved materials. Such inspections and approvals may include but are not limited to the following:

- Road and layer works materials
- Imported earthworks materials
- All pipe materials and related pipe fittings and pipe specials
- Manhole lids and covers

**3.4.3 CONSTRUCTION EQUIPMENT**

**3.4.3.1 REQUIREMENTS FOR EQUIPMENT**

There are no minimum requirements for any of the construction equipment other than those stated elsewhere in these specifications.

**3.4.3.2 EQUIPMENT PROVIDED BY THE EMPLOYER**

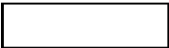
No construction equipment will be provided by the Employer.

**3.4.4 EXISTING SERVICES**

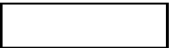
**3.4.4.1 KNOWN SERVICES**

Prior to commencing work, the Contractor shall confirm with all Authorities and Departments concerned and obtain the necessary wayleaves for both overhead and underground services affected by the Works and shall satisfy himself that he has obtained all the relevant information required to complete the Contract. The Contractor will be liable for obtaining all the necessary wayleaves and work permits from the relevant service authorities prior to the commencement of work within the road reserve.

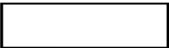
The Employer will make available all information relating to known services within the site boundaries and the immediate vicinity prior to the start of the construction of the works. The Contractor will be expected to expose and detect the location of such known services in all locations where they may interfere with the construction of the Works. Where such known services are located, the Contractor will be expected to mark and keep accurate records of the location and depth of services. The Contractor must provide the complete set of records to the Employer’s Agent and highlight deviations from the Employer’s as-built records. The Employer’s Agent will then determine if any amendments are required to the design.



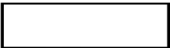
Contractor



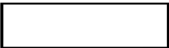
Witness 1



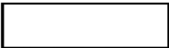
Witness 2



Employer



Witness 1



Witness 2

**3.4.4.2 TREATMENT OF EXISTING SERVICES**

The Contractor will be required as part of this contract to connect all piped services to the existing surrounding infrastructure. Where outages to sections of the water and sewer networks are required, the Contractor is expected to apply to the Employer for such outages in a timeous manner. Connection to any of the existing services will be done strictly according to the requirements of the municipality.

**3.4.4.3 USE OF DETECTION EQUIPMENT FOR THE LOCATION OF UNDERGROUND SERVICES**

Where exposure of existing services by hand excavation is not feasible it is expected that the Contractor will acquire and make use of appropriate detection equipment. Costs for the purchase and/or hire of basic cable route and pipe flow detection equipment is assumed to be included in the contract rates. No additional payment will be certified should the use of such equipment be required.

**3.4.4.4 DAMAGE TO SERVICES**

The Contractor will be held liable for damage to all known services and services where the location can be reasonably predicted. If an underground service is located within 2m (in all directions) of the position shown on as-built records, it will be deemed to be a known service. Damage to unknown services will be the responsibility of the Employer.

**3.4.4.5 REINSTATEMENT OF SERVICES AND STRUCTURES DAMAGED DURING CONSTRUCTION**

The reinstatement of services and structures damaged by the Contractor during Construction will be the responsibility of the Contractor, unless the service or structure to be reinstated is of a specialised nature. Reinstatement of specialised services and structures will be done by the Employer for the Contractor's account. Approval from the RE to be sought before commencing with any reinstatement or repair of services and structures.

**3.4.5 SITE ESTABLISHMENT**

**3.4.5.1 SERVICES AND FACILITIES PROVIDED BY THE EMPLOYER**

The Employer will be responsible for providing electricity to the Contractor. Electricity will be provided via a metered supply which will be for the Contractor's account. The Contractor will be responsible for the application to the municipality for an electrical site connection. Any costs related to such application and connection will be deemed to be included in the Contractor's site establishment contract rates.

Water will be provided via a metered supply from the local municipality which will be for the Contractor's account. The contractor will be responsible for the application to the municipality for a metered water connection. Any costs to such application will be deemed to be included in the Contractor's site establishment contract rates.

**3.4.5.2 FACILITIES PROVIDED BY THE CONTRACTOR**

**The Contractor will be expected to provide the following services and facilities on site:**

- Telecommunication services for use by Contractor and the Employer's Agent's Representative - Internet, data and cell phone/airtime.
- Ablution facilities
- First aid
- Office, workshop and construction camp facilities
- All security staff employed by the contractor must be registered with Private Security Industry Regulatory Authority (PSiRA). Proof of such registration must be made available to the employer's agent upon request.

**3.4.5.3 STORAGE AND LABORATORY FACILITIES**

The contractor shall be responsible for his own storage facilities and security thereof. At this stage no laboratories would be required on site as all quality control testing must be done by an accredited testing facility.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**3.4.5.4 OTHER FACILITIES AND SERVICES**

**Other temporary facilities necessary for providing the works which are not provided by the Employer are as follows:**

- Telecommunications for all site staff
- Security services as described elsewhere in this document
- Medical and first aid facilities for all persons visiting or working on the construction site.
- Fire protection services for all activities related to the construction of the works.
- Waste disposal of all construction waste generated by the Contractor
- Temporary sanitation/toilet facilities on site as required by applicable legislation. Separate facilities required for males and females where required.

**3.4.5.6 ADVERTISING RIGHTS**

Should the Contractor wish to erect any signage or display any advertisements within the site other than the approved contract nameboard, it may only be done with the prior written approval of the Employer.

**3.4.5.7 NOTICE BOARDS**

The Employer or the Employer's Agent will provide the Contractor with a design for the manufacture of the contract nameboard/s. Payment for such nameboard/s will be claimed by the Contractor under the relevant payment item. The nameboard/s will have to be erected at the commencement of the works on site and will need to be maintained in good condition for the duration of the contract period. The exact position for the installation of the nameboard/s will be pointed out to the Contractor by the Employer.

The nameboard/s will be removed and disposed of by the Contractor at the conclusion of the defect's liability period. The cost for such removal and disposal needs to be included in the tendered rate allowed for the nameboard/s in the contract bill of quantities.

**3.4.6 SITE USAGE**

The contractor will be allowed to work within the site boundaries. The areas where special precautions must be taken and/or working permission to be obtained, will be pointed out on site by the RE on site or the Client Representative / Project manager. Any work done outside the allowable area without prior written permission can lead to penalties.

**3.4.7 PERMITS AND WAYLEAVES**

The Contractor shall be responsible for obtaining all of the necessary wayleaves, permissions or permits applicable to working near any existing services or other infrastructure on Site, and shall ensure that any wayleaves, permissions or permits obtained by the Employer's Agent prior to the award of the contract are transferred into the Contractor's name.

The Contractor shall abide by any conditions imposed by such wayleaves, permissions or permits. The Contractor shall ensure that all wayleaves, permissions and permits are current and kept on site and are available for inspection by the relevant service authorities on demand. The Contractor shall also ensure that any wayleaves in respect of electricity services are renewed timeously every three months.

**3.4.8 ALTERATIONS, ADDITIONS, EXTENSIONS AND MODIFICATIONS TO EXISTING WORKS**

The Contractor will be required to confirm the position and levels of all existing services and connection points to the surrounding pipe and road reticulation networks. Where materials differences in levels and/or position of services are discovered the Contractor needs to inform the Employer's Agent immediately so that the necessary changes can be made to the layouts and design levels.

**3.4.9 INSPECTION OF ADJOINING PROPERTIES**

The contractor will be required to inspect, with the owners, the various properties bordering on the construction site and record any pre-existing damage or defects to buildings, structures, roads or pipes. Accurate records need to

|                                                                                                         |                                                                                                        |                                                                                                        |                                                                                                       |                                                                                                        |                                                                                                        |
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|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|



be kept by the Contractor in the event that claims are received from neighbouring property owners for damages to their property.

**3.4.10 WATER FOR CONSTRUCTION PURPOSES**

Water will be provided via a metered supply from the local municipality which will be for the Contractor's account. The contractor will be responsible for the application to the municipality for a metered water connection. Any costs to such application will be deemed to be included in the Contractor's site establishment contract rates.

**3.4.11 SURVEY CONTROL AND SETTING OUT OF THE WORKS**

The Employer's Agent will provide the Contractor with survey benchmarks upon the contract commencement date. The Contractor will be expected to use these benchmarks as the basis for all survey control and the setting out of the works. The Contractor will assume full responsibility for the accuracy of their setting out of the works. The RE will do regular inspections on site to confirm the accuracy of the setting out of the works. The Contractor will be expected to make the necessary staff and equipment available to the RE for such inspections. Any portions of the work found to be outside of the relevant tolerances as specified will have to be redone at the Contractor's cost.

**3.4.12 LOCAL PRODUCTION AND CONTENT**

The Contractor will be required to comply with all requirements as stated in this document.

**3.4.13 EMPLOYMENT OF SECURITY PERSONNEL**

All security staff employed by the contractor on behalf of the Department or at any Departmental property must be registered with Private Security Industry Regulatory Authority (PSiRA). Proof of such registration must be made available to the employer's agent upon request.

|                                                                                                         |                                                                                                        |                                                                                                        |                                                                                                       |                                                                                                        |                                                                                                        |
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|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|

## PART C3: SCOPE OF WORK

### C3.5: Management

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## PART C3.5: Management

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Witness 1

Witness 2

Employer

Witness 1

Witness 2

### C3.5.1 CONSTRUCTION PROGRAMME AND METHODS

The Contractor shall programme the works.

The Contractor will be required to identify three (3) Site Agents (one for each site) with similar past experience on projects with similar scope and nature. The Site Agents are required to be on a similar level of experience to the individual for which the past experience was listed in the tender document (Section T2.2.11 – Form K) and who was scored in the tender's Functionality Criteria (Section T1.2 – Tender Data). The Employer reserves the right to request an alternative Site Agent and postpone the project commencement date until all Site Agents are deemed adequate.

Construction methods must be of such nature that no property or life on site or adjacent to the works is endangered. The Employer accepts no responsibility for work that is done outside the site boundaries without the Engineer's approval.

All open excavations on site must be clearly demarcated and safeguarded before it is left overnight, during weekends and on public holidays. All excavations shall be backfilled and finished to the complete satisfaction of the Engineer.

The number of days quoted below shall be regarded as a fair estimate of the delays to be anticipated and allowed for under normal climatic conditions where inclement weather prevents or disrupts **work on the critical path** of the approved construction programme.

|          |        |
|----------|--------|
| January  | 2 days |
| February | 2 days |
| March    | 2 days |
| April    | 2 days |
| May      | 2 days |

June to September 16 days cumulative

(Unless Due Completion of any portion of the Works falls within this period, then 4 days of weather delays per month shall be allowed for.)

|          |        |
|----------|--------|
| October  | 2 days |
| November | 2 days |
| December | 2 days |

It shall be further noted that where the critical path is not affected, no extension of time for abnormal climatic conditions or for any other reason will be entertained.

The Contractor shall programme separately for the detection, exposing and modification of existing services at the start of the contract at least fourteen (14) days prior to the proposed crossings. The position and levels thereof must be recorded and forwarded to the Engineer so that any adjustments to the design can be made if necessary. No extension of time arising out of any delay in completing this work will be considered.

The Contractor shall submit within two (2) weeks after site-handover to the Engineer an updated construction programme indicating all construction activities, phasing, handing over of sections, resources, timelines, monthly expenditure and critical path with specific reference to criteria in C3.5.1 for the duration of the construction period indicated for approval. The Contractor will not be allowed to commence with any work before this programme has been agreed upon and approved by the Engineer.

The Contractor himself is responsible for liaison and the necessary arrangements with property owners, relevant local and road authorities, Eskom, Telkom and Neotel in respect of service crossings and the finalisation and approval of the works programme.

The compilation of the construction programme and any amendments thereto during the course of construction shall be at the cost of the Contractor and shall not be measured elsewhere in this contract.

The Contractor shall record progress against the programme. The Contractor shall draw the Engineer's

|             |             |             |             |             |             |
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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

attention immediately to any activities that fall behind programme and shall inform the Engineer how he proposes to get back on programme. Progress meetings shall be held monthly on site.

The Contractor himself is responsible for liaison with property owners with regards to the programming of construction activities through private properties and the crossing of access ways to properties at least fourteen (14) days before such construction activities commence. No additional payment will be made in this regard.

Sufficient photos of existing structures, walls and areas that have to be crossed must be taken by the Contractor and handed over to the Engineer before such operations commence. No payment will be made in this regard and it shall be deemed to be covered in the preliminary and general items.

#### **C3.5.2 QUALITY PLANS AND CONTROL**

The Contractor shall have a well-documented Quality Assurance system depicting his approach to guarantee quality control and the procedures for preventative and corrective actions in order to ensure compliance with the specified standards and requirements of this contract.

The Contractor is required to carry out his own control testing, but if he so wishes, and agrees to abide by the results of the Engineer's check test, he may dispense with his own tests. However, should the Contractor wish to use the Engineer's testing facilities, he will be charged for the various tests at the rates ruling at the time.

Any additional tests requested by the Contractor or any retests required, due to failure of the initial tests, will be charged to the Contractor at the rates ruling at the time.

The Contractor shall inform the Engineer of any control testing to be done at least 48 hours before such tests are required and must allow in his programme for the time necessary for the tests and the processing of the results thereof.

#### **C3.5.3 PRODUCTS AND MATERIALS USED**

All products and materials used that forms part of the permanent works of this contract shall comply with the applicable SANS.

#### **C3.5.4 RECORDING OF WEATHER**

The Contractor shall erect a rain gauge on site within one week of site establishment or agree with the Engineer to use statistics from an approved weather station in the area.

#### **C3.5.5 FORMAT OF COMMUNICATIONS**

All communications regarding the contract shall be channelled through the Engineer and/or his duly authorized representative.

The Contractor shall supply a site instruction book (triplicate) which must be available on site at all times. The site instruction book forms part of the official contract documentation.

A "Progress Report", "Labour on Site" and "Plant on Site" must be submitted at each site meeting.

#### **C3.5.6 MANAGEMENT MEETINGS**

Management (site) meetings shall be held once a month for the duration of the project on times and dates to be agreed.

Technical meetings shall be held once a month for the duration of the project on times and dates to be agreed. Health and Safety management meetings will be arranged by the appointed Health and Safety Officer (HSO) for the duration of the contract.

#### **C3.5.7 PAYMENT CERTIFICATES**

The date of measurement of the monthly payment certificate will be agreed at the first site meeting. All

|            |           |           |          |           |           |
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| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

quantities must be agreed with the Resident Engineer/Clerk of Works before a payment certificate is submitted.

### C3.5.8 EXISTING SERVICES

#### C3.5.8.1 Known services

The positions of existing services, insofar as they are known, are shown on the drawings. Items have been allowed in the Schedule of Quantities for dealing with and protecting services.

The contractor shall take whatever precautions are required to protect these services from damage during the period of the contract.

#### C3.5.8.2 Treatment of existing services

**The** treatment of existing services, i.e. their termination, diversion of continued use, either temporarily or permanently, if required, is shown on the relevant drawings. Any services encountered on site which are not shown on the drawings, must be pointed out to the Engineer. The Engineer will issue further instruction with regard to the treatment of these services.

#### C3.5.8.3 Use of detection equipment for the location of underground services

**Specialist equipment** for the detection of underground services shall only be used or hired on instruction of the Engineer.

#### C3.5.9.4 Damage to services

**If existing** services are not shown on the drawings but the existence thereof can be reasonably expected, the Contractor shall, in conjunction with all relevant authorities, determine the exact depth and location of such services before the commencement of construction. After locating the exact position of services, whether indicated on the drawings or not, such services shall be deemed to be known services and the Contractor shall be liable for all costs and subsequent costs arising from the damage thereof as a result of the Contractor's activities. These services must also be indicated on the "Record" drawings.

#### C3.5.8.5 Reinstatement of services and structure damaged during construction

The requirements and reinstatement procedures for the notification and repair of damage to services, penalties applicable to the damage of services, etc. will be discussed at the first meeting (site hand-over).

### C3.5.9 SITE ESTABLISHMENT

#### C3.5.9.1 Services and facilities provided by the Employer

(i) Source of Water Supply

The Contractor may make application to the Local Authorities for a clean water supply point, but shall bear all the costs for the installation of such supply point. Water used by the Contractor from the Employer's mains will be charged for at the tariffs ruling at the time of use.

The Contractor shall make himself thoroughly acquainted with the regulations relating to the use of water and shall take adequate measures to prevent the wastage of water.

The Employer accepts no responsibility for the shortage of water due to any cause whatsoever, nor additional costs incurred by the Contractor as a result of such shortage.

The Contractor shall take note that no direct payment will be made for any costs incurred for the provision of a water supply point nor for the cost of water drawn. Payment for the aforementioned shall be deemed to be covered by the rates and prices tendered and paid for the various items of work included under the Contract.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

(ii) Source of Power Supply

The Contractor is to make his own arrangements with the Electrical Service Provider for electricity supply, if required, and shall pay establishment and consumption costs at the tariffs ruling at the time.

(iii) Location of Site Camp, Materials Storage and Temporary Stockpiling Area

The position of the site camp, designated area for materials storage and temporary stockpiling shall be submitted to the Engineer for approval.

The Contractor shall confine his camp and storage of materials to the designated areas. On completion of the construction works the surface of the areas utilised shall be re-instated to the original state.

**C.3.5.9.2 Facilities provided by the Contractor**

(i) Temporary Offices

As detailed elsewhere in this document.  
Site meetings will be held in the Contractor's site office.

(ii) Sanitary facilities

The Contractor shall supply chemical toilets for use by his workmen. The number of toilets shall be based on one toilet per fifteen personnel on site.  
Under no circumstances will the Contractor's staff be allowed to use public toilet facilities.

(iii) Telephone facilities

No telephone facilities are required for the Engineer.

(iv) Housing for Contractor's employees

No housing is available for the Contractor's employees, and the Contractor shall make his own arrangements for housing his employees or transporting them to and from the site. The Contractor is in all respects responsible for the housing and transporting of his employees, and for the arrangement thereof, and no extension of time due to any delays resulting from this, will be granted.

**C3.5.9.3 Storage and laboratory facilities**

No storage and laboratory facilities are required on site.

**C3.5.9.4 Other facilities and services**

No housing is available for the Contractor's employees, and the Contractor shall make his own arrangements for housing for his employees or transporting them to and from the site. The Contractor is in all respects responsible for the housing and transporting of his employees, and for the arrangement thereof, and no extension of time due to any delays resulting from this will be granted.

**C3.5.9.5 Advertising rights**

The Contractor will be permitted to erect a maximum of two (2) of his own name boards in positions approved by the Engineer. The Engineer reserves the right to order the removal of these boards if they are not kept in good repair.

**C3.5.9.6 Notice boards**

The name board required shall be as detailed on Standard Drawing in the tender document under Part C5.

**C.3.5.10 PERMITS AND WAY LEAVES**

The Contractor shall obtain the necessary permits and wayleaves from the relevant authorities before any

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

construction work may commence. The Employer/Engineer will provide the necessary drawings for the application of the permits and wayleaves.

The Contractor must allow in his preliminary and general rates for the costs to obtain the permits and wayleaves, as well as in his construction programme.

#### **C3.5.11 ALTERATIONS, ADDITIONS, EXTENSIONS AND MODIFICATIONS TO EXISTING WORKS**

The Contractor must familiarise himself of the position of all existing services and structures and report any discrepancies or services not shown on the drawing to the Engineer.

The Contractor must verify the list of benchmarks shown on the drawings for the setting out of the works, and confirm their correctness in the Site Instruction Book.

#### **C3.5.12 INSPECTION OF ADJOINING PROPERTIES**

If necessary, the adjacent properties or existing services within the site must be inspected with representatives of the relevant authorities before commencing with the works. The Contractor must also take photographs of all existing services, streets and structures in the residential area. Special care should be given to private property.

#### **C3.5.13 SURVEY CONTROL AND SETTING OUT OF THE WORKS**

Before commencement of work, the Contractor is to liaise with the Engineer to establish exactly the status of all boundary pegs in the Township. The position of all erf pegs found will be recorded on a marked-up print of the Township.

The Engineer will issue instructions on alterations, additions, extensions and modifications to existing works if necessary.

#### **C3.5.14 FEATURES REQUIRING SPECIAL ATTENTION**

##### **C3.5.14.1 Safety regulations**

Both the "Factories, Machinery and Building Work Act (Act 22 of 1941) and the "Machinery and Occupational Safety Act (Act 6 of 1983)" must, wherever they appear in the SABS 1200 standardised specifications, be substituted by the "Occupational Health and Safety Act (Act 85 of 1993)" and Specifications bound into this document.

The Contractor shall apply suitable proven methods for construction complying with the OHS Act so that his activities will not constitute a hazard to his work force, the public or any adjacent property. All excavations shall be suitable safeguarded and barricaded especially during night-time, weekends or holidays and any other day of inactivity by the Contractor. The Contractor shall also ensure that excavations are shored or otherwise made safe.

The camp and construction site will be locked after hours to ensure safety of passers-by. No additional payment will be made to the Contractor for complying with these requirements.

##### **C3.5.14.2 "Record" drawings**

As the work progresses, the Contractor shall keep full records of all amendments to and deviations from the drawings as issued to the Contractor at the start of the contract. The Contractor must submit this information monthly with his payment certificate to the Engineer. The true positions, invert levels and ground levels of all services shall be indicated on the drawings, for which purpose the Contractor shall receive a separate complete set of drawings from the Engineer at no cost. The actual position and depth of any future connections, as well as any previously unknown existing services shall also be provided.

The completion certificate shall only be issued after the Engineer has received a properly completed set of "record" drawings from the Contractor. No separate payment shall be made for this service as all

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



costs related thereto shall be deemed to be included in the relevant items.

#### **C3.5.14.3 Finishing and tidying**

Progressive and systematic finishing and tidying will form an essential part of this contract. Under no circumstances shall spoil, rubble, materials, equipment or unfinished operations be allowed to accumulate unnecessarily and in the event of this occurring the Engineer shall have the right to withhold payment for as long as necessary in respect of the relevant works in the area(s) concerned. The closest municipal landfill sites are as follows:

Bambanani – Kleinmond: Karwyderskraal 34°19'55.2" S, 19°09'39.6" E.

Masakhane – Gansbaai: Gansbaai Landfill Site 34°35'13.2" S, 19°21'54.0" E.

Eluxolweni – Pearly Beach: Gansbaai Landfill Site 34°35'13.2" S, 19°21'54.0" E.

#### **C3.5.14.4 Work considered to be labour based (labour extensive)**

It is a condition of this contract that the following components of work must be executed using labour based construction methods.

- Excavation of trenches in soft material;
- Laying and joining of all pipes with a nominal diameter of 600 mm or less;
- Stormwater manhole construction;
- Backfilling of all trenches with compaction excluded;
- Placing and finishing of concrete of small concrete for small concrete works;
- Fencing work;
- All cleaning and finishing off.

##### **Note:**

The above-mentioned work must be done by local labourers employed by the Contractor, except for key personnel.

#### **C3.5.14.5 Community Liaison Officer (CLO)**

The Contractor must employ three (3) Community Liaison Officials on a full-time basis for the entire duration of the contract to act as a link between the Contractor, the labourers and the local community.

The primary task of the CLOs will be the recruitment of labourers according to the labour list and the management of labour relations with the assistance of the Project Steering Committee.

The Community Liaison Officers' duties will be:

- a) To be available on site during normal construction working hours.
- b) To communicate daily with the Contractor and the Engineer to determine the labour requirements with regard to numbers and skill, to identify possible labour disputes and to assist in their resolution.
- c) To attend all meetings in which the community and/or labour is present or is required to be represented. In particular he/she will attend site meetings to report on the local community labour involvement.
- d) To identify, screen and nominate labour from the labour pools provided by the community in accordance with the Contractor's requirement.
- e) To inform local labour of their conditions of temporary employment, to ensure their timeous availability and to inform local labourers timeously when they will be relieved.
- f) To attend disciplinary proceedings and to ensure that hearings are fair and reasonable.
- g) To keep a daily written record of his/her interviews concerning community liaison.
- h) To keep a daily written report of all local labour used on the project.
- i) To meet with the Project Steering Committee on a monthly basis before the monthly project progress meeting and report back to the project team all items raised in the Project Steering Committee meeting.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## ANNEXURE A

### PRO-FORMA REQUEST FOR INFORMATION (RFI) FORMAT

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Contractor

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Witness 1

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Witness 2

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Employer

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Witness 1

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|--|

Witness 2

REQUEST FOR INFORMATION

PROJECT: .....

RFI ref.no.

REQUEST DATE: .....

FROM: .....

TO: .....

COMPANY: .....

COMPANY: .....

| Involved Disciplines                         |                                                   | Reason for Request                                |                                        | Action Required |  |
|----------------------------------------------|---------------------------------------------------|---------------------------------------------------|----------------------------------------|-----------------|--|
| <input type="checkbox"/> Architect           | <input type="checkbox"/> Fire Consultant          | <input type="checkbox"/> Insufficient information | <input type="checkbox"/> Clarification |                 |  |
| <input type="checkbox"/> Structural Engineer | <input type="checkbox"/> Telecommunication & Data | <input type="checkbox"/> Incorrect Information    | <input type="checkbox"/> Direction     |                 |  |
| <input type="checkbox"/> Civil Engineer      | <input type="checkbox"/> Project Manager          | <input type="checkbox"/> Engineering Conflict     | <input type="checkbox"/> Approval      |                 |  |
| <input type="checkbox"/> Electrical Engineer | <input type="checkbox"/> PQS                      | <input type="checkbox"/> Alternative Proposal     | <input type="checkbox"/> Other:        |                 |  |
| <input type="checkbox"/> Mechanical Engineer |                                                   | <input type="checkbox"/> Other:                   |                                        |                 |  |
| <input type="checkbox"/> Other:              |                                                   |                                                   |                                        |                 |  |

| Probable Effect                                    |                                              |                                         |                                           |
|----------------------------------------------------|----------------------------------------------|-----------------------------------------|-------------------------------------------|
| <input type="checkbox"/> Additional time requested | <input type="checkbox"/> Decrease in time    | <input type="checkbox"/> No time impact | <input type="checkbox"/> To be determined |
| <input type="checkbox"/> Additional Cost Impact    | <input type="checkbox"/> Reduced Cost Impact | <input type="checkbox"/> No Cost Impact | <input type="checkbox"/> To be determined |
| <input type="checkbox"/> Other (specify):          |                                              |                                         |                                           |

QUESTIONS / CONCERNS (Requester)

Detailed description of request:

Suggestion:

Respond not later than:

| RESPONSE                                           |                                                        |
|----------------------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> Approved                  | <input type="checkbox"/> Not approved                  |
| <input type="checkbox"/> Cost Implication approved | <input type="checkbox"/> Cost Implication not approved |
| <input type="checkbox"/> Issue revised drawing(s)  | <input type="checkbox"/> Issue Method Statement        |
| <input type="checkbox"/> Other:                    |                                                        |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

## PART C3: SCOPE OF WORK

### C3.6: SPECIFICATIONS

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**PART C3.6: Specifications**

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|                                                                                       |                 |
|---------------------------------------------------------------------------------------|-----------------|
| <b>C3.6.1: Standard Specifications.....</b>                                           | <b>C3 - 156</b> |
| <b>C3.6.2: Variations and Additions to the SANS Standardized Specifications .....</b> | <b>C3 - 158</b> |

|             |             |             |             |             |             |
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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

## **PART C3: SCOPE OF WORK**

### **C3.6.1: STANDARD SPECIFICATIONS**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

### C3.6.1: Standard Specifications

#### APPLICABLE STANDARDIZED SPECIFICATIONS

For the purposes of this contract, the following SANS 1200 Standardized Specifications for civil engineering construction shall apply:

|                     |             |                                                     |
|---------------------|-------------|-----------------------------------------------------|
| <b>SANS 1200A</b>   | <b>1986</b> | <b>General</b>                                      |
| <b>SANS 1200AA</b>  | <b>1986</b> | <b>General (small works)</b>                        |
| <b>SANS 1200AB</b>  | <b>1986</b> | <b>Engineer's office</b>                            |
| <b>SANS 1200AH</b>  | <b>1986</b> | <b>General (structural)</b>                         |
| <b>SANS 1200C</b>   | <b>1980</b> | <b>Site clearance</b>                               |
| <b>SANS 1200D</b>   | <b>1988</b> | <b>Earthworks</b>                                   |
| <b>SANS 1200DB</b>  | <b>1989</b> | <b>Earthworks (Pipe Trenches)</b>                   |
| <b>SANS 1200DK</b>  | <b>1996</b> | <b>Gabions and Pitching</b>                         |
| <b>SANS 1200DM</b>  | <b>1981</b> | <b>Earthworks (roads, subgrade)</b>                 |
| <b>SANS 1200G</b>   | <b>1982</b> | <b>Concrete (structural)</b>                        |
| <b>SANS 1200GA</b>  | <b>1982</b> | <b>Concrete (small works)</b>                       |
| <b>SANS 1200GB</b>  | <b>1982</b> | <b>Concrete (ordinary buildings)</b>                |
| <b>SANS 1200H</b>   | <b>1990</b> | <b>Structural steelwork</b>                         |
| <b>SANS 1200HA</b>  | <b>1990</b> | <b>Structural steelwork (sundry items)</b>          |
| <b>SANS 1200HB</b>  | <b>1985</b> | <b>Cladding and sheeting</b>                        |
| <b>SANS 1200HC</b>  | <b>1988</b> | <b>Corrosion protection of structural steelwork</b> |
| <b>SANS 1200HE</b>  | <b>1983</b> | <b>Structural aluminiumwork</b>                     |
| <b>SANS 1200L</b>   | <b>1983</b> | <b>Medium-pressure pipe lines</b>                   |
| <b>SANS 1200LB</b>  | <b>1983</b> | <b>Bedding (pipes)</b>                              |
| <b>SANS 1200LC</b>  | <b>1981</b> | <b>Cable ducts</b>                                  |
| <b>SANS 1200LD</b>  | <b>1982</b> | <b>Sewers</b>                                       |
| <b>SANS 1200LE</b>  | <b>1982</b> | <b>Stormwater drainage</b>                          |
| <b>SANS 1200M</b>   | <b>1996</b> | <b>Roads (general)</b>                              |
| <b>SANS 1200ME</b>  | <b>1981</b> | <b>Subbase</b>                                      |
| <b>SANS 1200MF</b>  | <b>1981</b> | <b>Base</b>                                         |
| <b>SANS 1200MFL</b> | <b>1996</b> | <b>Base (light pavement structures)</b>             |
| <b>SANS 1200MG</b>  | <b>1996</b> | <b>Bituminous surface treatment</b>                 |
| <b>SANS 1200MH</b>  | <b>1996</b> | <b>Asphalt base and surfacing</b>                   |
| <b>SANS 1200MJ</b>  | <b>1984</b> | <b>Segmented paving</b>                             |
| <b>SANS 1200MK</b>  | <b>1983</b> | <b>Kerbing and channeling</b>                       |
| <b>SANS 1200MM</b>  | <b>1984</b> | <b>Ancillary roadworks</b>                          |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**C3.6.2**

**VARIATIONS AND ADDITIONS TO THE SANS STANDARDIZED  
SPECIFICATIONS**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2



SANS 1200 A - GENERAL

PSA 8.3.3 Scheduled Fixed Charge and Value Related Items: Other Fixed Charge Obligations

Add the following:

“The Contractor will be responsible for obtaining all relevant wayleaves from all relevant bodies before commencing works. The costs, overheads, and profits for obtaining wayleaves and liaising with relevant authorities will be deemed to be included in the rate tendered for this item. In addition, the Contractor will be solely responsible for obtaining these wayleaves and no claims for extension of time will be entertained in the event of works being stopped due to wayleaves not being obtained.”

PSA 8.4 Measurement and Payment: Scheduled time related items (SANS 1200A CI 8.4)

Add the following payment items:

PSA 8.4.6 Contractor’s obligation in respect of Health and Safety Unit: Sum

The tendered sum shall include full compensation for compliance with the requirements of the OHS Act and Regulations for the full duration of the Contract. The sum will be paid to the Contractor in equal monthly payments subject to compliance.

PSA 8.4.7 a) Standing time costs: Plant Unit: Day

The item above will cater for all associated costs relating to standing time charged by the Contractor for Plant. This rate does not refer to singular items of plant, but the entire fleet of plant to be used during construction at any time.

PSA 8.4.7 b) Standing time costs: Labour Unit: Day

The item above will cater for all associated costs relating to standing time charged by the Contractor for Labour. This rate does not refer to single labourers, but the entire labour force to be used during construction at any time.

PSA 8.4.7 c) Standing time costs: Other resources (to be specified by the Contractor). Unit: Day

The item above will cater for all associated costs relating to standing time charged by the Contractor for any other resource not allowed for in (a) and (b). Should a rate be provided for this item, the Contractor needs to specify the resource.

PSA 8.5 Measurement and Payment: Sums Stated Provisionally by the Engineer (SANS 1200A CI 8.5)

Add the following payment items:

All items stated as a provisional sum will cater for all costs associated with the provision of the relevant service. This includes but is not limited to all taxes, levies, accommodation, PPE, UIF, PAYE etc. The percentages tendered for shall cover the Contractor’s overheads, charges and profits for the amounts provided for.

PSA 8.5 (c) Cellular telephones: Unit: Prov. Sum

Cost of calls in connection with contract administration by the Engineers’ Representative.

PSA 8.5 (d) Handling costs and profit in respect of subitem (c) Unit: Percentage

PSA 8.7 Daywork

Add the following Payment Items:

Test results shall not be evaluated by statistical methods. All results shall comply with the specified minimum requirements of the materials concerned.

Labour:

PSA 8.7 a) Unskilled labour Unit: Hour

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

PSA 8.7 b) Semi-skilled labour Unit: Hour

PSA 8.7 c) Skilled labour Unit: Hour

The items above (8.7 (a) to (c)) will cover all costs related with the provision of labour in the mentioned categories on a dayworks basis. Only net working hours will be measured under daywork, and it will be held that the Contractor has made provision in other rates for possible interruptions and standing time.

Plant:

PSA 8.7 d) Excavator Unit: Hour

PSA 8.7 e) Graders Unit: Hour

PSA 8.7 f) Front end Loader Unit: Hour

PSA 8.7 g) Rollers Unit: Hour

PSA 8.7 h) TLB Unit: Hour

PSA 8.7 i) Trucks (10m³) Unit: Hour

PSA 8.7 j) Water Trucks Unit: Hour

PSA 8.7 k) Plate Compactor/Rammer Compactor Unit: Hour

The items above (8.7 (d) to (k)) will cover all costs related to the provision of the various plant resources on a dayworks basis. Only net working hours will be measured under daywork, and it will be held that the Contractor has made provision in other rates for possible interruptions and standing time. It will be assumed that the capacity, specification and size of the plant resources for which rates are provided will be similar to those that will actually be used during the construction of the works. Where possible at tender stage, the specifications of the plant resources should be specified under this item.

PSA 8.9 Additional Fixed charged items Unit: Month

This rate will include the total monthly Preliminary and General fixed charged items cost if the tenderer is appointed for all the "Rate Only" Items in this tender, increasing the scope of works.

PSA 8.10 Additional Fixed charged items Unit: Month

This rate will include the total monthly Preliminary and General Time-Related items cost if the tenderer is appointed for all the "Rate Only" Items in this tender, increasing the scope of works.

**End of PSA**

**SANS 1200 AB – ENGINEER’S OFFICE**

PSAB 8.1 Measurement and Payment

Add the following:

"All costs, overheads and profits associated with the items listed above (including those specified in the project specifications) are deemed to be included in the rates tendered under SANS1200A (Preliminary and General)."

**End of PSAB**

|            |           |           |          |           |           |
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|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**SANS 1200 C – SITE CLEARANCE**

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| PSC 8.2.1  | Clear and Grub                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit: ha             |
|            | Add the following to the item:<br><br>"The rate shall include the clearing and demolishing of all types of rubble, and any other operations to complete the works, where approved by the Engineer."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |
| PSC 8.2.2  | Remove and grub large trees and tree stumps of girth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit: No             |
|            | Add the following to the item:<br><br>"The rate shall include the acquiring of all necessary permits or associated documentation for the removal of endangered species. All documentation to be provided to Engineer before removal takes place."                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |
| PSC 8.2.9  | Transport Materials and Debris to Unspecified Sites and Dump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                      |
|            | Add the following to the item:<br><br>"All materials and debris that is not being used by the contractor must be removed and taken to the municipal dumping site at their own cost."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |
| PSC 8.2.11 | Dismantle, stockpile / store and maintain Existing Paver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Unit: m <sup>2</sup> |
|            | Add the following new item:<br><br>"The rate shall cover all cost for removal of existing pavers neatly stacking and storing the material as well as maintain the material until such a time it is required to be reinstated in the old position. No additional payment will be made for the replacement of pavers material that has been damaged by the Contractor. The contractor must clearly mark and distinguish between the material stored on site to ensure the correct material is reinstated on the appropriate owners' property."                                                                                                                                                                         |                      |
| PSC 8.2.12 | Re-lay Pavers to standard upon completion of works with material from stockpile                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit: m <sup>2</sup> |
|            | Add the following new item:<br><br>"The rate shall cover all the cost for the re-lay of the pavers with the existing material, including additional surface preparation for the pavers. No additional payment will be made for the replacement of pavers that has been damaged/not maintained by the Contractor.<br><br>Material that is unsuitable for re-lay must be viewed by the Engineer before it is removed after which the Engineer must give written approval for the replacement thereof and for payment, therefore."                                                                                                                                                                                      |                      |
| PSC 8.2.13 | Clearing of Existing Temporary/Semi-Permanent Structures on existing erven and the reinstating of these structures after construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit: m <sup>2</sup> |
|            | Add the following new item:<br><br>"This rate to allow for photographing the condition of existing structures in the way of construction, getting approval (signed letter) from the erf owners to dismantle or relocate the structure to a new preferred location out of the way of any construction, the dismantling of temporary structures, storing the material, procuring further additional material required to reconstruct the structure at a new preferred location upon completion of the installation of the erf connections. This rate should allow all the supply of materials, installation of materials, labour and any other cost involved with relocating the temporary/semi-permanent structures." |                      |

**End of PSC**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SANS 1200 D – EARTHWORKS

PSD 8.3.2      Measurement and Payment: Scheduled Items: Bulk Excavation      Unit: m<sup>3</sup>

Add the following after the item description:

“All excavation of material classified under a) Soft excavation and b) Intermediate excavation under clause 1200D 3.1.2 will be paid for under payment item 1200D 8.3.2 a) as amended here. There will be no separate payment item scheduled for intermediate excavation and it will be assumed that the rate tendered for 1200D 8.3.2 a) will allow for both soft excavation and intermediate excavation as classified in 1200D.

PSD 8.3.4 d) Import to fill, material from commercial sources compacted to 93% MOD AASHTO      Unit: m<sup>3</sup>

Add the following:

“The rate for importation of commercial material (minimum G9 classification or better) shall include all cost of royalties if applicable, acquiring suitable material (minimum G9 classification or better), forming of access, removal of overburden, loading, transportation, offloading at point of placing, removal of access and replacing overburden. The rate also needs to allow for spreading out of material after offloading, watering and compacting of the material in a uniform layer to 90% of MOD AASTHO.

PSD 8.3.10      Topsoiling      Unit: m<sup>2</sup>

Add the following to Sub-clause:

“The rate shall cover the cost of importing topsoil from borrow pit within 5km radius from the site in terms of 5.2.2.2 and hauling and spreading in terms of 5.2.4.2.”

Add the following to Sub-clause:

“The rate shall cover the cost of importing topsoil from commercial sources in terms of 5.2.5.1 and spreading in terms of 5.2.4.2.”

END OF PSD

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

**SANS 1200 SECTION DB: EARTHWORKS (PIPE TRENCHES)**

PSDB 8.1.2 b) Basic Principles

*Replace subclause (b) with the following:*

“Separate items will be scheduled for lengths of trench of depths not exceeding certain depths as per the bill of quantities”.

PSDB 8.1.2 c) Basic Principles

*Replace the last sentence of subclause (c) with the following:*

“The ground surface will be that existing after any bulk excavation has been carried out and before any embankment has been constructed, unless a portion of the embankment has to be constructed in order to achieve an acceptable cover over a pipe that is to be installed, in which case measurement will be made from the level of embankment that produces an acceptable minimum cover over the pipe. The depth of the excavation for measurement and payment purposes will be as specified in Sub-clause 8.1.2 (b).”

PSDB 8.2.4 Shoring

Add the following to DB 8.2.4:

Shoring will only be measured and paid for if written approval is given by the Engineer before it is installed.

PSDB 8.3.2 a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material Unit: m

Add the following to D 8.3.2(a):

The depth of excavation in street reserves shall be measured from the final finished level.

In cases where services lay parallel to steep slopes, the depth of the excavation will be measured along the centre of the trench (on the route of the service).

The rate for excavation for subsurface drains shall cover the cost of excavation and spoil of surplus material within 1,0 km.

The rate shall also provide for the fact that the excavation width in sand will be wider than normal and that fast excavation and backfill will reduce ground water seepage.

PSDB 8.3.2. b) Payment will only be made if so added by the engineer and only if a 20 ton excavator with rock breaking teeth is incapable to complete the work and a pneumatic breaker is required.

PSDB.8.3.2 c) Excavate unsuitable material from trench bottom Unit: m

*Add the following after the last paragraph under subclause (c):*

“The rates for excavation of trenches shall also cover the costs of battering trench sides or providing shoring to trenches as deemed necessary by Contractor in light of his obligations under the Occupational Health and Safety Act.

Where battering of trench side slopes is chosen in lieu of shoring, the rate shall also cover any additional protection of services, replacement of erf pegs or any other additional cost resulting from battering the side slopes.

The depth of excavation in street reserves shall be measured from the final finished level.

In cases where services lay parallel to steep slopes, the depth of the excavation will be measured along the centre of the trench (on the route of the service).

The rate for excavation for subsurface drains shall cover the cost of excavation and spoil of surplus material as described in D5.2.2.3.

The rate shall also provide for the fact that the excavation width in sand will be wider than normal and that fast excavation and backfill will reduce ground water seepage.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

i) Electric cable trenches

Excavation for electric cables not laid with other services will be measured and paid for separately under the relevant depth increments. The rate shall provide for excavation, preparing trench lengths as requested by the electrical subcontractor, backfilling and compaction thereof. The rate shall also make provision for the possibility that long trenches need to be prepared for the electrical Contractor to lay full cable lengths (up to 300 m) and immediate backfilling after the installation of the cable (same day) to prevent theft.

ii) Combined trenches

The rate for excavation and backfilling of trenches with more than one service, shall allow for trench widths as set out in PS DB 5.2 and the bill of quantities. Extra bedding and fill blanket will be measured as in the case of normal pipe trenches.

The depth increment for combined trenches is determined by the deepest pipe in the trench.”

PSDB 8.3.2 d) Hand excavation and backfill Unit: m<sup>3</sup>

The provisions of PS DB 8.3.2(a), DB 8.3.2(b) and PS DB 8.3.2(c) shall apply mutatis mutandis for hand excavation. Payment shall only be made if so ordered by the Engineer.

PSDB 8.3.2 e) Extra-over PS DB 8.3.2(a) for temporary stockpiling of material Unit: m<sup>3</sup>

Temporary stockpiling of material will only be measured and paid for if ordered so in writing by the Engineer and if it is not contaminated with unsuitable material.

The rate shall provide for the handling and stockpiling of the material within the free haul distance.

PSDB 8.3.3.1 Make up deficiency in backfill material (provisional) Unit: m<sup>3</sup>

Add the following to DB 8.3.3.1:

d) Stockpile Unit: m<sup>3</sup>

Add the following to the last paragraph of DB 8.3.3.1:

No payment will be made for the transport of material from commercial sources or sources outside the site that the Contractor has selected.

PSDB 8.3.3.3 Compaction in road reserves Unit: m<sup>3</sup>

Add the following to DB 8.3.3.3:

This item is only applicable to the backfill above the bedding and fill blanket.

PSDB 8.3.4 b) Temporary works: Control water inflow

Substitute DB 8.3.4(b) with the following:

1) Provide equipment Unit: Set

2) Operate and maintain Unit: Days

3) Remove equipment Unit: Set

4) Remove, move and reinstall existing sets of equipment Unit: Set

The rate for (1) above shall cover the cost of providing the necessary plant and materials, fully erected and operative on site for a set of equipment as described in PS DB 4.4.

The rate for (2) above shall cover the cost of operating and maintaining the pumps, well points sheeting, close lumbering and other equipment, as applicable, for 24 hours a day. The amount of days allowed for shall be the accumulated amount of set days of all sets. Pro rata set days will be measured where a set is not used and maintained for a full 24-hour day. The set shall be in operation 24 hours a day from installation till removal to be measured and paid for otherwise no payment shall be made.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PSDB 8.3.5 Existing Services That Intersect or Adjoin a Pipe Trench

*Add the following to the end of sub clause (a):*

“Existing services with a depth of cover exceeding 300 mm, measured from the bottom of excavation to the top of the existing service shall not be measured and paid for. These will be distinguished between existing trunk services and existing erf connection.

The rate shall also allow for the following costs:

- i) Sufficient photos have to be taken of existing services and handed over to the Engineer before they are being crossed, if there is a possibility of a difference in opinion over the condition of those services, especially on private property.
- ii) If such a service is damaged, it has to be repaired to its original condition or if possible, to a standard agreed to in writing with the relevant owner. This agreement has to be approved by the Engineer.
- iii) If such a service is removed, it has to be replaced as per original.”

*Add the following to the end of sub clause (b):*

“The unit "number" will only be used for services such as poles and trees.

No payment will be made for overhead services that do not rest directly on the ground except where allowance is made for this in the schedule of quantities.

Existing services that rest directly on the ground e.g. poles, walls and structures are handled in the same way as underground services, but the axis of the service will be determined as follows:

The vertical axis is defined as the nearest side or corner of the existing structure to the excavation, measured at the point where the structure and natural ground level intersect.

The horizontal axis will be at the point where the structure and the natural ground level intersects. In this instance, where the excavation falls above the 45° line but within 1.0 meter horizontally from the structure, the service will also be measured as adjoining.

If the structure, according to the abovementioned, does not qualify as an adjoining service but the foundation of the structure is such that if a 45° line drawn from the nearest bottom corner thereof cuts through the excavation, the structure will be measured as an adjoining service if approved by the Engineer. These will be distinguished between existing trunk services and existing erf connection.

PSDB 8.3.6.2 Extra-over DB 8.3.6.1 for imported material

Unit: m<sup>3</sup>

The quantity will be calculated according to the actual volume of material placed in the final position according to the specified dimensions.

The rate is an “extra-over” Item DB 8.3.6.1 and includes all costs of supplying and placing of imported material in the final position with material from commercial sources.

**End of PSDB**

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**SANS 1200 G – CONCRETE (STRUCTURAL)**

PS G 8.1.1 Formwork

Delete the following in G 8.1.1.3(c):  
"and for different prop heights for beams and slabs".

PS G 8.1.3 Concrete

Add the following to PS G 8.1.3.1(d):  
Strip foundations and encasement of pipes shall be cast directly against the sides and bottoms of excavations. No payment shall be made for additional concrete in overbreak.  
Delete the full stop at the end of G 8.1.3.3(a) and add the following:  
"and special steps necessary before depositing concrete during cold weather, as prescribed in PS G 5.5.9".

PS G 8.4.4 Unformed Surface Finishes Unit: m<sup>2</sup>

Add the following to G 8.4.4:  
The concrete surface finishes under screeds, granolithic finishes or benching as prescribed in PS G 5.5.10 shall not be measured separately. The rates for the related concrete items shall also cover the cost of these surface finishes.

PS G 8.4.8 Concrete complete with formwork and/or trowel finish Unit: Sum or m<sup>3</sup>

The rate shall cover the cost of the provision of concrete (made from ordinary Portland cement, unless otherwise scheduled), mixing, testing, placing, compacting, the forming of stop-ends and unforeseen construction joints, striking-off or levelling as applicable, trowelling and curing and repairing where necessary, together with the cost of all parts of formwork in contact with the concrete and the necessary bearers, struts, and other supports, plus the layout and plant necessary to erect and strike such formwork.

PS G 8.14 Join New Concrete to Existing

- a) Partial demolition (describe) Unit: Sum
- b) Scabbling of existing surface Unit: m<sup>2</sup>
- c) Steel dowels Unit: No

The rate for (a) shall cover the cost of partial demolition as described, and of exposing, cleaning, cutting and bending the existing reinforcement, as well as repairing the concrete surface that is to be retained and disposing of waste material.

**End of PSG**

|            |           |           |          |           |           |
|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |



**SANS 1200 GA – CONCRETE (SMALL WORKS)**

PS GA 8.1.2 Reinforcement

Substitute GA 8.1.2 with the following:

Reinforcement shall be measured and payed for by mass. Valuation of variations shall not be applicable.

No allowance shall be made for individual reinforcement bar sizes.

PS GA 8.2.3 Narrow Widths

Unit: m

Substitute GA 8.2.3 with the following:

No payment shall be made for narrow widths.

PS GA 8.3.2 High-tensile Welded Mesh

Unit: kg

Substitute GA 8.3.2 with the following:

Welded mesh shall be measured and payed for by mass.

PS GA 8.4.1 Prescribed Mix Concrete

Unit: m<sup>3</sup>

Add the following to GA 8.4.1:

The rate for installation of concrete slabs shall include for the compaction of the in situ material to 93 % of MAASHTO density.

PS GA 8.9 Weep-Holes

Unit: No

The rate for installation of weep-holes as shown on the drawings shall include all material, plant and labour.

PS GA 8.10 Handrails

Unit: m

The rate shall cover the cost for supplying of all material, plant and labour for the installation of the handrails as shown on the drawings.

PS GA 8.11 Pre-Cast Concrete Beams

Unit: No

The rate shall cover the cost for the supply, delivery and installation of grade 25 MPa/19 mm concrete beams complete with reinforcement, formwork concrete and finishing as shown on the drawings.

**End of PSGA**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**SANS 1200 L - MEDIUM PRESSURE PIPELINES**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| PS L 8.2.3  | Extra-over 8.2.1 For The Supplying, Fixing And Bedding Of Valves                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit: No        |
|             | Add the following to L 8.2.3:<br><br>Valves are measured and paid for per item, complete with the inclusion of the cutting of pipes, couplings, extra excavation and all extra material and labour that is required, including tees, fittings, isolating valves (e.g. under air valves), complete as shown on the drawings. Flanged distance pieces shall be included in the rate for fire hydrants.                                                                                                                                                                                                                                                                                                                                                                 |                 |
| PS L 8.3    | Water Meters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit: No        |
|             | The rate for water meters shall cover the cost of the supply of a flanged water meter, with the necessary couplings to be connected to the appropriate pipes, the installation, testing and putting into operation of the complete meter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| PS L 8.4    | CONTROL VALVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit: No        |
|             | The rate for control valves shall cover the cost of the provision of a flanged control valve with a flanged gate valve of the same diameter, with the required fittings, couplings, piping, etc. to be connected to the appropriate pipes, as well as for the pilot valve, copper pipe, etc. and for the complete installation, testing and putting into operation of the valve.                                                                                                                                                                                                                                                                                                                                                                                     |                 |
| PS L 8.2.8  | Recover Old Pipe Line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit: m         |
|             | Add the following to L 8.2.8:<br><br>The tendered rate for the lifting and relaying of pipelines at a deeper position in the same trench shall be all inclusive to expose the existing pipeline which lies at a depth of up to 1,5 m, to disconnect it, remove it, deepen the trench to 2 m, prepare the bedding and relay the pipes, and backfill and compact the trenches. The rate shall also cover the cost of timeous liaison with the authority concerned and homeowners, and the programming for the disconnection of that service at a time arrange with the authority so that the minimum disruption occurs.<br><br>There will be distinguished between the various pipe diameters, and all the requirements of L 8.2.8 and L 8.2.9 are applicable as well. |                 |
| PS L 8.2.10 | Temporary Valves, Etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit: Sum or No |
|             | Substitute L 8.2.10 with the following:<br><br>Temporary valves, end caps or blank flanges testing shall be included in the rate for the laying of pipes except where separate items are included in the schedule of quantities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |
| PS L 8.2.11 | Anchor/Thrust Blocks and Pedestals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unit: m³        |
|             | Under item (b) delete the following item:<br><br>Reinforcement Unit: t<br><br>Replace the first sentence under "Reinforcement" with the following:<br><br>"Anchor and thrust blocks shall be measured per cubic metre concrete and the tendered rate shall include for all reinforcement for the required dimensions"                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |
| PS L 8.2.13 | Valve And Hydrant Chambers, Etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit: No        |
|             | Add the following to L 8.2.13:<br><br>The rate for scour-valve chambers must also cover the cost of the supply and installation of the scour outlet as described in PS L 3.10.4 and indicated on the drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| PS L 8.2.14 | Manholes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit: No |
|             | Add the following to L 8.2.14:<br><br>Overflow boxes and pipe outlets shall, as in the case of manholes, be measured and paid for per number and shall be all inclusive as shown on the drawings.                                                                                                                                                                                                                                                                                                           |          |
| PS L 8.2.16 | Cut Into And Connect To Existing Mains                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit: No |
|             | The cutting into existing mains shall be measured by the number of each type and diameter of pipe cut into.<br><br>The tendered rate shall include full compensation for all arrangements with the relevant authorities, isolating the main, cutting into the main to accommodate the connecting fitting, dewatering, excavating, removing of excess material, taking steps to prevent the ingress of soil, stones and other material into the main as well as all material and labour to connect the pipe. |          |
| PS L 8.2.17 | Stand Pipes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit: No |
|             | Separate items will be scheduled for each diameter and type of water main.<br><br>The tendered unit rate shall cover the cost of the all material described in PS L 5.11, and of the plant and labour necessary for the complete construction of a stand pipe.                                                                                                                                                                                                                                              |          |
| PS L 8.2.18 | Extra-over L 8.2.1 For Laying Of Control Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit: m  |
|             | The control cable shall be supplied by the electrical contractor and it must be laid in the pipe trench under this contract according to the specifications of the electrical contractor. The tendered rate shall cover the cost of receiving, storing, handling, laying, bedding, making of joints, etc. and shall provide for all delays that may be caused by this.                                                                                                                                      |          |

**End of PSL**

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

**SANS 1200 SECTION LB: BEDDING (PIPES)**

PS LB 8.1.1 Supply Of Bedding Materials Measured Separately

Add the following to LB 8.1.1:

Except for electric cables payment for bedding material and selected fill material is only made if the selected trench-excavation material cannot be used in the same position as bedding material but has to be obtained from another part of the site of works or designated borrow pits, or from commercial sources.

PS LB 8.1.3 Volume of Bedding Materials

Add the following:

“The volume of bedding material shall be measured net and shall exclude the volume occupied by the pipe.”

PS LB 8.1.4 Separate Items for Cradle and Blanket

Replace the clause with the following:

“No distinction shall be made as regards material for the bedding cradle and selected fill blanket, and the material shall comply with the requirements for material for bedding cradle.”

PS LB 8.1.5 Disposal of Displaced Material

Add the following:

“All surplus and unsuitable material as described in CI 8.1.5 shall be disposed of as described in SANS 1200D CI 5.2.2.3.”

PS LB 8.2.2.3 From commercial sources

Add the following to LB 8.2.2.3:

c) Bedding for wet conditions Unit: m<sup>3</sup>

The requirements of PS LB 3.1 for bedding in wet conditions must be noted. Payment will only be applicable if ordered by the Engineer.

PS LB 8.2.2.4 From stockpile (provisional)

a) Selected granular material Unit: m<sup>3</sup>

b) Selected fill material Unit: m<sup>3</sup>

The rate shall cover the cost of obtaining, handling and transport regardless the distance, of the required bedding material from the stockpile, the delivery thereof at positions that are spaced along the trench in such a way as suits the working method of the Contractor, as well as the removal of material displaced by this importation within a free-haul distance of 0,5 km.

**End of PSLB**

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

SANS 1200 SECTION LD: SEWER

PS LD 8.2.3 Manholes

Add the following:

“Manholes shall be measured complete as indicated on the drawings and the rate shall be all inclusive for benching, step irons, cover and frame, and it shall make provision for all additional excavation and backfilling.

Manholes deeper than 1,5 m shall be provided with an additional concrete base, if specified by the Engineer. All costs involved in additional excavation, backfilling, material and labour shall be included in the rate for the additional base.

The depth of manholes as mentioned in the schedule of quantities, shall be measured from the final cover level to the outlet invert level (flow level).

PS LD 8.2.4 Extra-Over Item 8.2.3 for Backdrops, ect.

Add the following:

The tenderer rate shall include full compensation for construction of a backdrop as per detail drawing.

PS LD 8.2.6 Erf Connections

Unit: No

Substitute LD 8.2.6 with the following:

The rate shall be all inclusive and shall cover the cost of excavation, backfilling, bedding, pipes, and fittings. An extra-over item for variation in pipe lengths is provided for connections, shorter or longer than specified and shall include the necessary excavation, bedding, backfilling, all material, etc. and will be also be measured under depth increments in the schedule of quantities.

The depth increment for the extra pipe lengths shall be determined by the depth of the end caps. If the deviations are negative, payment shall be reduced accordingly.

The rate for new erf connections on existing sewers shall also cover the cost of additional excavation and backfilling around the mains, cutting of pipes, handling of sewage flow, etc.

Imported material for bedding, fill blanket and main fill shall be measured and paid for under the relevant items for mains.

PS LD 8.2.8 Anchor Blocks

Unit: m<sup>3</sup>

Add the following to LD 8.2.8:

Payment for anchor blocks shall be made for pipes with gradients steeper than 1:10 and shall be measured in m3.

PS LD 8.2.11 Connection to Existing Sewer at....

Add the following:

“Separate items will be scheduled for each diameter of connecting pipe.

The tendered rate shall include full compensation for constructing erf connections to existing sewer lines and will include any additional channelling and benching associated with the connection, cutting the pipe to suit the connection, supplying and building in the short junction pipe, extra couplings, dealing with existing flow, preventing foreign material from entering the sewer and making the connection. Where a direct connection is made to an existing pipe, the rate covers all labour involved in opening the existing pipe, the removal of the existing end cap and disconnection at the pipe.”

End of PSLD

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**SANS 1200 SECTION LE: STORMWATER DRAINAGE**

**PS LE 8.2.8 Supply and Install Manholes, Catchpits**

Substitute LE 8.2.8 with the following:

“The unit of measurement shall be the number of each, in the depth increments as scheduled, fully installed in accordance with the details shown on the drawings. The rate shall cover the cost of excavating and backfilling with approved selected material from site borrow pits, stockpile or commercial sources, compacted to 93 % of MAASHTO density (100 % for sand), supplying and installing of all material and accessories, the inlet kerbs and the channel adjacent thereto as well as for the removal and spoil of all surplus material. The rate shall also include the connection of pipes to manholes, catchpits, etc. and of building pipes into the walls of such structures, but not for the cutting of skewed ends.”

Add the following to LE 8.2.8

**d) Headwalls:**

“The unit of measurement shall be the number of each, in the depth increments as scheduled, fully installed in accordance with the details shown on the drawings. The rate shall cover the cost of excavating and backfilling with approved selected material from site borrow pits, stockpile or commercial sources, compacted to 93 % of MAASHTO density (100 % for sand), supplying and installing of all material and accessories, the inlet kerbs and the channel adjacent thereto as well as for the removal and spoil of all surplus material. The rate shall also include the connection of pipes to the headwall, building pipes into the walls of such structures and for the cutting of skewed ends.”

**PS LE 8.2 Measurement and Payment: Scheduled Items**

Add the following payment items:

**PS LE 8.2.14Excavation for subsoil drains** Unit: m³

The unit of measurement shall be cubic meter of material excavated for subsoil drains. Measurement shall be made to the neat dimensions as shown on the relevant drawings. The rate tendered shall include full compensation for setting out, excavation, shoring (if applicable), dealing with groundwater and preparation of the trench for installation of the subsoil drain.

**PS LE 8.2.15 Supply and Install Subsurface Drains According To Drawings** Unit: m³

The length shall be measured on the centre line of the completed subsurface drain. The rate shall cover the cost of supplying, transporting, off-loading and installing all materials as well as for backfilling with suitable granular material, compaction, cutting, wasting, overlapping and installing of the materials where applicable.

**PS LE 8.2.16 Connecting Subsurface Drains to Manholes, Kerb Inlets, Etc** Unit: No

The unit is the number of subsurface drain pipes built in at manholes or kerb inlets. The rate shall cover the cost of all labour, plant and materials necessary to connect the subsurface drain to manholes and/or kerb inlets, and making the structure watertight, all as shown on the drawings.

**PS LE 8.2.17Construct detention pond outlet structure as per detail** Unit: No

The rate tendered shall include full compensation for all works associated with constructing the stormwater outlet for the detention pond as shown on the relevant detail. The tendered rate shall include all formwork and concrete, pipe work, excavation, temporary works and all backfill associated with the construction of the outlet. Provision should also be made in this item for approximately 0.25 tons of reinforcing steel per outlet structure.

**End of PSLE**

|            |           |           |          |           |           |
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| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**SANS 1200 SECTION LF: ERF CONNECTIONS (WATER)**

PSLF 8.2.1 Measurement and Payment: Scheduled Items: Provide erf connections complete

Add the following after the last sentence:

“The rate will exclude the supply and installation of water meters. The rate shall be deemed to include all works as described in PSDB 5.7.2 (Compaction in Road Reserve) and shall cover all excavation in all materials irrespective of whether this is conducted using machinery or by hand (as described in PSDB 3.1).”

“Where water erf connections off existing pipes are specified, the rate also needs to allow for arrangements to close off the water supply to the affected area of the network and arranging for inspection and supervision by the relevant line department.”

**End of PSLF**

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

**PSBW BUILDING WORKS**

**PSBW6 MEASUREMENT AND PAYMENT**

**PSBW6.1 GENERAL**

All items in this section will be measured by number, square metre or linear metre completed and the tendered rates shall include full compensation for the supply, delivery, handling and installation of all materials, the provision of all necessary labour and supervision, transport, plant, equipment and incidentals necessary to complete, protect and maintain the works as specified or as shown on the drawings.

Where a lump sum is required for a complete structure the tendered rate shall include all items and contingencies, as specified in this section or as shown on the drawings.

**PSBW6.2 SCHEDULED ITEMS**

**PSBW6.2.1 Brickwork** Unit: m<sup>2</sup>

Brickwork will be measured on the centre line of the walls. Areas occupied in walls by windows and doors will be excluded from the areas measured, and corners and intersections common to more than one brick wall will be measured once only.

The rate shall cover the cost of the brickwork complete as specified, including test sections where specified, pointing, providing brick lintels, brick reinforcement and ties, etc., the building in of conduits, beams, pipe sleeves, doors and windows, the ranking out of joints and the filling of cavities in cavity walls and walls constructed of hollow concrete masonry units, below floor level and elsewhere where specified,

The test section for faced brickwork as specified in clause 5.1.14 shall only be paid for if approved by the Engineer and, if rejected, shall be removed at the Contractor's expense.

**PSBW6.2.2 Air Bricks**

(a) External air bricks Unit: No

(b) Internal air bricks Unit: No

The rate shall cover the cost of providing and building in the air bricks as specified.

**PSBW6.2.3 Bagged Finish to Brickwork** Unit: m<sup>2</sup>

The rate shall cover the cost of providing rough sacking, additional cement grout as required and finishing the bagging as specified.

**PSBW6.2.4 Windowsills**

(a) External (describe) Unit: m

(b) Internal (describe) Unit: m

The test section for faced brickwork as specified in clause 5.1.14 shall only be paid for if approved by the Engineer and, if rejected, shall be removed at the Contractor's expense.

**PSBW6.2.5 Tiling** Unit: m<sup>2</sup>

The rate shall cover the cost of providing all material and the laying and grouting of tiles, complete as specified.

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|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |



|            |                                                                                                                                                                                                                                                                                                                |                      |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| PSBW6.2.6  | Plaster Work                                                                                                                                                                                                                                                                                                   | Unit: m <sup>2</sup> |
|            | The rate shall cover the cost of the construction of the plaster work, including the supply of all materials, mixing, applying, finishing, forming reveals, joints, etc., complete as specified.                                                                                                               |                      |
| PSBW6.2.7  | Floor Screeds                                                                                                                                                                                                                                                                                                  |                      |
|            | (a) Normal screeds                                                                                                                                                                                                                                                                                             | Unit: m <sup>2</sup> |
|            | (b) Granolithic screeds                                                                                                                                                                                                                                                                                        | Unit: m <sup>2</sup> |
|            | The rate shall cover the cost of the construction of the floor screeds, including the supply of all materials, mixing, laying, finishing, the forming of nosings, reedings, skirtings, etc. and, where the concrete sub-floor has matured, of the brushing and applying a cement grout, complete as specified. |                      |
| PSBW6.2.8  | Paving                                                                                                                                                                                                                                                                                                         | Unit: m <sup>2</sup> |
|            | The rate shall cover the cost of providing paving slabs or bricks, sand bedding and joint filling and expansion joint material and of constructing the paving.                                                                                                                                                 |                      |
| PSBW6.2.9  | Waterproofing                                                                                                                                                                                                                                                                                                  |                      |
|            | (a) Damp-proof course in walls                                                                                                                                                                                                                                                                                 | Unit: m              |
|            | (b) Damp-proof membrane under floors                                                                                                                                                                                                                                                                           | Unit: m <sup>2</sup> |
|            | The unit shall be the net length or area of waterproofing installed. The length or area of overlaps shall not be measured for payment.                                                                                                                                                                         |                      |
|            | The rate shall cover the cost of providing and laying all material as specified, including the sealing of all laps and joints, complete as specified.                                                                                                                                                          |                      |
| PSBW6.2.10 | Expansion Joints                                                                                                                                                                                                                                                                                               | Unit: m              |
|            | The rate shall cover the cost of providing and installing all filling and sealing material and of the forming of expansion joints, complete as specified.                                                                                                                                                      |                      |
| PSBW6.2.11 | Structural Timber                                                                                                                                                                                                                                                                                              |                      |
|            | (a) Wall plates (indicate size)                                                                                                                                                                                                                                                                                | Unit: m              |
|            | (b) Beams (indicate size)                                                                                                                                                                                                                                                                                      | Unit: m              |
|            | (c) Joists (indicate size)                                                                                                                                                                                                                                                                                     | Unit: m              |
|            | (d) Rafters (indicate size)                                                                                                                                                                                                                                                                                    | Unit: m              |
|            | (e) Purlins (indicate size)                                                                                                                                                                                                                                                                                    | Unit: m              |
|            | (f) Brandering (indicate size)                                                                                                                                                                                                                                                                                 | Unit: m              |
|            | (g) Roof trusses complete (indicate drawing number)                                                                                                                                                                                                                                                            | Unit: No             |
|            | The rate shall cover the cost of the supply of all materials, manufacture, cutting, waste, laps, joints and fixing of the timber as indicated, including nails, bolts, nuts, washers, hoop irons, ties and other fixtures required, complete as specified.                                                     |                      |
| PSBW6.2.12 | Roof Covering                                                                                                                                                                                                                                                                                                  | Unit: m <sup>2</sup> |
|            | The rate shall cover the cost of providing and fixing all roof covering material as prescribed, including all flashings, soakers, valleys, ridge coverings, roofing screws and all other fixtures required to complete the work, as specified.                                                                 |                      |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

|            |                                                                                                                                                                                                                                                                                                                                                               |               |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| PSBW6.2.13 | Fascias and Barge Boards                                                                                                                                                                                                                                                                                                                                      | Unit: m       |
|            | The rate shall cover the cost of providing and fixing of all material, fixtures, screws, bolts, nuts, washers and other accessories required to complete the work, as specified.                                                                                                                                                                              |               |
| PSBW6.2.14 | Gutters and Rainwater Down Pipes                                                                                                                                                                                                                                                                                                                              |               |
|            | (a) Gutters                                                                                                                                                                                                                                                                                                                                                   | Unit: m       |
|            | (b) Rainwater downpipes                                                                                                                                                                                                                                                                                                                                       | Unit: No      |
|            | The rate shall cover the cost of supply and building in of all material including angles, stopped ends, outlet nozzles, gutters, gutter brackets, etc. for gutters and swan necks, branch pieces, plinth bends, radius bends, shoes, brackets, etc. for rainwater downpipes, including all bolts and sealants, complete as specified.                         |               |
| PSBW6.2.15 | Ceilings                                                                                                                                                                                                                                                                                                                                                      |               |
|            | (a) Ceilings                                                                                                                                                                                                                                                                                                                                                  | Unit: m²      |
|            | (b) Cornices to ceilings                                                                                                                                                                                                                                                                                                                                      | Unit: m²      |
|            | The rate shall cover the cost of supply and installation of all material including cover strips to joints, nails, trapdoors and gypsum plaster where prescribed, complete as specified.                                                                                                                                                                       |               |
| PSBW6.2.16 | Ceiling Insulation                                                                                                                                                                                                                                                                                                                                            | Unit: m²      |
|            | The rate shall cover the cost of supply and installation of all material, as specified.                                                                                                                                                                                                                                                                       |               |
| PSBW6.2.17 | Joinery                                                                                                                                                                                                                                                                                                                                                       |               |
|            | (a) Doors (type and size indicated)                                                                                                                                                                                                                                                                                                                           | Unit: No      |
|            | (b) Skirtings (size indicated)                                                                                                                                                                                                                                                                                                                                | Unit: m       |
|            | (c) Other items (describe or indicate drawing number)                                                                                                                                                                                                                                                                                                         | Unit: No or m |
|            | The rate shall cover the cost of the supply of all material, manufacture, cutting, waste, fixing and installation of the joinery items, complete as specified.                                                                                                                                                                                                |               |
|            | The rate for doors shall also cover the cost of the door frames and all accessories, such as hinges, hooks, bolts, locks, latches, etc., and of damp-proof course on both sides and above door frames in cavity walls, as specified.                                                                                                                          |               |
| PSBW6.2.18 | Metalwork                                                                                                                                                                                                                                                                                                                                                     | Unit: No      |
|            | The rate shall cover the cost of supplying all material, manufacture, applying priming coat of paint or galvanising, as specified, delivery and building in of units, including burglar proofing where specified, locks, catches, glazing, etc., and of damp-proof course under all windows and on both sides and above frames in cavity walls, as specified. |               |
| PSBW6.2.19 | Resilient Floor Finishings                                                                                                                                                                                                                                                                                                                                    |               |
|            | (a) Vinyl-fibre, PVC, or thermoplastic floor tiles (specify)                                                                                                                                                                                                                                                                                                  | Unit: m²      |
|            | (b) Vinyl cove skirting                                                                                                                                                                                                                                                                                                                                       | Unit: m       |
|            | The rate shall cover the cost of supplying all material and adhesives required and the laying of the floor finishings.                                                                                                                                                                                                                                        |               |

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

|            |                                                                                                                                                                                                                                                                                                                 |                    |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| PSBW6.2.20 | Painting                                                                                                                                                                                                                                                                                                        | Unit: m² or Sum    |
|            | Only the surface covered by the final finishing coat shall be measured.                                                                                                                                                                                                                                         |                    |
|            | The rate shall cover the cost of surface preparation, supplying and applying all the coats of paint, repairing any damaged surfaces, and all materials necessary for completing the work.                                                                                                                       |                    |
| PSBW6.2.21 | Electrical Installation                                                                                                                                                                                                                                                                                         | Unit: Sum          |
|            | The rate shall cover the cost of supplying and building in of all equipment such as switchboards, conduits, wires, cables, sockets, light fittings, etc., cutting recesses, chases and holes in walls as required and repairing any damaged surfaces after installation, including testing of the installation. |                    |
| PSBW6.2.22 | Miscellaneous                                                                                                                                                                                                                                                                                                   | Unit: No, Sum or m |
|            | The rate shall cover the cost of all workshop detail drawings, where prescribed, material, plant, tools and labour to complete the scheduled items complete, as detailed, including corrosion protection and/or painting, as specified, and building                                                            |                    |

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| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

## CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE

### C4: SITE INFORMATION & SUPPLEMENTARY DOCUMENTS

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

**SITE INFORMATION (1)**

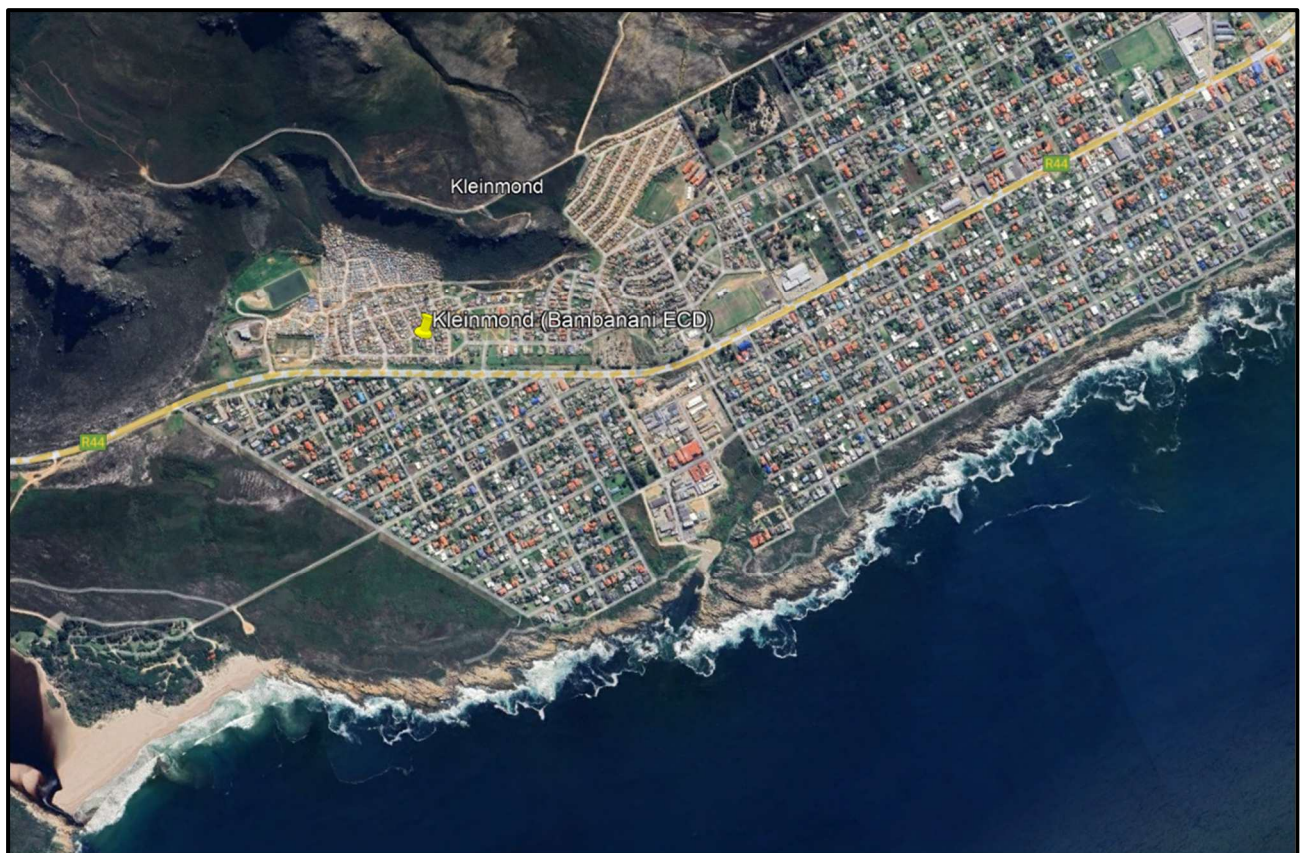
**AREA** : BAMBANANI, KLEINMOND

**MUNICIPALITY** : OVERSTRAND MUNICIPALITY

**DISTRICT** : OVERBERG DISTRICT MUNICIPALITY

**GPS COORDINATES:**   **LATITUDE**    34°20'24.20"S

**LONGITUDE** 19°00'45.04"E



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|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |



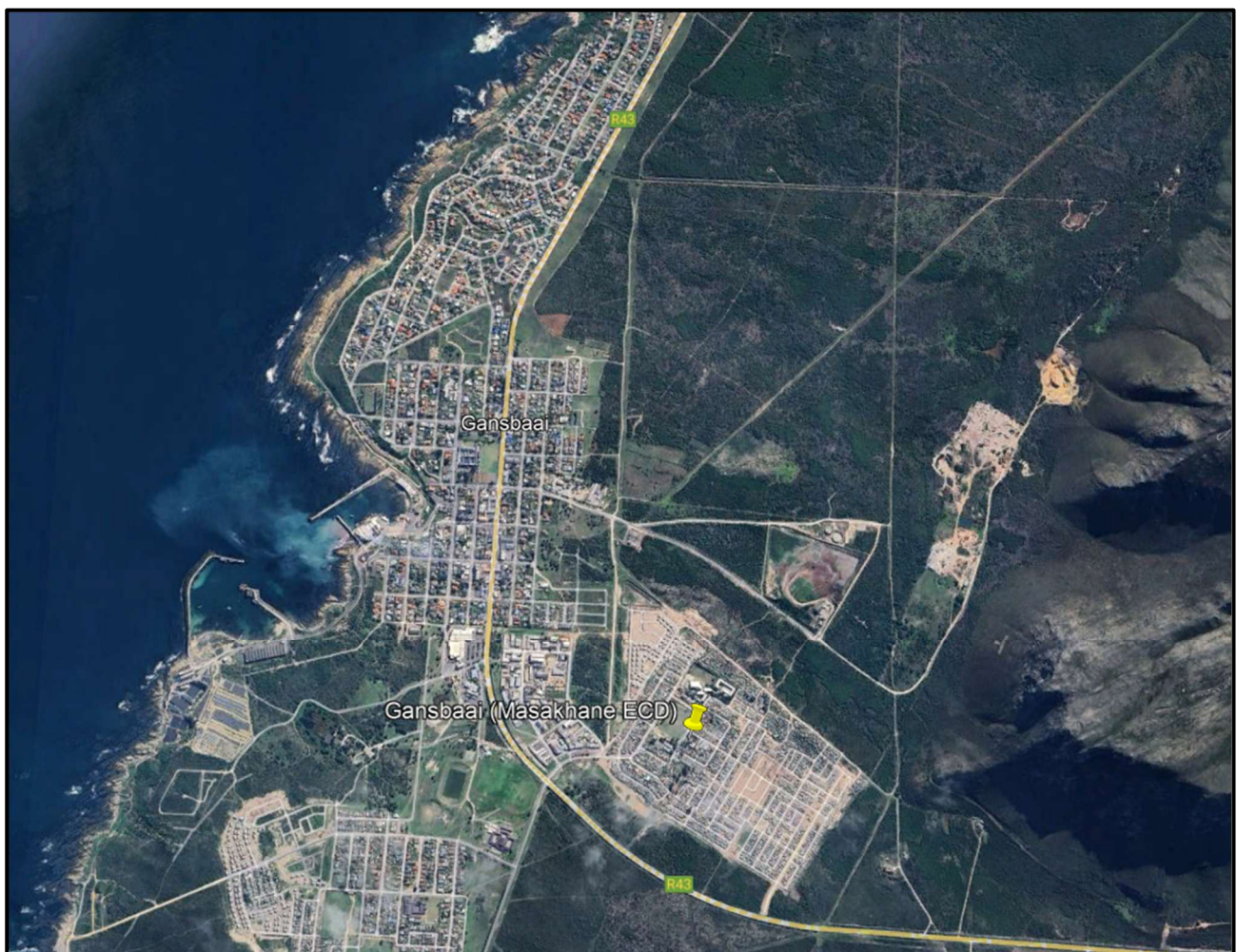
**SITE INFORMATION (2)**

**AREA** : MASAKHANE, GANSBAAI

**MUNICIPALITY** : OVERSTRAND MUNICIPALITY

**DISTRICT** : OVERBERG DISTRICT MUNICIPALITY

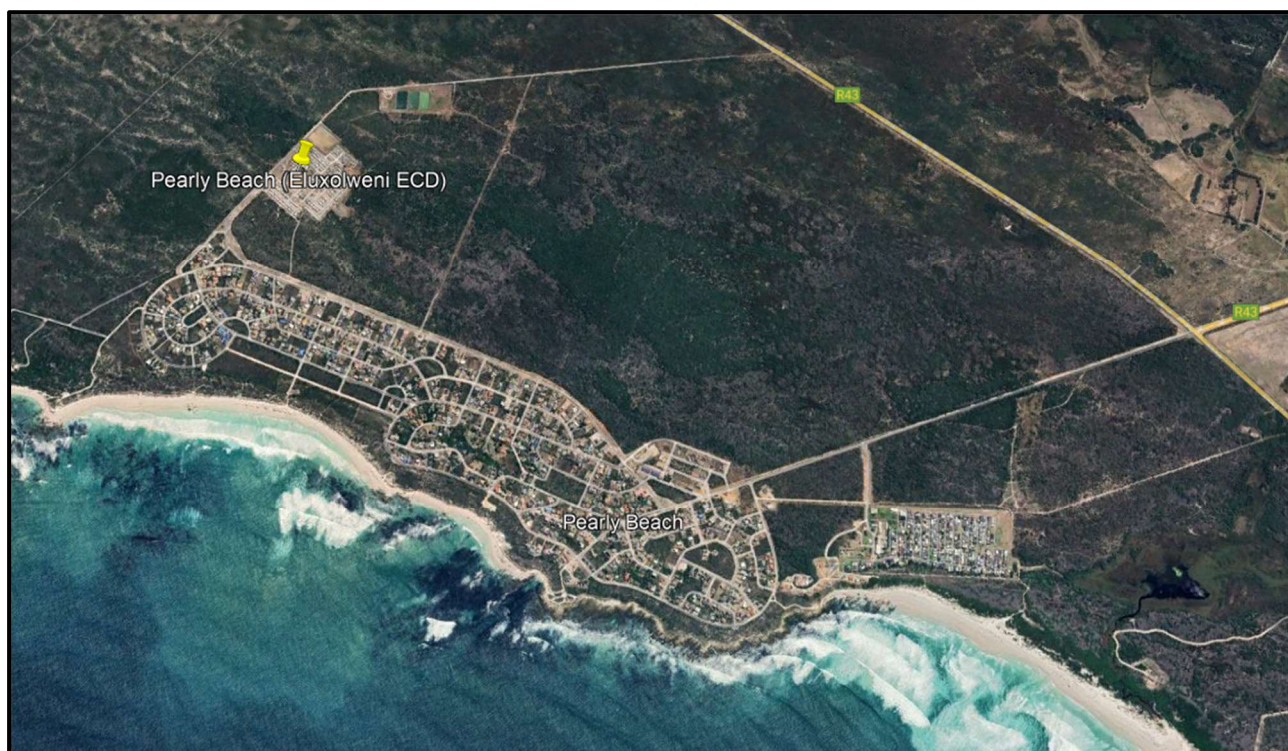
**GPS COORDINATES:** LATITUDE 34°35'27.95"S  
LONGITUDE 19°21'37.06"E



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|------------|-----------|-----------|----------|-----------|-----------|
|            |           |           |          |           |           |
| Contractor | Witness 1 | Witness 2 | Employer | Witness 1 | Witness 2 |

**SITE INFORMATION (3)**

**AREA** : ELUXOLWENI, PEARLY BEACH  
**MUNICIPALITY** : OVERSTRAND MUNICIPALITY  
**DISTRICT** : OVERBERG DISTRICT MUNICIPALITY  
**GPS COORDINATES:** **LATITUDE** 34°39'12.57"S  
**LONGITUDE** 19°29'16.81"E



**Note: Geotechnical reports for the sites are included below in Section C7.**

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| <div></div> | <div></div> | <div></div> | <div></div> | <div></div> | <div></div> |
| Contractor  | Witness 1   | Witness 2   | Employer    | Witness 1   | Witness 2   |

DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

## **CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD**

**APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

### **C5: HEALTH AND SAFETY SPECIFICATIONS**





safe working practice  
OCCUPATIONAL HEALTH AND SAFETY GROUP

# **Project Health and Safety Specification**

In terms of Construction Regulations 2014

## **Project Client**

**DEPARTMENT OF AGRICULTURE, LAND REFORM  
AND RURAL DEVELOPMENT**

## **Description of Project Works**

**EXTENSION OF 3 EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN THE OVERSTRAND  
LOCAL MUNICIPALITY, WESTERN CAPE**

## **Project Location**

**ERF 7349; G. M. SIYONI STREET; BAMBANANI -  
KLEINMOND  
ERF 2044; THANDBUNTU STREET; MASAKHANE –  
GANSBAAI  
ERF 1969; OASI STREET; ELUXOLWENI – PEARLY  
BEACH**

## **Preparation Date**

**MARCH 2023**

**Project Health and Safety Specification developed by:**

Mark Winter PrCHSA, (SACPCMP)  
Safe Working Practice (Cape Town) Pty Ltd  
Cell: 071 603 2213  
Tel: 021 701 0470  
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## 1.0 SPECIFIC PROJECT INFORMATION

### 1.1 INTRODUCTION AND DEFINITIONS

**THE REQUIREMENTS OF THE CONSTRUCTION REGULATIONS 2014 (AND GUIDANCE NOTES OF 2017) HAVE BEEN IN EFFECT SINCE 7<sup>TH</sup> AUGUST 2014. THE REGULATIONS PLACE LEGAL DUTIES UPON PRINCIPAL CONTRACTORS AND CONTRACTORS. ALTHOUGH THIS HEALTH AND SAFETY SPECIFICATION INCLUDES MUCH OF THE CONTENT OF THE REGULATIONS, THE CONTRACTOR WILL BE DEEMED TO BE FAMILIAR WITH THE REQUIREMENTS OF THESE REGULATIONS, AND OTHER ASSOCIATED HEALTH AND SAFETY REGULATIONS, AND TO HAVE FACTORED IN ALL THE DUTIES PLACED UPON CONTRACTORS AND PRINCIPAL CONTRACTORS IN THE TENDER. A COPY OF THE REGULATIONS CAN BE VIEWED ON THE DEPARTMENT OF LABOUR'S WEBSITE.**

**PLEASE NOTE THAT THE TERMS "CONTRACTOR" AND "PRINCIPAL CONTRACTOR" HAVE THE SAME MEANING AS THAT IN THE CONSTRUCTION REGULATIONS AND ARE USED INTERCHANGEABLY IN THIS DOCUMENT, I.E., REFERENCES TO "CONTRACTOR" REFER TO PRINCIPAL CONTRACTOR AND/OR CONTRACTOR AS THE REGULATIONS PERTAIN TO THEIR FUNCTIONS.**

This Health and Safety Specification contains clauses that are generally applicable to construction activities, as well as imposing pro-active controls associated with activities that impact on Health and Safety as it relates to work on site. Compliance to the requirements of the Occupational Health and Safety Act 1993 is an additional requirement of this Health and Safety Specification and is part of the Contractor's responsibility. The Client, and/or their agents, will monitor that all Contractors comply with the requirements of such legislation.

**ALL REFERENCES TO CLIENT IN THIS HEALTH AND SAFETY SPECIFICATION ALSO REFER TO SAFETY AGENT, WHERE SO APPOINTED.**

***Definitions (as per the Construction Regulations 2014) applicable to this Health and Safety Specification:***

"agent" means a competent person who acts as a representative for a Client;

"angle of repose" means the steepest angle of a surface at which a mass of loose or fragmented material will remain stationary in a pile on the surface, rather than sliding or crumbling away;

"bulk mixing plant" means machinery, appliances or other similar devices that are assembled in such a manner so as to be able to mix materials in bulk for the purposes of using the mixed product for construction work;

"client" means any person for whom construction work is being performed;

"competent person" means a person who has, in respect of the work or task to be performed, the required knowledge, training and experience and, where applicable, qualifications, specific to that work or task: Provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), those qualifications and that training must be regarded as the required qualifications and training; and is familiar with the Act and with the applicable regulations made under the Act;

"construction manager" means a competent person responsible for the management of the physical construction processes and the coordination, administration, and management of resources on a construction site;

"construction site" means a workplace where construction work is being performed;



"construction supervisor" means a competent person responsible for supervising construction activities on a construction site;

"construction vehicle" means a vehicle used as a means of conveyance for transporting persons or material, or persons and material, on and off the construction site for the purposes of performing construction work;

"construction work" means any work in connection with -

- the construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure; or
- the construction, erection, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system; or the moving of earth, clearing of land, the making of excavation, piling, or any similar civil engineering structure or type of work;

"construction work permit" means a document issued in terms of regulation 3;

"Contractor" means an Employer who performs construction work;

Note:

a) Includes organisations and or self-employed person that contracts with a client, Principal Contractor, or a Contractor to carry out construction work.

"demolition work" means a method to dismantle, wreck, break, pull down or knock down of a structure or part thereof by way of manual labour, machinery, or the use of explosives;

"design" in relation to any structure, includes drawings, calculations, design details and specifications;

"designer" means a competent person who-

- prepares a design;
- checks and approves a design;
- arranges for a person at work under his or her control to prepare a design, including an employee of that person where he or she is the Employer; or
- designs temporary work, including its components;
- an architect or engineer contributing to, or having overall responsibility for a design;
- a building services engineer designing details for fixed plant;
- a surveyor specifying articles or drawing up specifications;
- a Contractor carrying out design work as part of a design and building project; or
- an interior designer, shop-fitter, or landscape architect;

"ergonomics" means the scientific discipline concerned with the fundamental understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data, and methods to design in order to optimise human well-being and overall system performance;

"excavation work" means the making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping;

"explosive actuated fastening device" means a tool that is activated by an explosive charge and that is used for driving bolts, nails, and similar objects for the purpose of providing fixing;

"fall arrest equipment" means equipment used to arrest a person in a fall, including personal equipment, a body harness, lanyards, deceleration devices, lifelines, or similar equipment;

"falsework" means a combined system of formwork and support work;

"formwork" means temporary or permanent shutters used to form wet concrete into elements of a structure, and includes both horizontally and vertically placed shutters;

"fall prevention equipment" means equipment used to prevent persons from falling from a fall risk position, including personal equipment, a body harness, lanyards, lifelines or physical equipment such as guard-rails, screens, barricades, anchorages or similar equipment;



"fall protection plan" means a documented plan, which includes and provides for -

- all risks relating to working from a fall risk position, considering the nature of work undertaken;
- the procedures and methods to be applied in order to eliminate the risk of falling; and
- a rescue plan and procedures;

"fall risk" means any potential exposure to falling either from, off or into;

"health and safety file" means a file, or other record containing the information in writing required by these Regulations;

"health and safety plan" means a site, activity or project specific documented plan in accordance with the Client's health and safety specification;

"health and safety specification" means a site, activity or project specific document prepared by the Client pertaining to all health and safety requirements related to construction work;

"material hoist" means a hoist used to lower or raise material and equipment, excluding passengers;

"medical certificate of fitness" means a certificate contemplated in regulation 7(8);

"mobile plant" means any machinery, appliance or other similar device that is able to move independently, and is used for the purpose of performing construction work on a construction site;

"National Building Regulations" means the National Building Regulations made under the National Building Regulations and Building Standards Act, 1977 (Act No. 103 of 1977), and promulgated by Government Notice No. R. 2378 of 30 July 1990, as amended by Government Notices No's R. 432 of 8 March 1991, R. 919 of 30 July 1999 and R. 547 of 30 May 2008;

"person day" means one normal working shift of carrying out construction work by a person on a construction site;

"Principal Contractor" means an Employer appointed by the Client to perform construction work;

"Professional Engineer or Professional Certificated Engineer" means a person holding registration as either a Professional Engineer or Professional Certificated Engineer in terms of the Engineering Profession Act, 2000 (Act No. 46 of 2000);

"Professional Technologist" means a person holding registration as a Professional Engineering Technologist in terms of the Engineering Profession Act, 2000;

"provincial director" means the provincial director as defined in regulation 1 of the General Administrative Regulations, 2003;

"scaffold" means a temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both;

"shoring" means a system used to support the sides of an excavation and which is intended to prevent the cave-in or the collapse of the sides of an excavation;

"structure" means-

- any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, bulk mixing plant, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- any falsework, scaffold or other structure designed or used to provide support or means of access during construction work; or
- any fixed plant in respect of construction work which includes installation, commissioning, decommissioning, or dismantling and where any construction work involves a risk of a person falling;



"support work" means the temporary structure erected to support the formwork before the casting of a concrete element of a structure.

"suspended platform" means a working platform suspended from supports by means of one or more separate ropes from each support;

"temporary works" means any falsework, formwork, support work, scaffold, shoring or other temporary structure designed to provide support or means of access during construction work;

"the Act" means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);

"tunnelling" means the construction of any tunnel beneath the natural surface of the earth for a purpose other than the searching for or winning of a mineral.

**Reference should be made to the following documentation in conjunction with this Safety Specification (including existing surveys, drawings, and reports):**

- Tender documents
- Drawings

**IMPORTANT NOTE:**

This Health and Safety Specification has been prepared to comply with the requirements of the Construction Regulations 2014.

**1.2 BACKGROUND TO THE HEALTH AND SAFETY SPECIFICATION**

Historically, the Construction Industry has had a poor health and safety record. Due to the complex and potentially dangerous operations being undertaken, there is a high risk of incidents, accidents, and injuries. In many instances poor adherence to the Act and Regulations has resulted in severe consequences for Health and Safety performance. The Client is determined that the highest Health and Safety standards will prevail throughout the Contract and that there will be full commitment from all parties involved.

To achieve this goal the Client has arranged for the preparation of this Health and Safety Specification. The Health and Safety Specification sets out guidelines and minimum levels of awareness and guidance for Health and Safety requirements for the project. Contractual responsibility for adhering to these requirements rests with the Contractors. All employees are encouraged to be pro-active in compliance.

The Client is committed to ensuring the highest Health and Safety standards for all work undertaken within the Contract.

**Contractors as Employers are fully responsible and accountable for compliance with all Health and Safety requirements.**

**IMPORTANT NOTE:**

**Compliance with the Occupational Health and Safety Act and Regulations shall not be limited to this Health and Safety Specification and definitions contained in this document.**

**Contractors shall be conversant with the requirements and effects of Health and Safety legislation upon their activities, in particular the Construction Regulations, 2014, and the Occupational Health and Safety Act, 1993, and to have made adequate resource in their tender submission to comply with all legislative requirements.**

**Failure to comply with the requirements of this Safety Specification will result in severe sanction and the severity of the sanction will depend on the severity of the noncompliance.**





The Contractor's personnel will be responsible for the auditing of the implementation of the Health and Safety Specification and maintaining the document control and record systems associated with the Health and Safety Specification. The Client will arrange for Health and Safety audits to be conducted on site on their behalf to monitor health and safety compliance by Contractors.

### **1.3 PURPOSE OF THE HEALTH AND SAFETY SPECIFICATION**

The purpose of this site-specific Health and Safety Specification is to comply with legal requirements and to provide health and safety information about specific project risks known by the Client, Designer and Safety Agent to be applicable to this project. This document also provides minimum health and safety requirements, standards, and expectations that the Contractor must adhere to.

The Contractor must take into account all information in this specification and ensure that their tenders include adequate resource and competence to deal with the matters detailed herein so that all relevant contents are dealt with in a way which is in compliance with legislation and the ethical concerns for the safeguarding of employees, Contractors and other persons affected by the construction activities. Please note that a detailed OHS bill of quantities must be provided by the Contractor on all Construction Work Permit projects. The Bill of Quantities will form part of the Construction Work Permit appellation presented to Department of Labour for approval.

The Health and Safety Specification will be implemented during construction of the works and any construction activity that the Client has control over.

This will also assist in ensuring that all the costs related to the compliance with Occupational Health Act 85 of 1993 and the Construction Regulations 2014, as well as this Health and Safety Specification, are taken into consideration at Tender stage.

No advice, approval of any document required by the Health and Safety Specification such as hazard identification and risk assessment action plans or any other form shall be construed as an acceptance by the Client of any obligation that absolves the Contractor from achieving the required level of performance and compliance with legal requirements.

Further, there is no acceptance of liability by the Client which may result from the Contractor failing to comply with the Health and Safety Specification unless the Client has issued an instruction to any requirement, i.e. the Contractor remains responsible for achieving the required performance levels.

### **1.4 IMPLEMENTATION OF THE HEALTH AND SAFETY SPECIFICATION**

This Health and Safety Specification forms an integral part of the Contract, and Contractors shall make it an integral part of their Contracts with other Contractors and Suppliers. Contractors employed by the Client are to ensure that the provisions of the Health and Safety Specification are applied both on the site and in respect of all off site activities relating to the project, in particular in transport activities and project dedicated off site fabrication works.

The Contractor shall enforce the provisions of the Health and Safety Specification amongst all Contractors and suppliers for the project.

The Contractor shall sign the acknowledgment on the last page of this safety specification that he/she has familiarized him/herself with the content of the Health and Safety Specification and shall comply with all obligations in respect thereof.

The successful Contractor will be required to compile a Health and Safety Plan based on the requirements of the Occupational Health Act 85 of 1993 and these Specifications, which will need to be approved by Client (or their appointed safety agent) prior to commencement with construction work.





#### **1.4.1 Client Duties**

In terms of the Construction Regulations 2014 the Client (or their Agent, where appointed) has legal duties. Where an Agent (refer to “definitions” section of this document) is appointed in terms of this project, these Health and Safety duties assigned will also apply.

**All references to “Client” will apply to their appointed “Safety Agent”, where so appointed, in this Health and Safety Specification.**

The Client must:

- Prepare a baseline risk assessment for the construction work
- Prepare a suitable, sufficiently documented, and coherent site specific Health and Safety specification for the intended construction work, based on the baseline risk assessment
- Include the health and safety specification in the tender documents
- Ensure that potential Principal Contractors submitting tenders have made adequate provision for the cost of health and safety measures
- Ensure that the Principal Contractor to be appointed has the necessary competencies and resources to carry out the construction work safely
- Take reasonable steps to ensure co-operation between all Contractors appointed by the Client to enable each of those Contractors to comply with the regulations
- Ensure, before work commences, that every Principal Contractor is registered and in good standing with the compensation fund, or with a licensed compensation insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act, 1993 (Act no 130 of 1993)
- Appoint each Principal Contractor in writing for the project, or part thereof
- Discuss and negotiate with the Principal Contractor the contents of the Principal Contractor’s safety plan and thereafter finally approve that plan for implementation
- Ensure that a copy of the Principal Contractor’s health and safety plan is implemented and maintained
- Ensure that periodic health and safety audits and document verification are conducted at intervals mutually agreed upon between the Principal Contractor and any Contractor, but at least once every 30 days
- Ensure that a copy of the health and safety audit report is provided to the Principal Contractor within 7 days after the audit
- Stop any Contractor from executing a construction activity which poses a threat to the health and safety of persons which is not in accordance with the Principal Contractor’s health and safety plan for site
- Where changes are brought about to the design or construction work, make sufficient health and safety information and appropriate resources available to the Principal Contractor to execute the work safely
- Ensure that the health and safety file is kept and maintained by the Principal Contractor.
- Where the Client requires additional work to be performed as a result of a design change or error in construction due to the actions of the Client, the Client must ensure that sufficient safety information and appropriate additional resources are available to execute the required work safely.
- Where more than one Principal Contractor is appointed, the Client must take reasonable steps to ensure co-operation between all Principal Contractors and Contractors to ensure compliance with the Regulations
- Where the Client has appointed a Safety Agent for the project, their details for this project are contained in the Project Directory section of this health and safety specification.

#### **1.4.2 Designer Duties**

It must be noted that the Designer also has Health and Safety duties assigned in terms of the Construction Regulations. Where the Contractor fulfils a design function in terms of this project (refer to “definitions” section of this document), these duties will also apply. Please refer to Regulation 6 of the Construction Regulations 2014.



**Please note that the designer of temporary works must ensure that:**

- all temporary works are adequately designed so that it will be capable of supporting all anticipated vertical and lateral loads that may be applied;
- the designs of temporary works are done with close reference to the structural design drawings issued by the Contractor, and in the event of any uncertainty consult the Contractor;
- all drawings and calculations pertaining to the design of temporary works are kept at the office of the temporary works designer and are made available on request by an inspector; and
- the loads caused by the temporary works and any imposed loads are clearly indicated in the design.

| <b>1.5 PROJECT DIRECTORY</b>     |                                                              |                                                         |
|----------------------------------|--------------------------------------------------------------|---------------------------------------------------------|
| <b>Project Client</b>            | Department of Agriculture, Land Reform and Rural Development | <b>Tel:</b> 021 409 0300<br><b>Cell:</b> 071 856 0592   |
| <b>Contact Person</b>            | Mac Ntsikelelo Nodliwa                                       | <b>e-mail:</b> MNodliwa@dalrrd.gov.za                   |
| <b>Project Manager</b>           | WEC Consult                                                  | <b>Tel:</b> 021 886 6895/6<br><b>Cell:</b> 076 484 4495 |
| <b>Contact Person</b>            | Norman van der Merwe                                         | <b>e-mail:</b> norman@wec-consult.co.za                 |
| <b>Architect</b>                 | Gericke Architectural Services                               | <b>Tel:</b> 028 384 1659<br><b>Cell:</b> 082 453 8554   |
| <b>Contact Person</b>            | Johan Gericke                                                | <b>e-mail:</b> gerickeargitektuur@gmail.com             |
| <b>Civil Engineer</b>            | WEC Consult                                                  | <b>Tel:</b> 021 886 6895/6<br><b>Cell:</b> 078 501 0959 |
| <b>Contact Person</b>            | Vincent Firmani                                              | <b>e-mail:</b> vincent@wec-consult.co.za                |
| <b>Construction Safety Agent</b> | Safe Working Practice                                        | <b>Tel:</b> 021 701 0470<br><b>Cell:</b> 071 603 2213   |
| <b>Contact Person</b>            | Mark Winter                                                  | <b>e-mail:</b> markw@safeppractice.co.za                |

| <b>OTHER PARTIES DIRECTORY</b>                                 |                                                                                                            |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Department of Labour</b><br><br>WESTERN CAPE – Fezeka Ngalo | <b>Tel:</b> 021 441 8158<br><br><b>e-mail:</b> fezeka.ngalo@labour.gov.za<br><br><b>Cell:</b> 083 365 0681 |



|                                                                                                                                                                                                                       |  |
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| <b>Telecommunications, Water, Gas and Electricity</b><br>Contractor to apply for and refer to wayleave information from service providers for the nature and location of services. Refer all queries Project Manager. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

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| <b>1.6 PROJECT DETAILS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description of Works</b><br><br>The work to be carried out under this contract consists mainly of the following: <ul style="list-style-type: none"> <li>• Site clearance for the removal of trees and topsoil clearance.</li> <li>• Earthworks for service excavation and platform creation.</li> <li>• Concrete works for new foundations and surface beds.</li> <li>• Masonry works.</li> <li>• Waterproofing to new structures.</li> <li>• Structural roof components, roof coverings and ceilings.</li> <li>• Carpentry and joinery.</li> <li>• Plumbing and drainage.</li> <li>• Wall and floor finishes, including plastering and paintwork.</li> </ul> <p>This description of the works is not necessarily complete and shall not limit the work to be carried out by the Contractor under this Contract.</p> |
| <b>Anticipated Construction Duration</b><br>26 weeks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Provisional Start Date</b><br>TBA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Provisional Completion Date</b><br>TBA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Construction Work Permit Required for the Project?</b><br>No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.7 EXISTING ENVIRONMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Hazards particular to this project by virtue of location:</b><br>Sites are located in existing residential/commercial areas.<br>Existing ECD's on all sites will be occupied during construction.<br>Members of public, including children in close proximity to site.<br>Live services on site.<br>Possible security concerns and possible protest action.                                                                                                |
| <b>Overhead, Above Ground and Underground Services crossing the site:</b><br><br><b>Overhead:</b> n/a<br><br><b>Underground:</b> Contractor to assess and take precautions to protect against damage to, or injury from, any existing services. Sewage pipelines, Water connections, Stormwater pipelines present.<br><br><b>Ground level:</b> Contractor to assess and take precautions to protect against damage to, or injury from, any existing services. |



|                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Service Drawings available:</b> Existing service drawings available. Contractor to liaise with project management</p> <p><b>Wayleaves required:</b> No wayleaves, but permission should be obtained for the removal of a Melkhout tree at Masakhane, Gansbaai</p> <p><b>Permits required:</b> Contractor to liaise with project management</p> <p><b>Isolations required:</b> No</p>                 |
| <p><b>Existing structures on site and surrounding land use (with a significant impact on Health &amp; Safety):</b></p> <p>Sites are located in existing residential/commercial areas.<br/>Members of public, including children in close proximity to site.<br/>Live services on site.</p>                                                                                                                 |
| <p><b>Existing ground conditions and ground survey report:</b></p> <ul style="list-style-type: none"><li>• Geotech report available</li><li>• Excavations will be up to 1.8m depth</li><li>• Shoring not thought to be required</li><li>• Dewatering may be required</li></ul>                                                                                                                             |
| <p><b>Existing Traffic Systems</b></p> <p><b>Condition:</b> Existing surfaced roads, fair condition.</p> <p><b>Restrictions to access:</b> None known, traffic congestion may be an issue.</p> <p><b>Speed restrictions:</b> Speed limits apply in the site area and on surrounding roads. Speed in vicinity of construction sites must be reduced in line with risk assessment process by contractor.</p> |

|                                       |
|---------------------------------------|
| <p><b>1.8 AVAILABLE DRAWINGS</b></p>  |
| <p>Refer to tender documentation.</p> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <p><b>1.9 PROJECT HEALTH AND SAFETY REQUIREMENTS</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>Significant health and safety hazards identified by Client, Designer and Safety Agent:</b></p> <p><b>Risk of criminal activities &amp; protest action</b> – risk of crime &amp; protest action with potential risk to contractors. The safety of the workers must be taken into consideration. Emergency procedures must form part of induction training. Contractor must ensure safe entry into the area and vacate the area immediately in event of incidents and notify professional team.</p> <p><b>Risk of fires caused by construction works and / or Smoking</b> – ensure correct measures are in place for fire control to ensure no fires will break out. Fire extinguishing equipment to be readily available at all times especially during high risk activities. The smoking of cigarettes is also to be monitored and adequate smoking areas and smoking control measures to be put in place.</p> |



**Use of delivery or support trucks** used for the delivery and removal of material and equipment on open roadways – plant must be effectively separated from members of public and unauthorised personnel. Flag persons / Banksman wearing high visibility clothing to be in place as required. Exclusion zone to be in operation when the support vehicles are in use next to the roadways.

**Live services** – services may be present in the work areas. All necessary precautions must be taken to prevent accidental contact with these services. All services to be treated as live.

**Members of the public and road traffic** – the sites are located in existing residential/commercial areas. Attendant safety issues regarding risks to members of public and road traffic. The health and safety of members of public and road users must be a priority at all times and all necessary steps must be taken to prevent unauthorised entry to site and to protect members of the public from any dangers associated with the construction works being undertaken. Existing roads will remain open during works. This is a critical hazard to traffic/members of public and to workers in the road who must have high visibility clothing on at all times. A traffic management plan will be required to be submitted.

**Excavations** – Method statement to be in place. All workers must receive induction prior to commencement of works. Excavations must be sloped to a safe repose. If sloping is not possible, it must be adequately supported, braced and maintained by a competent person so that they are capable of supporting all anticipated vertical and lateral loads that may be applied to them. Support mechanisms to be of sufficient design, durability and strength to prevent any excavation edges from collapsing.

**Excavations must be backfilled by end of each shift as far as is reasonably practicable.** If this cannot be done then appropriate safety measures must be put in place by the Contractor to prevent unauthorised entry to excavations, including barriers and warning signage. Ensure there is a safe distance between employees and plant when digging excavations.

- ALL EXCAVATIONS MUST BE ACCESS CONTROLLED WITH SUITABLE BARRIERS.
- Red & white danger tape is not recommended for securing excavated areas.
- Excavated soil is to be placed at a sufficiently safe distance from the excavation itself.

**Lifting Operations** – all operators must provide copies of their up to date competency and medical certificates and driver's license. Loads must be slung by person with appropriate training and competence. Daily plant inspection registers to be completed and records kept in the safety file. Valid load test certificates and record of inspections by competent personnel must be available and maintained throughout the project. Rotating amber lights and reverse alarms to be active when operating all plant on site. Plant must be effectively separated from members of public and unauthorised personnel. Use trained flag persons as applicable. Exclusion zone under lifting operations to be enforced as applicable. Particular attention must be paid to lifting operations in windy conditions.

**Working at height and use of scaffolding – up to 5m in height** - all access equipment to be built and maintained in a safe condition by competent and trained personnel. All scaffold and formwork structures must be built as per the SANS Regulations. This must be assessed by the Contractor and method statements for these activities to be submitted for approval prior to work commencement. A Fall Protection Plan and Rescue Plan will be required for approval prior to commencement of any activities at height. All workers must have Fall Protection Plan training in the form of a toolbox talk with a signed register of attendance. Workers working at height must have appropriate and sufficient safety equipment. Safety harnesses with securely attached lanyards must be worn in areas where safety while working at height cannot be assured by other means. Edge protection in the form of guard rails and toe boards must be in place to prevent materials and people from falling. Medical certificates of fitness will be required for all Contractors' staff, including those working at height.

**Temporary works, including formwork, support work** – all temporary work must be designed by competent temporary works designers and constructed and inspected by competent personnel at the appropriate intervals as required by legislation and good practice and site circumstances. Results to be entered into register on site. All temporary works structures must be adequately erected, supported, braced and maintained by a competent person so that they are capable of supporting all anticipated



vertical and lateral loads that may be applied to them. No loads to be imposed onto the structure that the structure is not designed to withstand. All required leading edge protection must be in place and storage of temporary works materials must be in a safe manner. Exclusion zones and/or other measures to keep unauthorised personnel from accessing work areas underneath must be enforced.

**Noise and Dust control:** Measures to be put in place by the appointed Contractor to minimize the dust and noise on site. Contractor must take sufficient steps to reduce the production of noise and dust.

**Electrical work** may only be undertaken after the requisite isolations and permits have been obtained and all required safety measures are in place. All required personal protective equipment must be worn. Live commissioning may only be undertaken by trained and competent Contractor's personnel who are authorised and supervised by competent personnel provided by the Contractor, and, if so identified, the project client and professional team.

**Hot works** – All hot works will require a method statement. A permit to use equipment is required after it has been inspected and found to be in good condition and task specific documents are in place. All hot works will require a fire extinguisher at less than 20 meters on hand.

**Other construction hazards that the Contractor can reasonably expect are as follows:**

Bricklaying  
Compacting and Filling  
Compactor Operations  
Confined Spaces  
Cutting Off Disc  
Electric Tools and Electrical Installations  
Flammable Liquids / Gas  
Hand tools  
Manhole Rings and Pipes Storage  
Manual Handling of General Items  
Plant/Vehicle and Equipment Operation  
Site Strip  
Steel Erection  
Steel Fixing  
Tower Scaffold  
Working at Height (excluding scaffold)

**NOTE: Please refer to end of this Health and Safety Specification for the baseline risk assessment for these hazards and risks.**

#### ***ACTIVITIES REQUIRING APPROVED METHOD STATEMENTS (FOR HEALTH AND SAFETY)***

##### **Pre-Construction Phase Method Statements**

- Site establishment

##### **Construction Phase Method Statements**

- Excavation and operations
- Working at Height
- Scaffolding operations.
- Lifting operations.
- Demolition operations
- Confined space working
- Other operations requiring method statements will be advised during the project.



| <b><i>ACTIVITIES REQUIRING PERMITS (FOR HEALTH AND SAFETY PURPOSES)</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Permit to Dig:</b> to be advised by project management</p> <p><b>Permit to Enter Excavations:</b> Contractor to liaise with project management</p> <p><b>Road Works Permit:</b> Contractor to liaise with project management</p> <p><b>Permit to Work with Electricity:</b> Contractor to liaise with project management</p> <p><b>Confined Space Permit:</b> Contractor to liaise with project management</p> <p><b>Hot Works Permit:</b> Yes, Principal Contractor is to formally manage all hot works.</p> <p><b>Permit to Work under Power Lines:</b> Not thought to be applicable</p> <p><b>Blasting:</b> Not thought to be applicable</p> <p><b>Client issued permit for work in restricted areas:</b> Not thought to be applicable</p> <p><b>Temporary Works:</b> Where applicable, Principal Contractor to manage temporary works formally.</p>                                                                                   |
| <p><b><i>CONTRACTOR SAFETY OFFICER PROVISION</i></b></p> <p>Records of safety audits undertaken by the Contractor's Safety Officer must be kept on site in the safety file and nonconformances reported by the Safety Officer to the Contractor's management team. All nonconformances identified by the Safety Officer and client's safety agent must be investigated and corrective action taken by the Contractor to prevent re-occurrence.</p> <p>Please note that as from 7<sup>th</sup> August 2018 the safety officer must be professionally registered with the SACPCMP. Proof of registration with the SACPCMP must be provided.</p> <p>If registered as a Candidate proof of mentorship and weekly visits by mentor must be available on site.</p> <p>The requirement for this site is that a part time Safety Officer must be appointed to the project, conducting at least monthly safety audits.</p>                               |
| <p><b><i>MEDICAL CERTIFICATE OF FITNESS (ANNEXURE 3)</i></b></p> <p>The Contractor must ensure that their employees on site have a valid medical certificate of fitness, specific to the construction work being performed, issued by an occupational health practitioner in the form of an Annexure 3 template.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p><b><i>MANAGEMENT AND SUPERVISION OF CONSTRUCTION WORK</i></b></p> <p>A Principal Contractor must, in writing, appoint one full-time competent person as the construction manager with the duty of managing all the construction work on a single site, including the duty of ensuring occupational health and safety compliance, and in the absence of the construction manager an alternate competent person must be appointed by the Principal Contractor. Proof of an all-inclusive assessment by the Principal Contractor of the Construction Manager's Competency in construction management and health and safety competency must be available in the Safety File.</p> <p>The Construction Manager, Alternate Construction Managers, Assistant Construction Managers, and designated construction supervisor/s must, as a minimum, have training in Legal Liability, Construction Regulation 2014 and the OHS Act and Regulations.</p> |
| <p><b><i>TRAFFIC MANAGEMENT AND TRAFFIC SAFETY OFFICER PROVISION</i></b></p> <p>The Traffic Management Plan must be approved by the Project Manager and, as required, the Traffic Chief as per the National Road Traffic Act, No. 93 of 1996. The Traffic Safety Officer must have training as per Unit Standard 14561 or similar.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |





### **ENVIRONMENTAL CONDITIONS**

Contractor must take into account adverse weather conditions on site activities and implement control measures to mitigate risk. This includes risk of exposure to excessive heat, cold, rain, lightning and wind.

The open nature of the site works will not preclude any of the above.

### **ARRANGEMENTS FOR ACCESS, PARKING, DELIVERIES, ETC.**

**Access to site by Construction Vehicles:** Off existing roads.

**Access to site by Construction Workers and Visitors:** Via existing roads.

All service providers must sign a 37.2 Mandatory Agreement and must be inducted before they can be allowed on site.

### **ARRANGEMENTS FOR SITE CAMP, ABLUTIONS AND YARD**

#### **Site camp location and set up**

- |                                       |   |                                      |
|---------------------------------------|---|--------------------------------------|
| • <b>Restrictions / requirements:</b> | } |                                      |
|                                       | } |                                      |
| • <b>Storage areas:</b>               | } | Contractor to advise in consultation |
|                                       | } | with Engineer / Professional Team    |
|                                       | } |                                      |
| • <b>Security:</b>                    | } |                                      |

#### **Ablutions and Welfare Arrangements**

Contractor to supply ablutions and facilities in line with the Construction Regulations 2014, refer to section 2.31 of this health and safety specification regarding the below. Toilets should be provided with built in facilities for hand washing. Please note further that control measures form an important part of ablutions provision on site ref soap and water/hand sanitiser, signage, etc:

- |                              |   |                                          |
|------------------------------|---|------------------------------------------|
| • <b>Toilets:</b>            | } |                                          |
|                              | } |                                          |
| • <b>Washing facilities:</b> | } | Contractor to provide as per Regulations |
|                              | } |                                          |
| • <b>Drinking Water:</b>     | } |                                          |
|                              | } |                                          |
| • <b>Shelter:</b>            | } | Contractor to provide as per Regulations |
|                              | } |                                          |
| • <b>Showers:</b>            | } |                                          |

#### **Mobile site facilities requirements:**

A camping toilet/mobile toilet will be required for sites that cannot facilitate a permanent location for ablation units and must be available for each gender per location.

The use of a camping toilet must be prepared and setup correctly with additional anchors and available toiletries prior to each working day and to be first priority when changing location of works along a set working path.

Teams are to ensure that the toilets are cleaned correctly and suitable for easy and hygienic uses and recorded on a daily register.





### ***PROTECTION OF SITE AGAINST UNAUTHORISED ACCESS BY PUBLIC***

**Excavation Fencing:** Note that excavations accessible to public, or adjacent to public roads / thoroughfares, must have (1) barrier / fence of at least 1m in height, and (2) warning illuminants at night or when visibility is poor, or have other suitable precautionary measures if of both these are not practicable.

- Suitable barriers is to be used as the minimum during excavation.
- Excavations are to be backfilled at the end of each shift.
- Spoil heaps are to be secured against unauthorised access.

**General Fencing of Site:** Note that construction sites in built up areas adjacent to public walkway must be fenced off and have controlled access points with the correct signs to indicate the site office for any relevant enquiries.

- Site camp / site yard is to be fenced off with 1.8m fence panels and be access controlled.
- Barriers must be in place to segregate site from public accessed areas.

**Warning Notices:** Construction warning signage must be prominently displayed to avoid unauthorised access to site and to warn of dangers associated with construction works.

### ***PERSONAL PROTECTIVE EQUIPMENT (PPE)***

**The Client requires the Contractor to ensure that employees (and others under his/her control) wear the following minimum PPE:**

**Overalls:** Yes.

**Safety Harnesses:** Yes, for working at height.

**Hard Hats:** Yes.

**Reflective Vests:** Yes.

**Goggles / gloves / ear defenders / respiratory protection:** Yes, as per risk assessment.

**Safety Footwear:** Yes.

**Specialist Equipment (e.g. for confined Spaces):** Confined space equipment required.

### ***HAZARDOUS SUBSTANCES***

**The following materials and substances have, or may have, to be used in the works and are identified as potentially posing special health and / or safety hazards during the project. Appropriate measures will need to be specified for their control:**

Cement – Paint – Fuels (Petrol & Diesel) – Oils – Solvents

### ***1.10 INTERFACE AND RESTRICTIONS BY CLIENT***

**Contractor must note that the following Client activities will continue during construction:**  
Existing school premises will remain open during the works.

**The following Client safety rules and/or requirements are to be observed:**

All workers are to receive induction prior to commencement of work on site.  
Other safety rules and requirements to be advised at induction.



Please also refer to tender document.

The following were highlighted by the client:

- PPE to be worn at all times.
- Toilets to be utilized for urinating. Not against poles, structures, in bushes etc. (Fines to be issued for non-compliance)
- Fire safety practices area to be observed.
- Construction areas are to be secured against unauthorised access.

**Restrictions on times, access or other restrictions by Client**

Please refer to tender document.

Other restrictions may be advised at induction.

**1.11 Project Close Out**

The Health and Safety files for the Principal Contractors and all Contractors require closure and handover to the Client at the completion of the project in the form of a consolidated safety file. The following list is an example of what should be included but is not exhaustive. The Safety Agent or the Client may require further information at the time of completion and the Principal Contractor is to ensure that all instructions are responded to. Documentation would include all health and safety related records from the start of the project.

All records to be in hard copy or electronic format and submitted to the Safety Agent for approval in adequately formatted lists and folders. Layout should be logical and in the same order as in the site files.

Consolidated Health and Safety close out file requirements include:

- Health and safety specification (most recent version)
- Principal Contractor's health and safety plan/s
- Site safety organograms
- Legal appointments
- Notification to Department of Labour of commencement of work / Construction Work Permit
- Workman's Compensation Letters of Good Standing for the project
- Full safety files for all Contractors as well as their close out reports
- List of all Contractors who worked on site
- Letters of safety plan approval of Contractors by the Principal Contractor
- Mandatory agreements (section 37.2 agreements)
- Incident and accident records / Occupational Disease records
- Contractor Nonconformance records
- Safety agent's audit reports
- Safety Officer reports
- Method Statements
- Risk assessments
- Safe work procedures
- Medical surveillance certificates of fitness. Medical records are to be kept according to the Occupational Health and Safety Act, as amended.
- All temporary works drawings (suspended beams/scaffolds, etc.)
- Copies of test results, policies, and procedures for environmental monitoring (silica, noise, dusts, etc.)
- Detailed registers of all material used
- Copies of all Checklists completed



### **1.12 SAFETY FILE RETURN TO CLIENT**

The consolidated Health and Safety Files for the Project is to be handed over by the Principal Contractor to the Client upon Project Completion in either hard copy or electronic format.

## **2.0 FURTHER REQUIREMENTS**

### **2.1 Duties of Principal Contractor / Contractor in terms of Construction Regulations 2014**

A Principal Contractor must:

- provide and demonstrate to the Client a suitable, sufficiently documented and coherent site specific health and safety plan, based on the Client's documented health and safety specifications, *which* plan must be applied from the date of commencement of and for the duration of the construction work and which must be reviewed and updated by the Principal Contractor as work progresses;
- open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these Regulations, which must be made available on request to an inspector, the Client, the Client's Safety Agent, or a Contractor; and
- on appointing any other Contractor, in order to ensure compliance with the provisions of the Act –
  - provide Contractors who are tendering to perform construction work for the Principal Contractor, with the relevant sections of the health and safety specifications pertaining to the construction work which has to be performed;
  - ensure that potential Contractors submitting tenders have made sufficient provision for health and safety measures during the construction process;
  - ensure that no Contractor is appointed to perform construction work unless the Principal Contractor is reasonably satisfied that the Contractor that he or she intends to appoint, has the necessary competencies and resources to perform the construction work safely;
  - ensure prior to work commencing on the site that every Contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act, 1993;
  - appoint each Contractor in writing for the part of the project on the construction site
  - take reasonable steps to ensure that each Contractor's health and safety plan is implemented and maintained on the construction site;
  - ensure that the periodic site audits and document verification are conducted at intervals mutually agreed upon between the Principal Contractor and any Contractor, but at least once every 30 days;
  - stop any Contractor from executing construction work which is not in accordance with the Client's health and safety specifications and the Principal Contractor's health and safety plan for the site or which poses a threat to the health and safety of persons;
- where changes are brought about to the design and construction, make available sufficient health and safety information and appropriate resources to the Contractor to execute the work safely;



- discuss and negotiate with the Contractor the contents of their health and safety plan and finally approve that plan for implementation;
- ensure that a copy of both the Principal Contractor and Contractor's health and safety plan is available on request to an employee, an inspector, a Contractor, the Client, or the Client's Safety Agent;
- hand over a consolidated health and safety file to the Client upon completion of the construction work, to include a record of all drawings, designs, materials used and other similar information concerning the completed structure;
- in addition to the documentation required in the health and safety file include and make available a comprehensive and updated list of all the Contractors on site accountable to the Principal Contractor, the agreements between the parties and the type of work being done;
- ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3.

A Contractor must prior to performing any construction work-

- provide and demonstrate to the Principal Contractor a suitable and sufficiently documented health and safety plan, based on the relevant sections of the Client's health and safety specification and provided by the Principal Contractor, which plan must be applied from the date of commencement of and for the duration of the construction work and which must be reviewed and updated by the Contractor as work progresses;
- open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these Regulations, and which must be made available on request to an inspector, the Client, the Client's Safety Agent or the Principal Contractor;
- before appointing another Contractor to perform construction work be reasonably satisfied that the Contractor that he or she intends to appoint has the necessary competencies and resources to perform the construction work safely;
- co-operate with the Principal Contractor as far as is necessary to enable each of them to comply with the provisions of the Act;
- as far as is reasonably practicable, promptly provide the Principal Contractor with any information which might affect the health and safety of any person at work carrying out construction work on the site, any person who might be affected by the work of such a person at work, or which might justify a review of the health and safety plan.

Where a Contractor appoints another Contractor to perform construction work, the duties that apply to the Principal Contractor will apply to the Contractor as if he or she were the Principal Contractor.

A Principal Contractor must take reasonable steps to ensure co-operation between all Contractors appointed by the Principal Contractor to enable each of those Contractors to comply with these Regulations.

No Contractor may allow or permit any employee or person to enter any site unless that employee or person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.

A Contractor must ensure that all visitors to a construction site undergo health and safety induction pertaining to the hazards prevalent on the site and must ensure that such visitors have the necessary personal protective equipment.



A Contractor must at all times keep on his or her construction site records of the health and safety induction training and such records must be made available on request to an inspector, the Client, the Client's Safety Agent or the Principal Contractor.

A Contractor must ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3 (a template of which can be found in the Construction Regulations, 2014).

## ***2.2 Management and Supervision of Construction Work***

A Principal Contractor must, in writing, appoint one full-time competent person as the construction manager with the duty of managing all the construction work on a single site, including the duty of ensuring occupational health and safety compliance, and in the absence of the construction manager an alternate must be appointed by the Principal Contractor. Proof of all-inclusive assessment of the Construction Manager's Competency in construction management and H & S competency must be available in the Safety File. The Construction Manager must, as a minimum, have a Construction Regulation course. No Contractors may be left unsupervised on site by the Principal Contractor.

A Principal Contractor must upon having considered the size of the project, in writing appoint one or more assistant construction managers for different sections thereof: Provided that the designation of any such person does not relieve the construction manager of any personal accountability for failing in his or her management duties in terms of this regulation.

Where the construction manager has not appointed assistant construction managers, or, in the opinion of an inspector, a sufficient number of such assistant construction managers have not been appointed, that inspector must direct the construction manager in writing to appoint the number of assistant construction managers indicated by the inspector, and those assistant construction managers must be regarded as having been appointed.

No construction manager appointed in terms of the Regulations may manage any construction work on or in any construction site other than the site in respect of which he or she has been appointed.

A Contractor must, after consultation with the Client and having considered the size of the project, the degree of danger likely to be encountered or the accumulation of hazards or risks on the site, appoint a full-time or part-time construction health and safety officer in writing to assist in the control of all health and safety related aspects on the site: Provided that, where the question arises as to whether a construction health and safety officer is necessary, the decision of an inspector is decisive.

No Contractor may appoint a construction health and safety officer to assist in the control of health and safety related aspects on the site unless he or she is reasonably satisfied that the construction health and safety officer that he or she intends to appoint is registered with a statutory body approved by the Chief Inspector and has necessary competencies and resources to assist the Contractor

A construction manager must in writing appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site. Proof of all-inclusive assessment of the Construction Supervisor's competency in construction supervision and H&S competency must be available in the Safety File. The Construction Supervisor must, as a minimum, have a supervision course as per Unit Standard 262845 (Civil Engineering), 119080 (Building Construction) and 262884 (Civil Engineering).

A Contractor must, upon having considered the size of the project, in writing appoint one or more competent employees for different sections thereof to assist the construction supervisor, and every such employee has, to the extent clearly defined by the Contractor in the letter of appointment, the same duties as the construction supervisor: Provided that the designation of such employee does not relieve the construction supervisor of any personal accountability for failing in his or her supervisory duties.



Where the Contractor has not appointed such an employee, or, in the opinion of an inspector, a sufficient number of such employees have not been appointed, that inspector must instruct the Employer to appoint the number of employees indicated by the inspector.

No construction supervisor appointed may supervise any construction work on or in any construction site other than the site in respect of which he or she has been appointed: Provided that if a sufficient number of competent employees have been appropriately designated on all the relevant construction sites, the appointed construction supervisor may supervise more than one site.

### ***2.3 Notification of Intention to Commence Construction Work***

The Contractor shall notify the Provincial Director of the Department of Labour of the intention to commence construction work at least 7 days prior to the works commencing if the intended construction work will:

- Include excavation work
- Include work at height where there is a risk of falling
- Include the demolition of a structure, or
- Include the use of explosives to perform construction work.

If the construction work involves construction of a single storey dwelling for a Client, and such Client will be residing in such dwelling upon completion, the contractor must also notify the Provincial Director of the Department of Labour at least 7 days before the works commence.

This must be done on a form similar to an Annexure 2 (template of which can be found in the Construction Regulations, 2014). A copy of the notification letter to the Provincial Director shall be forwarded to the Client for record purposes.

### ***2.4 Construction Work Permit***

Not thought to be applicable to the project.

### ***2.5 Assignment of Contractor's Responsible Persons to Manage Health and Safety on Site***

The Contractor shall submit management and supervisory appointments as well as any relevant appointments in writing (as stipulated by the Construction Regulations 2014 and the Occupational Safety and Health Act 1993), prior to commencement of work (refer to **Annexure B** at the end of this Health and Safety Specification).

### ***2.6 Competency for Contractor's Responsible Persons***

The Contractor's responsible persons shall be competent in health and safety and be familiar with the Occupational Health and Safety Act 1993, and applicable regulations. Valid proof of pertinent health and safety courses attended by such persons will be required to be presented to the Client.

### ***2.7 Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA)***

The successful Contractor shall submit to the Client a valid letter of good standing with the Compensation Insurer prior to appointment.

### ***2.8 Occupational Health and Safety Policy***

The Contractor shall submit their Health and Safety Policy, prior to construction commencement, signed by the Chief Executive Officer. The Policy must outline objectives and how they will be achieved and implemented within the company operations. The Policy must be communicated to all employees and proof thereof must be available in the Safety File.



## **2.9 Health and Safety Organogram**

The Contractor shall submit an organogram, prior to construction commencement, outlining the Health and Safety Site Team that will be assigned to the project, if successful with the tender. In cases where appointments have not been made, the organogram shall reflect the position. The organogram shall be updated when there is a change in the site team.

## **2.10 Risk Assessments**

### **Baseline Risk Assessment**

The Client shall cause a baseline risk assessment to be conducted by a competent person before the design process and tender process commence, and the assessed risks shall form part of the health and safety specifications.

The Contractor must, before commencement of any construction work, and during construction work, have risk assessments performed by a competent person appointed in writing, which risk assessments form part of the health and safety plan to be applied on the site and must include:

- The identification of the risks and hazards to which persons may be exposed to;
- An analysis and evaluation of the risks and hazards identified; based on a documented method
- A documented plan and applicable safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
- A monitoring plan; and
- A review plan

The Contractor must ensure that, as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated, and addressed in a risk assessment.

The Contractor must ensure that all employees under his control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures and/or control measures **before any work commences** and thereafter **at the times determined in the risk assessment monitoring and review plan of the relevant site.**

The Principal Contractor must ensure that all Contractors are informed regarding any hazard that is stipulated in the risk assessment **before any work commences** and thereafter **at the times determined in the risk assessment monitoring and review plan of the relevant site.**

The Contractor must consult with the health and safety committee or with a representative trade union or representative group of employees if no health and safety committee exists, on the monitoring and review of the risk assessments for the site.

The Contractor must ensure that copies of risk assessment for this site are available on site for inspection purposes by interested parties (inspector, the Client, Client's Safety Agent, any Contractor, any employee, a representative trade union, a health and safety representative or safety committee member.

A Contractor must review the relevant risk assessment where changes are effected to the design and/or construction that result in a change to the risk profile, or when an incident has occurred.

**Preventative measures must first address the elimination of the hazard or risk. Should PPE be required to reduce risk, the equipment or clothing to be used must be SABS approved.**

In general, the Contractor must ensure that the Risk Assessment involves identifying the hazards present in a work activity on site. This is followed by an evaluation of the extent of the risk involved taking into account those precautions already being taken.





The following general principle should be followed when conducting a risk assessment:

- All relevant risks and/or hazards should be systematically addressed;
- The risk assessment should address what actually happens in the workplace during the work activity;
- All employees and those who may be affected must be considered, including maintenance staff, security guards, visitors, and Contractors;
- The risk assessment should highlight those groups and individuals who may be required to work alone or who have disabilities;
- The risk assessment process should take into account the existing safety measures and controls.
- The level of detail on a risk assessment should be appropriate to the level of risk.

### ***2.11 Health and Safety Representative(s)***

The Contractor shall ensure that Health and Safety Representative(s) is/are elected and trained to carry out his / her functions. The Safety Representative(s) must be democratically nominated, elected, and appointed in writing. The Health and Safety Representative(s) shall carry out regular inspections, keep records and report to the supervisor to take appropriate action. The Safety Representative(s) shall attend Health and Safety Committee Meetings. The Health and Safety Representative shall be part of the team that will investigate incidents, accidents, and non-conformances. The Safety Representative(s) must be (a) full time employee(s) who is/are acquainted with conditions and activities at that workplace or section thereof. The Safety Representatives must have Safety Representative training and must be capable of performing their duties.

### ***2.12 Health and Safety Committee***

Where two or more health and safety representatives have been appointed on site, the Contractor shall ensure that monthly health and safety meetings are held with such representatives and minutes are kept on record. Meetings must be organized and chaired by the Contractor's Health and Safety Committee Chairperson. Minutes of these meetings must be available for the employees of the Contractor to refer to.

**PLEASE NOTE THAT THE SAFETY AGENT MAY REQUIRE THAT THE PRINCIPAL CONTRACTOR CONVENES A SAFETY COMMITTEE MEETING ON SITE IN THE INTERESTS OF HEALTH AND SAFETY ON SITE. SUCH COMMITTEE MEETING MAY REQUIRE ATTENDANCE OF CONTRACTORS SAFETY OFFICERS/SAFETY REPRESENTATIVES, CONSTRUCTION SUPERVISION AND THE SAFETY AGENT.**

### ***2.13 Medical Certificate of Fitness***

The Contractor must ensure that their employees on site have a valid medical certificate of fitness, specific to the construction work being performed, issued by an occupational health practitioner in the form of an Annexure 3 template (refer to the Construction Regulations 2014 on the Department of Labour website for a sample of this form).

Employees required to perform work at heights or from fall risk position must be medically fit to perform such work, such employee's medicals must specify "Fall Risk" or "Working at heights" in the exposure section of the annexure 3 template.

### ***2.14 Health and Safety Training***

The Contractor shall quarterly conduct a training needs analysis to ascertain what health and safety training is required. A plan of action should be devised and forwarded to the Client for records. Once the identified people have attended the training, the Contractor must provide the Client with copies of certificates obtained.





#### **2.14.1 Induction**

No Contractor may allow or permit any employee or person to enter site unless they have undergone health and safety induction training pertaining to the hazards prevalent on site at the time of entry. This includes visitors to site. The Contractor must ensure that visitors to site have the necessary protective equipment (PPE). A copy of attendance registers of all employees who attend inductions shall be kept.

#### **2.14.2 Awareness**

The Contractor shall conduct periodic toolbox talks on site, weekly or before any hazardous work takes place. The talks shall cover the relevant activity and an attendance register must be signed by all attendees. This record of who attended and the content of the topic will be kept on the site health and safety file as evidence of training.

#### **2.15 Competency**

After the Contractor has identified the training to be conducted as part of the competency requirement, and based on Risk Assessment, he shall send the relevant persons on appropriate courses and keep certificates of training for reference. Familiarity with the Health and Safety Act and Regulations is an integral part of the definition of competence. All training must be conducted by an accredited training provider and the certificates must display the applicable unit standards and the expiry dates thereof.

#### **2.16 General Record Keeping**

The Contractor shall keep and maintain Health and Safety records to demonstrate compliance with the Health and Safety Specification and the Occupational Health and Safety Act. The Contractor shall ensure that all records of incidents, spot fines, training, etc. are kept on site. All documents shall be available for inspection by the Client, or the Department of Labour's Inspectors.

#### **2.17 General Inspection, Monitoring and Reporting**

The Contractor shall carry out inspections as required by this Health and Safety Specification, as well as by health and safety legislation.

#### **2.18 Emergency Procedures**

The Contractor shall submit a detailed Emergency Procedure for approval by the Client prior to commencement on site. The procedure shall detail the response plan including the following:

- List of key personnel;
- Details of emergency services;
- Actions or steps to be taken in the event of the emergency; and
- Information on hazardous materials / situations, including each material's hazardous potential impact or risk on the environment or human and measures to be taken in the event of an accident.

Emergency procedure(s) shall include, but shall not be limited to, fire, spills, accidents to employees, use of hazardous substances, dangers as a result of riot / service delivery protests / intimidation, etc. The Contractor shall advise the Client in writing of any on-site emergencies, together with a record of action taken, within 24 hours of the emergency occurring. A contact list of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, etc.) must be maintained and available to site personnel.

#### **2.19 First Aid Box and First Aid Equipment**

The Contractor shall provide first aid box/es and appoint, in writing, First Aider(s) for this project in line with the results of the Contractor's risk assessment for the project, this health and safety specification as



well as the provisions of the General Safety Regulations. The appointed First Aider(s) are to be sent for accredited first aid training before starting on site. Valid certificates are to be kept on site.

- First Aid box/es must be adequately stocked at all times, accessible and be controlled by a qualified First Aider.
- Perishables to be checked and replaced when expired.
- Stock per content list as per the General Safety Regulations Annexure.
- Signage to be in place.
- To be numbered and sealed with name of first aider on or above the First aid box.
- Dressing logbook to be available in the first aid box.
- If more than 5 employees are present, there must be a first aid box available.
- Register to be checked by a Competent person.

If required by the Client, the Contractor shall have a stretcher on site to be used in case of a serious incident.

### ***2.20 Accident / Incident Reporting and Investigation***

The Contractor shall, in addition to the prescribed requirements of the Occupational Health and Safety Act and General Safety Regulations, investigate, record, and report all Section 24 reportable incidents to the Client within 24 hours of the incident occurring. Incident investigations shall be conducted by the Contractor's appointed Accident Investigator – this Investigator must be a competent person or persons who have sufficient knowledge to carry out an investigation.

In the event of a fatality or a permanent disabling injury the Contractor must submit proof of reporting of incident to Department of Labour as well as proof of preventative measures to the Client. The Client reserves the right to conduct investigations into any incidents that they deem fit and the Contractor is required to provide full co-operation in this regard.

### ***2.21 Hazards and Potential Situations***

The Contractor shall immediately notify other Contractors of any hazardous or potentially hazardous situations, which may arise during performance of the activities.

### ***2.22 Occupational Health and Safety Signage***

The Contractor shall ascertain and provide adequate on site health and safety signage. This signage shall include, but shall not be limited to, Hard Hat / Helmet Area; Safety Shoes to be worn on site; Dust Masks to be worn in areas where there might be exposure to excessive dust; Ear Plugs / Muffs to be worn where there might be noise exposure over 85 dB; Gloves; Safety Goggles; Safety Harness, Workers in Excavation, traffic management, etc. The Contractor shall be responsible to maintain the quality and replacement of signage. Signage must comply with the requirements of SABS.

### ***2.23 Management of Contractors by Principal Contractor***

The Principal Contractor shall ensure that all Contractors under his control are complying with the respective Health and Safety Plans, as well as Health and Safety Legislation.

### ***2.24 Stacking of Materials***

In addition to the provisions for the stacking of articles in the General Safety Regulations, 2003, the Contractor must ensure that –

- a competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site;
- adequate storage areas are provided;



- there are demarcated storage areas; and
- storage areas are kept neat and under control.

### ***2.25 Housekeeping and General Safeguarding on Construction Sites***

A Contractor must, in addition to compliance with the Environmental Regulations for Workplaces, 1987, promulgated by Government Notice No. R. 2281 of 16 October 1987, ensure that suitable housekeeping is continuously implemented on each construction site, including-

- the proper storage of materials and equipment;
- the removal of scrap, waste and debris at appropriate intervals;
- ensuring that materials required for use, are not placed on the site so as to obstruct means of access to and egress from workplaces and passageways;
- ensuring that materials which are no longer required for use, do not accumulate on and are removed from the site at appropriate intervals;
- ensuring that waste and debris are not disposed of from a high place with a chute, unless the chute complies with the requirements set out in the regulations;
- ensuring that construction sites in built-up areas adjacent to a public way are suitably and sufficiently fenced off and provided with controlled access points to prevent the entry of unauthorized persons; and
- ensuring that a catch platform or net is erected above an entrance or passageway or above a place where persons work or pass under or fencing off the danger area if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe in the case of danger or possibility of persons being struck by falling objects.

### ***2.26 Construction Vehicles and Mobile Plant***

A Contractor must ensure that all construction vehicles and mobile plant-

- are of an acceptable design and construction;
- are maintained in a good working order;
- are used in accordance with their design and the intention for which they were designed, having due regard to safety and health;
- are operated by a person who-
  - has received appropriate training, is certified competent and in possession of proof of competency and is authorised in writing to operate those construction vehicles and mobile plant;
  - has a medical certificate of fitness to operate those construction vehicles and mobile plant, issued by an occupational health practitioner in the form of Annexure 3.
- have safe and suitable means of access and egress;
- are properly organized and controlled in any work situation by providing adequate signalling or other control arrangements to guard against the dangers relating to the movement of vehicles and plant, in order to ensure their continued safe operation;
- are prevented from falling into excavations, water, or any other area lower than the working surface by installing adequate edge protection, which may include guard-rails and crash barriers;
- are fitted with structures designed to protect the operator from falling material or from being crushed should the vehicle or mobile plant overturn;
- are equipped with an acoustic warning device which can be activated by the operator;
- are equipped with an automatic acoustic reversing alarm;
- are equipped with fire extinguishers (2.5 – 4.5 kg); and
- are inspected by the authorised operator or driver on a daily basis using a relevant checklist prior to use and that the findings of such inspection are recorded in a register kept in the construction vehicle or mobile plant.

A Contractor must ensure that-

- no person rides or is required or permitted to ride on a construction vehicle or mobile plant otherwise than in a safe place provided thereon for that purpose;



- every construction site is organized in such a way that, as far as is reasonably practicable, pedestrians and vehicles can move safely and without risks to health;
- the traffic routes are suitable for the persons, construction vehicles or mobile plant using them, are sufficient in number, in suitable positions and of sufficient size;
- every traffic route is, where necessary, indicated by suitable signs;
- all construction vehicles and mobile plant left unattended at night, adjacent to a public road in normal use or adjacent to construction areas where work is in progress, have appropriate lights or reflectors, or barricades equipped with appropriate lights or reflectors, in order to identify the location of the vehicles or plant;
- all construction vehicles or mobile plant when not in use, have buckets, booms, or similar appendages, fully lowered, or blocked, controls in a neutral position, motors stopped, wheels chocked, brakes set, and ignition secured;
- whenever visibility conditions warrant additional lighting, all mobile plant are equipped with at least two headlights and two taillights when in operation;
- tools, material, and equipment are secured and separated by means of a physical barrier in order to prevent movement when transported in the same compartment with employees;
- vehicles used to transport employees have seats firmly secured and adequate for the number of employees to be carried; and
- all construction vehicles or mobile plant travelling, working, or operating on public roads comply with the requirements of the National Road Traffic Act, 1996.
- all plant and vehicles are fitted with amber rotating beacons and reverse alarms.
- ALL construction site vehicles must be inspected daily especially if it has dangerous "items" (fuel, explosives, etc.) on vehicle, completed inspection registers must also be available for inspection.
- the vehicles must resemble the original manufacturer's product. Levers, alarms, and amber lights to be fitted to construction vehicle for notification of vehicle.
- fire extinguishers, signage, and licence disc to be correctly mounted and displayed.
- when the vehicle is stationary no key to be left in or on vehicle or plant.
- Drip tray must be present when stationary.

### ***2.27 Electrical Installations and Machinery on Construction Sites***

A Contractor must, in addition to compliance with the Electrical Installation Regulations and the Electrical Machinery Regulations, ensure that –

- before construction commences and during the progress thereof, adequate steps are taken to ascertain the presence of and guard against danger to workers from any electrical cable or apparatus which is under, over or on the site;
- all parts of electrical installations and machinery are of adequate strength to withstand the working conditions on construction sites;
- the control of all temporary electrical installations on the construction site is designated to a competent person who has been appointed in writing for that purpose;
- all temporary electrical installations used by the Contractor are inspected at least once a week by a competent person and the inspection findings are recorded in a register kept on the construction site; and
- all electrical machinery is inspected by the authorized operator or user on a daily basis using a relevant checklist prior to use and the inspection findings are recorded in a register kept on the construction site.

### ***2.28 Use and Temporary Storage of Flammable Liquids on Construction Sites***

A Contractor must, in addition to compliance with the provisions for the use and storage of flammable liquids in the General Safety Regulations, 2003, ensure that –

- where flammable liquids are being used, applied, or stored at the workplace concerned, it is done in a manner that does not cause a fire or explosion hazard, and that the workplace is effectively ventilated;



- no person smokes in any place in which flammable liquid is used or stored, and the Contractor must affix a suitable and conspicuous notice at all entrances to any such areas prohibiting such smoking;
- an adequate amount of efficient fire-fighting equipment is installed in suitable locations around the flammable liquids store with the recognized symbolic signs;
- only the quantity of flammable liquid needed for work on one day is taken out of the store for use;
- all containers holding flammable liquids are kept tightly closed when not in actual use and, after their contents have been used up, are removed from the construction site and safely disposed of;
- where flammable liquids are decanted, the metal containers are bonded and earthed; and
- no flammable material, including cotton waste, paper, cleaning rags or similar material is stored together with flammable liquids
- proper containers are to be used for fuel. Marked and labelled as per the content.
- diesel on site; more than 800 litres must have a certificate, fire safe certificate. Locked in a ventilated, secure area with a drip tray and have a designated, responsible person to use it.

### ***2.29 Water environments***

Not thought to be applicable.

### ***2.30 Fire precautions on Construction Sites***

A Contractor must, in addition to compliance with the Environmental Regulations for Workplaces, 1987, ensure that –

- all appropriate measures are taken to avoid the risk of fire;
- sufficient and suitable storage is provided for flammable liquids, solids, and gases;
- smoking is prohibited and notices in this regard are prominently displayed in all places containing readily combustible or flammable materials;
- in confined spaces and other places in which flammable gases, vapours or dust can cause danger-
  - only suitably protected electrical installations and equipment, including portable lights, are used;
  - there are no flames or similar means of ignition;
  - there are conspicuous notices prohibiting smoking;
  - oily rags, waste, and other substances liable to ignite are without delay removed to a safe place; and
  - adequate ventilation is provided;
- combustible materials do not accumulate on the construction site;
- welding, flame cutting, and other hot work are done only after appropriate precautions have been taken to reduce the risk of fire;
- suitable and sufficient fire-extinguishing equipment is placed at strategic locations or as may be recommended by the Fire Chief or local authority concerned, and that such equipment is maintained in a good working order;
- the fire equipment contemplated above is inspected by a competent person, who has been appointed in writing for that purpose, in the manner indicated by the manufacturer thereof;
- a sufficient number of workers are trained in the use of fire-extinguishing equipment;
- where appropriate, suitable visual signs are provided to clearly indicate the escape routes in the case of a fire;
- the means of escape is kept clear at all times;
- there is an effective evacuation plan providing for all -
  - persons to be evacuated speedily without panic;
  - persons to be accounted for; and
  - plant and processes to be shut down; and
- a siren is installed and sounded in the event of a fire.



### **2.31 Construction Employees' Facilities**

A Contractor must, in terms of the Construction Regulations 2014, provide:

- Shower facilities after consultation with the employees or employees' representatives, or at least one shower facility for every 15 persons;
- at least one sanitary facility for each sex and for every 30 workers;
- Toilets to be within walking distance
- Hygiene registers to be completed
- Proof of safe disposal of effluent waste disposal certificates to be obtained
- changing facilities for each sex;
- and sheltered/shaded eating area.
- Protection from the Elements and raised off the ground.
- Every Employer shall provide sanitary facilities at the workplace in accordance with the provisions of Parts F, P and Q of the National Building Regulations.
- Sufficient clean water for all employees. 500ml to each employee every hour.

A Contractor must provide reasonable and suitable living accommodation for the workers at construction sites who are far removed from their homes and where adequate transportation between the site and their homes, or other suitable living accommodation, is not available.

### **2.32 Fall protection**

The Contractor must:

- designate a competent person to be responsible for the preparation of a fall protection plan
- ensure that the fall protection plan contemplated above is implemented, amended where and when necessary and maintained as required; and
- take steps to ensure continued adherence to the fall protection plan.

A fall protection plan contemplated above must include-

- a risk assessment of all work carried out from a fall risk position and the procedures and methods used to address all the risks identified per location;
- the processes for the evaluation of the employees' medical fitness necessary to work at a fall risk position and the records thereof;
- a programme for the training of employees working from a fall risk position and the records thereof;
- the procedure addressing the inspection, testing, and maintenance of all fall protection equipment; and
- a rescue plan detailing the necessary procedure, personnel and suitable equipment required to effect a rescue of a person in the event of a fall incident to ensure that the rescue procedure is implemented immediately following the incident.

A Contractor must ensure that a construction manager appointed under regulation 8(1) is in possession of the most recently updated version of the fall protection plan.

A Contractor must ensure that all unprotected openings in floors, edges, slabs, hatchways, and stairways are adequately guarded, fenced, or barricaded or that similar means are used to safeguard any person from falling through such openings;

Also that no person is required to work in a fall risk position, unless such work is performed safely as contemplated in above and fall prevention and fall arrest equipment are approved as suitable and of sufficient strength for the purpose for which they are being used, having regard to the work being carried out and the load, including any person, they are intended to bear; and securely attached to a structure or plant, and the structure of plant and the means of attachment thereto are suitable and of sufficient





strength and stability for the purpose of safely supporting the equipment and person who could fall, and fall arrest equipment is used only where it is not reasonably practicable to use fall prevention equipment.

### **2.33 Temporary works**

A Contractor must appoint a temporary works designer in writing to design, inspect and approve the erected temporary works on site before use.

A Contractor must ensure that all temporary works operations are carried out under the supervision of a competent person who has been appointed in writing for that purpose.

A Contractor must ensure that-

- all temporary works structures are adequately erected, supported, braced and maintained by a competent person so that they are capable of supporting all anticipated vertical and lateral loads that may be applied to them, and that no loads are imposed onto the structure that the structure is not designed to withstand;
- all temporary works structures are done with close reference to the structural design drawings, and where any uncertainty exists the structural designer should be consulted;
- detailed activity specific drawings pertaining to the design of temporary works structures are kept on the site and are available on request to an inspector, other Contractors, the Client, the Client's Safety Agent, or any employee;
- all persons required to erect, move, or dismantle temporary works structures are provided with adequate training and instruction to perform those operations safely;
- all equipment used in temporary works structure are carefully examined and checked for suitability by a competent person, before being used;
- all temporary works structures are inspected by a competent person immediately before, during and after the placement of concrete, after inclement weather or any other imposed load and at least on a daily basis until the temporary works structure has been removed and the results have been recorded in a register and made available on site;
- no person may cast concrete, until authorization in writing has been given by the competent person contemplated above;
- if, after erection, any temporary works structure is found to be damaged or weakened to such a degree that its integrity is affected, it is safely removed or reinforced immediately;
- adequate precautionary measures are taken in order to-
  - secure any deck panels against displacement; and
  - prevent any person from slipping on temporary works due to the application of release agents;
- as far as is reasonably practicable, the health of any person is not affected through the use of solvents or oils or any other similar substances;
- upon casting concrete, the temporary works structure is left in place until the concrete has acquired sufficient strength to safely support its own weight and any imposed load, and is not removed until authorization in writing has been given by the competent person
- the foundation conditions are suitable to withstand the loads caused by the temporary works structure and any imposed load in accordance with the temporary works design.
- provision is made for safe access by means of secured ladders or staircases for all work to be carried out above the foundation bearing level;
- a temporary works drawing, or any other relevant document includes construction sequences and methods statements;
- the temporary works designer has been issued with the latest revision of any relevant structural design drawing;
- a temporary works design and drawing is used only for its intended purpose and for a specific portion of a construction site; and
- the temporary works drawings are approved by the temporary works designer before the erection of any temporary works.

No Contractor may use a temporary works design and drawing for any work other than its intended purpose.



### **2.34 Excavation**

A Contractor must-

- ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose; and
- evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins.

A Contractor who performs excavation work-

- must take reasonable and sufficient steps in order to prevent, as far as is reasonably practicable, any person from being buried or trapped by a fall or dislodgement of material in an excavation;
- may not require or permit any person to work in an excavation which has not been adequately shored or braced: Provided that shoring and bracing may not be necessary where-
  - the sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or
  - such an excavation is in stable material: Provided that-
    - permission has been given in writing by the appointed competent person contemplated above upon evaluation by him or her of the site conditions; and
    - where any uncertainty pertaining to the stability of the soil still exists, the decision from a professional engineer or a professional technologist competent in excavations is decisive and such a decision must be noted in writing and signed by both the competent person and the professional engineer or technologist, as the case may be;
- must take steps to ensure that the shoring or bracing contemplated above is designed and constructed in a manner that renders it strong enough to support the sides of the excavation in question;
- must ensure that no load, material, plant or equipment is placed or moved near the edge of any excavation where it may cause its collapse and consequently endangers the safety of any person, unless precautions such as the provision of sufficient and suitable shoring or bracing are taken to prevent the sides from collapsing;
- must ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, steps are taken to ensure the stability of such building, structure or road and the safety of persons;
- must cause convenient and safe means of access to be provided to every excavation in which persons are required to work, and such access may not be further than six metres from the point where any worker within the excavation is working;
- must ascertain, as far as is reasonably practicable, the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and must before the commencement of excavation work that may affect any such service, take the steps that are necessary to render the circumstances safe for all persons involved;
- must ensure that every excavation, including all bracing and shoring, is inspected-
  - daily, prior to the commencement of each shift;
  - after every blasting operation;
  - after an unexpected fall of ground;
  - after damage to supports; and
  - after rain,by the competent person, in order to ensure the safety of the excavation and of persons, and those results must be recorded in a register kept on site and made available on request to an inspector, the Client, the Client's Safety Agent, any other Contractor or any employee;
- must cause every excavation which is accessible to the public or which is adjacent to public roads or thoroughfares, or whereby the safety of persons may be endangered, to be –
  - adequately protected by a barrier or fence of at least one metre in height and as close to the excavation as is practicable; and





- provided with warning illuminants or any other clearly visible boundary indicators at night or when visibility is poor, or have resort to any other suitable and sufficient precautionary measure where this is not practicable;
- must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with by any person entering any excavation;
- must, where the excavation work involves the use of explosives, appoint a competent person in the use of explosives for excavation, and must ensure that a method statement is developed by that person in accordance with the applicable explosive's legislation; and
- must cause warning signs to be positioned next to an excavation within which or where persons are working or carrying out inspections or tests.

### **2.35 Demolition Work** (partial demolition at Masakhane, Gansbaai)

A Contractor must appoint a competent person in writing to supervise and control all demolition work on site.

A Contractor must ensure that before any demolition work is carried out, and in order to ascertain the method of demolition to be used, a detailed structural engineering survey of the structure to be demolished is carried out by a competent person and that a method statement on the procedure to be followed in demolishing the structure is developed by that person.

During a demolition, the competent person contemplated in above must check the structural integrity of the structure at intervals determined in the method statement contemplated in above, in order to avoid any premature collapses.

A Contractor who performs demolition work must with regard to a structure being demolished, take steps to ensure that-

- no floor, roof or other part of the structure is overloaded with debris or material in a manner which would render it unsafe;
- all reasonably practicable precautions are taken to avoid the danger of the structure collapsing when any part of the framing of a framed or partly framed building is removed, or when reinforced concrete is cut; and
- precautions are taken in the form of adequate shoring or other means that may be necessary to prevent the accidental collapse of any part of the structure or adjoining structure;
- ensure that no person works under overhanging material or a structure which has not been adequately supported, shored, or braced;
- ensure that any support, shoring, or bracing contemplated above, is designed and constructed so that it is strong enough to support the overhanging material;
- where the stability of an adjoining building, structure or road is likely to be affected by demolition work on a structure, take steps to ensure the stability of such structure or road and the safety of persons;
- ascertain as far as is reasonably practicable the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and must before the commencement of demolition work that may affect any such service, take the steps that are necessary to render circumstances safe for all persons involved;
- cause every stairwell used and every floor where work is being performed in a building being demolished, to be adequately illuminated by either natural or artificial means;
- cause convenient and safe means of access to be provided to every part of the demolition site in which persons are required to work; and
- erect a catch platform or net above an entrance or passageway or above a place where persons work or pass under or fence off the danger areas if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe where there is a danger or possibility of persons being struck by falling objects.



A Contractor must ensure that no material is dropped to any point, which falls outside the exterior walls of the structure, unless the area is effectively protected.

No person may dispose of waste and debris from a high place by a chute unless the chute-

- is adequately constructed and rigidly fastened;
- if inclined at an angle of more than 45 degrees to the horizontal, is enclosed on its four sides;
- if of the open type, is inclined at an angle of less than 45 degrees to the horizontal;
- where necessary, is fitted with a gate at the bottom end to control the flow of material; and discharges into a container or an enclosed area surrounded by barriers.

A Contractor must ensure that every chute used to dispose of rubble is designed in such a manner that rubble does not free-fall and that the chute is strong enough to withstand the force of the debris travelling along the chute.

A Contractor must ensure that no equipment is used on floors or working surfaces unless such floors or surfaces are of sufficient strength to support the imposed loads.

Where a risk assessment indicates the presence of asbestos, a Contractor must ensure that all asbestos related work is conducted in accordance with the Asbestos Abatement Regulations, 2020.

Where a risk assessment indicates the presence of lead, a Contractor must ensure that all lead related work is conducted in accordance with the Lead Regulations, 2001.

Where the demolition work involves the use of explosives, a method statement must be developed in accordance with the applicable explosives legislation, by an appointed person who is competent in the use of explosives for demolition work and all persons involved in the demolition works must adhere to demolition procedures issued by the appointed person.

A Contractor must ensure that all waste and debris are as soon as reasonably practicable removed and disposed of from the site in accordance with the applicable legislation.

### ***2.36 Tunnelling***

Not thought to be applicable to this project.

### ***2.37 Scaffolding***

A Contractor must appoint a competent person in writing who must ensure that all scaffolding work operations are carried out under his or her supervision and that all scaffold erectors, team leaders and inspectors are competent to carry out their work as per the SANS 10085 of 2004.

A Contractor using access scaffolding must ensure that such scaffolding, when in use, complies with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act and SANS 10085. Scaffold must be;

- Level and balanced upon the correct footing such as base jacks, U-Jacks, and mobile wheels
- Have the correct Ledgers and bracing methods to secure the frames and Standards
- To be fully boarded with the correct edge protection on both the 0.500m and 1 metre height per working platforms.
- Working platforms to be in accordance with the Tables 4 and 5 of the SANS 10085 for weight restrictions
- Have the correct access that is fitted within the scaffold and grants access to the working platforms and must be fitted with a trap door system.
- Secured with fastening methods such Reveal and fixed ties according to table 7 of SANS 10085. Buttresses to be used when required.
- signage must be displayed to indicate if the scaffold is safe or unsafe to use.



- Trestles to be built in accordance to section 10.16.1 of the SANS 10085 and safety requirements to be met by the scaffolding inspector and scaffold supervisors on site.

### **2.38 Bulk mixing plant**

A contractor must ensure that the operation of a bulk mixing plant is supervised by a competent person who has been appointed in writing and is –

- aware of all the dangers involved in the operation thereof; and
- conversant with the precautionary measures to be taken in the interest of health and safety.

No person supervising or operating a bulk mixing plant may authorize any other person to operate the plant unless that person is competent to operate a bulk mixing plant.

A contractor must ensure that the placement and erection of a bulk mixing plant complies with the requirements set out by the manufacturer and that such plant is erected as designed.

A contractor must ensure that all devices to start and stop a bulk mixing plant are provided and that those devices are placed in an easily accessible position and constructed in a manner to prevent accidental starting.

A contractor must ensure that the machinery and plant selected is suitable for the mixing task and that all dangerous moving parts of a mixer are placed beyond the reach of persons by means of doors, covers or other similar means.

No person may remove or modify any guard or safety equipment relating to a bulk mixing plant, unless authorized to do so by the appointed person.

A contractor must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with when entering any silo.

A contractor must ensure that a record is kept of all repairs or maintenance to a bulk mixing plant and that the record is available on site to an inspector, the Client, the Client's Safety Agent, or any employee.

### **2.39 Rope Access Work**

Not thought to be applicable to this project.

### **2.40 Hazardous Chemical Substances (HCS)**

In addition to the requirements in the HCS Regulations, the Principal Contractor must provide proof in the Health and Safety Plan that:

- Material Safety Data Sheets (MSDS's) of the relevant materials / hazardous chemical substances are available prior to use by the Contractor. All MSDS's shall be available for inspection by the agent at all times.
- Risk assessments are done at least once every 6 months.
- Exposure monitoring is done according to OESSM and by an Approved Inspection Authority (AIA) and that the medical surveillance programme is based on the outcomes of the exposure monitoring.
- How the relevant HCS's are being/going to be controlled by referring to:
  - Limiting the amount of HCS
  - Limiting the number of employees
  - Limiting the period of exposure
  - Substituting the HCS
  - Using engineering controls
  - Using appropriate written work procedures
- The correct PPE is being used.



- HCS are stored and transported according to SABS 072 and 0228.
- Training with regards to these regulations was given.

The Health and Safety plan should make reference to the disposal of hazardous waste on classified sites and the location thereof (where applicable).

The First Aider must be made aware of the MSDS and trained in how to treat HCS incidents appropriately.

#### ***2.41 Noise Induced Hearing Loss***

Where noise is identified as a hazard the requirements of the NIHL regulations must be complied with and the following must be included / referred to in the Health and Safety Plan:

- Proof of training with regards to these regulations.
- Risk assessment done within 1 month of commencement of work.
- That monitoring carried out by an AIA and done according to SABS 083.
- Medical surveillance programme established and maintained for the necessary employees.
- Control of noise by referring to:
  - Engineering methods considered
  - Admin control (number of employees exposed) considered
  - Personal protective equipment considered/decided on
- Describe how records are going to be kept for 40 years.

#### ***2.42 Explosives and Blasting***

Not thought to be applicable to this project.

#### ***2.43 Personal Protective Equipment (PPE)***

The Contractor shall carry out PPE or clothing needs analysis in accordance with his risk assessment, to determine the necessary PPE or clothing to be used during construction. The Contractor shall make provision to keep adequate quantities of appropriate, SABS approved PPE or clothing on site at all times.

The Contractor must ensure that personnel are trained in the correct use of PPE to be used.

The Contractor must ensure that lost, stolen, worn out or damaged PPE is replaced as required and receipt signed for by employees on site.

#### ***2.44 Asbestos (if applicable)***

Not thought to be applicable to this project.

#### ***2.45 Pressure Vessels (Including Gas Bottles)***

The Contractor shall comply with Pressure Vessel Regulations, including:

- Providing competency and awareness training to the operators;
- Providing PPE or clothing;
- Providing and maintain appropriate signage in areas where pressure vessels are used, as applicable;
- Inspect equipment regularly and keep records of inspections;
- Providing appropriate firefighting equipment (Fire Extinguishers).
- Under pressure vessels to have the following in place;



- Service date
- Seals on valves with no leaks and not broken
- flash arrestors
- Should be stored and chained together
- Oxygen / Acetylene bottles to have clips
- Signage to be visible
- Gauges in working condition and be visible
- Permits for use
- Pressure equip Regs 6. (1) The user shall ensure that the pressure equipment is operated and maintained within its design and operating parameters.

#### **2.46 Fire Extinguishers and Fire Fighting Equipment**

The Contractor shall provide adequate, regularly serviced fire extinguishers located at strategic points on site. The Contractor shall keep spare serviced portable fire extinguishers. The Contractor shall have adequate persons trained or competent to use the Fire Fighting Equipment.

Safety signage shall be posted up in all areas where fire extinguishers are located.

#### **2.47 Lifting Machinery and Tackle**

The Contractor shall ensure that lifting machinery and tackle is inspected before use and on a monthly basis. The Contractor shall have lifting machinery and tackle inspector who will inspect the equipment at intervals required by the Driven Machinery Regulations, taking into account that:

- All lifting machinery and tackle have a safe working load clearly indicated
- Regular inspection and servicing is carried out
- Records are kept of inspections and of service certificates
- Thorough examinations are carried out by competent personnel at the frequencies required by legislation
- There is proper supervision in terms of guiding the loads which includes a trained banks man to direct and check lifting tackle if it is safe for use
- Forklift to be inspected every year and lift plan every 2 years
- Load test certificate to be no older than 6 months
- Sufficient props to be used and max weight to be displayed
- Slings to be checked with regard to integrity, chains, serial numbers, checked for tears, cuts links and all other materials
- Hooks to be oiled, not in a fixed position and closed to prevent materials from slipping/falling off
- Lifting equipment must be used for the scope of work carried out

#### **2.48 Ladders and Ladder work**

The Contractor shall ensure that all ladders are numbered and inspected regularly keeping record of inspections. It should be noted that Aluminium ladders are preferred to wooden ladders.

#### **2.49 General Machinery**

The Contractor shall comply with the Driven Machinery Regulations, which include inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing and training those that use machinery and enforce compliance.



### **2.50 Portable Electrical Tools**

The Contractor shall ensure that use and storage of all explosive actuating fastening devices and portable electrical tools are in compliance with relevant legislation.

The Contractor shall consider that:

- A competent person undertakes routine inspections;
- Only authorised persons use the tools;
- There are safe working procedures applied;
- Awareness training is carried out and compliance is enforced at all times; and
- PPE and clothing is provided and maintained.

### **2.51 High Voltage Electrical Equipment**

The Contractor shall ensure that, where the work is under, on or near high-voltage electrical equipment the Electrical Installation Regulations, together with safety instructions (Regulations of the Owner of the Equipment) are complied with. Such equipment includes:

- Eskom and the Local Authority equipment
- The Contractor's own power supply; and
- Electrical equipment being installed but not yet taken over from a Contractor by The Client.

### **2.52 Public Health and Safety**

The Contractor shall ensure that each person working on or visiting a site, and the surrounding community, shall be made aware of the dangers likely to arise from onsite activities and the precautions to be observed to avoid or minimize those dangers. Appropriate health and safety signage shall be posted at all times.

### **2.53 Night Work**

Not thought to be applicable to this project.

### **2.54 Environmental Conditions and Flora and Fauna**

The Contractor must be mindful of adverse weather conditions upon the health and safety of the workforce. This includes inclement weather, strong wind, heat stress, extreme cold, etc. The Contractor's risk assessment process must take into account the risks associated with such weather conditions. The same is true when working in an environment where there is a risk to employees' health and safety from presence of poisonous flora, or wildlife (including bees, snakes, etc). The Contractor's risk assessment process must take these risks into account.

### **2.55 Occupational Health**

Exposure of workers to occupational health hazards and risks are quite common in any work environment, especially in construction. Occupational health hazards and risks exposure is a major problem and all Contractors are to ensure that proper health and hygiene measures are put in place to prevent exposure to these hazards and risks.

The occupational hazards and risks may enter the body in three ways:

- Inhalation through breathing e.g. cement dust;
- Ingestion through swallowing maybe through food intake;
- Absorption through the skin (pores) e.g. painting or use of thinners.



The Contractor is required to ensure that all his personnel are medically fit prior to being allowed onto the work site.

All Contractors should ensure that Occupational Hygiene surveys are conducted as per the Occupational Health and Safety Act to ensure employees are not exposed to hazards. Risk Assessments should identify areas where surveys are to be conducted.

### ***2.56 Suspended Platforms***

Not thought to be applicable to this project.

### ***2.57 Material Hoists***

Not thought to be applicable to this project.

### ***2.58 Explosive Actuated Fastening Device***

No Contractor may use or permit any person to use an explosive actuated fastening device, unless-

- the user is provided with and uses suitable protective equipment;
- the user is trained in the operation, maintenance and use of such a device
- the explosive actuated fastening device is provided with a protective guard around the muzzle end, which effectively confines any flying fragments or particles; and
- the firing mechanism is so designed that the explosive actuated fastening device, will not function unless-
  - it is held against the surface with a force of at least twice its weight; and
  - the angle of inclination of the barrel to the work surface is not more than 15 degrees from a right angle.

A Contractor must ensure that-

- only cartridges suited for the relevant explosive actuated fastening device, and the work to be performed, are used;
- an explosive actuated fastening device is cleaned and examined daily before use and as often as may be necessary for its safe operation by a competent person who has been appointed for that purpose;
- the safety devices of an explosive actuated fastening device are in good working order prior to use;
- when not in use, an explosive actuated fastening device and its cartridges are locked up in a safe place, which is inaccessible to unauthorized persons;
- an explosive actuated fastening device is not stored in a loaded condition;
- a warning notice is displayed in a conspicuous manner in the immediate vicinity wherever an explosive actuated fastening device is used; and
- the issuing and collection of cartridges and nails or studs of an explosive actuated fastening device are-
  - controlled and done in writing by a person having been appointed in writing for that purpose; and
  - recorded in a register by a competent person and that the recipient has accordingly signed for the receipt thereof as well as the returning of any spent and unspent cartridges.

### ***2.59 Confined Spaces***

Confined space work must be closely monitored by a competent person appointed by the Contractor, to include, but not restricted to, ensuring that the confined space is sufficiently ventilated prior to entry. Oxygen levels to be tested in confined space to ensure that it is safe for entry. Permit system to be in





place to declare confined space safe for entry prior to entry. PPE must be worn (such as proper masks) if air supply is insufficient or not of sufficient quality.

Sufficient training must take place in use of all confined space monitoring and access equipment prior to any works commencing in such confined space. It is strongly recommended that a tripod and winch system be in place to afford easy access and egress and for emergency evacuation from the confined space (manholes and chambers). Please also refer to GSR5 on safety requirements for Work in Confined Spaces.

General safety Regulations 5.

(1) An Employer or a user of machinery shall take steps to ensure that a confined space is entered by an employee or other person only after the air therein has been tested and evaluated by a person who is competent to pronounce on the safety thereof, and who has certified in writing that the confined space is safe and will remain safe while any person is in the confined space, taking into account the nature and duration of the work to be performed therein.

(2) Where the provisions of sub regulation (1) cannot be complied with the Employer or user of machinery, as the case may be, shall take steps to ensure that any confined space in which there exists or is likely to exist a hazardous gas, vapour, dust or fumes, or which has or is likely to have, an oxygen content of less than 20 per cent by volume, is entered by an employee or other person only when-- (a) subject to the provisions of sub regulation (3), the confined space is purged and ventilated to provide a safe atmosphere therein and measures necessary to maintain a safe atmosphere therein have been taken; and (b) the confined space has been isolated from all pipes, ducts and other communicating openings by means of effective blanking other than the shutting or locking of a valve or a cock, or, if this is not practicable, only when all valves and cocks which are a potential source of danger have been locked and securely fastened by means of chains and padlocks.

(3) Where the provisions of sub regulation (2)(a) cannot be complied with, the Employer or user of machinery shall take steps to ensure that the confined space in question is entered only when the employee or person entering is using breathing apparatus of a type approved by the chief inspector and, further, that—

(a) the provisions of sub regulation (2) (b) are complied with;

(b) any employee or person entering the confined space is using a safety harness or other similar equipment, to which a rope is securely attached which reaches beyond the access to the confined space, and the free end of which is attended to by a person referred to in paragraph (c);

(c) at least one other person trained in resuscitation is and remains in attendance immediately outside the entrance of the confined space in order to assist or remove any or persons from the confined space, if necessary; and

(d) effective apparatus for breathing and resuscitation of a type approved by the chief inspector is available immediately outside the confined space.

(4) An Employer or user of machinery shall take steps to ensure that all persons vacate a confined space on completion of any work therein.

(5) Where the hazardous gas, vapour, dust or fumes contemplated in sub regulation (2) are of an explosive or flammable nature, an Employer or user of machinery shall further take steps to ensure that such a confined space is entered only if –

(a) the concentration of the gas, vapour, dust or fumes does not exceed 25 per cent of the lower explosive limit of the gas, vapour, dust or fumes concerned where the work to be performed is of such a nature that it does not create a source of ignition; or

(b) such concentration does not exceed 10 per cent of the lower explosive limit of the gas, vapour, dust or fumes where other work is performed.

## **2.60 Alcohol and drugs (GSR 2)**

1. A Contractor shall not permit any person who is or who appears to be under the influence of intoxicating liquor or drugs, to enter or remain at a site.





2. No employee shall be under the influence of or have in his or her possession or partake of or offer any other person intoxicating liquor or drugs.

3. An Employer or a user, as the case may be, shall, in the case where a person is taking medicines, only allow such person to perform duties at the site if the side effects of such medicine do not constitute a threat to the health or safety of the person concerned or other persons at such site.

### ***2.61 General Practices when Working at Heights***

- No Homemade structures or ladders will be permitted on the project.
- Trestle tables are not to be fully extended and must be fully boarded, no drums to be used.
- Surroundings to be clear of rubble.
- Fall protection, fall prevention, and fall rescue plans to be in place and communicated to site employees.
- Ladders to be structurally sound and not broken and in accordance to GSR 13A.
- Only competent persons may be allowed to work at heights
- Correct personal protective equipment to be used (safety harness and lanyard) and edge protection / life lines to be used.
- Anchor points to be in place and determined by an engineer. Anchor points must be pull tested prior to use.
- GSR (6) 6. No Employer shall require or permit any person to work in an elevated position and no person shall work in an elevated position, unless such work is performed safely from a ladder or scaffolding, or from a position where such person has been made as safe as if they were working from scaffolding.
- Construction regulation 10 of 2014 to be implemented when working at heights and to prevent any person from falling from heights.
- Employees required to perform work at heights or from fall risk position must be medically fit to perform such work, such employee's medicals must specify "Fall Risk" or "Working at heights" in the exposure section of the annexure 3 template.

### ***2.62 Traffic Accommodation***

All traffic signs must be displayed as per the traffic management plan drawings.

Size of signs used must be as per the traffic management drawings and all signs to be visible and in good condition.

- Traffic management Plan issued per Road and Traffic act (chapter 13). Must be approved by the Traffic Chief and professional team.
- Plans for signage deployment must be in order and must be placed correctly.
- Traffic management plan must be submitted and must be suitable for the tasks being performed.
- Traffic plan must be implemented and controlled by the sites Traffic safety officer and flag persons.
- Jersey barriers, where used, to be linked.
- No signs to be obstructed.
- STOP/GO structures must be protected against being struck by vehicles (e.g. new jersey barriers)
- Road marking buggies/vehicles must be protected by escort vehicles front and rear.
- Displayed traffic signs must be maintained in a daily register to be checked morning and evenings after works have been finalised.

### **Night work:**

- Signage, traffic accommodation and personnel must be visible (reflective / illuminated).
- Certified, competent traffic officer and flag persons to be used during night operations.



**Traffic Safety Officer must check signage daily and Engineer must sign it off daily.**

### **2.63 Ventilation and Lighting in the Work Place**

Every Employer shall cause every workplace in his undertaking to be lighted in accordance with the illuminance values specified in the Schedule to the General Safety Regulations:

Provided that where specialised lighting is necessary for the performance of any particular type of work, irrespective of whether that type of work is listed in the Schedule or not, the Employer of those employees who perform such work shall ensure that such specialised lighting is available to and is used by such employees.

The Contractor must ensure that:

- the average illuminance at any floor level in a workplace within five meters of a task is not less than one fifth of the average illuminance on that task;
- glare in any workplace is reduced to a level that does not impair vision;
- lighting on rotating machinery in such that the hazard of stroboscopic effects is eliminated; and
- luminaires and lamps are kept clean and, when defective, are replaced or repaired forthwith.

With a view to the emergency evacuation of indoor workplaces without natural lighting or in which persons habitually work at night, every Employer shall, in such workplaces, provide emergency sources of lighting which are such that, when activated, an illuminance of not less than 0.3 lux is obtained at floor level to enable employees to evacuate such workplaces: Provided that where it is necessary to stop machinery or shut down plant or processes before evacuating the workplace, or where dangerous materials are present or dangerous processes are carried out, the illuminance shall be not less than 20 lux.

The Contractor must ensure that the emergency sources of lighting prescribed above:

- are capable of being activated within 15 seconds of the failure of the lighting prescribed by subregulation (1);
- will last long enough to ensure the safe evacuation of all indoor workplaces;
- are kept in good working order and tested for efficient operation at intervals of not more than three months; and
- where directional luminaires are installed, these are mounted at a height of not less than two meters above floor level and are not aimed between 10° above and 45° below the horizontal line on which they are installed.

The Contractor must ensure that all rooms, stairways, passageways, gangways, basements, and other places where danger may exist through lack of natural light, to be lighted such that it will be safe.

The Contractor must ensure that every workplace in his undertaking is ventilated either by natural or mechanical means in such a way that –

- the air breathed by employees does not endanger their safety;
- the time-weighted average concentration of carbon dioxide therein, taken over an eight-hour period, does not exceed one half per cent by volume of air;
- the carbon dioxide content thereof does not at any time exceed three per cent by volume of air;
- the prescribed exposure limits for airborne substances therein are not exceeded; and
- the concentration therein of any explosive or flammable gas, vapour or dust does not exceed the lower explosive limit of that gas, vapour, or dust.

### **2.64 Nuclear Density Gauge (Troxler)**

Not thought to be applicable.

### **2.65 Ergonomics Regulation of 2019**

"competent person" in relation to ergonomics, means a person who– (a) has in respect of the work or task to be performed the required knowledge, training and experience in ergonomics and, where applicable, qualifications specific to ergonomics: provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualifications Framework Act, 2008 (Act No. 67 of 2008), those qualifications and that training must be regarded as the required qualifications and training; and (b) is familiar with the Act and the applicable regulations made under the Act;

"ergonomic risk" means a characteristic or action in the workplace, workplace conditions, or a combination thereof that may impair overall system performance and human well-being;

"ergonomic risk assessment" means a programme, process, or investigation to identify, analyse, valuate and prioritise any risk from exposure to ergonomic risks associated with the workplace;

"ergonomics" means the scientific discipline concerned with the fundamental understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data and methods to design in order to optimise human well-being and overall system performance;

The ergonomics regulations will apply to any Employer or self-employed person who carries out work at the workplace who may expose any person to an ergonomic risk in the work place and any designer, manufacturer, importer or supplier of machinery, plant, or work systems for the work place.

An Employer must, before the commencement of any work that may expose employees to ergonomic risks, have an ergonomic risk assessment performed by a competent person.

The ergonomic risk assessment must be done at intervals not exceeding two years and must include the following;

- a complete hazard identification and all persons who may be affected by the ergonomic risk.
- how employees may be affected by the ergonomic risks;
- the analysis and evaluation of the ergonomic risks;
- the prioritisation of ergonomic risks.

An Employer must review the relevant ergonomic risk assessment if:

- such assessment is no longer valid;
- control measures are no longer effective;
- technological or scientific advances allow for more effective control methods;
- there has been a change in –
  - the work methods;
  - the type of work carried out; or
  - the type of equipment used to control the exposure; and
  - an incident occurs or medical surveillance reveals an adverse health effect, where ergonomic risks are identified as a contributing factor.

An Employer must ensure that an employee is placed under medical surveillance, which is overseen by an occupational medicine practitioner, if–

- the ergonomic risk assessment referred to in regulation 6 indicates the need for the employee to be placed under medical surveillance; or
- an occupational health practitioner recommends that relevant employees must be under Medical surveillance, in which case the Employer may call upon an occupational medicine practitioner to ratify the appropriateness of such recommendation.



An Employer must ensure that the medical surveillance consists of–

- in the case of a new employee, an initial health examination before the employee commences employment or within 30 days of commencement of such employment;
- a periodic health examination informed by the ergonomic risk assessment, at intervals specified by an occupational medicine practitioner, but not exceeding two years; and
- an exit health examination informed by the ergonomic risk assessment.

♦ ♦ ♦ ♦ ♦ ♦ ♦ ♦

*Both the Client and the Contractor have a duty in terms of health and safety legislation to do all that is reasonably practicable to make members of the public and others being affected by the construction processes aware of possible risks and put preventative measures in place to mitigate the risks. The public and/or visitors shall go through a brief health and safety induction detailing hazards and risks they may be exposed to and what measures are in place to control these hazards and risks.*



### OTHER HEALTH AND SAFETY SPECIFICATION REQUIREMENTS

The Contractor must be aware of the following additional requirements:

| What                                 | When                                                     | Output                                                                                                                                                                     |
|--------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Awareness training (Toolbox Talks)   | At least weekly and before hazardous work is carried out | Attendance Register                                                                                                                                                        |
| Health and Safety Committee Meetings | Monthly                                                  | Minutes signed by the Employer (Contractor) covering:<br>a) Health and Safety Representative Checklist<br>b) Safety report from Safety Officer and Safety Agent            |
| Health and Safety Reports            | Monthly                                                  | Report covering:<br>a) Incidents/Accidents and Investigations<br>b) Non-conformance<br>c) Health and Safety Training<br>d) HIRA Updates<br>e) Internal and External Audits |
| General Inspections                  | As per Health and Safety Specification and OHSA          | Report on Health and Safety Specification and OHSA compliance:<br>a) Scaffolding<br>b) Lifting Machinery<br>c) Excavation                                                  |
| General Inspections                  | Monthly                                                  | Covering:<br>a) Firefighting Equipment<br>b) Portable Electrical Equipment<br>c) Ladders                                                                                   |
| Record keeping                       | Ongoing                                                  | Covering:<br>a) General complaints<br>b) Fines<br>c) General incidents<br>d) MSDS<br>e) Surveillance Medicals<br>f) Inspection Register<br>g) Dept of Labour Notices       |
| Permits                              | Before commencement with certain activities              | As stipulated by the Health and Safety Specification and the OHSA / Construction Regulations                                                                               |

Key:

OHSA – Occupational Health and Safety Act, 1993



## ANNEXURE A – REQUIREMENTS FOR THE SAFETY PLAN ASSESSMENT

The Contractor must note that the information below is pertinent to the compilation of their safety plan response to this site-specific safety specification and it would be preferred if the Safety Plan is written in the order of the assessment documented below.

| No | Item                                                                                                                                                                                   | Notes                                                                                                                                                                                       |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <b>Project Directory</b>                                                                                                                                                               | Please state details of Project Client, Project Manager/Principal Agent, Safety Agent, Consulting Engineer, etc. (Name, address, contact details).                                          |
| 2  | <b>Contractors Directory</b>                                                                                                                                                           | Please indicate if you will be using Contractors on this project, if yes, include their details, trade, and FEM details.                                                                    |
| 3  | <b>Other Parties Directory</b>                                                                                                                                                         | Please indicate contact details for any services applicable (electricity, water, etc.) as well as Department of Labour and Emergency Services.                                              |
| 4  | <b>Project Safety Statement</b>                                                                                                                                                        | The Project Safety Statement must be included in the Safety Plan.                                                                                                                           |
| 5  | <b>Health and Safety standards for the project (OHS Act, construction regulations, basic conditions of employment, etc.)</b>                                                           | Health and Safety standards must be included in the Safety Plan.                                                                                                                            |
| 6  | <b>Project Particulars</b>                                                                                                                                                             | Scope of works must be included in the Safety Plan. This is critical.                                                                                                                       |
| 7  | <b>Existing environment – Structures and Surroundings, Services (Electrical, Water, Sewerage, etc.), Traffic Arrangements, Parking, Access to Site, Storage of Plant and Materials</b> | Please include these items in the plan. The items must be Site Specific, the location of services and services that will be affected must be mentioned.                                     |
| 8  | <b>Management Structure for safety on the Project</b>                                                                                                                                  | A structured organogram with names of the responsible people must be included.                                                                                                              |
| 9  | <b>Appointed Persons, Supervision</b>                                                                                                                                                  | The required appointments must be identified. A list of the appointed persons must be included in the Safety Plan.                                                                          |
| 10 | <b>Security Procedures</b>                                                                                                                                                             | Please indicate if a security company will be appointed and include the contact information in the Safety Plan.                                                                             |
| 11 | <b>Registers list and inspection frequency</b>                                                                                                                                         | A list of the Inspection Registers that will be on file must be included in the Safety Plan.                                                                                                |
| 12 | <b>Design Co-ordination</b>                                                                                                                                                            | Please indicate your procedure for implementation of design changes by designer on the project, and the procedures for liaison and implementation of temporary works design on the project. |
| 13 | <b>Contractor Co-ordination</b>                                                                                                                                                        | Mention must be made of how Contractors will be co-ordinated on site to ensure that they work together and not adversely affected health and safety.                                        |



| No | Item                                                               | Notes                                                                                                                                                                                                                                              |
|----|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14 | <b>Housekeeping, stacking and storage</b>                          | Housekeeping policies and procedures must be included in the Safety Plan.                                                                                                                                                                          |
| 15 | <b>Waste Disposal Arrangements</b>                                 | Waste disposal arrangements procedures must be included in the Safety Plan.                                                                                                                                                                        |
| 16 | <b>Noise and dust control</b>                                      | Please indicate if any noisy operations (more than 85 decibels) will be carried out and what measures will be used to reduce noise exposure to workforce.                                                                                          |
| 17 | <b>Training Requirements</b>                                       | Training requirements must be identified and recorded.                                                                                                                                                                                             |
| 18 | <b>Plant and Equipment</b>                                         | A list of plant and equipment to be used on site must be included in the Safety Plan.                                                                                                                                                              |
| 19 | <b>Safety Monitoring Arrangements</b>                              | The name, contact details and SACPCMP registration status of the Safety Officer must be included in the Safety Plan. State how often the Safety officer will be on site (note safety specification requirement in section 1.7).                    |
| 20 | <b>Information for Contractors</b>                                 | State how information will be given to Contractors on site.                                                                                                                                                                                        |
| 21 | <b>Consultation/communication arrangements with Employees</b>      | State how information will be given to employees e.g. notice board.                                                                                                                                                                                |
| 22 | <b>Selection of Contractors Procedures</b>                         | Principal Contractor must state what health and safety procedures they will use to assess the competence and resources of their Contractors on site.                                                                                               |
| 23 | <b>Activities with risk to Health and Safety (Risk Assessment)</b> | A Baseline Risk Assessment must be included in the Safety Plan, it must address the Risks identified in the Safety Specification as well as the risk of any other hazards that the Principal Contractor is aware of that are relevant to the site. |
| 24 | <b>Hazardous Substances</b>                                        | Must be listed in the Safety Plan and addressed in the Risk Assessment.                                                                                                                                                                            |
| 25 | <b>First Aid and Medical Procedures</b>                            | Please indicate name of first aider, position of first aid box, location of nearest medical facility and emergency numbers.                                                                                                                        |
| 26 | <b>Fire and Emergency Procedures</b>                               | List of emergency telephone numbers must be drawn up and included in the Safety Plan. The position of Fire Extinguishers, Assembly Point location, fire drill frequencies, numbers of fire marshals, etc.                                          |
| 27 | <b>Accident and Incident Reporting and investigation</b>           | State the Accident and Incident Reporting and investigation procedures of your company.                                                                                                                                                            |
| 28 | <b>Welfare and Site Facilities</b>                                 | Elaborate on toilets and eating areas, water provision, ablution provision, how will workers be protected during wet weather conditions etc.                                                                                                       |
| 29 | <b>Site Rules</b>                                                  | The Site Rules must be included in the Safety Plan.                                                                                                                                                                                                |
| 30 | <b>Personal Protective Equipment</b>                               | The necessity must be identified by Risk Assessments, the required PPE for site risks and control measures.                                                                                                                                        |
| 31 | <b>Health &amp; Safety File arrangements</b>                       | Please indicate arrangements for the return of the Health and Safety File to the safety agent at the end of the project.                                                                                                                           |



| No | Item                                                                                                                | Notes                                                                                                                                                                                                                                                                                             |
|----|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 32 | <b>Method Statements/Safe System of Works</b>                                                                       | A list of Method Statements/Safe System of Works must be included in Safety Plan for all High-risk activities.                                                                                                                                                                                    |
| 33 | <b>Permits and wayleaves</b>                                                                                        | List of activities that Principal Contractor anticipates will require permits and wayleaves (including those stated in the safety specification) to be included.                                                                                                                                  |
| 34 | <b>Fall Prevention and Protection Plan and Fall Rescue Plan</b>                                                     | A copy of the Fall Prevention and Protection Plan, fall rescue plan and fall risk assessment must be included in the Safety Plan.                                                                                                                                                                 |
| 35 | <b>Demolition method statement</b>                                                                                  | A copy of the Demolition Method Statement must be included in the Safety Plan.                                                                                                                                                                                                                    |
| 36 | <b>Confined spaces</b>                                                                                              | The Principal Contractors' procedures for managing access, egress and work in confined spaces must be specified in the Safety Plan. Includes permit procedures, air monitoring, PPE, etc.                                                                                                         |
| 37 | <b>Safety Representatives and Safety Committees</b>                                                                 | When a project has more than 20 employees a designated employee must be chosen by the labourers to represent them. A safety committee must be established if 2 or more safety representatives are appointed. Please note Safety Specification requirements regarding this section (section 2.12). |
| 38 | <b>Have the significant hazards from the safety specification been addressed?</b>                                   | See section 1.9 of the Specifications and ensure practical measures have been detailed in the safety plan.                                                                                                                                                                                        |
| 39 | <b>Safety File - Safety Policies in File and Signed by 16(1) CEO.</b>                                               | Safety Policies must be signed and explained to employees.                                                                                                                                                                                                                                        |
| 40 | <b>Safety File - A copy of the valid Letter of Good standing from FEM / Workman's Compensation must be on file.</b> | A copy of the valid Letter of Good standing from FEM / Workman's Compensation must be on file.                                                                                                                                                                                                    |
| 41 | <b>Safety File - Signed copy of the 37.2 Mandatary Agreement</b>                                                    | A 37.2 Mandatary Agreement needs to be signed between the Client and the Principal Contractor.                                                                                                                                                                                                    |
| 42 | <b>Safety File - Appointment letter from Client (as well as 5.1.K)</b>                                              | The Client must appoint the Principal Contractor in writing.                                                                                                                                                                                                                                      |
| 43 | <b>Safety File – Notification / Permit</b>                                                                          | A copy of the Annexure 2 Notification (and proof of submission) to Department of Labour must be available. This can be in the form of a Department stamp, email, or copy of Construction Work Permit.                                                                                             |





| <b>ANNEXURE B – LEGAL APPOINTMENTS</b>                                                                             |  |
|--------------------------------------------------------------------------------------------------------------------|--|
| The Contractor shall make the following appointments, as required:                                                 |  |
| Chief Executive Officer (OSH Act 16(1))                                                                            |  |
| Contract Director/Manager (OSH Act 16(2))                                                                          |  |
| Construction Manager (CR 8(1))                                                                                     |  |
| Construction Supervisor (CR 8(7))                                                                                  |  |
| Assistant Construction Supervisor (CR 8(8))                                                                        |  |
| Construction Safety Officer (CR 8(5))                                                                              |  |
| Traffic Safety Officer                                                                                             |  |
| Safety Representative (where > 20 employees on site)                                                               |  |
| Temporary work Designer (CR 12(1))                                                                                 |  |
| Temporary work Supervisor (CR12(2))                                                                                |  |
| Construction risk assessor (CR 9(1))                                                                               |  |
| Excavation Supervisor (CR13(1)(a))                                                                                 |  |
| Demolition Supervisor (CR14(1))                                                                                    |  |
| Scaffold Supervisor (CR16(1))                                                                                      |  |
| Suspended Platform Supervisor (CR17(1))                                                                            |  |
| Material Hoist Inspector (CR19(8)(a))                                                                              |  |
| Material Hoist Operator (CR19(6))                                                                                  |  |
| Bulk Mixing Plant Supervisor (CR20(1))                                                                             |  |
| Bulk Mixing Plant Operator (CR20(2))                                                                               |  |
| Controller of Explosive Actuated Fastening Devices Nails, Cartridges or Studs Issue and Collection (CR21(2)(g)(1)) |  |
| Construction Vehicle and Mobile Plant Operator (CR23(1)(d)(i))                                                     |  |
| Controller of Temporary Electrical Installations (CR24(c))                                                         |  |
| Stacking Supervisor (CR28(a))                                                                                      |  |
| Fire Extinguishing Equipment Inspector (CR29(h))                                                                   |  |
| Fall Protection Plan Developer (CR 10(1)(a))                                                                       |  |
| Incident Investigator (OSH Act 9(2))                                                                               |  |
| Competent Person – Confined Spaces (GAR 5(1))                                                                      |  |



### ANNEXURE C - BASELINE RISK ASSESSMENT FOR PROJECT

Irrespective of the risk presented on site, it will be ensured that sufficient supervision is in place on site, that personnel are trained in accordance with legislation, including the requirement for site specific inductions on site to inform personnel on site of the risks and hazards applicable to the site. Site supervision is responsible for ensuring that the control measures required below are implemented on site.

|    | HAZARD                 | RISK                                                                                                                                                  | MINIMUM CONTROL MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Bricklaying            | Caustic contamination with mortar<br>Contact with sharp bladed tools                                                                                  | <ul style="list-style-type: none"> <li>• Use only trained personnel</li> <li>• Safe means of access to be provided</li> <li>• Safe/Suitable working platform required where working at height</li> <li>• PPE for mortar to include gloves where practicable and goggles/ masks where there is a risk of contamination</li> </ul>                                                                                                                                                                                                                                                                                                           |
| 2. | Compacting and Filling | Contact with tipping materials<br>Contact with moving plant<br>Vehicles/personnel falling into excavations<br>Contact with underground services       | <ul style="list-style-type: none"> <li>• Trained banksman to control vehicles movement</li> <li>• Only trained personnel use plant</li> <li>• Personal Protective Equipment to be worn</li> <li>• Personnel to stand clear as materials are being tipped</li> <li>• Use stop blocks and signs to warn vehicles of excavations, where applicable</li> <li>• Stand clear of plant whilst materials are being compacted</li> <li>• Establish position of underground services and protect services from damage</li> <li>•</li> </ul>                                                                                                          |
| 3. | Compactor Operations   | Crushing of feet                                                                                                                                      | <ul style="list-style-type: none"> <li>• Only trained and competent personnel to use the machine</li> <li>• Ensure operative wears steel toe cap shoes or boots at all times</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 4. | Confined Spaces        | Suffocation<br>Fumes                                                                                                                                  | <ul style="list-style-type: none"> <li>• Ensure that confined space is sufficiently ventilated</li> <li>• Wear personal protective equipment such as proper masks if air supply insufficient or not of sufficient quality</li> <li>• Test oxygen levels in confined space to ensure that is safe for entry</li> <li>• Ensure that emergency procedures in place</li> </ul>                                                                                                                                                                                                                                                                 |
| 5. | Crime and security     | Injury to employees during protest action, criminality, intimidation                                                                                  | <ul style="list-style-type: none"> <li>• Workers to be vigilant for signs of security threats</li> <li>• Contractor must have contingency plan in place for emergency evacuation of site</li> <li>• Emergency numbers for police and security to be on hand</li> <li>• Report incidents of vandalism, damage and intimidation on site to site management immediately</li> <li>•</li> </ul>                                                                                                                                                                                                                                                 |
| 6. | Cutting Off Disc       | Noise<br>Cuts from machine<br>Fire (particularly at refuelling)<br>Flying debris<br>Blade shattering<br>Contamination by fume created or exhaust fume | <ul style="list-style-type: none"> <li>• Use competent personnel.</li> <li>• Hot works control- fire extinguisher, fire watchman. (Permit may be required)</li> <li>• PPE to include gloves, eye protection, hearing protection</li> <li>• Solid working position.</li> <li>• Clear working area</li> <li>• Correct grade of blade must be used.</li> <li>• Good ventilation to be provided (forced if necessary).</li> <li>• Changing of wheels to be by competent persons only</li> <li>• Cut off discs must not be used for grinding (grinding disc thicker)</li> <li>• Bystanders to wear hearing protection, as applicable</li> </ul> |



|     | HAZARD                                      | RISK                                                                                                           | MINIMUM CONTROL MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|---------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.  | Demolition                                  | Falling materials Premature collapse of structure                                                              | <ul style="list-style-type: none"> <li>• Ensure there is a current method statement in place</li> <li>• Ensure all emergency procedures are in place and all details are displayed</li> <li>• Ensure that structural demolition has been approved by the designer and site management</li> <li>• Personnel must be competent</li> <li>• Ensure at all times there is a safe means of access and egress</li> <li>• All personnel must wear suitable and sufficient Personal Protective Equipment, including head, eye and skin protection</li> </ul>                       |
| 8.  | Electrical Commissioning                    | Electric shock                                                                                                 | <p>Personnel to comply with permits to work issued by client</p> <p>Personal protective equipment to be worn by employees to prevent electric shock</p> <p>First aid treatment to be readily available</p> <p>Only competent and trained persons may decommission or commission electrical equipment</p>                                                                                                                                                                                                                                                                  |
| 9.  | Electric Tools and Electrical Installations | Electric shock<br>Fire                                                                                         | <ul style="list-style-type: none"> <li>• Electric tools and installations to be in good condition</li> <li>• Inspect electric tools before use</li> <li>• Do not use electric tools in wet/damp conditions</li> <li>• Use personal protective equipment such as insulated gloves</li> <li>• Electrical installations register to be maintained, inspected by competent person</li> </ul>                                                                                                                                                                                  |
| 10. | Excavations (Working in and around)         | Toxic fumes<br>Collapse of trench walls/trapping<br>Falling into excavation<br>Collapse of adjacent structures | <ul style="list-style-type: none"> <li>• Deep excavations / monitor air for toxic fumes</li> <li>• Prevent collapse by battering back sides to a safe angle or install temporary support</li> <li>• Protect vehicles from falling into excavations – provide barriers, signage, etc as necessary</li> <li>• Beware of undermining of other structures (eg: buildings, scaffolds, party walls, structures)</li> <li>• Record excavation inspections by competent person on daily basis</li> <li>• Provide suitable means of access/egress in case of emergency.</li> </ul> |
| 11. | Explosive Actuated Fastening Devices        | Noise<br>Being struck by cartridge or fixing                                                                   | <ul style="list-style-type: none"> <li>• Operators to be trained, competent and wear appropriate protective equipment, eg: goggles, gloves, ear defenders, head protection.</li> <li>• Cartridge gun to be in good condition, inspected for damage and faults regularly and results entered into register</li> <li>• Used and unused cartridges and cartridge gun should be kept in secure place when not in use, maintain register for return and issue.</li> </ul>                                                                                                      |
| 12. | Fire                                        | Injuries to workers, pedestrians, residents, road users, damage to property through fire                       | <ul style="list-style-type: none"> <li>• No littering on site which could become fire hazard, maintain site in clean condition.</li> <li>• No fires to be lit on site. Have a working fire extinguisher at hand at all times.</li> <li>• No smoking or naked flame near flammable substances or in unauthorised areas</li> <li>• Ensure proper storage/use of Petrol/diesel/flammable substances – post warning notices</li> </ul>                                                                                                                                        |
| 13. | Flammable Liquids and Gases (Use of)        | Fire<br>Explosion                                                                                              | <ul style="list-style-type: none"> <li>• No littering on site which could become fire hazard, maintain site in clean condition.</li> <li>• Have a working fire extinguisher at hand at all times.</li> <li>• No smoking or naked flame near flammable substances or in unauthorised areas</li> <li>• Ensure proper storage/use of Petrol/diesel/flammable substances – post warning notices</li> <li>• Equipment must be in good condition, maintained</li> <li>• Personnel using substances must be trained in safe use and risks</li> </ul>                             |



|     | HAZARD                           | RISK                                                                                                                                                                              | MINIMUM CONTROL MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. | Hand tools                       | Injuries caused by use of hand tool<br>Impact with the tool Falls due to access problems<br>Contamination with substance being worked                                             | <ul style="list-style-type: none"> <li>• Ensure:</li> <li>• Tool is correct for job</li> <li>• Tool is in good order and suitably sharp</li> <li>• Personnel must be competent/instructed in tool usage and tool safety</li> <li>• Lighting is sufficient</li> <li>• Access is safe, working platform is secure, leading edge is guarded</li> <li>• Operative is wearing all necessary PPE</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 15. | Hazardous Substances             | Injuries to workers through use of hazardous substances, eg: injuries to eyes, skin, etc                                                                                          | <ul style="list-style-type: none"> <li>• Use substances in accordance with data sheet, particularly reference protective clothing required (example: gloves, goggles, etc)</li> <li>• Know what First Aid measures are</li> <li>• Have welfare facilities available for washing of hands, etc</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 16. | Hot Works                        | Burns to eyes or other parts of the body                                                                                                                                          | <ul style="list-style-type: none"> <li>• Personal Protective Equipment to include eye, skin and hearing protection</li> <li>• Respirator may be required where cutting galvanized steel or anywhere else toxic fumes and gases arise. Dust can also be a problem and forced ventilation may be required.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 17. | Lifting Operations               | Falling material<br>Crushing by materials<br>Hand injuries to the slinger<br>Toppling crane                                                                                       | <ul style="list-style-type: none"> <li>• Check test certificate</li> <li>• Check examination certificate</li> <li>• Check inspection have been carried out</li> <li>• Check certificates for lifting equipment (chains, slings, shackles, etc)</li> <li>• Ensure lifting gear is rated to carry load (SWL)</li> <li>• Ensure materials being lifted are properly packaged and slung.</li> <li>• Be aware that there should be a minimum clearance of 600mm between any slewing parts of a crane and any fixed installation to prevent being trapped.</li> <li>• Access to the work area during lifting operations is to be restricted to those involved with and trained in the work in hand. Do not allow members of the public to gain access to the area.</li> <li>• Only trained banksmen to be used.</li> <li>• The crane driver and the banksman are to ensure that the signals given are clearly understood.</li> </ul> |
| 18. | Manual Handling of General Items | Muscular skeletal injuries if the load is too heavy or awkward<br>Operative falling/ tripping<br>Contamination from the substance being carried<br>Fall of material being carried | <ul style="list-style-type: none"> <li>• Personnel should be aware of safe manual handling techniques</li> <li>• Personnel to wear Personal Protective Equipment when carrying items, eg: safety footwear and gloves.</li> <li>• Ensure good housekeeping against tripping/fall hazards.</li> <li>• Operative to get assistance if load too heavy- team lift if necessary.</li> <li>• Utilise mechanical lifting and carrying aids where possible.</li> <li>• Personnel to ensure access equipment, ladders will take weight of operative and load being carried.</li> <li>• Personnel to ensure item being carried is properly bonded or is not liable to break apart whilst being manually handled.</li> </ul>                                                                                                                                                                                                               |



|     | HAZARD                                        | RISK                                                                                                   | MINIMUM CONTROL MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----|-----------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19. | Members of Public – Protection of             | Injury to member of public and road users from site works                                              | <ul style="list-style-type: none"> <li>Barriers and signage to be in place</li> <li>Workers must warn away any members of public from the works</li> <li>Footpaths and bridges which are open to public must be closed off if in area of works or otherwise made safe so that no injury occurs to members of public</li> <li>Traffic turning into site – traffic management and signage as required.</li> <li>Signage to be on road at site entrance warning motorists that construction traffic turning into/out of site access. Keep roads free of mud where possible</li> <li>Refer to plant risk assessment for details on plant safety precautions</li> <li>NOTE: SIGNAGE TO BE POSTED ON SITE TO WARN OF CONSTRUCTION TRAFFIC MOVEMENTS. SAFE MEANS OF ACCESS FOR BOTH CONSTRUCTION TRAFFIC TO SITE AND RESIDENTS/BUSINESS OWNERS MUST BE AGREED.</li> </ul> |
| 20. | Mobile Crane Erection and Dismantling and Use | Collapse of structure<br>Overturning of structure<br>Falling materials                                 | <ul style="list-style-type: none"> <li>Ensure emergency procedures are in place and all operative are aware of the details</li> <li>Only use trained and competent operators for the erection and dismantling and use of cranes</li> <li>Ensure crane driver is trained and holds certification as proof. Must have valid medical certificate of fitness.</li> <li>Ensure there is safe means of access available at all times</li> <li>Ensure the mobile crane driver has 360° vision if not ensure a fully trained banksman is used</li> <li>Banksman to wear reflector vest to identify himself to the crane driver</li> <li>Ensure all personnel wear suitable and sufficient personal protective equipment</li> <li>Consider creating exclusion areas</li> </ul>                                                                                              |
| 21. | Noise and Dust                                | Breathing in dust can cause long term health problems, noise can damage hearing                        | <ul style="list-style-type: none"> <li>Wear respiratory and hearing protection</li> <li>Dampen down and minimise dust where possible.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 22. | Plant or Vehicles and Equipment Operation     | Workers injured by passing traffic<br>Road users and pedestrians at risk from plant operation<br>Noise | <ul style="list-style-type: none"> <li>Implement traffic protection measures</li> <li>Trained and competent operators must be used</li> <li>Check plant and vehicles on daily basis before use and record inspections. Maintain vehicles in safe condition.</li> <li>Medical certificates of fitness required for construction plant.</li> <li>Crossing of road by construction vehicles or machines must be limited to the practical minimum</li> <li>Plant and vehicles must be fitted with amber rotating beacons and reverse alarms.</li> <li>Wear appropriate protective clothing/equipment, eg: goggles, gloves, ear defenders, etc as appropriate.</li> </ul>                                                                                                                                                                                               |



|     | HAZARD                                    | RISK                                                                                                                | MINIMUM CONTROL MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 23. | Road Working – working in or next to road | Injury to workers caused by passing traffic<br>Injury to road users and pedestrians by works                        | <ul style="list-style-type: none"> <li>Flagmen to be used where interface with construction plant with passers-by or where hazard posed by delivery vehicles turning into/out of site.</li> <li>Traffic management plan to be approved by Municipality and, if necessary, traffic department</li> <li>No construction activities to commence until adequate provision made to accommodate traffic in accordance with the South African Traffic Signs Manual.</li> <li>Use safety signage to warn traffic and pedestrians of construction works</li> <li>Where existing walk ways/pavements affected by works, must direct pedestrian traffic away to safe walking area.</li> <li>Wear reflective waistcoats when working on or near the road or road shoulder as well as any other required personal protective clothing.</li> <li>Crossing of road by personnel must be limited to the practical minimum</li> <li>Use of fencing or other barriers as appropriate</li> </ul> |
| 24. | Scaffold Erection/ Dismantling            | Personnel falling from a height<br>Items of scaffold falling onto personnel<br>Scaffold collapsing onto those below | <ul style="list-style-type: none"> <li>Ensure</li> <li>scaffold is designed to take the imposed loads</li> <li>scaffolding is constructed properly</li> <li>scaffold is not overloaded</li> <li>scaffolders are fully trained</li> <li>scaffolding is regularly checked by competent person and record of inspection retained. Written inspections to be recorded on weekly basis</li> <li>scaffolders must adhere to the safe systems of work.</li> <li>all fall arrest equipment to be checked and certified in good working order</li> <li>that ALL understand the safe system of work</li> </ul>                                                                                                                                                                                                                                                                                                                                                                          |
| 25. | Shuttering Walls, Beams, Columns          | Falling from height<br>Falling materials from height<br>Cuts and abrasions from splinters and nails                 | <ul style="list-style-type: none"> <li>Ensure all personnel wear the appropriate Personal Protective Equipment</li> <li>Ensure at all times there is a safe working platform</li> <li>Use only trained and competent personnel</li> <li>If electrical tools are being used ensure they have been tested and safe to use</li> <li>Ensure timber is de-nailed after use</li> <li>Ensure safety standards are followed at all times</li> <li>Ensure there is a safe means of access and egress at all times</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 26. | Site Strip                                | Overtuning Vehicles                                                                                                 | <ul style="list-style-type: none"> <li>Follow standard safety procedures</li> <li>Only use trained and competent personnel</li> <li>Ensure there is a suitable and safe means of access and egress</li> <li>Ensure banksman used when required</li> <li>Ensure all personnel wear suitable reflector vests as required</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 27. | Steel Erection                            | Falls from height<br>Falling components<br>Contact injuries from falling lifting equipment                          | <ul style="list-style-type: none"> <li>Adhere to all general precautions for working at height (See risk assessment below)</li> <li>Barrier off / exclude area below work</li> <li>All lifting appliances to be examined and inspected</li> <li>Inspection register in place and up to date</li> <li>All personnel to be trained and competent and wear clipped on safety harnessed when working at height</li> <li>Ensure that lifting equipment (slings, chains, shackles) test certificates are current and on site.</li> <li>Competent persons only to connect loads and direct plant</li> </ul>                                                                                                                                                                                                                                                                                                                                                                          |



|     | HAZARD                                         | RISK                                                                                                          | MINIMUM CONTROL MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----|------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28. | Steel Fixing                                   | Back injuries caused by manual handling<br>Eye injuries from tie wire<br>Trips / falls<br>Falling from height | <ul style="list-style-type: none"> <li>PPE must include safety boots and goggles</li> <li>Manual handling training may be required</li> <li>Care to be taken when working near overhead lines</li> <li>Use only trained personnel</li> <li>Provide safe means of access</li> <li>Maintain and regularly inspect all lifting appliances and equipment</li> <li>Cap starter bars to prevent injuries where feasible</li> <li>Construct scaffold walk ways to cross reinforcing mesh, as required</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 29. | Temporary Works – shoring, falsework, formwork | Collapse of temporary work                                                                                    | <ul style="list-style-type: none"> <li>Wear personal protective equipment such as gloves and goggles</li> <li>Formwork must be built by trained person and also be inspected by competent person and results entered into register on site</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 30. | Tower (Mobile Aluminium Tower) Scaffold        | Over Turning<br>Falls                                                                                         | <ul style="list-style-type: none"> <li>Tower to be on firm level ground with wheels or feet properly supported.</li> <li>Height not to exceed 3 times the base dimension. i.e. 2x3m Base Tower not exceed 6m.</li> <li>Erection by competent person</li> <li>Inspection before first use</li> <li>Weekly record of inspection required</li> <li>Guard rails and Toe boards as per normal scaffolds</li> <li>Beware when moving of overhead obstructions, such as power lines</li> <li>Never move in strong winds</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                |
| 31. | Underground Services                           | Striking of buried services                                                                                   | <ul style="list-style-type: none"> <li>Make all necessary enquiries to establish what services are in the area. Consult drawings and advice from service provider (eg: Municipality or ESKOM) when planning work.</li> <li>Assume all service to be live (Unless confirmation is received to confirm that services are isolated or otherwise made safe). Do not work near live services without authorisation from site management.</li> <li>Comply with the requirements of the safe system of work for underground services.</li> <li>Where available, locate services with a locator</li> <li>Hand dig around services</li> </ul>                                                                                                                                                                                                                                                                                                       |
| 32. | Working at Height                              | Personnel falling from height<br>Falling debris<br>Those beneath being injured                                | <ul style="list-style-type: none"> <li>All access equipment is properly constructed (inspections record must be maintained)</li> <li>Only trained personnel construct, dismantle or control the access equipment</li> <li>All access equipment must have full toe boards and guardrails - comply with SANS 10085 on erection, use and dismantling of scaffolding</li> <li>No access equipment may be loaded above the level of the guardrail</li> <li>No access equipment to be loaded above its safe working load</li> <li>Where work involves leaning out on an open leading edge, then all personnel are to be fitted with full body harness. The harness must be connected at all times</li> <li>All fall arrest equipment to be correctly maintained</li> <li>Ensure if ladders are being used for access, they are either footed or tied. Also the ladder must be set at the correct level of 1 in 4 or approximately 75°</li> </ul> |



**ANNEXURE D – SAFETY SPECIFICATION AND BASELINE RISK ASSESSMENT  
ISSUE REGISTER**

| Date of Original Safety Specification Compilation | Compiled By | Issue Date       |
|---------------------------------------------------|-------------|------------------|
| March 2024.                                       | Mark Winter | 23rd March 2024. |

| Revision Summary         | Revised By  | Revision Date               |
|--------------------------|-------------|-----------------------------|
| Traffic management added | Mark Winter | 26 <sup>th</sup> March 2024 |
|                          |             |                             |

**Acknowledgement:**

I, \_\_\_\_\_ representing  
\_\_\_\_\_(Contractor), have satisfied  
myself with the content of this Health and Safety Specification and shall ensure that our employees  
and Contractors on site comply with the requirements of this document, our safety documentation and  
health and safety legislation.

\_\_\_\_\_  
Signature of Contractor

\_\_\_\_\_  
Date

**Comments:**

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DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

## **CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD**

**APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

### **C6: ENVIRONMENTAL SPECIFICATIONS**

## Annex 1: Construction Environmental Management Programme

### ENVIRONMENTAL MANAGEMENT PLAN

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|       | c) Good Housekeeping                                                                |
| C1006 | Training                                                                            |
| C1007 | Activities/Aspects Causing Impacts                                                  |
| C1008 | Environmental Management of Construction Activities                                 |
|       | a) Site Establishment                                                               |
|       | b) Sewage Treatment                                                                 |
|       | c) Waste Management                                                                 |
|       | d) Control at the workshop                                                          |
|       | e) Clearing the Site                                                                |
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|       | g) Drainage                                                                         |
|       | h) Earthworks and Layerworks                                                        |
|       | i) Batching Sites                                                                   |
|       | j) Spillages                                                                        |
|       | k) Areas of Specific Importance                                                     |
|       | l) Noise Control                                                                    |
|       | m) Dust Control                                                                     |
|       | n) Alien Vegetation                                                                 |
| C1009 | Record Keeping                                                                      |
| C1010 | Compliance                                                                          |
|       | Table 1: Mechanisms that Cause Environmental Impacts during Construction Activities |

## **C1001 SCOPE**

This environmental management programme (EMP) sets out the methods by which proper environmental controls are to be implemented by the contractor. The duration over which the contractor's controls shall be in place cover the construction period of the project as well as the limited time after contract completion defined by the contract conditions, and the project specifications, as the defects liability period (maintenance period).

The provisions of this EMP are binding on the contractor during the life of the contract. They are to be read in conjunction with all the documents that comprise the suite of documents for this contract.

The EMP is a dynamic document subject to similar influences and changes as are wrought by variations to the provisions of the project specification. Any substantial changes shall be submitted to the Employer in writing for approval.

The EMP identifies the following:

- Construction activities that will impact on the environment
- Specifications with which the contractor shall comply in order to protect the environment from the identified impacts
- Actions that shall be taken in the event of non-compliance

## **C1002 DEFINITIONS**

**Alien Vegetation:** alien vegetation is defined as undesirable plant growth which shall include, but not be limited to; all declared category 1 and 2 listed invader species as set out in the Conservation of Agricultural Resources Act (CARA) regulations. Other vegetation deemed to be alien shall be those plant species that show the potential to occupy in number, any area within the defined construction area.

**Construction Activity:** a construction activity is any action taken by the contractor, his subcontractors, suppliers or personnel during the construction process.

**Environment:** environment means the surroundings within which humans exist and that could be made up of –

- the land, water and atmosphere of the earth;
- micro-organisms, plant and animal life;
- any part or combination of (i) and (ii) and the interrelationships among and between them; and
- the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being

**Environmental Aspect:** an environmental aspect is any component of a contractor's construction activity that is likely to interact with the environment.

**Environmental Impact:** an impact or environmental impact is the change to the environment, whether desirable or undesirable, that will result from the effect of a construction activity within the road width and between the limits that define the construction site. An impact may be the direct or indirect consequence of a construction activity.

**Road Reserve:** the road reserve is a corridor of land, defined by co-ordinates and proclamation, within which the road, including access intersections or interchanges, is situated. A road reserve may, or may not, be bounded by a fence.

**Road Width:** for the purposes, of the EMP, the road width is defined as the area within the road reserve i.e. fence line to fence line, but also includes all areas beyond the road reserve that are affected by the continuous presence of the road, e.g. a reach of a water course.

## **C1003 IDENTIFICATION OF ENVIRONMENTAL ASPECTS AND IMPACTS**

The contractor shall identify likely aspects before commencing with any construction activity. Examples of environment aspects include:

- waste generation
- storm water discharge

- emission of pollutants into the atmosphere
- chemical use operations
- energy use operations
- water use operations
- use of natural resources

Thereafter the contractor shall programme his work in such a way that each cause and effect of a construction activity is also identified and the activity planned so as to prevent any impact from happening. If prevention is not practicable, or in the event of mishap or misapplication, the contractor shall provide plans and measures for the engineer's approval, which will limit and contain the magnitude, duration and intensity of the impact. The contractor shall demonstrate that he is capable of carrying out any repair and reinstatement of the damaged environment. These requirements shall be concurrent with the time constraints to produce an approved construction programme.

Listed below are some environmental impacts that could adversely alter an aspect of the environment through usual construction activities:

- Pollution of atmosphere, soil or water
- Destruction or removal of fauna and flora and effect on biological diversity
- Deformation of the landscape
- Soil erosion
- Destruction of historical/heritage sites
- Effect on the built environment
- Effect on agricultural land and wetlands

General good construction practise will play an important role in avoiding the occurrence of an Impact. The contractor's attention is drawn, in this regard, to C1008. Environmental Management of Construction Activities.

#### **C1004 LEGAL REQUIREMENTS**

##### **a) General**

Construction will be according to the best industry practices, as identified in the project documents. This EMP, which forms an integral part of the contract documents, informs the contractor as to his duties in the fulfilment of the project objectives, with particular reference to the prevention and mitigation of environmental impacts caused by construction activities associated with the project. The contractor should note that obligations imposed by the EMP are legally binding in terms of environmental statutory legislation and in terms of the additional conditions to the general conditions of contract that pertain to this project. In the event that any rights and obligations contained in this document contradict those specified in the standard or project specifications then the latter shall prevail.

##### **b) Statutory and other applicable legislation**

It is expected that the contractor is conversant with all legislation pertaining to the environment, including provincial and local government ordinances, which may be applicable to the contract.

#### **C1005 ADMINISTRATION OF ENVIRONMENTAL OBLIGATIONS**

##### **a) Appointment of a Designated Environmental Officer (DEO)**

For the purposes of implementing the conditions contained herein, the contractor shall submit to the engineer for approval the appointment of a nominated representative of the contractor as the DEO for the contract. The request shall be given, in writing, at least fourteen days before the start of any work clearly setting out reasons for the nomination, and with sufficient detail to enable the engineer to make a decision. The engineer will, within seven days of receiving the request, approve, reject or call for more information on the nomination. Once a nominated representative of the contractor has been approved he/she shall be the DEO and shall be the responsible person for ensuring that the provisions of the EMP are complied with during the life of the contract. The engineer will be responsible for issuing instructions of the contractor where environmental considerations call for action to be taken. The DEO shall submit regular written reports to the engineer, but not less frequently than once a month.

The engineer shall have the authority to instruct the contractor to replace the DEO if, in the engineer's opinion, the appointed officer is not fulfilling his/her duties in terms of the requirements of the EMP or this specification. Such instruction will be in writing and shall clearly set out the reasons why a replacement is required.

There shall be an approved DEO on the site at all times.

b) Administration

Before the contractor begins each construction activity the DEO shall give to the engineer a written statement setting out the following:

- The type of construction activity
- Locality where the activity will take place
- Identification of the environmental aspects and impacts that might result from the activity
- Methodology for impact prevention for each activity or aspect
- Methodology for impact containment for each activity or aspect
- Emergency/disaster incident and reaction procedures
- Treatment and continued maintenance of impacted environment

The contractor may provide such information in advance for any or all construction activities provided that new submissions shall be given to the engineer whenever there is a change or variation to the original.

The engineer may provide comment on the methodology and procedures proposed by the DEO, but he shall not be responsible for the contractor's chosen measures of impact mitigation and emergency/disaster management systems. However, the contractor shall demonstrate at inception and at least once during the contract that the approved measures and procedures function properly.

c) Good Housekeeping

The Contractor shall undertake "good housekeeping" practices during construction. This will help avoid disputes on responsibility and allow for the smooth running of the contract as a whole. Good housekeeping extends beyond the wise practice of construction methods that leaves production in a safe state from the ravages of weather to include the care for and preservation of the environment within which the site is situated.

**C1006 TRAINING**

The designated environmental officer (DEO) must be appropriately trained in environmental management and must possess skills necessary to impart environmental management skills to all personnel involved in the contract.

The contractor shall ensure that adequate environmental training takes place. All employees shall have been given an induction presentation on environmental awareness. Where possible, the presentation needs to be conducted in the language of the employees. The environmental training should, as a minimum, include the following:

- The importance of conformance with all environmental policies
- The environmental impacts, actual or potential, of their work activities
- The environmental benefits of improved personal performance
- Their roles and responsibilities in achieving conformance with the environmental policy and procedures and with the requirement of the Agency's environmental management systems, including emergency preparedness and response requirements
- The potential consequences of departure from specified operating procedures
- The mitigation measures required to be implemented when carrying out their work activities

In the case of permanent staff the contractor shall provide evidence that such induction causes have been presented. In the case of new staff (including contract labour) the contractor shall inform the engineer when and how it intends concluding its environmental training obligations.

## **C1007 ACTIVITIES/ASPECTS CAUSING IMPACTS**

A list of possible causes of environmental impacts that occur during construction activities is given in Table 7/1: Aspects or Activities that Cause Environmental Impacts during Construction Activities, which is to be found at the end of this section. This list is not exhaustive, and shall be used for guideline purposes only.

## **C1008 ENVIRONMENTAL MANAGEMENT OF CONSTRUCTION ACTIVITIES**

### **a) Site Establishment**

#### **i) Site Plan**

The contractor shall establish his construction camps, offices, workshops, staff accommodation and testing facilities on the site in a manner that does not adversely affect the environment. However, before construction can begin, the contractor shall submit to the engineer for his approval, plans of the exact location, extent and construction details of these facilities and the impact mitigation measures the contractor proposes to put in place.

The plans shall detail the locality as well as the layout of the waste treatment facilities for litter, kitchen refuse, sewage and workshop-derived effluents. The site offices should not be sited in close proximity to steep areas, as this will increase soil erosion. Preferred locations would be flat areas along the route. If the route traverses water courses, streams and rivers, it is recommended that the offices, and in particular the ablution facilities, aggregate stockpiles, spoil areas and hazardous material stockpiles are located as far away as possible from any water course as possible. Regardless of the chosen site, the contractor's intended mitigation measures shall be indicated on the plan. The site plan shall be submitted not later than the first site meeting. Detailed, electronic colour photographs shall be taken of the proposed site before any clearing may commence. These records are to be kept by the engineer for consultation during rehabilitation of the site.

#### **ii) Vegetation**

The contractor has a responsibility to inform his staff of the need to be vigilant against any practice that will have a harmful effect on vegetation.

The natural vegetation encountered on the site is to be conserved and left as intact as possible. Vegetation planted at the site shall be indigenous and in accordance with instructions issued by the engineer. Only trees and shrubs directly affected by the works, and such others as may be indicated by the engineer in writing, may be felled or cleared. In wooded areas where natural vegetation has been cleared out of necessity, same specie indigenous trees as were occurring, shall be re-established.

The project specification for the rehabilitation of the grass cover shall be strictly adhered to. Any proclaimed weed or alien species that propagates during the contract period shall be cleared by hand before seeding. Fires shall only be allowed in facilities or equipment specially constructed for this purpose. A firebreak shall be cleared and maintained around the perimeter of the camp and office sites.

#### **iii) Rehabilitation**

The area where the site offices were erected will require rehabilitation at the end of the contract. All construction material, including concrete slabs and braai areas shall be removed from the site on completion of the contract.

#### **iv) Water for Human Consumption**

Water for human consumption shall be available at the site offices and at other convenient locations on site.

All effluent water from the camp/office sites shall be disposed of in a properly designed and constructed system, situated so as not to adversely affect water sources (streams, rivers, pans dams etc.). Only domestic type wastewater shall be allowed to enter this drain.

#### **v) Cooking Fuel**

The contractor shall provide adequate facilities for his staff so that they are not encouraged to supplement their comforts on site by accessing what can be taken from the natural surroundings. The contractor shall ensure that energy sources are available at all times for construction and supervision personnel for heating and cooking purposes.

b) Sewage Treatment

Particular reference in the site establishment plan shall be given to the treatment of sewage generated at the site offices, site laboratory and staff accommodation and at all localities on the site where there will be a concentration of labour. Sanitary arrangements should be to the satisfaction of project management, the local authorities and legal requirements.

Safe and effective sewage treatment will require one of the following sewage handling methods: septic tanks and soak-aways, dry-composting toilets such as "enviro loos", or the use of chemical toilets which are supplied and maintained by a subcontractor. The type of sewage treatment will depend on the geology of the area selected, the duration of the contract and proximity (availability) of providers of chemical toilets. Should a soak-away system be used, it shall not be closer than 800 meters from any natural water course or water retention system. The waste material generated from these facilities shall be serviced on a regular basis. The positioning of the chemical toilets shall be done in consultation with the engineer.

Toilets and latrines shall be easily accessible and shall be positioned within walking distance from wherever employees are employed on the works. Use of the veld for this purpose shall not, under any circumstances, be allowed.

Outside toilets shall be provided with locks and doors and shall be secured to prevent them from blowing over. The toilets shall also be placed outside areas susceptible to flooding. The contractor shall arrange for regular emptying of toilets and shall be entirely responsible for enforcing their use and for maintaining such latrines in a clean, orderly and sanitary condition to the satisfaction of the engineer.

c) Waste Management

The contractor's intended methods for waste management and waste minimisation shall be implemented at the outset of the contract. All personnel shall be instructed to dispose of all waste in the proper manner.

i) Solid Waste

Solid waste shall be stored in an appointed area in covered, tip proof metal drums for collection and disposal. A refuse control system shall be established for the collection and removal of refuse to the satisfaction of the engineer. Disposal of solid waste shall be at a Department of Water Affairs and Forestry (DWAF) licensed landfill site or at a site approved by DWAF in the event that an existing operating landfill site is not within reasonable distance from the site offices and staff accommodation. No waste shall be burned or buried at or near the site offices, or anywhere else on the site, including the approved solid waste disposal site.

ii) Litter

No littering by construction workers shall be allowed. During the construction period, the facilities shall be maintained in a neat and tidy condition and the site shall be kept free of litter.

Measures shall be taken to reduce the potential for litter and negligent behaviour with regard to the disposal of all refuse. At all places of work the contractor shall provide litter collection facilities for later safe disposal at approved sites.

iii) Hazardous Waste

Hazardous waste such as bitumen, tar, oils, etc. shall be disposed of in a Department of Water Affairs and Forestry approved landfill site. Special care shall be taken to avoid spillage of tar or bitumen products such as binders or pre-coating fluid to avoid water-soluble phenols from entering the ground or contaminating water.

Under no circumstances shall the spoiling of tar or bituminous products on the site, over embankments, in borrow pits or any burying, be allowed. Unused or rejected tar or bituminous products shall be returned to the supplier's production plant. No spillage of tar or bituminous products shall be allowed on site. Affected areas shall be promptly reinstated to the satisfaction of the engineer.

d) Control at the Workshop

The contractor's management and maintenance of his plant and machinery will be strictly monitored according to the criteria given below, regardless whether it is serviced on the site (i.e. at the place of construction activity or at a formalised workshop).

i) Safety

All the necessary handling and safety equipment required for the safe use of petrochemicals and oils shall be provided by the contractor to, and used or worn by, the staff whose duty it is to manage and maintain the contractor's and his subcontractor's and supplier's plant, machinery and equipment.

ii) Hazardous Material Storage

Petrochemicals, oils and identified hazardous substances shall only be stored under controlled conditions. All hazardous materials, e.g. tar or bitumen binders shall be stored in a secured, appointed area that is fenced and has restricted entry. Storage of tar or bituminous products shall only take place using suitable containers to the approval of the engineer.

The contractor shall provide proof to the engineer that relevant authorisation to store such substances has been obtained from the relevant authority. In addition, hazard signs indicating the nature of the stored materials shall be displayed on the storage facility or containment structure. Before containment or storage facilities can be erected the contractor shall furnish the engineer with details of the preventative measures he proposes to install in order to mitigate against pollution of the surrounding environment from leaks or spillage. The preferred method shall be a concrete floor that is bunded. Any deviation from the method will require proof from the relevant authority that the alternative method proposed is acceptable to that authority. The proposals shall also indicate the emergency procedures in the event of misuse or spillage that will negatively affect an individual or the environment.

iii) Fuel and Gas Storage

Fuel should be stored in a secure area in a steel tank supplied and maintained by the fuel suppliers. Leakage of fuel shall be avoided. An adequate bund wall, 110% of volume, shall be provided for fuel and diesel areas to accommodate any spillage or overflow from these substances. The area inside the bund wall shall be lined with an impervious lining to prevent infiltration of the fuel into the soil.

Gas welding cylinders and LPG cylinders shall be stored in a secure, well-ventilated area.

iv) Oil and Lubricant Waste

Used oil, lubricants and cleaning materials from the maintenance of vehicles and machinery shall be collected in a holding tank and sent back to the supplier. Water and oil should be separated in an oil trap. Oils collected in this manner, shall be retained in a safe holding tank and removed from site by a specialist oil recycling company for disposal at approved waste disposal sites for toxic/hazardous materials. Oil collected by a mobile servicing unit shall be stored in the service unit's sludge tank and discharged into the safe holding tank for collection by the specialist oil recycling company.

All used filter materials shall be stored in a secure bin for disposal off site. Any contaminated soil shall be removed and replaced. Soils contaminated by oils and lubricants shall be collected and disposed of at a facility designated by the local authority to accept contaminated materials.

e) Clearing the Site

In all areas where the contractor intends to, or is required to clear the natural vegetation and soil, either within the road reserve, or at designated or instructed areas outside the road reserve, a plan of action shall first be submitted to the engineer for his approval.

The plan shall contain a photographic record and chainage/land reference of the areas to be disturbed. This shall be submitted to the engineer for his records before any disturbance/stockpiling may occur. The record shall be comprehensive and clear, allowing for easy identification during subsequent inspections.

The contractor shall be held responsible for re-establishment of grass within the road reserve boundaries for all areas disturbed during road construction. This includes, for example, service roads, stockpile areas, stop/go facilities, windrows and wherever material generated for, or from, road construction has to be stored temporarily or otherwise within the road reserve, or at designated or instructed areas outside the road reserve. This responsibility shall extend until expiry of the defects liability period.



f) Soil Management

i) Topsoil

Topsoil shall be removed from all areas where physical disturbance of the surface will occur and shall be stored and adequately protected. The contract will provide for the stripping and stockpiling of topsoil from the site for later re-use. Topsoil is considered to be the natural soil covering, including all the vegetation and organic matter. Depth may vary at each site. The areas to be cleared of topsoil shall include the storage areas. All topsoil stockpiles and windrows shall be maintained throughout the contract period in a weed-free condition. Weeds appearing on the stockpiled or windrowed topsoil shall be removed by hand. Soils contaminated by hazardous substances shall be disposed of at an approved Department of Water Affairs and Forestry waste disposal site. The topsoil stockpiles shall be stored, shaped and sited in such a way that they do not interfere with the flow of water to cause damming or erosion, or itself be eroded by the action of water. Stockpiles of topsoil shall not exceed a height of 2m, and if they are to be left for longer than 6 months, shall be analysed, and if necessary, upgraded before replacement. Stockpiles shall be protected against infestation by weeds.

The contractor shall ensure that no topsoil is lost due to erosion – either by wind or water. Areas to be topsoiled and grassed shall be done so systematically to allow for quick cover and reduction in the chance of heavy topsoil losses due to unusual weather patterns. The contractor's programme shall clearly show the proposed rate of progress of the application of topsoil and grassing. The contractor shall be held responsible for the replacement, at his own cost, for any unnecessary loss of topsoil due to his failure to work according to the progress plan approved by the engineer. The contractor's responsibility shall also extend to the clearing of drainage or water systems within and beyond the boundaries of the road reserve that may have been affected by such negligence.

ii) Subsoil

The subsoil is the layer of soil immediately beneath the topsoil. It shall be removed, to a depth instructed by the engineer, and stored separately from the topsoil if not used for road building. This soil shall be replaced in the excavation in the original order it was removed for rehabilitation purposes.

g) Drainage

The quality, quantity and flow direction of any surface water runoff shall be established prior to disturbing any area for construction purposes. Cognisance shall be taken of these aspects and incorporated into the planning of all construction activities. Before a site is developed or expanded, it shall be established how this development or expansion will affect the drainage pattern. Recognised water users / receivers shall not be adversely affected by the expansion or re-development. No water source shall be polluted in any way due to proposed changes.

Streams, rivers, pans, wetlands, dams, and their catchments shall be protected from erosion, direct or indirect spillage of pollutants such as refuse, garbage, cement, concrete, sewage, chemicals, fuels, oils, aggregate, tailings, wash water, organic materials and bituminous or tar products.

The contractor shall submit to the engineer his proposals for prevention, containment and rehabilitation measures against environmental damage of the identified water and drainage systems that occur on the site. Consideration shall be given to the placement of sedimentation ponds or barriers where the soils are of a dispersive nature or where toxic fluids are used in the construction process. The sedimentation ponds must be large enough to contain runoff so that they function properly under heavy rain conditions.

h) Earthworks and Layerworks

This section includes all construction activities that involve the mining of all materials, and their subsequent placement, stockpile, spoil, treatment or batching, for use in the permanent works, or temporary works in the case of deviations. Before any stripping prior to the commencement of construction, the contractor shall have complied with the requirements of sections C10008 (e) and C10008 (g). In addition, the contractor shall take cognisance of the requirements set out below.

i) Quarries and borrow pits

The contractor's attention is drawn to the requirement of the Department of Minerals and Energy, that before entry into any quarry or borrow pit, an EMP for the establishment, operation and closure of the quarry or borrow pit shall have been approved by the Department. It is the responsibility of the contractor to ensure that he obtains from the engineer, a copy of

the approved EMP prior to entry into the quarry or borrow pit. The conditions imposed by the relevant EMP are legally binding on the contractor and may be more extensive and explicit than the requirements of this specification. In the event of any conflict occurring between the requirements of the specific EMP and this specification the former shall apply. The cost of complying with the requirements shall be deemed to be included in existing rates in the Schedule of Quantities

ii) Excavation, hauling and placement

The contractor shall provide the engineer with detailed plans of his intended construction processes prior to starting any cut or fill or layer. The plans shall detail the number of personnel and plant to be used and the measures by which the impacts of pollution (noise, dust, litter, fuel, oil, sewage), erosion, vegetation destruction and deformation of landscape will be prevented, contained and rehabilitated. Particular attention shall also be given to the impact that such activities will have on the adjacent built environment. The contractor shall demonstrate his "good housekeeping", particularly with respect to closure at the end of every day so that the site is left in a safe condition from rainfall overnight or over periods when there is no construction activity.

iii) Spoil sites

The contractor shall be responsible for the safe siting, operation, maintenance and closure of any spoil site he uses during the contract period, including the defects liability period. This shall include existing spoil sites that are being re-entered. Before spoil sites may be used proposals for their locality, intended method of operation, maintenance and rehabilitation shall be given to the engineer for his approval. The location of these spoil sites shall have signed approval from the affected landowner before submission to the engineer. No spoil site shall be located within 500m of any watercourse. A photographic record shall be kept of all spoil sites for monitoring purposes. This includes before the site is used and after revegetation.

The use of approved spoil sites for the disposal of hazardous or toxic wastes shall be prohibited unless special measures are taken to prevent leaching of the toxins into the surrounding environment. Such special measures shall require the approval of the relevant provincial or national authority. The same shall apply for the disposal of solid waste generated from the various camp establishments. The engineer will assist the contractor in obtaining the necessary approval if requested by the contractor.

Spoil sites will be shaped to fit the natural topography. These sites shall receive a minimum of 75mm topsoil and be grassed with the recommended seed mixture. Slopes shall not exceed a vertical: horizontal ratio of 1:3. Only under exceptional circumstances will approval be given to exceed this ratio. Appropriate grassing measures to minimise soil erosion shall be undertaken by the contractor. This will include both strip and full sodding. The contractor may motivate to the engineer for other acceptable stabilising methods. The engineer may only approve a completed spoil site at the end of the defects liability period upon receipt from the contractor of a landowner's clearance notice and an engineer's certificate certifying slope stability. The contractor's costs incurred in obtaining the necessary certification for opening and closing of spoil sites shall be deemed to be included in the tendered rates for spoiling.

iv) Stockpiles

The contractor shall plan his activities so that materials excavated from borrow pits and cuttings, in so far as possible, can be transported direct to and placed at the point where it is to be used. However, should temporary stockpiling become necessary, the areas for the stockpiling of excavated and imported material shall be indicated and demarcated on the site plan submitted in writing to the engineer for his approval, together with the contractor's proposed measures for prevention, containment and rehabilitation against environmental damage.

The areas chosen shall have no naturally occurring indigenous trees and shrubs present that may be damaged during operations. Care shall be taken to preserve all vegetation in the immediate area of these temporary stockpiles. During the life of the stockpiles the contractor shall at all times ensure that they are:

Positioned and sloped to create the least visual impact;

Constructed and maintained so as to avoid erosion of the material land contamination of surrounding environment; and

Kept free from all alien/undesirable vegetation.

After the stockpiled material has been removed, the site shall be re-instated to its original condition. No foreign material generated / deposited during construction shall remain on site. Areas affected by stockpiling shall be landscaped, top soiled, grassed and maintained at the contractor's cost until clearance from the engineer is received.

Material milled from the existing road surface that is temporarily stockpiled in areas approved by the engineer within the road reserve, shall be subject to the same condition as other stockpiled materials. Excess materials from windrows, in situ milling or any detritus of material from road construction activities may not be swept off the road and left unless specifically instructed to do so in the contract drawing or under instruction from the engineer

In all cases, the engineer shall approve the areas for stockpiling and disposal of construction rubble before any operation commences and shall approve their clause only when they have been satisfactorily rehabilitated.

v) **Blasting activities**

Wherever blasting activity is required on the site (including quarries and/or borrow pits) the contractor shall rigorously adhere to the relevant statutes and regulations that control the use of explosives. In addition, the contractor shall, prior to any drilling of holes in preparation for blasting, supply the engineer with a locality plan of the blast site on which shall be shown the zones of influence of the ground and air shock-waves and expected limits of fly-rock. The plan shall show each dwelling, structure and service within the zones of influence and record all details of the dwellings/structures/services including existing positions, lengths and widths of cracks, as well as the condition of doors, windows, roofing, wells, boreholes etc. The contractor, alone, shall be responsible for any costs that can be attributed to blasting activities, including the collection of fly-rock from adjacent lands and fields. The submission of such a plan shall not in any way absolve the contractor from his responsibilities in this regard.

The contractor shall also indicate to the engineer the manner in which he intends to advertise to the adjacent communities and/or road users the time and delays to be expected for each individual blast.

i) **Batching sites**

Asphalt plants are considered scheduled processes listed in the second schedule to the Atmospheric Pollution Prevention Act, 1965 (Act No. 45 of 1965). Should the use of an asphalt plant be considered on site, the contractor shall be responsible to obtain the necessary permit from the Department of Environmental Affairs and Tourism, regardless of where they are sited.

Crushing plants and concrete batching plants, whether sited inside or outside of defined quarry or borrow pit areas, shall be subject to the requirements of the Department of Minerals and Energy legislation as well as the applicable industrial legislation that governs gas and dust emissions into the atmosphere. Such sites will be the subject of regular inspections by the relevant authorities during the life of the project. In addition, the selection, entry onto, operation, maintenance, closure and rehabilitation of such sites shall be the same as for those under section C10008(h)(iii), with the exception that the contractor shall provide additional measures to prevent, contain and rehabilitate against environmental damage from toxic/hazardous substances. In this regard the contractor shall provide plans that take into account such additional measures as concrete floors, bunded storage facilities, linings to drainage channels and settlement dams. Ultimate approval of these measures shall be from the relevant national authority, as shall approval of closure. The engineer will assist the contractor in his submissions to the relevant authority.

Effluent from concrete batch plants and crusher plants shall be treated in a suitable designated sedimentation dam to the legally required standards to prevent surface and groundwater pollution. The designs of such a facility should be submitted to the engineer for approval.

The contractor shall invite the relevant department to inspect the site within 2 months after any plant is commissioned and at regular intervals thereafter, not exceeding 12 months apart

j) **Spillages**

Streams, rivers and dams shall be protected from direct or indirect spillage of pollutants such as refuse, garbage, cement, concrete, sewage, chemicals, fuels, oils, aggregate, tailings, wash water, organic materials and tar or bituminous products. In the event of a spillage, the contractor shall be liable to arrange for professional service providers to clear the affected area.

Responsibility for spill treatment lies with the contractor. The individual responsible for, or who discovers a hazardous waste spill must report the incident to his/her DEO or to the engineer. The Designated Environmental Officer will assess the situation in consultation with the engineer and act as required. In all cases, the immediate response shall be to contain the spill. The exact treatment of polluted soil / water shall be determined by the contractor in consultation with the DEO and the engineer. Areas cleared of hazardous waste shall be revegetated according to the engineer's instructions.

Should water downstream of the spill be polluted, and fauna and flora show signs of deterioration or death, specialist hydrological or ecological advice will be sought for appropriate treatment and remedial procedures to be followed. The requirement for such input shall be agreed with the engineer. The costs of containment and rehabilitation shall be for the contractor's account, including the costs of specialist input.

k) Areas of Specific Importance

Any area, as determined and identified within the project document as sensitive or of special interest within the site shall be treated according to the express instructions contained in these specifications or the approved EMP. The contractor may offer alternative solutions to the engineer in writing should he consider that construction will be affected in any way by the hindrance of the designated sensitive area or feature. However, the overriding principle is that such defined areas requiring protection shall not be changed. Every effort to identify such areas within the site will have been made prior to the project going out to tender. The discovery of other sites with archaeological or historical interest that have not been identified shall require ad hoc treatment.

i) Archaeological Sites

If an artefact on site is uncovered, work in the immediate vicinity shall be stopped immediately. The contractor shall take reasonable precautions to prevent any person from removing or damaging any such article and shall immediately upon discovery thereof inform the engineer of such discovery. The National Monuments Council is to be contacted who will appoint an archaeological consultant. Work may only resume once clearance is given in writing by the archaeologist

ii) Graves and middens

If a grave or midden is uncovered on site, or discovered before the commencement of work, then all work in the immediate vicinity of the graves/middens shall be stopped and the engineer informed of the discovery. The National Monuments Council should be contacted and in the case of graves, arrangements made for an undertaker to carry out exhumation and reburial. The undertaker will, together with the National Monuments Council, be responsible for attempts to contact family of the deceased and for the site where the exhumed remains can be re-interred.

l) Noise Control

The contractor shall endeavour to keep noise generating activities to a minimum. Noises that could cause a major disturbance, for instance blasting and crushing activities, should only be carried out during daylight hours. Compliance with the appropriate legislation with respect to noise, shall be mandatory.

Should noise generating activities have to occur at night the people in the vicinity of the drilling shall be warned about the noise well in advance and the activities kept to a minimum.

m) Dust Control

Dust caused by strong winds shall be controlled by means of water spray vehicles. Dust omission from batching plants shall be subject to the relevant legislation and shall be the subject of inspection by the relevant Department of Minerals and Energy.

n) Alien Vegetation

The contractor shall be held responsible for the removal of alien vegetation within the road reserve disturbed during road construction. This includes, for example, service roads, stockpile areas, stop/go facilities, windrows and wherever material generated for or from road construction has been stored temporarily or otherwise within the road reserve. This responsibility shall extend for the duration of the defects liability period.

#### **C1009 RECORD KEEPING**

The engineer and the DEO to the contractor will continuously monitor the contractor's adherence to the approved impact prevention procedures and shall issue to the contractor a notice of non-compliance whenever transgressions are observed. The DEO should document the nature and magnitude of the non-conformance in a designated register, the action taken to discontinue the non-conformance, the action taken to mitigate its effects and the results of the actions. The non-conformance shall be documented and reported to the engineer in the monthly report.

Copies of any record of decision or EMP's for specific borrow pits or quarries used on the project shall be kept on site and made available for inspection by visiting officials from the employer or relevant environmental departments.

#### **C1010 COMPLIANCE**

The contractor shall act immediately when such notice of non-compliance is received and correct whatever is the cause for the issuing of the notice. Complaints received regarding activities on the construction site pertaining to the environment shall be recorded in a dedicated register and the response noted with the date and action taken. This record shall be submitted with the monthly reports and a verbal report given at the monthly site meetings.

Table 1: Mechanisms that Cause Environmental Impacts during Construction Activities

| Contents                             | Environmental Impacts                                                                                     |                                                                                                                                 |                                                                            |                                                                              |                                                     |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|
|                                      | Pollution Type                                                                                            | Deformation of Landscape                                                                                                        | Soil erosion                                                               | Alien Vegetation                                                             | Sensitive Areas<br>(to be completed<br>by compiler) |
| Camp Establishment                   | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage                                 | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil                                                         | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Housing, Offices and<br>laboratories | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage<br>Noise/lights                 | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil<br>Demarcate sensitive areas                            | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Accommodation of Traffic             | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage<br>Noise/lights<br>Dust control | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil<br>Demarcate sensitive areas<br>Maintenance of windrows | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Overhaul                             | Spillage<br>Storage<br>Noise/lights<br>Dust control<br>Exhaust fumes<br>Washing waste                     | Turning circles<br>Parking areas                                                                                                | Restrict access to sensitive<br>areas                                      | Protection of indigenous<br>vegetation<br>Preserve topsoil                   |                                                     |
| Clearing and grubbing                | Waste treatment<br>Hazardous waste<br>Water supply<br>Noise /lights                                       | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil                                                         | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Protection of indigenous<br>vegetation<br>Preserve topsoil                   |                                                     |

| Contents                | Environmental Impacts                                                                                       |                                                                                                                                 |                                                                            |                                                                              |                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|
|                         | Pollution Type                                                                                              | Deformation of Landscape                                                                                                        | Soil erosion                                                               | Alien Vegetation                                                             | Sensitive Areas<br>(to be completed<br>by compiler) |
|                         | Dust control                                                                                                |                                                                                                                                 |                                                                            |                                                                              |                                                     |
| Drainage                | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage                                   | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil                                                         | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Borrow pits             | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage                                   | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil                                                         | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Stockpiling             | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage                                   | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil                                                         | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Mass Earthworks         | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage                                   | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil                                                         | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Pavement layers         | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage<br>Noise / lights<br>Dust control | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil<br>Demarcate sensitive areas<br>Maintenance of windrows | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Asphalt works / sealing | Waste treatment<br>Hazardous waste                                                                          | Selection of site<br>Preserve indigenous vegetation                                                                             | Selection of site                                                          | Preserve indigenous<br>vegetation                                            |                                                     |

| Contents                | Environmental Impacts                                                                                          |                                                                         |                                                                            |                                                                              |                                                     |
|-------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------|
|                         | Pollution Type                                                                                                 | Deformation of Landscape                                                | Soil erosion                                                               | Alien Vegetation                                                             | Sensitive Areas<br>(to be completed<br>by compiler) |
| Operations              | Water supply<br>Spillage<br>Storage<br>Noise / lights<br>Dust control<br>Smoke control<br>Storage of materials | Preserve topsoil<br>Turning circles<br>Parking areas                    | Preserve indigenous<br>vegetation<br>Preserve topsoil                      | Preserve topsoil                                                             |                                                     |
| Ancillary road works    | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage                                      | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Structures              | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage                                      | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |
| Concrete pavements etc. | Waste treatment<br>Hazardous waste<br>Water supply<br>Spillage<br>Storage                                      | Selection of site<br>Preserve indigenous vegetation<br>Preserve topsoil | Selection of site<br>Preserve indigenous<br>vegetation<br>Preserve topsoil | Preserve indigenous<br>vegetation<br>Preserve topsoil<br>Management of weeds |                                                     |



DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

**CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD**

**APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

**C7: GEOTECHNICAL INFORMATION**

|                                                                                   |                                |                             |
|-----------------------------------------------------------------------------------|--------------------------------|-----------------------------|
|  | <b>SOIL PROFILE<br/>REPORT</b> | <b>Date:</b> 18.04.2019     |
|                                                                                   |                                | <b>Job no.:</b> 2019-C-1021 |



|                       |                                    |
|-----------------------|------------------------------------|
| <b>PROJECT:</b>       | WEC: Erf 7349 Poppedorp, Kleinmond |
| <b>PIT / HOLE No:</b> | Tp 1                               |
| <b>SAMPLED BY:</b>    | Louis Faro                         |

| Soil Legend                                                                         | Depth (mm) | DESCRIPTION                                                                                       |
|-------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------|
|  | 0-100      | Slightly moist, very loose, light brown sand. Intact<br>NOT Sampled                               |
|  | 100-400    | Slightly moist, medium dense, yellowish speckled orange sand with gravel & clay. Intact. Imported |
|  | 400-600    | Slightly moist, loose, dark brown sand. Intact. Residual                                          |
|  | 600-900    | Slightly moist, medium dense, reddish brown sandy gravel with pebbles. Intact. Residual           |

.R.77

  
 Technical Signatory – S de Vlam

**Client** : Western and Eastern Cape Consulting Engi  
**Address** : P O Box 6353  
: Uniedal  
: 7612

**Client Reference** :  
**Order No.** : SC1690/16

**Attention** :  
**Facsimile** : 021 882 8207  
**E-mail** : cindy@wec-consult.co.za; jan@wec-consult.c

**Date Received** : 23/04/2019  
**Date Tested** : 23/04/2019 - 06/05/2019  
**Date Reported** : 07/05/2019

**Project** : Implementation of Early Childhood Centres: Bambanani, Masakhane & Eluxolweni  
**Project No.** : 2019-C-1021

**Report Status** : Final Report  
**Page** : 1 of 3

Herewith please find the test report(s) pertaining to the above project. All tests were conducted in accordance with prescribed test method(s). Information herein consists of the following:

| Test(s) conducted / Item(s) measured | Qty.  | Test Method(s) | Authorized By** | Page(s) |
|--------------------------------------|-------|----------------|-----------------|---------|
| Atterberg Limits <0.425mm            | 1.000 | SANS 3001-GR10 | S de Vlam       | 2-3     |
| Sieve Analysis 0.075mm               | 1.000 | SANS 3001-GR1  | S de Vlam       | 2-3     |
| California Bearing Ratio (CBR)       | 1.000 | SANS 3001-GR40 | S de Vlam       | 3       |
| Hydrometer Analysis                  | 1.000 | ASTM D422      | S de Vlam       | 2       |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |

Any test results contained in this report and marked with \* in the table above are "not SANAS accredited" and are not included in the schedule of accreditation for this laboratory.

Any information contained in this test report pertain only to the areas and/or samples tested. Documents may only be reproduced or published in their full context.

All interpretations, Interpolations, Opinions and/or Classifications contained in this report falls outside our scope of accreditation.

The following parameters, where applicable, were excluded from the classification procedure: Chemical modifications, Additional fines, Fractured Faces, Soluble Salts, pH, Conductivity, Coarse Sand Ratio, Durability (COLTO: G4-G9).

The following parameters, where applicable, were assumed: Rock types were assumed to be of an Arenaceous nature with Siliceous cementing material.

Unless otherwise requested or stated, all samples will be discarded after a period of 3 months.

Deviations in Test Methods:

\*\*All results are authorized by technical signatories.



Technical Signatory.

Client : Western and Eastern Cape Consulting Engineers  
Project : Implementation of Early Childhood Centres: Bambanani, Masakhane & Eluxolweni  
Project No : 2019-C-1021  
Date Received: 23/04/2019  
Date Reported: 07/05/2019  
Page No. : 2 of 3

## FOUNDATION INDICATOR

|                        |                                  |
|------------------------|----------------------------------|
| Laboratory Number      | 1                                |
| Field Number           | Poppedorp K                      |
| Client Reference       |                                  |
| Depth (m)              | 600-900                          |
| Position               |                                  |
| Coordinates            | X<br>Y                           |
| Description            | Reddish brown sand with gravel & |
| Additional Information |                                  |
| Calcrete / Crushed     |                                  |
| Stabilizing Agent      |                                  |

Moisture Content & Relative Density SANS 3001-GR30

|                         |  |
|-------------------------|--|
| Moisture Content (%)    |  |
| Relative Density (S.G.) |  |

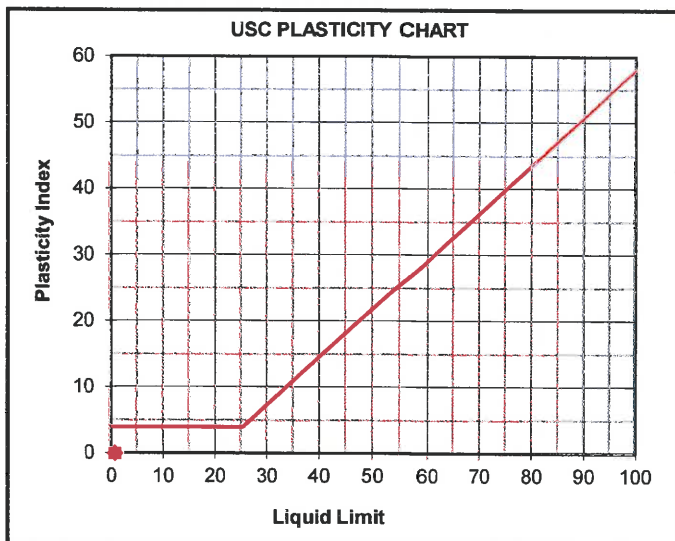
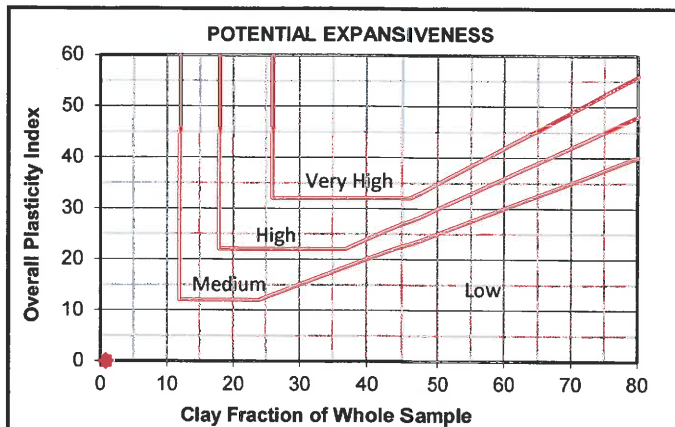
Sieve Analysis (Wet Prep) SANS 3001-GR1

|                    |          |      |  |
|--------------------|----------|------|--|
| Percentage Passing | 100 mm   | 100  |  |
|                    | 75 mm    | 100  |  |
|                    | 63 mm    | 50   |  |
|                    | 50 mm    | 41   |  |
|                    | 37.5 mm  | 31   |  |
|                    | 28 mm    | 24   |  |
|                    | 20 mm    | 19   |  |
|                    | 14 mm    | 18   |  |
|                    | 5 mm     | 15   |  |
|                    | 2 mm     | 13   |  |
|                    |          | 13   |  |
|                    | 0.425 mm | 7    |  |
|                    | 0.250 mm | 4    |  |
|                    | 0.150 mm | 2    |  |
| 0.075 mm           | 1        |      |  |
| Grading Modulus    |          | 2.79 |  |

Hydrometer Analysis ASTM D422

|                    |          |    |
|--------------------|----------|----|
| Percentage Passing | 0.060 mm | 1  |
|                    | 0.040 mm | 1  |
|                    | 0.020 mm | 1  |
|                    | 0.006 mm | 1  |
|                    | 0.002 mm | 1  |
| Gravel             | %        | 87 |
| Sand               | %        | 12 |
| Silt               | %        | 1  |
| Clay               | %        |    |

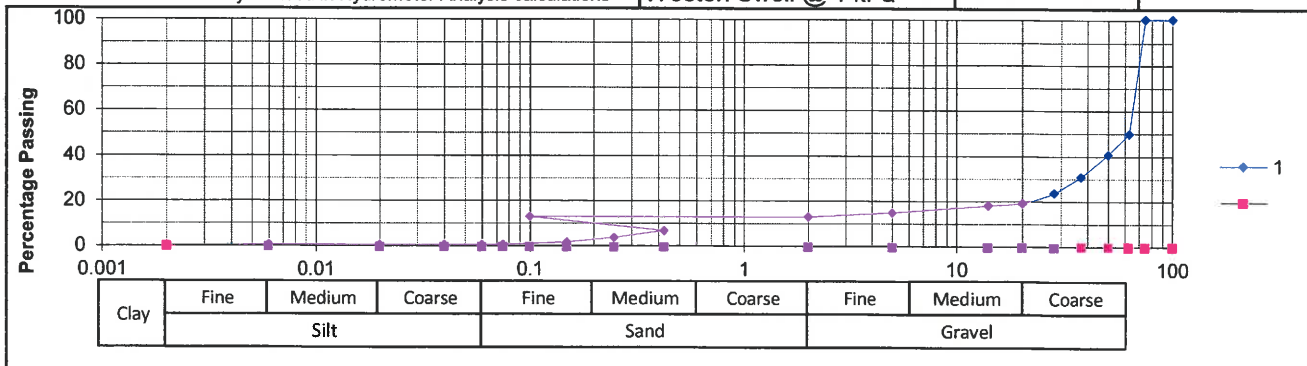
Note: An assumed S.G. may be used in Hydrometer Analysis calculations



|                        |                |
|------------------------|----------------|
| Laboratory Number      | 1              |
| Atterberg Limits -425µ | SANS 3001-GR10 |
| Liquid Limit           | %              |
| Plasticity Index       | %              |
| Linear Shrinkage       | %              |
| Overall PI             | %              |

Classifications

|                      |          |
|----------------------|----------|
| HRB (AASHTO)         | A-1-a(0) |
| Unified (ASTM D2487) | GP       |
| Weston Swell @ 1 kPa |          |



Client : Western and Eastern Cape Consulting Engineering  
Project : Implementation of Early Childhood Centres: Bambanani, 15 Warner Crescent, Blackheath, PO Box 6627, Kraaifontein North, 7572  
Project No. : 2019-C-1021  
Date Received : 23/04/2019  
Date Reported : 07/05/2019  
Page No. : 3 of 3

## CALIFORNIA BEARING RATIO (CBR) & ROAD INDICATOR REPORT

|                        |                                          |
|------------------------|------------------------------------------|
| Laboratory No.         | 1                                        |
| Field Number           | Erf 7349, Poppedorp Kleinmond            |
| Client Reference       |                                          |
| Depth (m)              | 600-900                                  |
| Position               |                                          |
| Coordinates            | X<br>Y                                   |
| Description            | Reddish brown sand with gravel & pebbles |
| Additional information |                                          |
| Calcrete/Crushed       |                                          |
| Stabilizing Agent      |                                          |

|                                                |                        |
|------------------------------------------------|------------------------|
| Laboratory No.                                 | 1                      |
| Maximum Dry Density & Optimum Moisture Content | SANS 3001-GR30         |
| MDD                                            | kg/m <sup>3</sup> 2082 |
| OMC                                            | % 9.6                  |

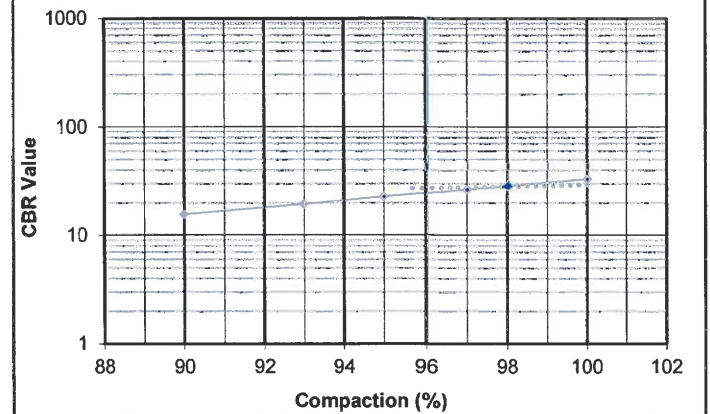
### California Bearing Ratio SANS 3001-GR40

| Compaction Data |                   |       |      |      |
|-----------------|-------------------|-------|------|------|
| Moisture        | %                 | 9.8   |      |      |
| Dry Density     | kg/m <sup>3</sup> | 2081  | 1989 | 1896 |
| Compaction      | %                 | 100.0 | 95.6 | 91.1 |

| Penetration Data   |         |      |    |    |
|--------------------|---------|------|----|----|
| CBR at             | 2.50 mm | 29   | 27 | 17 |
|                    | 5.00 mm | 46   | 41 | 20 |
|                    | 7.50 mm | 49   | 46 | 21 |
| Swell              | %       | 0    | 0  | 0  |
| Final Moisture (%) |         | 11.6 | 12 | 17 |

### Sieve Analysis (Wet preparation) SANS 3001-GR1

|                    |          |     |
|--------------------|----------|-----|
| Percentage Passing | 100 mm   | 100 |
|                    | 75 mm    | 100 |
|                    | 63 mm    | 50  |
|                    | 50 mm    | 41  |
|                    | 37.5 mm  | 31  |
|                    | 28 mm    | 24  |
|                    | 20 mm    | 19  |
|                    | 14 mm    | 18  |
|                    | 5 mm     | 15  |
|                    | 2 mm     | 13  |
|                    | 0.425 mm | 7   |
|                    | 0.250 mm | 4   |
|                    | 0.150 mm | 2   |
|                    | 0.075 mm | 1   |
| Grading Modulus    |          | 2.8 |



### Interpolated CBR Data

|                     |    |
|---------------------|----|
| @ 100%              | 33 |
| @ 98%               | 28 |
| @ 97%               | 26 |
| @ 95%               | 23 |
| @ 93%               | 20 |
| @ 90%               | 16 |
| @ SANS3001 Midpoint | 28 |

### Soil Mortar Analysis

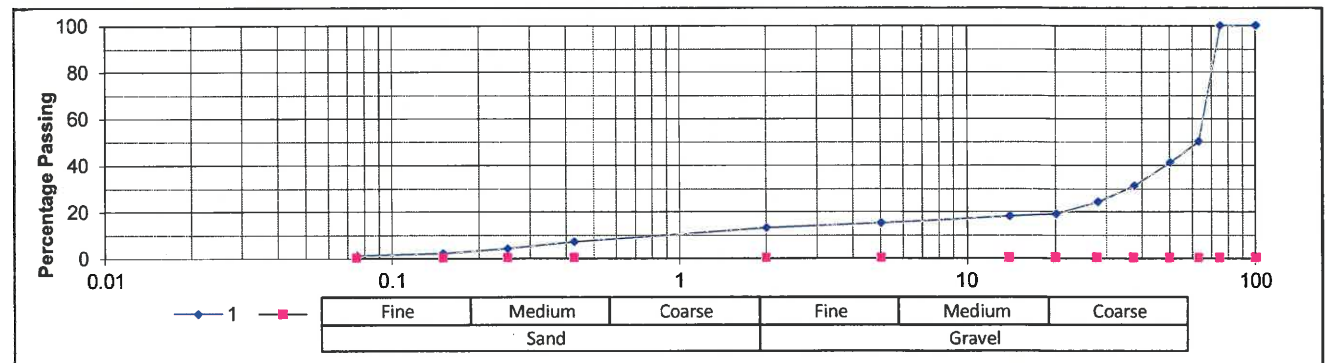
|                  |    |
|------------------|----|
| Coarse Sand      | 46 |
| Coarse Fine Sand | 22 |
| Medium Fine Sand | 16 |
| Fine Fine Sand   | 7  |
| Silt and Clay    | 10 |

### Atterberg Limits SANS 3001-GR10

|                      |    |
|----------------------|----|
| Liquid Limit (%)     |    |
| Plasticity Index (%) | NP |
| Linear Shrinkage (%) |    |

### Classifications

|              |          |
|--------------|----------|
| HRB (AASHTO) | A-1-a(0) |
| COLTO        |          |
| TRH14        | G7       |





**CUSTOMER : WEC Consult**

Po Box 6353

Uniedal

7612

**ATTENTION :** Jan Swanepoel

**PROJECT :** Erf 7349, Poppedorp, Kleinmond

**CO-ORDINATES :**

**SAMPLE No : 1**

**REF : 2019-C-1021**

**DATE : 18.04.2019**

# DYNAMIC CONE PENETROMETER DATA REPORT

**METHOD ST6 : TMH6**

[illegible]**Remarks:**

Revision 2  
Labco SF 164  
02.12.2008

Name : 

12 of 12 Position : Technical Signatory  
Saul de Vlam

12 of 12 Position : Technical Signatory  
Saul de Vlam

CUSTOMER : WEC Consult

Po Box 6353

Uniedal

7612

ATTENTION : Jan Swanepoel

PROJECT : Erf 7349, Poppedorp, Kleinmond

CO-ORDINATES :

SAMPLE No : 3

REF : 2019-C-1021

DATE : 18.04.2019

## DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

| STAKE VALUE. : |                      |                       |                      |  | REMARKS : Refuse @ rock |                      |                       |                      |  |
|----------------|----------------------|-----------------------|----------------------|--|-------------------------|----------------------|-----------------------|----------------------|--|
| SECTION :      |                      |                       |                      |  | STARTING DEPTH: 80      |                      |                       |                      |  |
| Depth (mm)     | Cumulative No. Blows | Penetration Rate (mm) | Estimated Insitu CBR |  | Depth (mm)              | Cumulative No. Blows | Penetration Rate (mm) | Estimated Insitu CBR |  |
| 80             |                      |                       |                      |  |                         |                      |                       |                      |  |
| 180            | 5                    | 20.0                  | 9                    |  |                         |                      |                       |                      |  |
| 265            | 10                   | 17.0                  | 12                   |  |                         |                      |                       |                      |  |
| 305            | 15                   | 8.0                   | 30                   |  |                         |                      |                       |                      |  |
| 365            | 20                   | 12.0                  | 18                   |  |                         |                      |                       |                      |  |
| 408            | 25                   | 8.6                   | 27                   |  |                         |                      |                       |                      |  |
| 480            | 30                   | 14.4                  | 14                   |  |                         |                      |                       |                      |  |
| 525            | 35                   | 9.0                   | 25                   |  |                         |                      |                       |                      |  |
| 565            | 40                   | 8.0                   | 30                   |  |                         |                      |                       |                      |  |
| 600            | 45                   | 7.0                   | 35                   |  |                         |                      |                       |                      |  |
| 665            | 50                   | 13.0                  | 16                   |  |                         |                      |                       |                      |  |
| 730            | 55                   | 13.0                  | 16                   |  |                         |                      |                       |                      |  |
| 765            | 60                   | 7.0                   | 35                   |  |                         |                      |                       |                      |  |
| 804            | 65                   | 7.8                   | 31                   |  |                         |                      |                       |                      |  |
| 865            | 70                   | 12.2                  | 18                   |  |                         |                      |                       |                      |  |
| 895            | 75                   | 6.0                   | 45                   |  |                         |                      |                       |                      |  |
| 940            | 80                   | 9.0                   | 25                   |  |                         |                      |                       |                      |  |
| 965            | 85                   | 5.0                   | 55                   |  |                         |                      |                       |                      |  |
| 1104           | 90                   | 27.8                  | 6                    |  |                         |                      |                       |                      |  |
| 1110           | 95                   | 1.2                   | >110                 |  |                         |                      |                       |                      |  |
| 1135           | 100                  | 5.0                   | 55                   |  |                         |                      |                       |                      |  |
| 1160           | 105                  | 5.0                   | 55                   |  |                         |                      |                       |                      |  |
| 1190           | 110                  | 6.0                   | 45                   |  |                         |                      |                       |                      |  |
| 1210           | 115                  | 4.0                   | 75                   |  |                         |                      |                       |                      |  |

Remarks:

Revision 2  
Labco SF 164  
02.12.2008

Name :

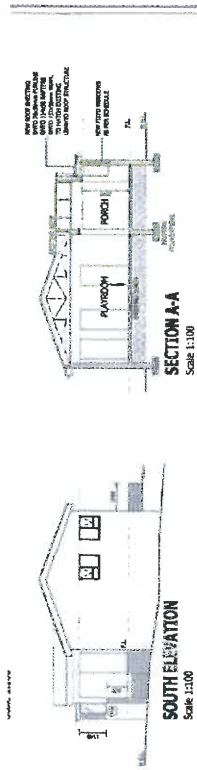
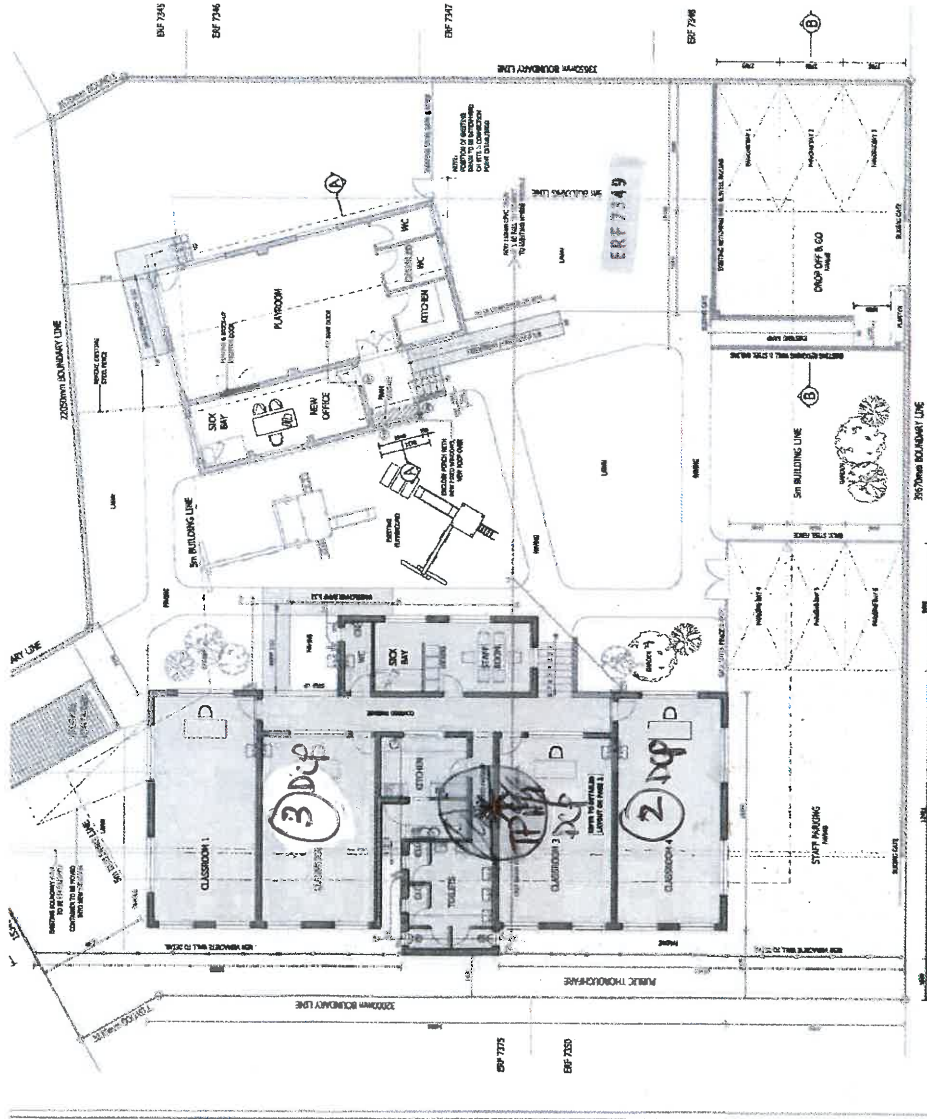
12 of 12

Position :

Technical Signatory  
Saul de Vlam



CLC (N) MAND



Area Calculations

| Item     | Area (sq. ft.) | Area (sq. m.) |
|----------|----------------|---------------|
| 1. PORCH | 144.00         | 13.30         |
| 2. PLAZA | 144.00         | 13.30         |
| 3. TOTAL | 288.00         | 26.60         |

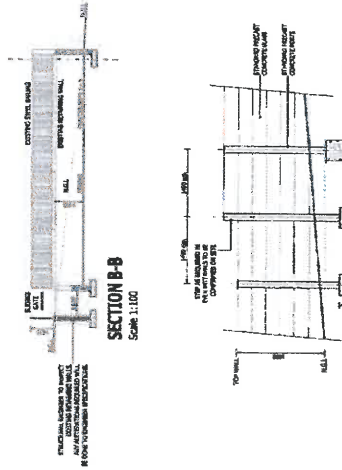
See to information on Page 1

**WINDOW SCHEDULE :** ALL GLASSING PANELS UNLIMITED SAFETY GLASS

| Item        | Description | Area (sq. ft.) | Area (sq. m.) |
|-------------|-------------|----------------|---------------|
| 1. WINDOW   | 1.00        | 1.00           | 0.09          |
| 2. WINDOW   | 2.00        | 2.00           | 0.18          |
| 3. WINDOW   | 3.00        | 3.00           | 0.28          |
| 4. WINDOW   | 4.00        | 4.00           | 0.37          |
| 5. WINDOW   | 5.00        | 5.00           | 0.46          |
| 6. WINDOW   | 6.00        | 6.00           | 0.56          |
| 7. WINDOW   | 7.00        | 7.00           | 0.65          |
| 8. WINDOW   | 8.00        | 8.00           | 0.74          |
| 9. WINDOW   | 9.00        | 9.00           | 0.83          |
| 10. WINDOW  | 10.00       | 10.00          | 0.93          |
| 11. WINDOW  | 11.00       | 11.00          | 1.02          |
| 12. WINDOW  | 12.00       | 12.00          | 1.11          |
| 13. WINDOW  | 13.00       | 13.00          | 1.20          |
| 14. WINDOW  | 14.00       | 14.00          | 1.29          |
| 15. WINDOW  | 15.00       | 15.00          | 1.38          |
| 16. WINDOW  | 16.00       | 16.00          | 1.47          |
| 17. WINDOW  | 17.00       | 17.00          | 1.56          |
| 18. WINDOW  | 18.00       | 18.00          | 1.65          |
| 19. WINDOW  | 19.00       | 19.00          | 1.74          |
| 20. WINDOW  | 20.00       | 20.00          | 1.83          |
| 21. WINDOW  | 21.00       | 21.00          | 1.92          |
| 22. WINDOW  | 22.00       | 22.00          | 2.01          |
| 23. WINDOW  | 23.00       | 23.00          | 2.10          |
| 24. WINDOW  | 24.00       | 24.00          | 2.19          |
| 25. WINDOW  | 25.00       | 25.00          | 2.28          |
| 26. WINDOW  | 26.00       | 26.00          | 2.37          |
| 27. WINDOW  | 27.00       | 27.00          | 2.46          |
| 28. WINDOW  | 28.00       | 28.00          | 2.55          |
| 29. WINDOW  | 29.00       | 29.00          | 2.64          |
| 30. WINDOW  | 30.00       | 30.00          | 2.73          |
| 31. WINDOW  | 31.00       | 31.00          | 2.82          |
| 32. WINDOW  | 32.00       | 32.00          | 2.91          |
| 33. WINDOW  | 33.00       | 33.00          | 3.00          |
| 34. WINDOW  | 34.00       | 34.00          | 3.09          |
| 35. WINDOW  | 35.00       | 35.00          | 3.18          |
| 36. WINDOW  | 36.00       | 36.00          | 3.27          |
| 37. WINDOW  | 37.00       | 37.00          | 3.36          |
| 38. WINDOW  | 38.00       | 38.00          | 3.45          |
| 39. WINDOW  | 39.00       | 39.00          | 3.54          |
| 40. WINDOW  | 40.00       | 40.00          | 3.63          |
| 41. WINDOW  | 41.00       | 41.00          | 3.72          |
| 42. WINDOW  | 42.00       | 42.00          | 3.81          |
| 43. WINDOW  | 43.00       | 43.00          | 3.90          |
| 44. WINDOW  | 44.00       | 44.00          | 3.99          |
| 45. WINDOW  | 45.00       | 45.00          | 4.08          |
| 46. WINDOW  | 46.00       | 46.00          | 4.17          |
| 47. WINDOW  | 47.00       | 47.00          | 4.26          |
| 48. WINDOW  | 48.00       | 48.00          | 4.35          |
| 49. WINDOW  | 49.00       | 49.00          | 4.44          |
| 50. WINDOW  | 50.00       | 50.00          | 4.53          |
| 51. WINDOW  | 51.00       | 51.00          | 4.62          |
| 52. WINDOW  | 52.00       | 52.00          | 4.71          |
| 53. WINDOW  | 53.00       | 53.00          | 4.80          |
| 54. WINDOW  | 54.00       | 54.00          | 4.89          |
| 55. WINDOW  | 55.00       | 55.00          | 4.98          |
| 56. WINDOW  | 56.00       | 56.00          | 5.07          |
| 57. WINDOW  | 57.00       | 57.00          | 5.16          |
| 58. WINDOW  | 58.00       | 58.00          | 5.25          |
| 59. WINDOW  | 59.00       | 59.00          | 5.34          |
| 60. WINDOW  | 60.00       | 60.00          | 5.43          |
| 61. WINDOW  | 61.00       | 61.00          | 5.52          |
| 62. WINDOW  | 62.00       | 62.00          | 5.61          |
| 63. WINDOW  | 63.00       | 63.00          | 5.70          |
| 64. WINDOW  | 64.00       | 64.00          | 5.79          |
| 65. WINDOW  | 65.00       | 65.00          | 5.88          |
| 66. WINDOW  | 66.00       | 66.00          | 5.97          |
| 67. WINDOW  | 67.00       | 67.00          | 6.06          |
| 68. WINDOW  | 68.00       | 68.00          | 6.15          |
| 69. WINDOW  | 69.00       | 69.00          | 6.24          |
| 70. WINDOW  | 70.00       | 70.00          | 6.33          |
| 71. WINDOW  | 71.00       | 71.00          | 6.42          |
| 72. WINDOW  | 72.00       | 72.00          | 6.51          |
| 73. WINDOW  | 73.00       | 73.00          | 6.60          |
| 74. WINDOW  | 74.00       | 74.00          | 6.69          |
| 75. WINDOW  | 75.00       | 75.00          | 6.78          |
| 76. WINDOW  | 76.00       | 76.00          | 6.87          |
| 77. WINDOW  | 77.00       | 77.00          | 6.96          |
| 78. WINDOW  | 78.00       | 78.00          | 7.05          |
| 79. WINDOW  | 79.00       | 79.00          | 7.14          |
| 80. WINDOW  | 80.00       | 80.00          | 7.23          |
| 81. WINDOW  | 81.00       | 81.00          | 7.32          |
| 82. WINDOW  | 82.00       | 82.00          | 7.41          |
| 83. WINDOW  | 83.00       | 83.00          | 7.50          |
| 84. WINDOW  | 84.00       | 84.00          | 7.59          |
| 85. WINDOW  | 85.00       | 85.00          | 7.68          |
| 86. WINDOW  | 86.00       | 86.00          | 7.77          |
| 87. WINDOW  | 87.00       | 87.00          | 7.86          |
| 88. WINDOW  | 88.00       | 88.00          | 7.95          |
| 89. WINDOW  | 89.00       | 89.00          | 8.04          |
| 90. WINDOW  | 90.00       | 90.00          | 8.13          |
| 91. WINDOW  | 91.00       | 91.00          | 8.22          |
| 92. WINDOW  | 92.00       | 92.00          | 8.31          |
| 93. WINDOW  | 93.00       | 93.00          | 8.40          |
| 94. WINDOW  | 94.00       | 94.00          | 8.49          |
| 95. WINDOW  | 95.00       | 95.00          | 8.58          |
| 96. WINDOW  | 96.00       | 96.00          | 8.67          |
| 97. WINDOW  | 97.00       | 97.00          | 8.76          |
| 98. WINDOW  | 98.00       | 98.00          | 8.85          |
| 99. WINDOW  | 99.00       | 99.00          | 8.94          |
| 100. WINDOW | 100.00      | 100.00         | 9.03          |

**Architectural Office**  
1000 10th Street, Suite 100  
Calgary, Alberta T2C 1A1  
Phone: (403) 243-1111  
Fax: (403) 243-1112  
Email: info@architecturaloffice.ca  
Website: www.architecturaloffice.ca

**Project:** ADDITIONS AT  
BURNHAMME DAY CARE  
1000 10th Street, Suite 100  
Calgary, Alberta T2C 1A1  
Architect: Architectural Office  
Client: Burnhamme Day Care  
Date: 2014-01-01  
Scale: 1:100  
Sheet: 1 of 1  
OVERSTAND MUNICIPALITY  
COUNCIL SUBMISSION  
SITE PLAN, ELEVATIONS, SECTION & DETAILS



CLC (N) MAND

LEGEND:  
PROPOSED TEST PIT

|                                                                                   |                                                              |                      |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------|
|  | <h1 style="text-align: center;">SOIL PROFILE<br/>REPORT</h1> | Date: 18.04.2019     |
|                                                                                   |                                                              | Job no.: 2019-C-1021 |



|                |                                      |
|----------------|--------------------------------------|
| PROJECT:       | WEC: Erf 2044 Slovo Street, Gansbaai |
| PIT / HOLE No: | Tp 1                                 |
| SAMPLED BY:    | Louis Faro                           |

| Soil Legend                                                                         | Depth (mm) | DESCRIPTION                                                |
|-------------------------------------------------------------------------------------|------------|------------------------------------------------------------|
|  | 0-1000     | Dry, loose, light grey sand with pebbles. Intact. Residual |

.R.77

  
 Technical Signatory – S de Vlam

**Client** : Western and Eastern Cape Consulting Engi  
**Address** : P O Box 6353  
: Uniedal  
: 7612

**Client Reference** :  
**Order No.** : SC1690/16

**Attention** :  
**Facsimile** : 021 882 8207  
**E-mail** : cindy@wec-consult.co.za; jan@wec-consult.c

**Date Received** : 23/04/2019  
**Date Tested** : 23/04/2019 - 06/05/2019  
**Date Reported** : 07/05/2019

**Project** : Implementation of Early Childhood Centres: Bambanani, Masakhane & Eluxolweni  
**Project No.** : 2019-C-1021

**Report Status** : Final Report  
**Page** : 1 of 3

Herewith please find the test report(s) pertaining to the above project. All tests were conducted in accordance with prescribed test method(s). Information herein consists of the following:

| Test(s) conducted / Item(s) measured | Qty.  | Test Method(s) | Authorized By** | Page(s) |
|--------------------------------------|-------|----------------|-----------------|---------|
| Atterberg Limits <0.425mm            | 1.000 | SANS 3001-GR10 | S de Vlam       | 2-3     |
| Sieve Analysis 0.075mm               | 1.000 | SANS 3001-GR1  | S de Vlam       | 2-3     |
| California Bearing Ratio (CBR)       | 1.000 | SANS 3001-GR40 | S de Vlam       | 3       |
| Hydrometer Analysis                  | 1.000 | ASTM D422      | S de Vlam       | 2       |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |
|                                      |       |                |                 |         |

Any test results contained in this report and marked with \* in the table above are "not SANAS accredited" and are not included in the schedule of accreditation for this laboratory.

Any information contained in this test report pertain only to the areas and/or samples tested. Documents may only be reproduced or published in their full context.

All interpretations, Interpolations, Opinions and/or Classifications contained in this report falls outside our scope of accreditation.

The following parameters, where applicable, were excluded from the classification procedure: Chemical modifications, Additional fines, Fractured Faces, Soluble Salts, pH, Conductivity, Coarse Sand Ratio, Durability (COLTO: G4-G9).

The following parameters, where applicable, were assumed: Rock types were assumed to be of an Arenaceous nature with Siliceous cementing material.

Unless otherwise requested or stated, all samples will be discarded after a period of 3 months.

Deviations in Test Methods:

\*\*All results are authorized by technical signatories.

Technical Signatory.

Client : Western and Eastern Cape Consulting Engineers ■ PO Box 873, Kimberley, Northern Cape 23704/2019  
Project : Implementation of Early Childhood Centres: Bambanani, Masakhane & Eluxolweni ■ Date Reported: 07/05/2019  
Project No : 2019-C-1021 ■ Page No. : 2 of 3

## FOUNDATION INDICATOR

|                                      |                              |  |
|--------------------------------------|------------------------------|--|
| Laboratory Number                    | 2                            |  |
| Field Number                         | Masakhane, G                 |  |
| Client Reference                     |                              |  |
| Depth (m)                            | 0-1000                       |  |
| Position                             |                              |  |
| Coordinates                          | X<br>Y                       |  |
| Description                          | Light grey sand with pebbles |  |
| Additional Information               |                              |  |
| Calcrete / Crushed Stabilizing Agent |                              |  |

Moisture Content & Relative Density SANS 3001-GR30

|                         |  |  |
|-------------------------|--|--|
| Moisture Content (%)    |  |  |
| Relative Density (S.G.) |  |  |

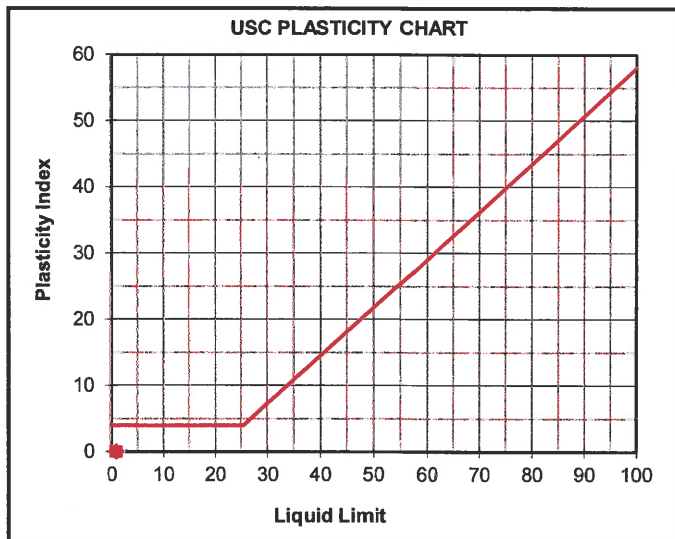
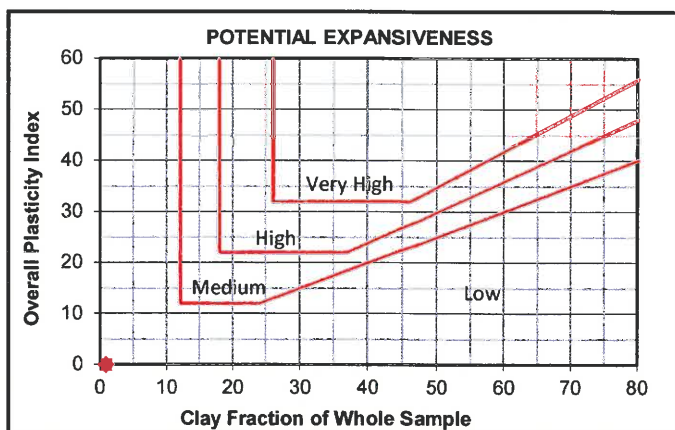
Sieve Analysis (Wet Prep) SANS 3001-GR1

|                    |          |      |  |
|--------------------|----------|------|--|
| Percentage Passing | 100 mm   | 100  |  |
|                    | 75 mm    | 100  |  |
|                    | 63 mm    | 100  |  |
|                    | 50 mm    | 100  |  |
|                    | 37.5 mm  | 100  |  |
|                    | 28 mm    | 100  |  |
|                    | 20 mm    | 100  |  |
|                    | 14 mm    | 100  |  |
|                    | 5 mm     | 100  |  |
|                    | 2 mm     | 100  |  |
|                    |          | 100  |  |
|                    | 0.425 mm | 64   |  |
|                    | 0.250 mm | 23   |  |
| 0.150 mm           | 4        |      |  |
| 0.075 mm           | 2        |      |  |
| Grading Modulus    |          | 1.34 |  |

Hydrometer Analysis ASTM D422

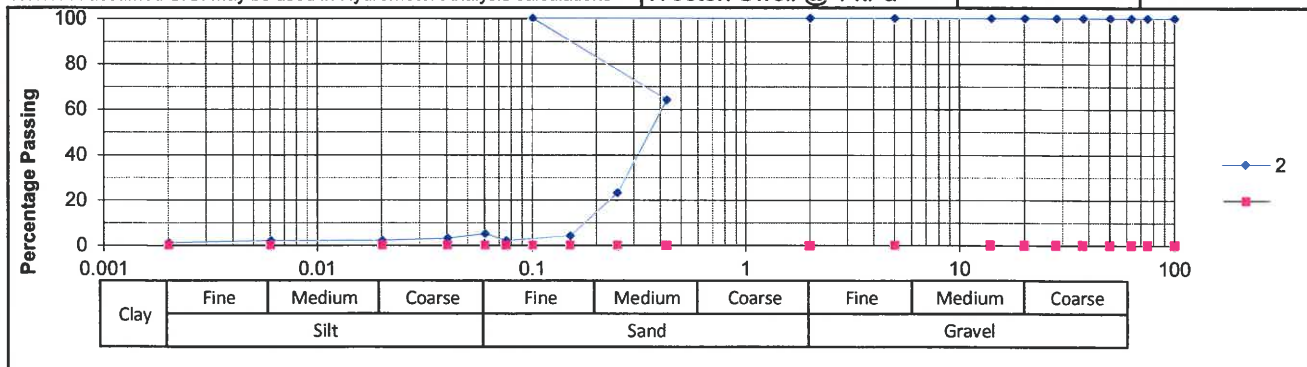
|                    |          |    |  |
|--------------------|----------|----|--|
| Percentage Passing | 0.060 mm | 5  |  |
|                    | 0.040 mm | 3  |  |
|                    | 0.020 mm | 2  |  |
|                    | 0.006 mm | 2  |  |
|                    | 0.002 mm | 1  |  |
| Gravel             | %        |    |  |
| Sand               | %        | 95 |  |
| Silt               | %        | 4  |  |
| Clay               | %        | 1  |  |

Note: An assumed S.G. may be used in Hydrometer Analysis calculations



|                        |   |    |
|------------------------|---|----|
| Laboratory Number      | 2 |    |
| Atterberg Limits -425µ |   |    |
| Liquid Limit           | % |    |
| Plasticity Index       | % | NP |
| Linear Shrinkage       | % |    |
| Overall PI             | % |    |

|                      |        |
|----------------------|--------|
| Classifications      |        |
| HRB (AASHTO)         | A-3(0) |
| Unified (ASTM D2487) | SP     |
| Weston Swell @ 1 kPa |        |





Client : Western and Eastern Cape Consulting Engi  
 Project : Implementation of Early Childhood Centres: Bambanani, N  
 Project No. : 2019-C-1021

Date Received : 23/04/2019  
 Date Reported : 07/05/2019  
 Page No. : 3 of 3

## CALIFORNIA BEARING RATIO (CBR) & ROAD INDICATOR REPORT

|                        |                              |
|------------------------|------------------------------|
| Laboratory No.         | 2                            |
| Field Number           | 2044, Masakhane, Gansbaai    |
| Client Reference       |                              |
| Depth (m)              | 0-1000                       |
| Position               |                              |
| Coordinates            | X<br>Y                       |
| Description            | Light grey sand with pebbles |
| Additional information |                              |
| Calcrete/Crushed       |                              |
| Stabilizing Agent      |                              |

### Sieve Analysis (Wet preparation) SANS 3001-GR1

|                    |          |     |
|--------------------|----------|-----|
| Percentage Passing | 100 mm   | 100 |
|                    | 75 mm    | 100 |
|                    | 63 mm    | 100 |
|                    | 50 mm    | 100 |
|                    | 37.5 mm  | 100 |
|                    | 28 mm    | 100 |
|                    | 20 mm    | 100 |
|                    | 14 mm    | 100 |
|                    | 5 mm     | 100 |
|                    | 2 mm     | 100 |
|                    | 0.425 mm | 64  |
|                    | 0.250 mm | 23  |
|                    | 0.150 mm | 4   |
|                    | 0.075 mm | 2   |
| Grading Modulus    |          | 1.3 |

### Soil Mortar Analysis

|                  |    |
|------------------|----|
| Coarse Sand      | 36 |
| Coarse Fine Sand | 41 |
| Medium Fine Sand | 19 |
| Fine Fine Sand   | 3  |
| Silt and Clay    | 2  |

### Atterberg Limits SANS 3001-GR10

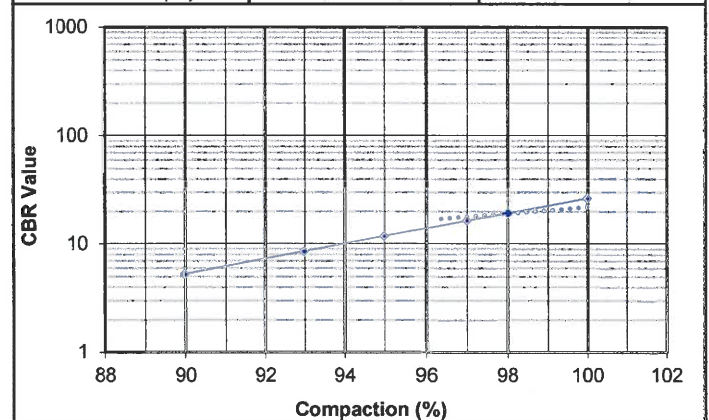
|                      |    |
|----------------------|----|
| Liquid Limit (%)     |    |
| Plasticity Index (%) | NP |
| Linear Shrinkage (%) |    |

|                                                |                   |                |  |
|------------------------------------------------|-------------------|----------------|--|
| Laboratory No.                                 | 2                 |                |  |
| Maximum Dry Density & Optimum Moisture Content |                   | SANS 3001-GR30 |  |
| MDD                                            | kg/m <sup>3</sup> | 1664           |  |
| OMC                                            | %                 | 14.5           |  |

### California Bearing Ratio SANS 3001-GR40

|             |                   |                 |
|-------------|-------------------|-----------------|
| Moisture    | %                 | 14.5            |
| Dry Density | kg/m <sup>3</sup> | 1657 1595 1515  |
| Compaction  | %                 | 100.0 96.3 91.4 |

|                    |         | Penetration Data |      |      |  |  |  |
|--------------------|---------|------------------|------|------|--|--|--|
| CBR at             | 2.50 mm | 22               | 17   | 7    |  |  |  |
|                    | 5.00 mm | 33               | 20   | 9    |  |  |  |
|                    | 7.50 mm | 32               | 19   | 10   |  |  |  |
| Swell              | %       | 0                | 0    | 0    |  |  |  |
| Final Moisture (%) |         | 21.0             | 23.8 | 30.2 |  |  |  |

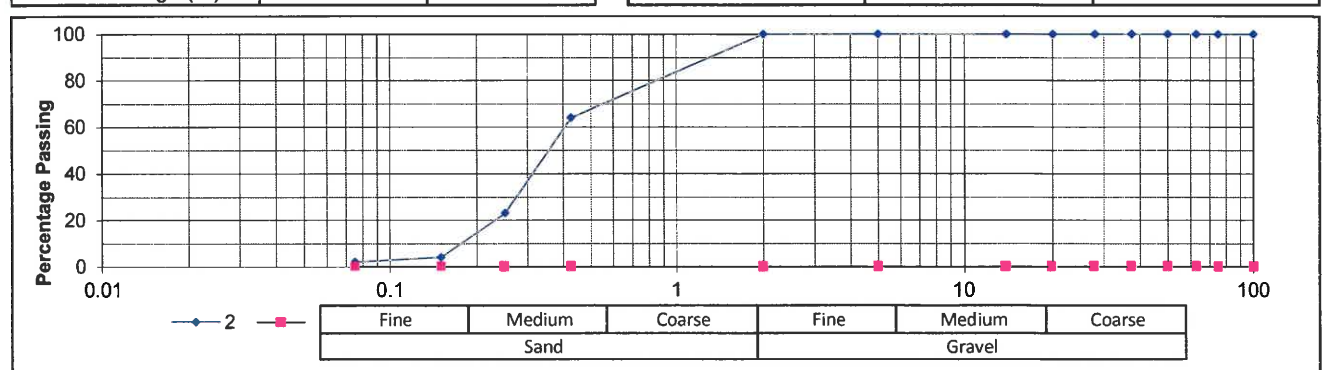


### Interpolated CBR Data

|                     |    |
|---------------------|----|
| @ 100%              | 26 |
| @ 98%               | 19 |
| @ 97%               | 16 |
| @ 95%               | 12 |
| @ 93%               | 9  |
| @ 90%               | 5  |
| @ SANS3001 Midpoint | 20 |

### Classifications

|              |        |
|--------------|--------|
| HRB (AASHTO) | A-3(0) |
| COLTO        | G9     |
| TRH14        | G10    |



CUSTOMER : WEC Consult

Po Box 6353

Uniedal

7612

ATTENTION : Jan Swanepoel

PROJECT : Erf 2044, Masakhane Gansbaai

CO-ORDINATES :

SAMPLE No : 1

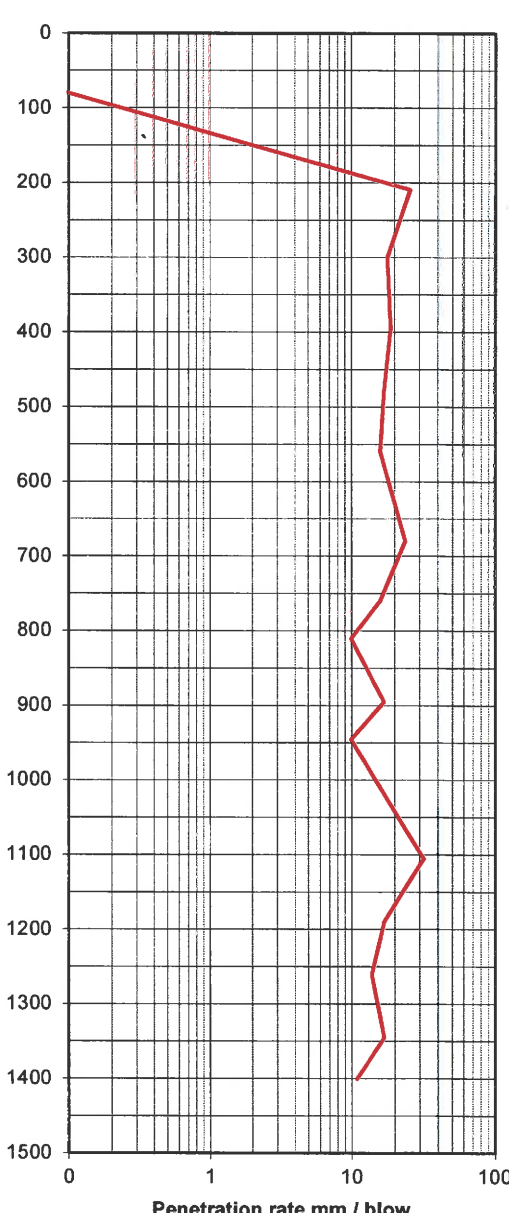
REF : 2019-C-1021

DATE : 18.04.2019

## DYNAMIC CONE PENETROMETER DATA REPORT

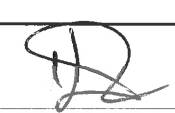
METHOD ST6 ; TMH6

| STAKE VALUE. : |                      |                       |                      |  | REMARKS : Test terminated |                      |                       |                      |  |
|----------------|----------------------|-----------------------|----------------------|--|---------------------------|----------------------|-----------------------|----------------------|--|
| SECTION :      |                      |                       |                      |  | STARTING DEPTH: 80        |                      |                       |                      |  |
| Depth (mm)     | Cumulative No. Blows | Penetration Rate (mm) | Estimated Insitu CBR |  | Depth (mm)                | Cumulative No. Blows | Penetration Rate (mm) | Estimated Insitu CBR |  |
| 80             |                      |                       |                      |  |                           |                      |                       |                      |  |
| 210            | 5                    | 26.0                  | 7                    |  |                           |                      |                       |                      |  |
| 300            | 10                   | 18.0                  | 11                   |  |                           |                      |                       |                      |  |
| 395            | 15                   | 19.0                  | 10                   |  |                           |                      |                       |                      |  |
| 480            | 20                   | 17.0                  | 12                   |  |                           |                      |                       |                      |  |
| 560            | 25                   | 16.0                  | 13                   |  |                           |                      |                       |                      |  |
| 680            | 30                   | 24.0                  | 8                    |  |                           |                      |                       |                      |  |
| 760            | 35                   | 16.0                  | 13                   |  |                           |                      |                       |                      |  |
| 810            | 40                   | 10.0                  | 22                   |  |                           |                      |                       |                      |  |
| 895            | 45                   | 17.0                  | 12                   |  |                           |                      |                       |                      |  |
| 945            | 50                   | 10.0                  | 22                   |  |                           |                      |                       |                      |  |
| 1105           | 55                   | 32.0                  | 5                    |  |                           |                      |                       |                      |  |
| 1190           | 60                   | 17.0                  | 12                   |  |                           |                      |                       |                      |  |
| 1260           | 65                   | 14.0                  | 15                   |  |                           |                      |                       |                      |  |
| 1345           | 70                   | 17.0                  | 12                   |  |                           |                      |                       |                      |  |
| 1400           | 75                   | 11.0                  | 20                   |  |                           |                      |                       |                      |  |



Remarks:

Revision 2  
Labco SF 164  
02.12.2008

Name : 

12 of 12 Position : Technical Signatory  
Saul de Vlam

**CUSTOMER :** WEC Consult

Po Box 6353

Uniedal

7612

**ATTENTION :** Jan Swanepoel

**PROJECT :** Erf 2044, Masakhane Gansbaai

**CO-ORDINATES :**

**SAMPLE No : 2**

**REF : 2019-C-1021**

**DATE : 18.04.2019**

# DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

[illegible]**Remarks:**

Revision 2  
Labco SF 164  
02.12.2008

**Name :**

**Position :**

Technical Signatory  
Saul de Vlam

**CUSTOMER:** WEC Consult

Po Box 6353

Uniedal

7612

**ATTENTION :** Jan Swanepoel

**PROJECT :** Erf 2044, Masakhane Gansbaai

**CO-ORDINATES :**

**SAMPLE No : 3**

**REF : 2019-C-1021**

**DATE : 18.04.2019**

# DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

[illegible]Remarks:

Revision 2  
Labco SF 164  
02.12.2008

**Name :**

**Position :**

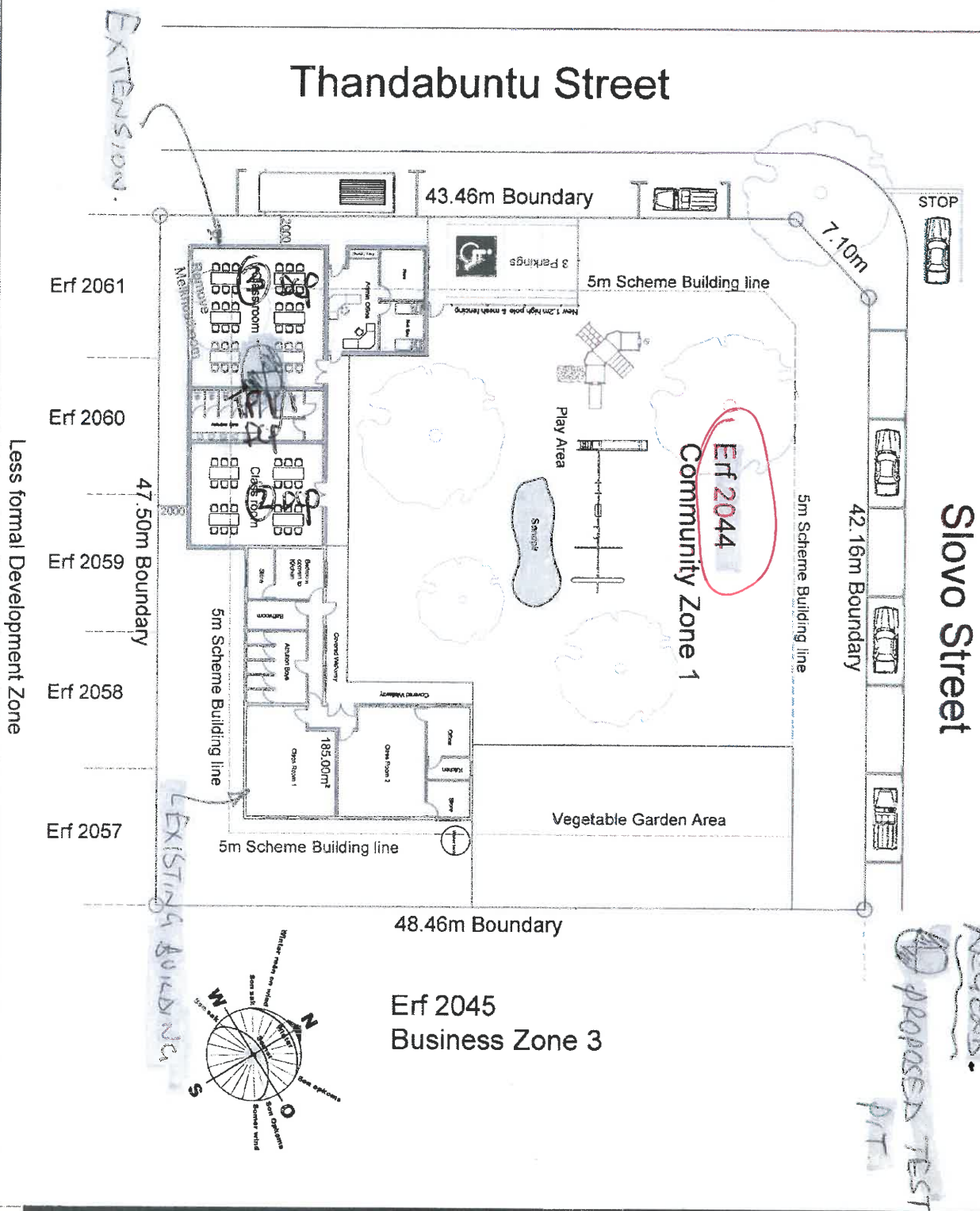
## Technical Signatory

Saul de Vlam



GANSBAAI

Without unlawfully using information that building, architects are merely space planners. Space planning with decoration applied to dress it up is not architecture. Architecture resides in the DNA of a building, in an embedded sensibility that refuses its whole - Frederick, 2007:14



LEGEND:  
PROPOSED TEST  
PIT

|                                                                                                                                                                                        |               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Gercke Argitektoniese Dienste<br>Johan Gercke<br>Pr Act/Diagn (102869)<br>Pashua 382, Gansbaai, 7203<br>Tel/Fax: 028 384 1659 Sd 082 453 8554<br>gnd@gercke.co.za<br>Ld van SAT S07023 |               |
| Beskrywing:<br>Proposed Additions to existing<br>Creche on erf 2044,<br>Thandabuntu Street, Middelburg,<br>Overstrand Municipality.                                                    |               |
| Plan nagaan deur:<br>J.S. Gercke                                                                                                                                                       | Datum:        |
| Ook op te sien SANS 10400:<br>A3, G1, J3                                                                                                                                               |               |
| Drawing:                                                                                                                                                                               | Site Plan     |
| Purpose:                                                                                                                                                                               | 01/BJ/C/18    |
| Project #:                                                                                                                                                                             | A3            |
| Scale:                                                                                                                                                                                 | 1:250         |
| Page:                                                                                                                                                                                  | 1             |
| Date:                                                                                                                                                                                  | 28 Maart 2019 |

|                                                                                   |                                                              |                             |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------|
|  | <h1 style="text-align: center;">SOIL PROFILE<br/>REPORT</h1> | <b>Date:</b> 18.04.2019     |
|                                                                                   |                                                              | <b>Job no.:</b> 2019-C-1021 |



|                       |                                      |
|-----------------------|--------------------------------------|
| <b>PROJECT:</b>       | WEC: Erf 1969 Eluxoweni Pearly Beach |
| <b>PIT / HOLE No:</b> | Tp 1                                 |
| <b>SAMPLED BY:</b>    | Louis Faro                           |

| Soil Legend                                                                         | Depth (mm) | DESCRIPTION                                                                                  |
|-------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------|
|                                                                                     | 0-50       | Dark grey, very loose, grass + soil. Intact. Residual                                        |
|  | 50-500     | Dry, dark grey, loose, sand. Intact. Residual                                                |
|  | 500-1000   | Slightly moist, medium dense, light yellowish clay with calcrete & pebbles. Intact. Residual |

.R.77

  
 Technical Signatory – S de Vlam

**Client** : Western and Eastern Cape Consulting Engi  
**Address** : P O Box 6353  
: Uniedal  
: 7612

**Client Reference :**  
**Order No. :** SC1690/16

**Attention** :  
**Facsimile** : 021 882 8207  
**E-mail** : cindy@wec-consult.co.za; jan@wec-consult.co.za

**Date Received** : 23/04/2019  
**Date Tested** : 23/04/2019 - 06/05/2019  
**Date Reported** : 06/05/2019

**Project** : Implementation of Early Childhood Centres: Bambanani, Masakhane & Eluxolweni  
**Project No.** : 2019-C-1021 **Report Status** : Final Report

**Report Status** : Final Report  
**Page** : 1 of 3

Herewith please find the test report(s) pertaining to the above project. All tests were conducted in accordance with prescribed test method(s). Information herein consists of the following:

[illegible]

Any test results contained in this report and marked with \* in the table above are "not SANAS accredited" and are not included in the schedule of accreditation for this laboratory.

Any information contained in this test report pertain only to the areas and/or samples tested. Documents may only be reproduced or published in their full context.

All interpretations, Interpolations, Opinions and/or Classifications contained in this report falls outside our scope of accreditation.

The following parameters, where applicable, were excluded from the classification procedure: Chemical modifications, Additional fines, Fractured Faces, Soluble Salts, pH, Conductivity, Coarse Sand Ratio, Durability (COLTO: G4-G9).

The following parameters, where applicable, were assumed: Rock types were assumed to be of an Arenaceous nature with Siliceous cementing material.

Unless otherwise requested or stated, all samples will be discarded after a period of 3 months.

### Deviations in Test Methods:

**\*\*All results are authorized by technical signatories.**



### Technical Signatory.

Client : Western and Eastern Cape Consulting Engineers  
Project : Implementation of Early Childhood Centres: Bambanani, Masakhane & Eluxolweni  
Project No : 2019-C-1021  
Date Reported: 06/05/2019  
Page No. : 2 of 3

## FOUNDATION INDICATOR

|                                      |                               |
|--------------------------------------|-------------------------------|
| Laboratory Number                    | 3                             |
| Field Number                         | Eluxolweni, Pear              |
| Client Reference                     |                               |
| Depth (m)                            | 500-1000                      |
| Position                             |                               |
| Coordinates                          | X<br>Y                        |
| Description                          | Light yellowish clacrete clay |
| Additional Information               |                               |
| Calcrete / Crushed Stabilizing Agent |                               |

Moisture Content & Relative Density SANS 3001-GR30

|                         |  |
|-------------------------|--|
| Moisture Content (%)    |  |
| Relative Density (S.G.) |  |

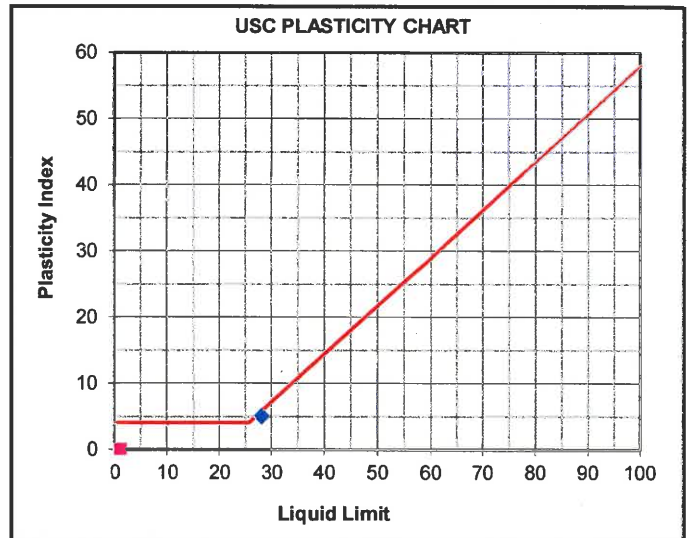
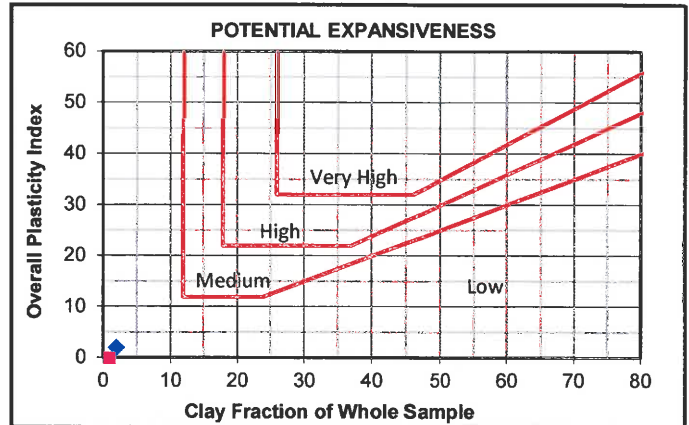
Sieve Analysis (Wet Prep) SANS 3001-GR1

|                    |          |      |  |
|--------------------|----------|------|--|
| Percentage Passing | 100 mm   | 100  |  |
|                    | 75 mm    | 100  |  |
|                    | 63 mm    | 100  |  |
|                    | 50 mm    | 100  |  |
|                    | 37.5 mm  | 94   |  |
|                    | 28 mm    | 86   |  |
|                    | 20 mm    | 80   |  |
|                    | 14 mm    | 67   |  |
|                    | 5 mm     | 49   |  |
|                    | 2 mm     | 42   |  |
|                    |          | 42   |  |
|                    | 0.425 mm | 34   |  |
|                    | 0.250 mm | 28   |  |
| 0.150 mm           | 17       |      |  |
| 0.075 mm           | 9        |      |  |
| Grading Modulus    |          | 2.15 |  |

Hydrometer Analysis ASTM D422

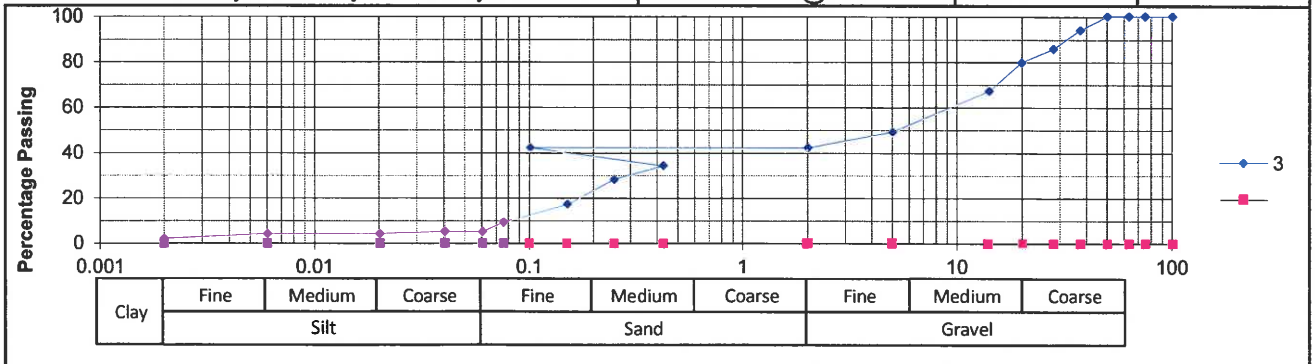
|                    |          |    |
|--------------------|----------|----|
| Percentage Passing | 0.060 mm | 5  |
|                    | 0.040 mm | 5  |
|                    | 0.020 mm | 4  |
|                    | 0.006 mm | 4  |
|                    | 0.002 mm | 2  |
| Gravel             | %        | 58 |
| Sand               | %        | 37 |
| Silt               | %        | 3  |
| Clay               | %        | 2  |

Note: An assumed S.G. may be used in Hydrometer Analysis calculations



|                        |                |
|------------------------|----------------|
| Laboratory Number      | 3              |
| Atterberg Limits -425µ | SANS 3001-GR10 |
| Liquid Limit           | % 28           |
| Plasticity Index       | % 5            |
| Linear Shrinkage       | % 1.0          |
| Overall PI             | % 2            |

|                      |          |
|----------------------|----------|
| Classifications      |          |
| HRB (AASHTO)         | A-1-b(0) |
| Unified (ASTM D2487) | GP-GM    |
| Weston Swell @ 1 kPa |          |





Client : Western and Eastern Cape Consulting Engi Date Received : 23/04/2019  
 Project : Implementation of Early Childhood Centres: Bambanani, Date Reported : 06/05/2019  
 Project No. : 2019-C-1021 Page No. : 3 of 3

## CALIFORNIA BEARING RATIO (CBR) & ROAD INDICATOR REPORT

|                        |                                                  |  |
|------------------------|--------------------------------------------------|--|
| Laboratory No.         | 3                                                |  |
| Field Number           | 1969, Eluxolweni,                                |  |
| Client Reference       | Pearly Beach                                     |  |
| Depth (m)              | 500-1000                                         |  |
| Position               |                                                  |  |
| Coordinates            | X                                                |  |
|                        | Y                                                |  |
| Description            | Light yellowish<br>clacrete clay with<br>pebbles |  |
| Additional information |                                                  |  |
| Calcrete/Crushed       |                                                  |  |
| Stabilizing Agent      |                                                  |  |

### Sieve Analysis (Wet preparation) SANS 3001-GR1

|                    |          |     |
|--------------------|----------|-----|
| Percentage Passing | 100 mm   | 100 |
|                    | 75 mm    | 100 |
|                    | 63 mm    | 100 |
|                    | 50 mm    | 100 |
|                    | 37.5 mm  | 94  |
|                    | 28 mm    | 86  |
|                    | 20 mm    | 80  |
|                    | 14 mm    | 67  |
|                    | 5 mm     | 49  |
|                    | 2 mm     | 42  |
|                    | 0.425 mm | 34  |
|                    | 0.250 mm | 28  |
|                    | 0.150 mm | 17  |
|                    | 0.075 mm | 9   |
| Grading Modulus    | 2.2      |     |

### Soil Mortar Analysis

|                  |    |
|------------------|----|
| Coarse Sand      | 19 |
| Coarse Fine Sand | 14 |
| Medium Fine Sand | 26 |
| Fine Fine Sand   | 21 |
| Silt and Clay    | 20 |

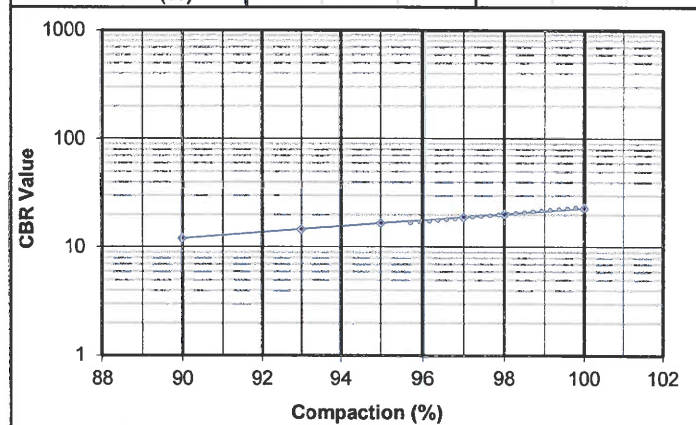
### Atterberg Limits SANS 3001-GR10

|                      |     |
|----------------------|-----|
| Liquid Limit (%)     | 28  |
| Plasticity Index (%) | 5   |
| Linear Shrinkage (%) | 1.0 |

|                                                |                   |                |
|------------------------------------------------|-------------------|----------------|
| Laboratory No.                                 | 3                 |                |
| Maximum Dry Density & Optimum Moisture Content |                   | SANS 3001-GR30 |
| MDD                                            | kg/m <sup>3</sup> | 1630           |
| OMC                                            | %                 | 14.9           |

### California Bearing Ratio SANS 3001-GR40

|                    |                   |       |      |      |
|--------------------|-------------------|-------|------|------|
| Compaction Data    |                   |       |      |      |
| Moisture           | %                 | 15.2  |      |      |
| Dry Density        | kg/m <sup>3</sup> | 1629  | 1559 | 1484 |
| Compaction         | %                 | 100.0 | 95.7 | 91.1 |
| Penetration Data   |                   |       |      |      |
| CBR at             | 2.50 mm           | 24    | 17   | 13   |
|                    | 5.00 mm           | 29    | 27   | 13   |
|                    | 7.50 mm           | 33    | 28   | 12   |
| Swell              | %                 | 0     | 0    | 0    |
| Final Moisture (%) |                   | 20.3  | 21.2 | 21.9 |

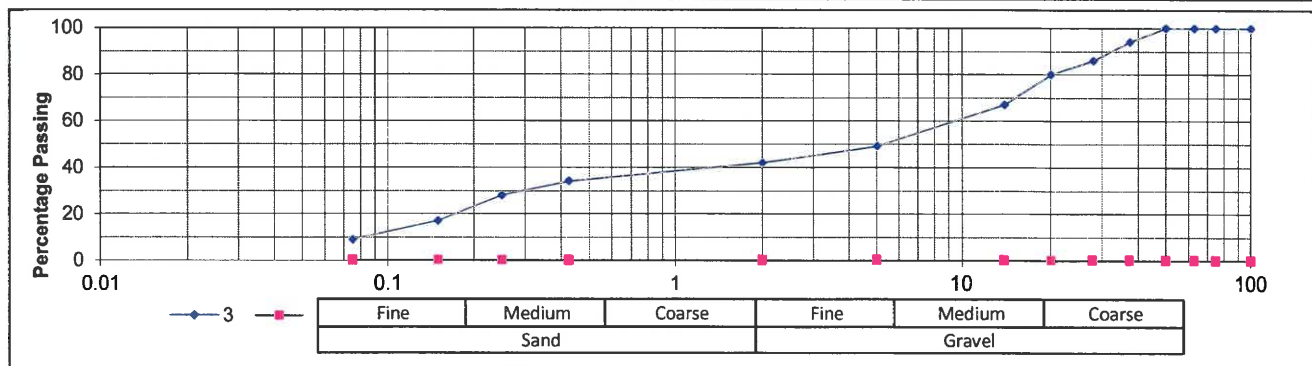


### Interpolated CBR Data

|                     |    |
|---------------------|----|
| @ 100%              | 23 |
| @ 98%               | 20 |
| @ 97%               | 19 |
| @ 95%               | 17 |
| @ 93%               | 15 |
| @ 90%               | 12 |
| @ SANS3001 Midpoint | 20 |

### Classifications

|              |          |
|--------------|----------|
| HRB (AASHTO) | A-1-b(0) |
| COLTO        | G8       |
| TRH14        | G8       |



CUSTOMER : WEC Consult

Po Box 6353

Uniedal

7612

ATTENTION : Jan Swanepoel

PROJECT : Erf 1969, Eluxolweni, Pearly Beach

CO-ORDINATES :

SAMPLE No : 1

REF : 2019-C-1021

DATE : 18.04.2019

## DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

| STAKE VALUE. :  |                         |                            |                         |  | REMARKS :          |                         |                            |                         |  |
|-----------------|-------------------------|----------------------------|-------------------------|--|--------------------|-------------------------|----------------------------|-------------------------|--|
| SECTION :       |                         |                            |                         |  | Refuse @ rock      |                         |                            |                         |  |
|                 |                         |                            |                         |  | STARTING DEPTH: 95 |                         |                            |                         |  |
| Depth<br>( mm ) | Cumulative<br>No. Blows | Penetration<br>Rate ( mm ) | Estimated<br>Insitu CBR |  | Depth<br>( mm )    | Cumulative<br>No. Blows | Penetration<br>Rate ( mm ) | Estimated<br>Insitu CBR |  |
| 95              |                         |                            |                         |  |                    |                         |                            |                         |  |
| 185             | 5                       | 18.0                       | 11                      |  |                    |                         |                            |                         |  |
| 260             | 10                      | 15.0                       | 14                      |  |                    |                         |                            |                         |  |
| 345             | 15                      | 17.0                       | 12                      |  |                    |                         |                            |                         |  |
| 480             | 20                      | 27.0                       | 7                       |  |                    |                         |                            |                         |  |
| 594             | 25                      | 22.8                       | 8                       |  |                    |                         |                            |                         |  |
| 640             | 30                      | 9.2                        | 25                      |  |                    |                         |                            |                         |  |
| 694             | 35                      | 10.8                       | 21                      |  |                    |                         |                            |                         |  |
| 730             | 40                      | 7.2                        | 34                      |  |                    |                         |                            |                         |  |
| 760             | 45                      | 6.0                        | 45                      |  |                    |                         |                            |                         |  |
| 840             | 50                      | 16.0                       | 13                      |  |                    |                         |                            |                         |  |
| 896             | 55                      | 11.2                       | 20                      |  |                    |                         |                            |                         |  |
| 945             | 60                      | 9.8                        | 23                      |  |                    |                         |                            |                         |  |
| 1105            | 65                      | 32.0                       | 5                       |  |                    |                         |                            |                         |  |
| 1120            | 70                      | 3.0                        | 110                     |  |                    |                         |                            |                         |  |
| 1194            | 75                      | 14.8                       | 14                      |  |                    |                         |                            |                         |  |
| 1245            | 80                      | 10.2                       | 22                      |  |                    |                         |                            |                         |  |
| 1260            | 85                      | 3.0                        | 110                     |  |                    |                         |                            |                         |  |
| 1345            | 90                      | 17.0                       | 12                      |  |                    |                         |                            |                         |  |
| 1396            | 95                      | 10.2                       | 22                      |  |                    |                         |                            |                         |  |
| 1440            | 100                     | 8.8                        | 26                      |  |                    |                         |                            |                         |  |

Remarks:

Revision 2  
Labco SF 164  
02.12.2008

Name : 

Position : Technical Signatory  
Saul de Vlam

CUSTOMER : WEC Consult

Po Box 6353

Uniedal

7612

ATTENTION : Jan Swanepoel

PROJECT : Erf 1969, Eluxolweni, Pearly Beach

CO-ORDINATES :

SAMPLE No : 2

REF : 2019-C-1021

DATE : 18.04.2019

## DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

| STAKE VALUE. :  |                         |                            |                         |  | REMARKS :          |                         |                            |                         |  |
|-----------------|-------------------------|----------------------------|-------------------------|--|--------------------|-------------------------|----------------------------|-------------------------|--|
| SECTION :       |                         |                            |                         |  | Refuse @ rock      |                         |                            |                         |  |
|                 |                         |                            |                         |  | STARTING DEPTH: 90 |                         |                            |                         |  |
| Depth<br>( mm ) | Cumulative<br>No. Blows | Penetration<br>Rate ( mm ) | Estimated<br>Insitu CBR |  | Depth<br>( mm )    | Cumulative<br>No. Blows | Penetration<br>Rate ( mm ) | Estimated<br>Insitu CBR |  |
| 90              |                         |                            |                         |  |                    |                         |                            |                         |  |
| 210             | 5                       | 24.0                       | 8                       |  |                    |                         |                            |                         |  |
| 305             | 10                      | 19.0                       | 10                      |  |                    |                         |                            |                         |  |
| 395             | 15                      | 18.0                       | 11                      |  |                    |                         |                            |                         |  |
| 480             | 20                      | 17.0                       | 12                      |  |                    |                         |                            |                         |  |
| 545             | 25                      | 13.0                       | 16                      |  |                    |                         |                            |                         |  |
| 600             | 30                      | 11.0                       | 20                      |  |                    |                         |                            |                         |  |
| 690             | 35                      | 18.0                       | 11                      |  |                    |                         |                            |                         |  |
| 740             | 40                      | 10.0                       | 22                      |  |                    |                         |                            |                         |  |
| 800             | 45                      | 12.0                       | 18                      |  |                    |                         |                            |                         |  |
| 865             | 50                      | 13.0                       | 16                      |  |                    |                         |                            |                         |  |
| 945             | 55                      | 16.0                       | 13                      |  |                    |                         |                            |                         |  |
| 1115            | 60                      | 34.0                       | 5                       |  |                    |                         |                            |                         |  |
| 1200            | 65                      | 17.0                       | 12                      |  |                    |                         |                            |                         |  |
| 1260            | 70                      | 12.0                       | 18                      |  |                    |                         |                            |                         |  |
| 1300            | 75                      | 8.0                        | 30                      |  |                    |                         |                            |                         |  |
| 1394            | 80                      | 18.8                       | 10                      |  |                    |                         |                            |                         |  |
| 1435            | 85                      | 8.2                        | 29                      |  |                    |                         |                            |                         |  |

Remarks:

Revision 2  
Labco SF 164  
02.12.2008

Name : 

12 of 12

Position :

Technical Signatory

Saul de Vlam

**ATTENTION :** Jan Swanepoel

**PROJECT :** Erf 1969, Eluxolweni, Pearly Beach

**CO-ORDINATES :**

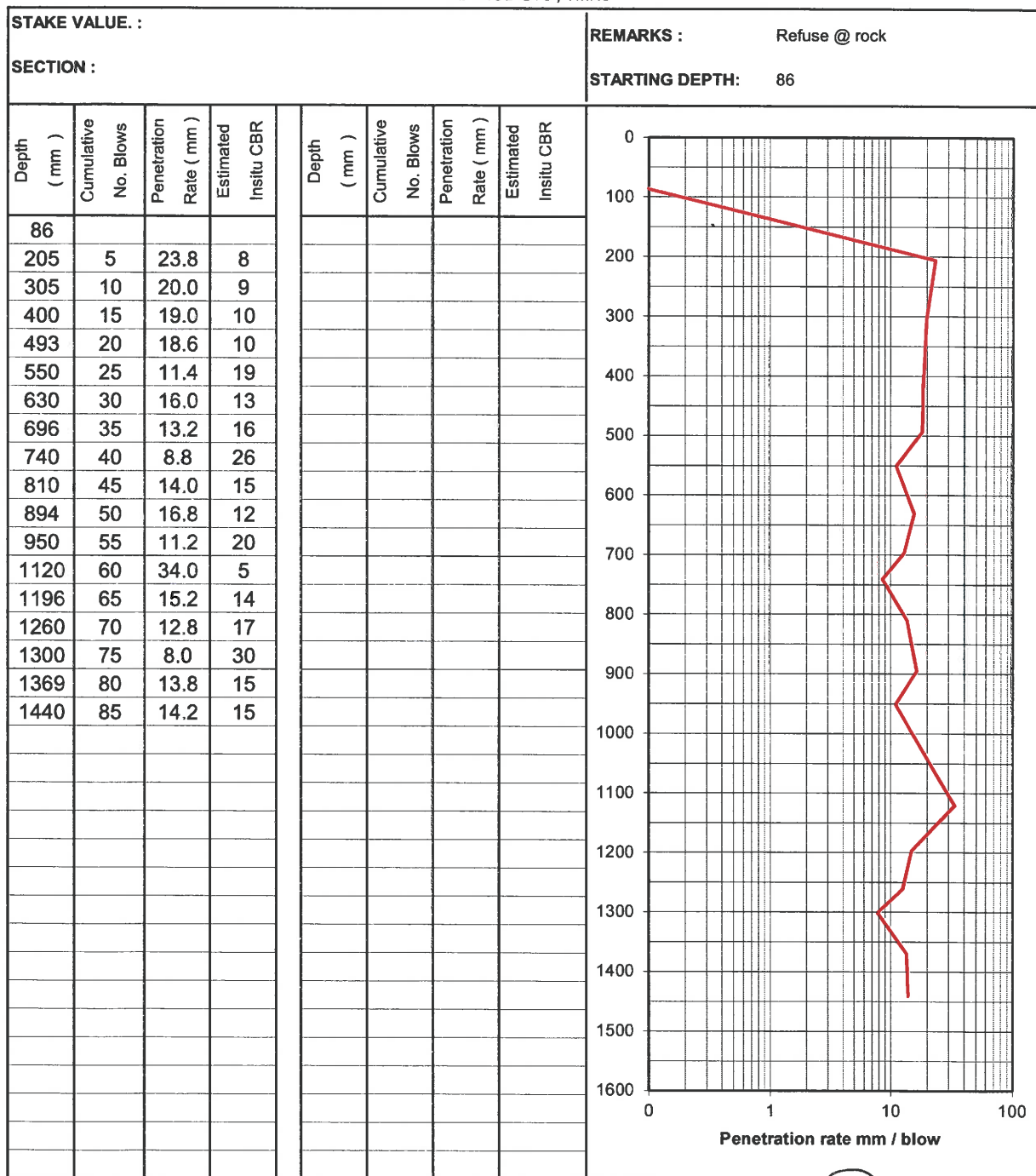
**SAMPLE No : 3**

**REF : 2019-C-1021**

**DATE : 18.04.2019**

# DYNAMIC CONE PENETROMETER DATA REPORT

**METHOD ST6 : TMH6**

Remarks:

Name :

Revision 2  
Labco SF 164  
02.12.2008

**Position :**

Technical Signatory  
Saul de Vlam



PEARLY BEACH

Erf 1973

Public Open Space

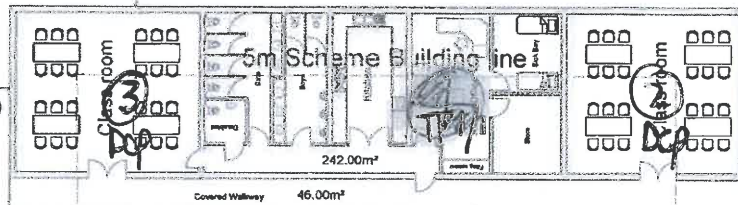
36.00m Boundary

New 1.8m high pole & mesh fencing

2000

Erf 1972  
Business Zone 2

New 1.8m high pole & mesh fencing



New 1.8m high pole & mesh fencing

52.45m Boundary

Oasi Street

New 1.2m high pole & mesh fencing

Erf 1969

Community Zone 1

Erf 1971  
Business Zone 2

57.45m Boundary

5m Scheme Building line

19150

11500

New 1.2m high pole & mesh fencing



4 Parkings

New 1.2m high pole & mesh fencing

Move Existing  
Prefab Class room  
63.00m²

Existing  
Community Hall

5m Scheme Building line

5m Scheme Building line

31.00m Boundary

7.071m

Zola Street

LEGEND:

PROPOSED TEST P.T.T.

Gericke Argitektoniese Dienste  
Johan Gericke  
Pr. Arch. Draught ( D2869 )  
Posbus 392, Gansbaai, 7220  
Tel/Fax: 028 384 1659 Set: 082 453 8054  
gerickeargitekduur@gmail.com  
Lid van SAIT 507023

PROJECT :

Proposed New Creche for  
Overstrand Municipality erf 1969,  
Elsenvoor, Pearly Beach.

Drawn by:  
Johan Gericke

Classification SANS10400:  
A3, G1, J3

Drawing : Site Plan

Purpose :  
Project # : 01/EC/19

Scale : 1:200 A3

Page : 1

Date : 13 March 2018

Copyright

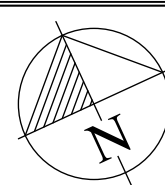
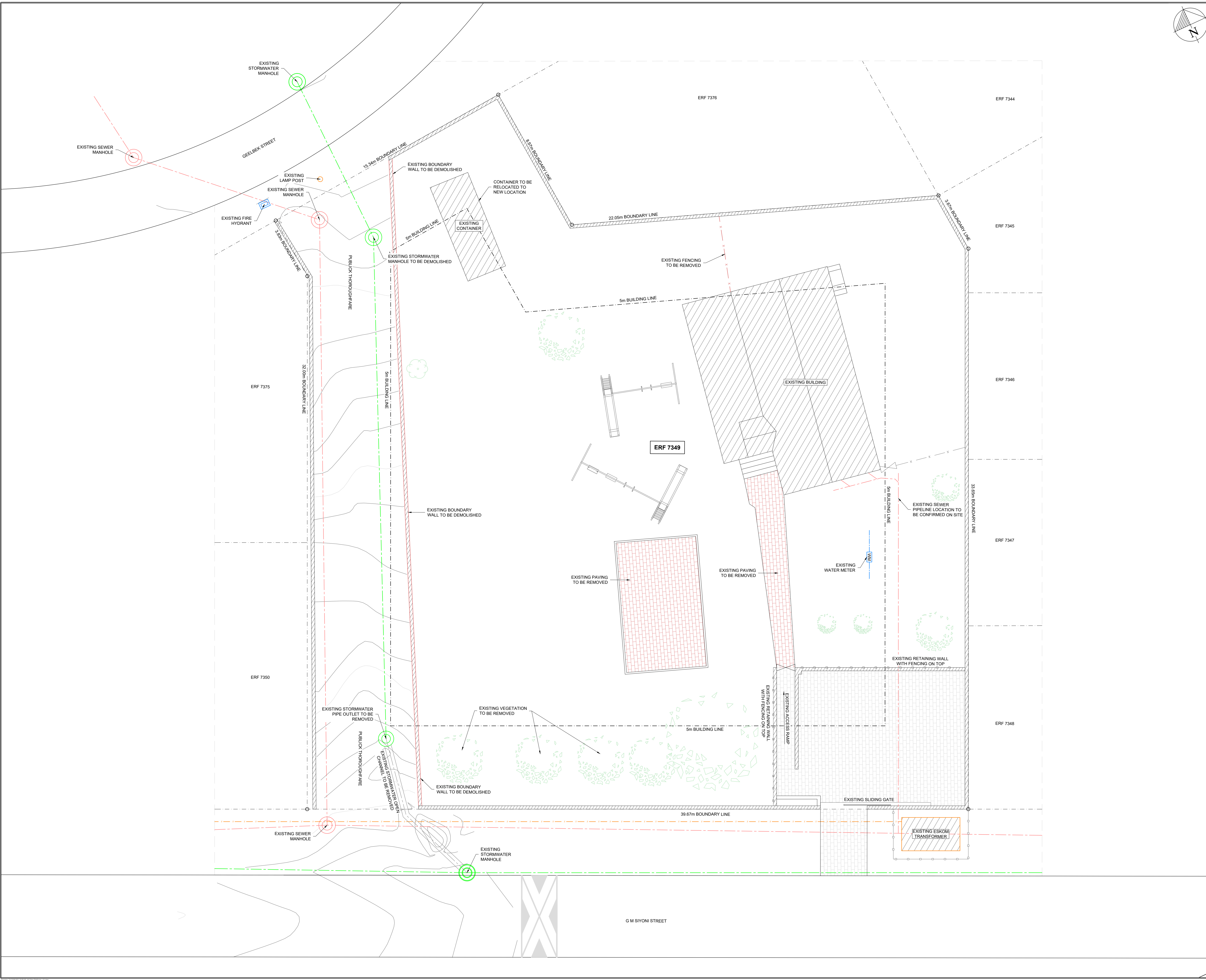
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DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

**CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD**

**APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY  
CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL  
MUNICIPALITY, WESTERN CAPE**

**C8: DRAWINGS**



LEGEND

| SYMBOL | DESCRIPTION                                                                     |
|--------|---------------------------------------------------------------------------------|
|        | EXISTING PROPERTY BOUNDARY LINE AND MARKERS                                     |
|        | 5m BUILDING LINE                                                                |
|        | EXISTING FENCING AND GATE                                                       |
|        | EXISTING SEWER PIPELINE AND MANHOLE                                             |
|        | EXISTING STORMWATER PIPELINE AND MANHOLE                                        |
|        | EXISTING WATER METER                                                            |
|        | EXISTING STRUCTURE                                                              |
|        | EXISTING TREES AND SHRUBS                                                       |
|        | PROPOSED SEWER PIPELINE                                                         |
|        | PROPOSED STORMWATER PIPELINE                                                    |
|        | PROPOSED WATER PIPELINE                                                         |
|        | PROPOSED 1.8m HIGH GALVANISED MESH FENCING WITH GALVANISED STEEL POSTS AND GATE |
|        | PROPOSED BUILDING WALLS                                                         |
|        | PROPOSED PAVING AREA                                                            |
|        | PROPOSED KERBING / EDGE RESTRAINTS                                              |

NOTES

AMENDMENTS

| NO. | DATE | INITIALS | DESCRIPTION |
|-----|------|----------|-------------|
|     |      |          |             |
|     |      |          |             |
|     |      |          |             |
|     |      |          |             |

|          |    |        |
|----------|----|--------|
| REVISION | 00 | PHASE  |
|          |    | TENDER |

CLIENT



PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

EXISTING LAYOUT FOR  
BAMBANANI, KLEINMOND  
(ERF 7349)



UNIT 24, OORVERPARK  
ROSEWOOD ROAD  
STELLENBOSCH  
7600

PO BOX 12861  
DIE BOORD  
7613  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY: WN  
DESIGNED CHECKED: NvM  
DRAWN BY: WN  
DRAWING CHECKED: JB

APPROVED BY

NE Vd MERWE - P/ENG - 20120187

DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

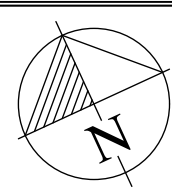
FILE NO.  
23-OVM-003/DRW/TENDER

SCALE  
1:100 (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/SUR101/00





# LEGEND

| SYMBOL | DESCRIPTION                                                                     |
|--------|---------------------------------------------------------------------------------|
|        | EXISTING PROPERTY BOUNDARY LINE AND MARKERS                                     |
|        | 5m BUILDING LINE                                                                |
|        | EXISTING FENCING AND GATE                                                       |
|        | EXISTING SEWER PIPELINE AND MANHOLE                                             |
|        | EXISTING STORMWATER PIPELINE AND MANHOLE                                        |
|        | EXISTING WATER METER                                                            |
|        | EXISTING STRUCTURE                                                              |
|        | EXISTING TREES AND SHRUBS                                                       |
|        | PROPOSED SEWER PIPELINE                                                         |
|        | PROPOSED STORMWATER PIPELINE                                                    |
|        | PROPOSED WATER PIPELINE                                                         |
|        | PROPOSED 1.8m HIGH GALVANISED MESH FENCING WITH GALVANISED STEEL POSTS AND GATE |
|        | PROPOSED BUILDING WALLS                                                         |
|        | PROPOSED PAVING AREA                                                            |
|        | PROPOSED KERBING / EDGE RESTRAINTS                                              |

## NOTES

## AMENDMENTS

| NO. | DATE | INITIALS | DESCRIPTION |
|-----|------|----------|-------------|
|     |      |          |             |
|     |      |          |             |
|     |      |          |             |

REVISION

00

PHASE  
TENDER

## CLIENT



agriculture, land reform  
& rural development  
Department  
Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA

## PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

## DRAWING TITLE

PROPOSED LAYOUT FOR  
BAMBANANI, KLEINMOND  
(ERF 7349)



UNIT 24, OEVERPARK  
ROKWOOD ROAD  
STELLENBOSCH  
7600

PO BOX 12861  
DIE BOORD  
7613  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY WN  
DESIGNED CHECKED NvM

DRAWN BY WN  
DRAWING CHECKED JB

APPROVED BY

NE Vd MERWE - PIENG - 20120187

DATE

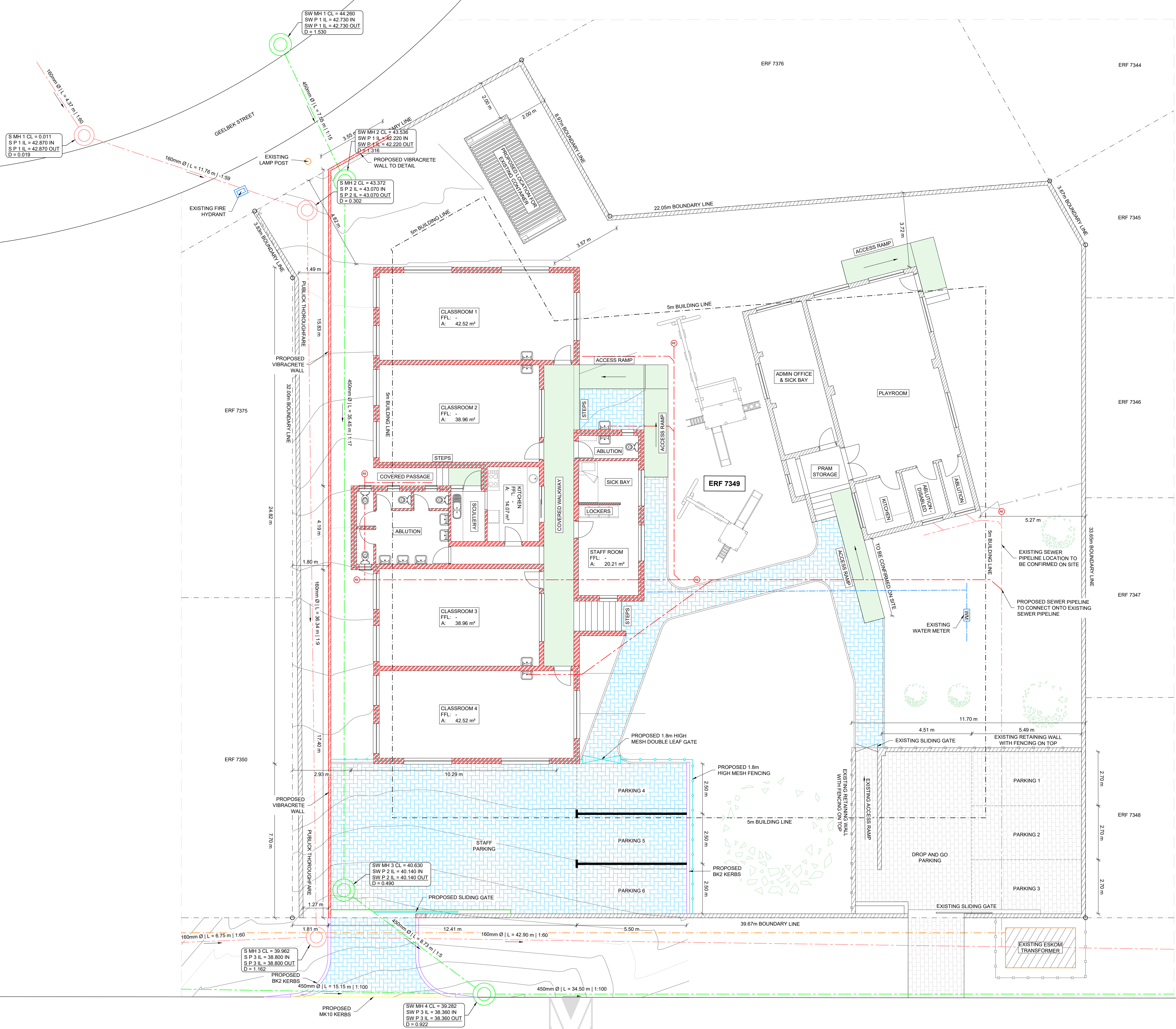
CONTRACT NO.  
SSC WC 1 (2024/2025)

FILE NO.  
23-OVM-003/DRW/TENDER

SCALE  
1:100 (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/SUR102/00

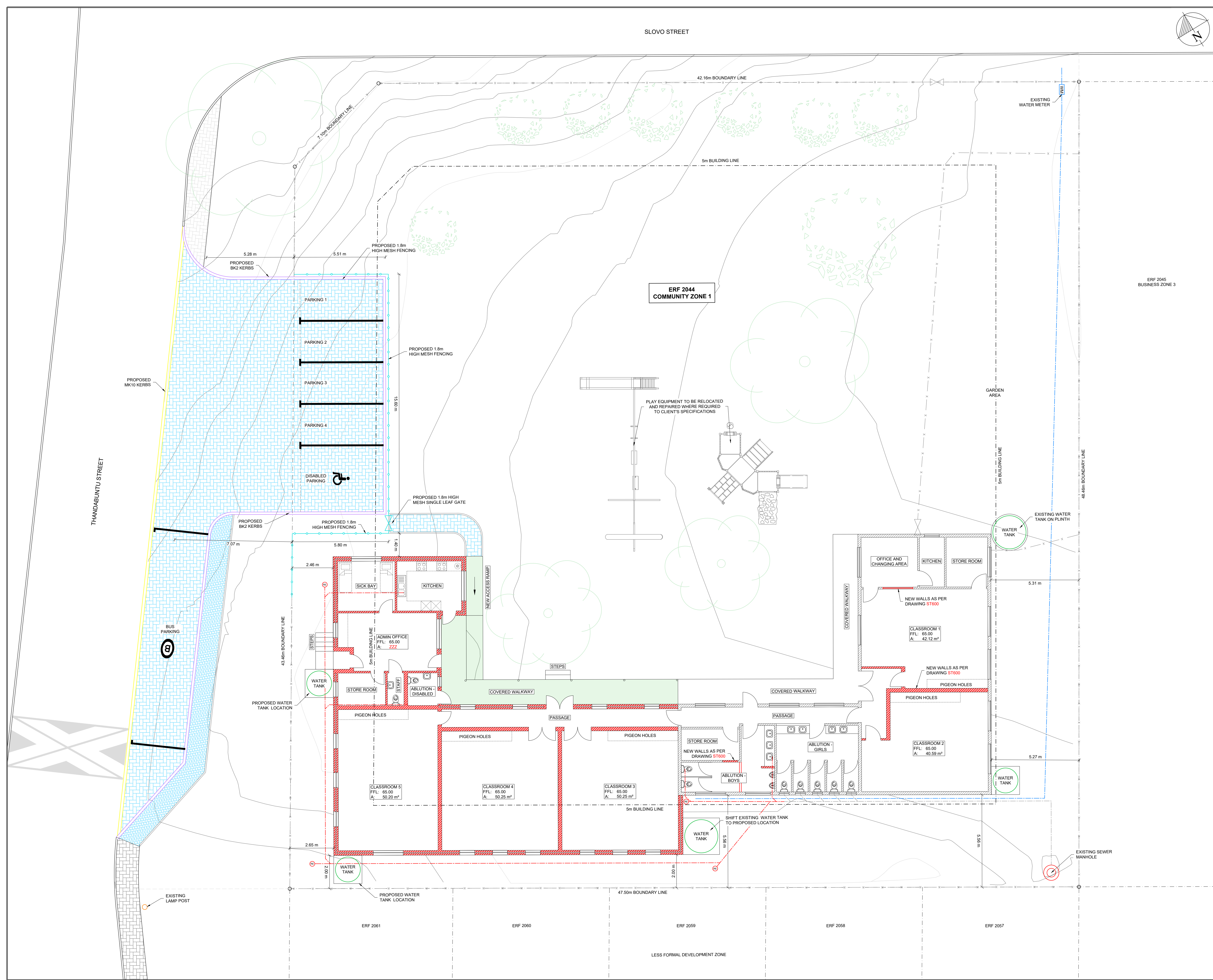


G M SIYONI STREET









| LEGEND |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| SYMBOL | DESCRIPTION                                                                     |
|        | EXISTING PROPERTY BOUNDARY LINE AND MARKERS                                     |
|        | 5m BUILDING LINE                                                                |
|        | EXISTING FENCING AND GATE                                                       |
|        | EXISTING SEWER PIPELINE AND MANHOLE                                             |
|        | EXISTING STORMWATER PIPELINE AND MANHOLE                                        |
|        | EXISTING WATER METER                                                            |
|        | EXISTING STRUCTURE                                                              |
|        | EXISTING TREES AND SHRUBS                                                       |
|        | PROPOSED SEWER PIPELINE                                                         |
|        | PROPOSED STORMWATER PIPELINE                                                    |
|        | PROPOSED WATER PIPELINE                                                         |
|        | PROPOSED 1.8m HIGH GALVANISED MESH FENCING WITH GALVANISED STEEL POSTS AND GATE |
|        | PROPOSED BUILDING WALLS                                                         |
|        | PROPOSED PAVING AREA                                                            |
|        | PROPOSED KERBING / EDGE RESTRAINTS                                              |

| NOTES |  |
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| AMENDMENTS |      |          |             |
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| REVISION | 00 | PHASE  |
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|          |    | TENDER |

**CLIENT**

Department of Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA

**PROJECT**

EXTENSION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

**DRAWING TITLE**

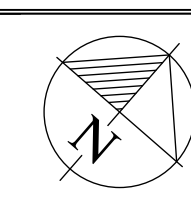
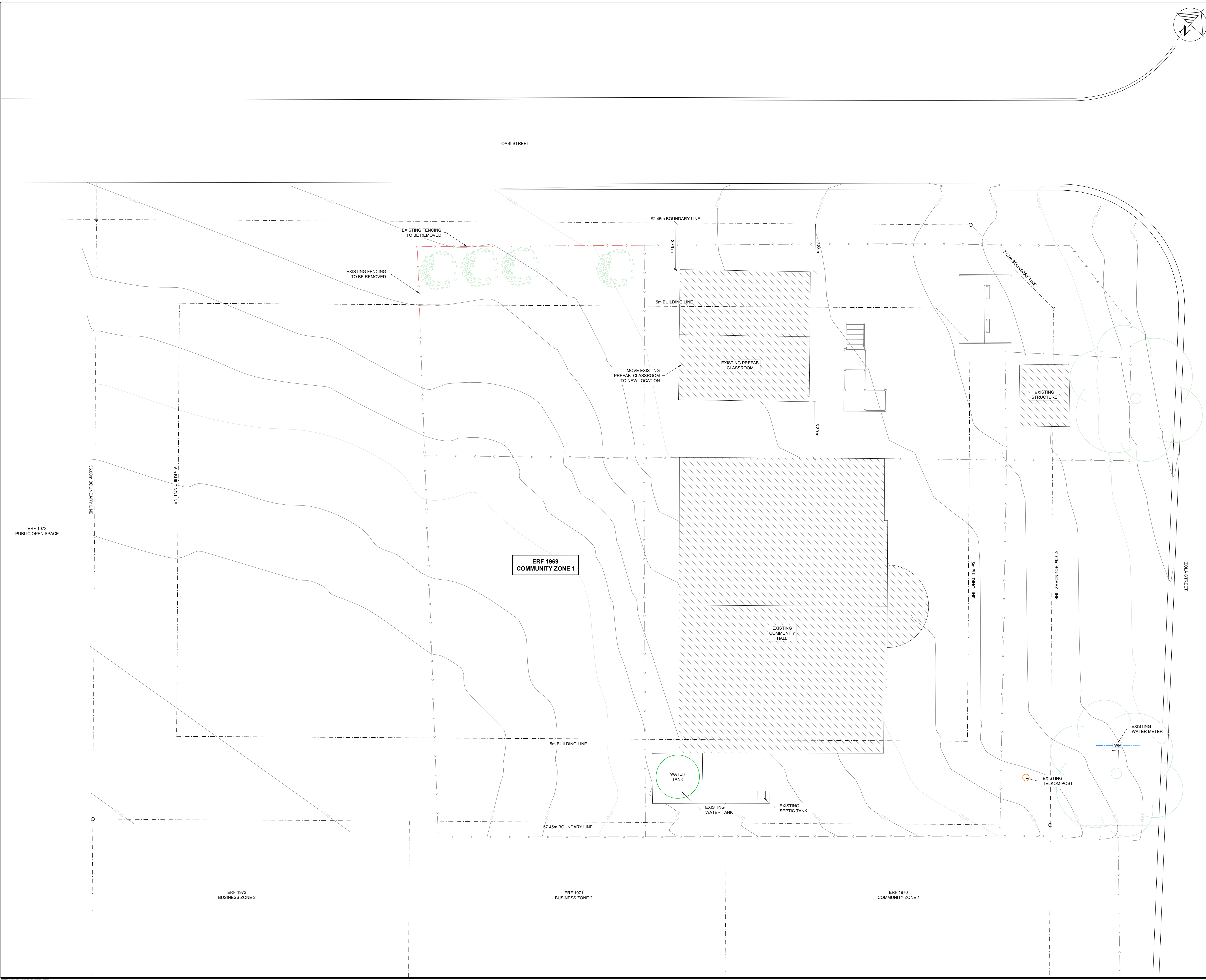
PROPOSED LAYOUT FOR MASKHANE, GANSBAAI (ERF 2044)

**wec**  
CONSULT  
CONSULTING ENGINEERS & PROJECT MANAGERS

|                                                            |                                                                                                 |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| UNIT 24, OVERPARK<br>ROSEWOOD ROAD<br>STELLENBOSCH<br>7600 | PO BOX 12861<br>DIE BOORD<br>7613<br>TEL: 021 886 6895<br>EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA |
| DESIGNED BY<br>DESIGNED CHECKED                            | WN<br>NvM<br>DRAWN BY<br>DRAWING CHECKED                                                        |
|                                                            | WN<br>JB                                                                                        |

| APPROVED BY                          |      |
|--------------------------------------|------|
| NE Vd MERWE - P'ENG - 20120187       | DATE |
| CONTRACT NO.<br>SSC WC 1 (2024/2025) |      |
| FILE NO.<br>23-OVM-003/DRW/TENDER    |      |
| SCALE<br>1:100 (A1)                  |      |
| DATE<br>APRIL 2024                   |      |
| DRAWING NO.<br>23-OVM-003/SUR104/00  |      |





LEGEND

| SYMBOL | DESCRIPTION                                                                     |
|--------|---------------------------------------------------------------------------------|
|        | EXISTING PROPERTY BOUNDARY LINE AND MARKERS                                     |
|        | 5m BUILDING LINE                                                                |
|        | EXISTING FENCING AND GATE                                                       |
|        | EXISTING SEWER PIPELINE AND MANHOLE                                             |
|        | EXISTING STORMWATER PIPELINE AND MANHOLE                                        |
|        | EXISTING WATER METER                                                            |
|        | EXISTING STRUCTURE                                                              |
|        | EXISTING TREES AND SHRUBS                                                       |
|        | PROPOSED SEWER PIPELINE                                                         |
|        | PROPOSED STORMWATER PIPELINE                                                    |
|        | PROPOSED WATER PIPELINE                                                         |
|        | PROPOSED 1.8m HIGH GALVANISED MESH FENCING WITH GALVANISED STEEL POSTS AND GATE |
|        | PROPOSED BUILDING WALLS                                                         |
|        | PROPOSED PAVING AREA                                                            |
|        | PROPOSED KERBING / EDGE RESTRAINTS                                              |

NOTES

AMENDMENTS

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| REVISION | 00 | PHASE  |
|          |    | TENDER |

CLIENT



PROJECT

EXTENSION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

DRAWING TITLE

EXISTING LAYOUT FOR ELUXOLWENI, PEARLY BEACH (ERF 1969)



UNIT 24, OEVERPARK  
ROKEWOOD ROAD  
STELLENBOSCH  
7600  
PO BOX 12861  
DIE BOORD  
7613  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

|                  |      |                 |    |
|------------------|------|-----------------|----|
| DESIGNED BY      | WN   | DRAWN BY        | WN |
| DESIGNED CHECKED | NvIM | DRAWING CHECKED | JB |

APPROVED BY

NE Vd MERWE - PRENG - 20120187 DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

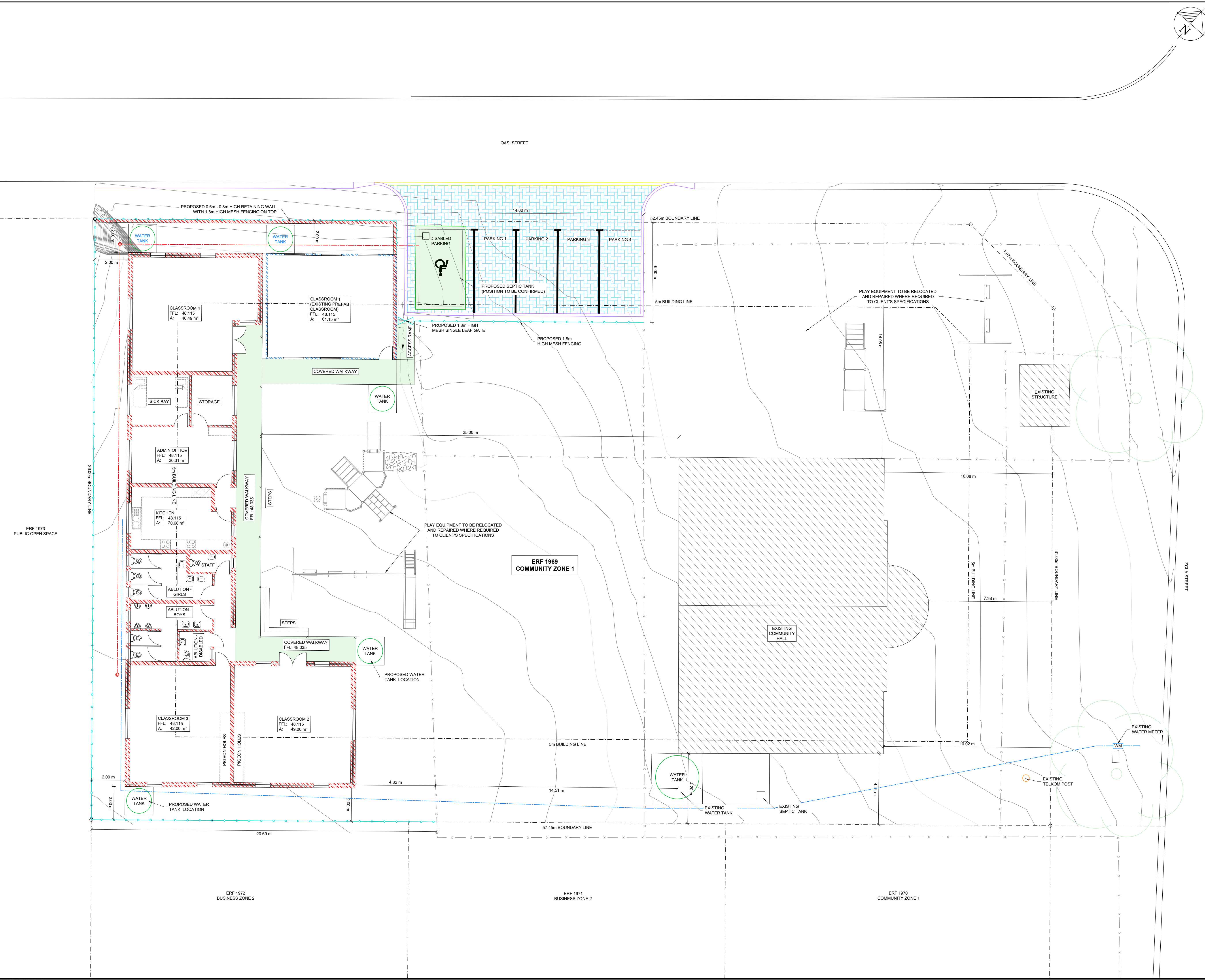
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23-OVM-003/DRW/TENDER

SCALE  
1:100 (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/SUR105/00





| LEGEND |                                                                                 |
|--------|---------------------------------------------------------------------------------|
| SYMBOL | DESCRIPTION                                                                     |
|        | EXISTING PROPERTY BOUNDARY LINE AND MARKERS                                     |
|        | 5m BUILDING LINE                                                                |
|        | EXISTING FENCING AND GATE                                                       |
|        | EXISTING SEWER PIPELINE AND MANHOLE                                             |
|        | EXISTING STORMWATER PIPELINE AND MANHOLE                                        |
|        | EXISTING WATER METER                                                            |
|        | EXISTING STRUCTURE                                                              |
|        | EXISTING TREES AND SHRUBS                                                       |
|        | PROPOSED SEWER PIPELINE                                                         |
|        | PROPOSED STORMWATER PIPELINE                                                    |
|        | PROPOSED WATER PIPELINE                                                         |
|        | PROPOSED 1.8m HIGH GALVANISED MESH FENCING WITH GALVANISED STEEL POSTS AND GATE |
|        | PROPOSED BUILDING WALLS                                                         |
|        | PROPOSED PAVING AREA                                                            |
|        | PROPOSED KERBING / EDGE RESTRAINTS                                              |

| NOTES |  |
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| REVISION | 00 | PHASE  |
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CLIENT

Department  
Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA

PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

PROPOSED LAYOUT FOR  
ELUXOLWENI, PEARLY BEACH  
(ERF 1969)

CONSULTING ENGINEERS & PROJECT MANAGERS

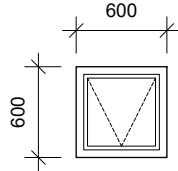
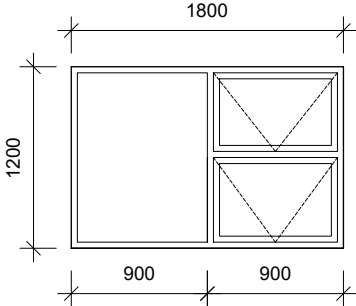
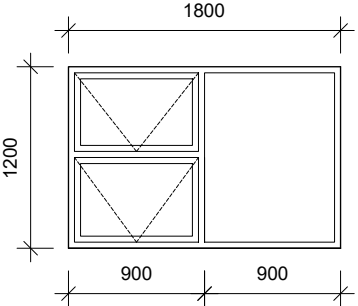
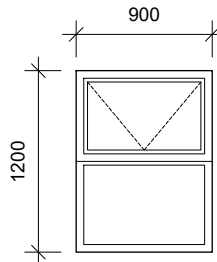
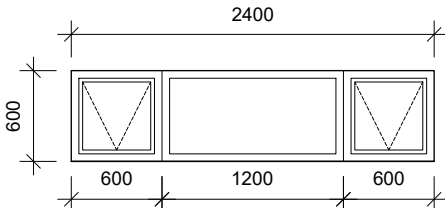
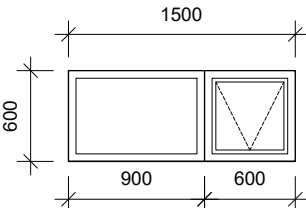
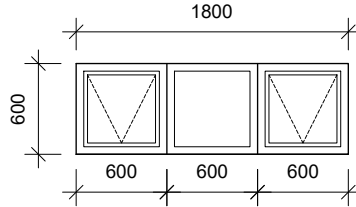
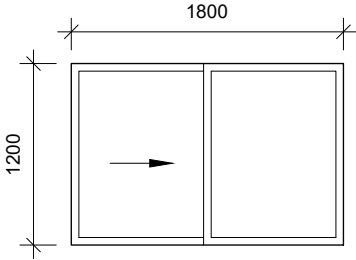
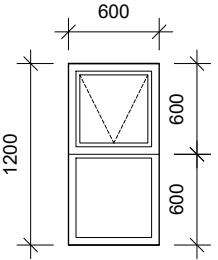
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| UNIT 24, OEVERPARK<br>ROSEWOOD ROAD<br>STELLENBOSCH<br>7600 | PO BOX 12861<br>DIE BOORD<br>7613<br>TEL: 021 886 6895<br>EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA |
| DESIGNED BY<br>DESIGNED CHECKED                             | WN<br>NvM                                                                                       |
| DRAWN BY<br>DRAWING CHECKED                                 | WN<br>JB                                                                                        |

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| NE Vd MERWE - P'ENG - 20120187       | DATE |
| CONTRACT NO.<br>SSC WC 1 (2024/2025) |      |
| FILE NO.<br>23-OVM-003/DRW/TENDER    |      |
| SCALE<br>1:100 (A1)                  |      |
| DATE<br>APRIL 2024                   |      |
| DRAWING NO.<br>23-OVM-003/SUR106/00  |      |





| WINDOW SCHEDULE :                                                                                                                                                                                                                |                                                                                                 | ALL ALUMINIUM FRAME & LAMINATED SAFETY GLASS                                                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--|
| <div></div> <div>NOTE:<br/>ALL OPENING MEASUREMENTS<br/>TO BE CONFIRMED ON SITE<br/>BEFORE ANY MANUFACTURING<br/>OF THE WINDOWS ARE DONE.</div> | <div></div>   | <div></div>   |  |
| REF: W1, W15, W16, W17, W18                                                                                                                                                                                                      | REF: W2                                                                                         | REF: W3                                                                                          |  |
| No req: 5                                                                                                                                                                                                                        | No req: 1                                                                                       | No req: 1                                                                                        |  |
|                                                                                                                                                                                                                                  |                                                                                                 |                                                                                                  |  |
| <div></div>                                                                                                                                    | <div></div>   | <div></div>   |  |
| REF: W4                                                                                                                                                                                                                          | REF: W5, W6, W7, W12, W19, W24, W25, W26                                                        | REF: W8, W22                                                                                     |  |
| No req: 1                                                                                                                                                                                                                        | No req: 8                                                                                       | No req: 2                                                                                        |  |
|                                                                                                                                                                                                                                  |                                                                                                 |                                                                                                  |  |
| <div></div>                                                                                                                                   | <div></div> | <div></div> |  |
| REF: W10, W11, W20, W21                                                                                                                                                                                                          | REF: W13                                                                                        | REF: W14                                                                                         |  |
| No req: 4                                                                                                                                                                                                                        | No req: 1                                                                                       | No req: 1                                                                                        |  |

NOTES

DRAWING APPROVAL

AMENDMENTS

| NO. | DATE | BY | DESCRIPTION |
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REVISION 00 PHASE TENDER

CLIENT



PROJECT  
EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

BAMBANANI (KLEINMOND)  
PROPOSED BUILDING  
WINDOW SCHEDULE



UNIT 24, OEWERPARK  
ROKEWOOD ROAD  
STELLENBOSCH  
7600  
PO BOX 12861  
DIE BOORD  
7613  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

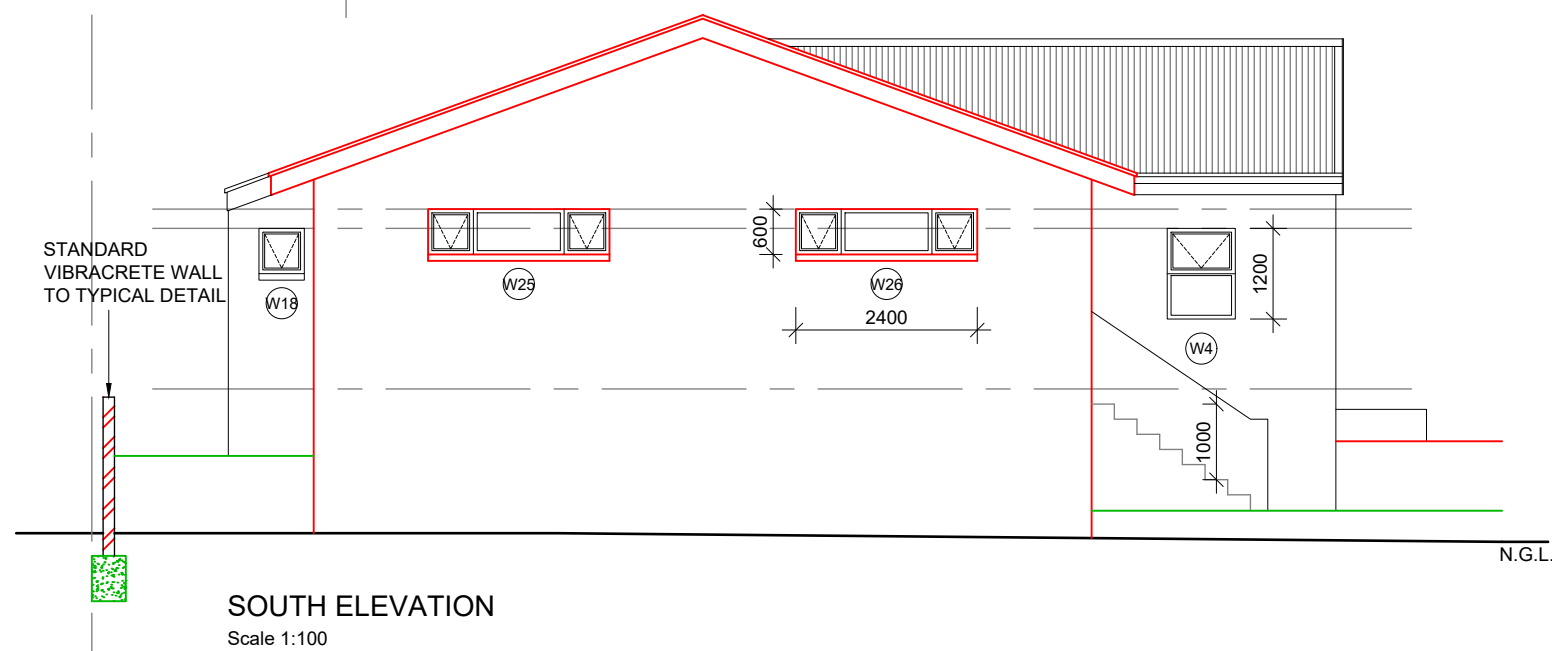
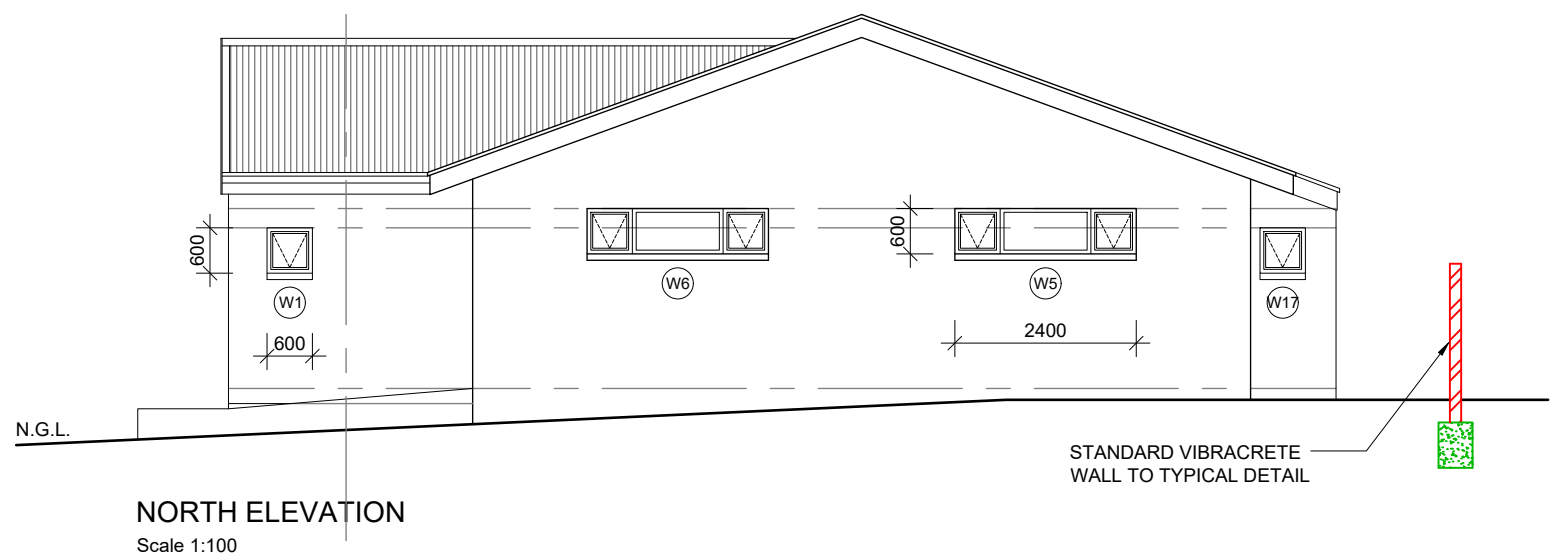
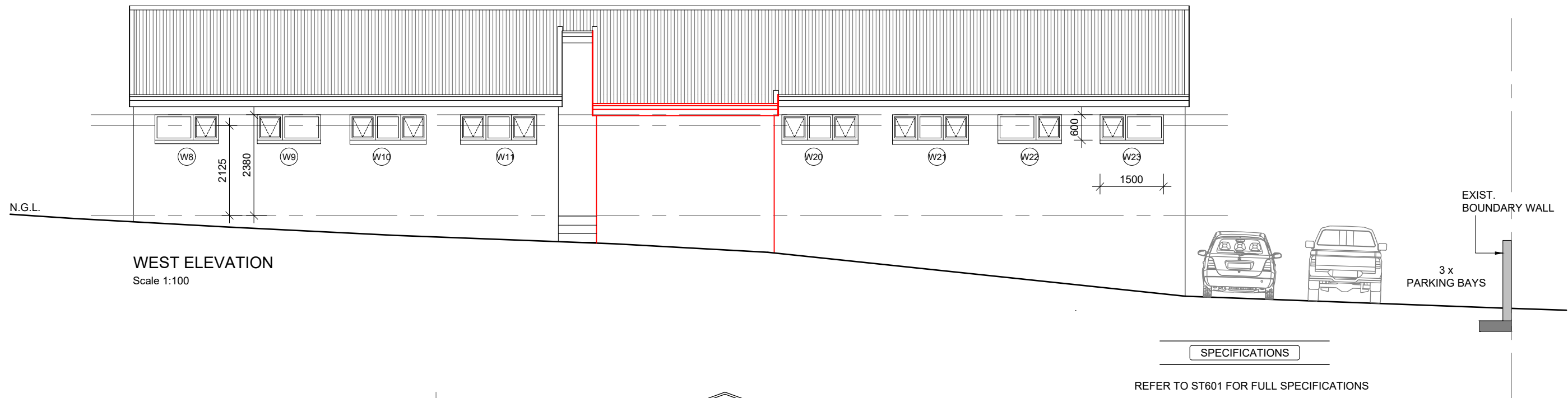
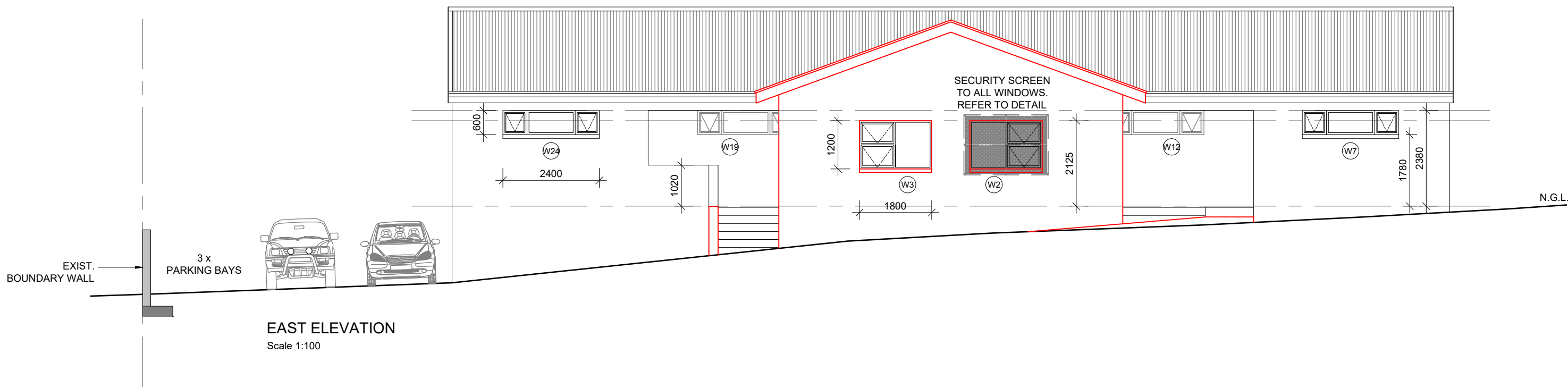
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| DESIGNED BY      | VF |
| DRAWN BY         | MK |
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| DRAWING CHECKED  | VF |

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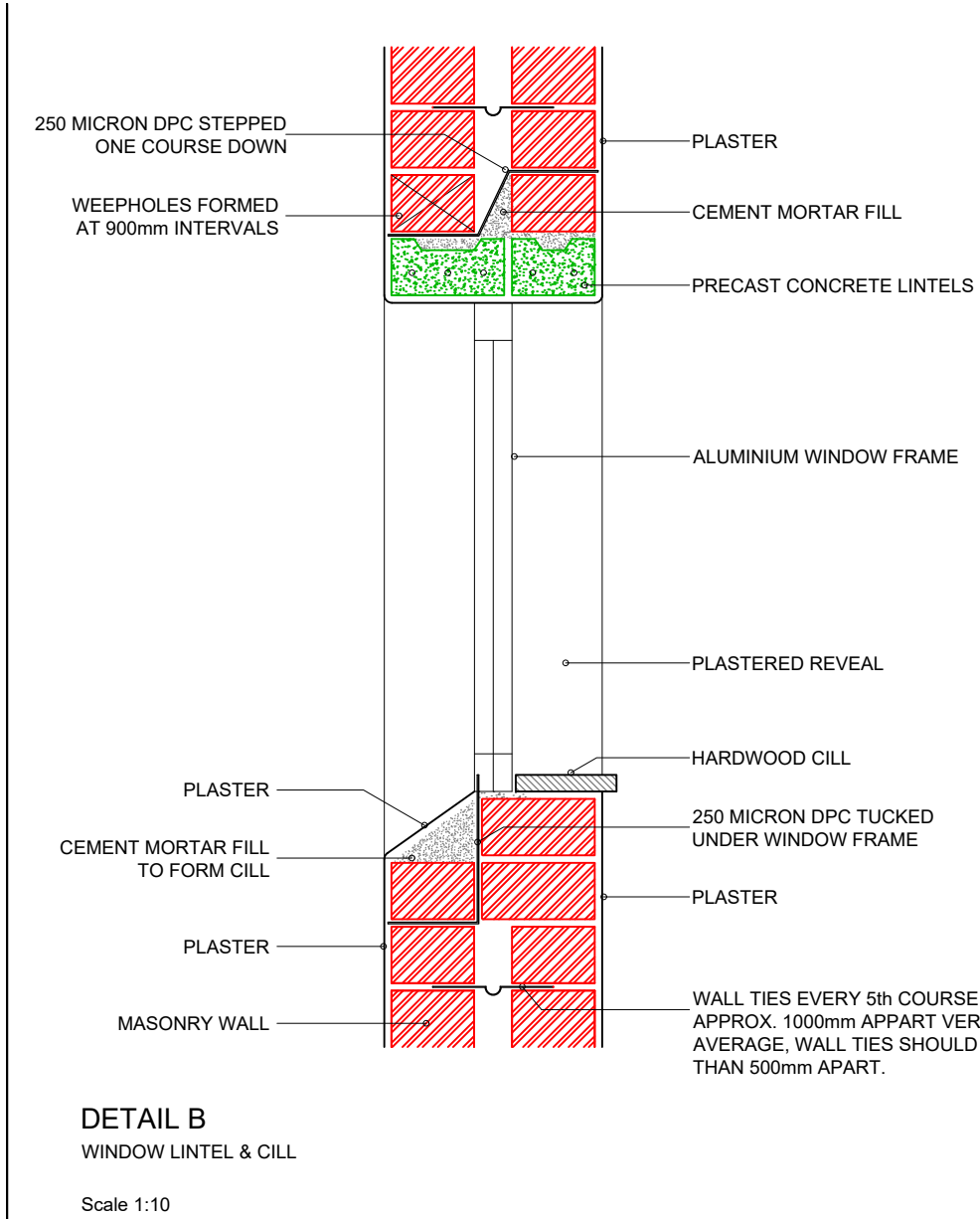
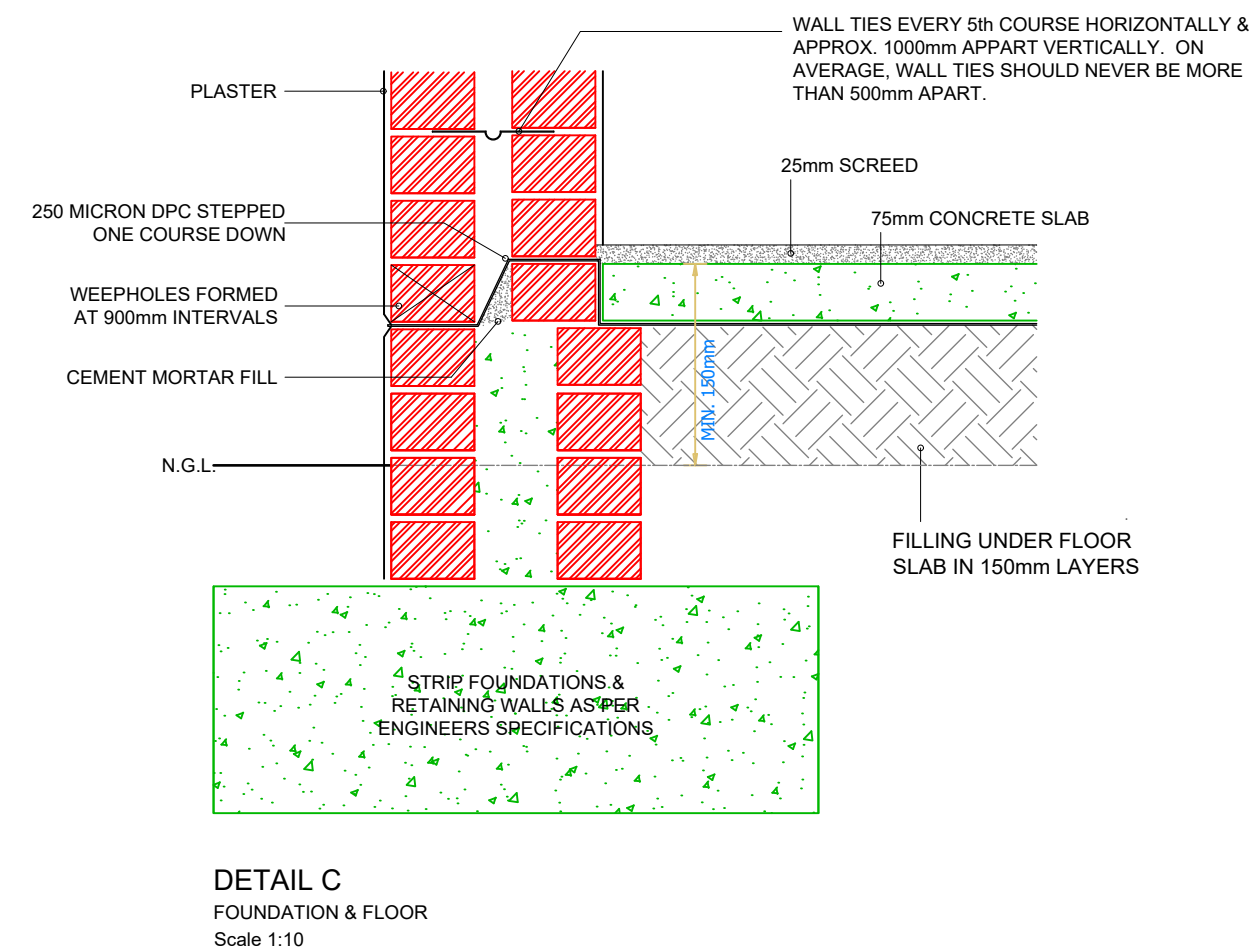
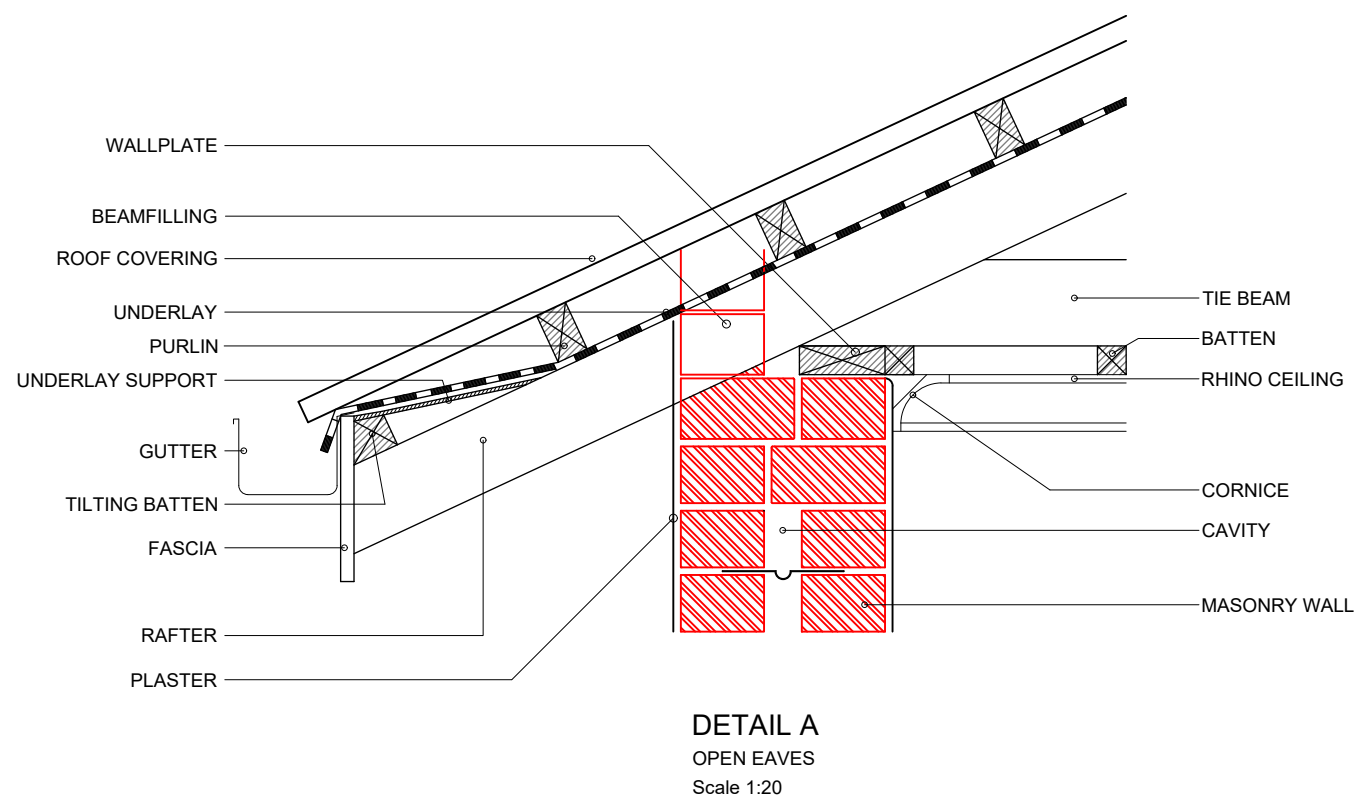
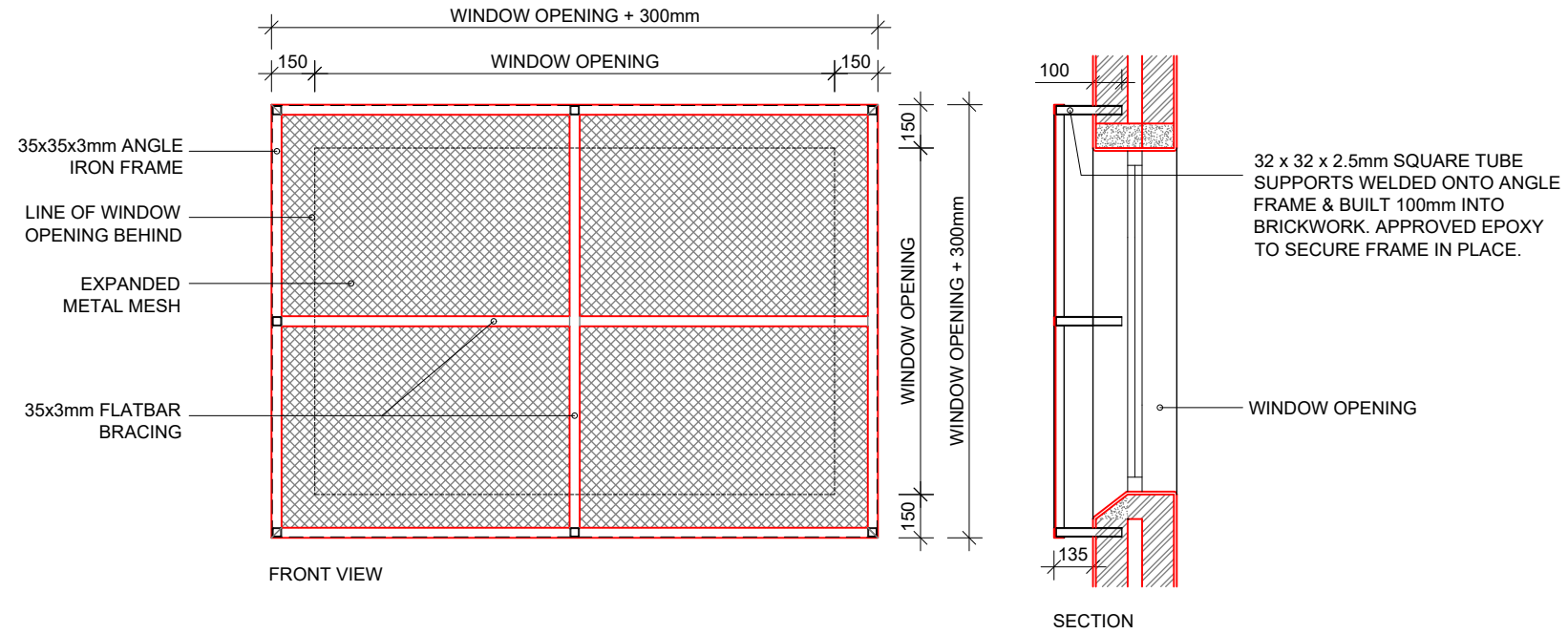
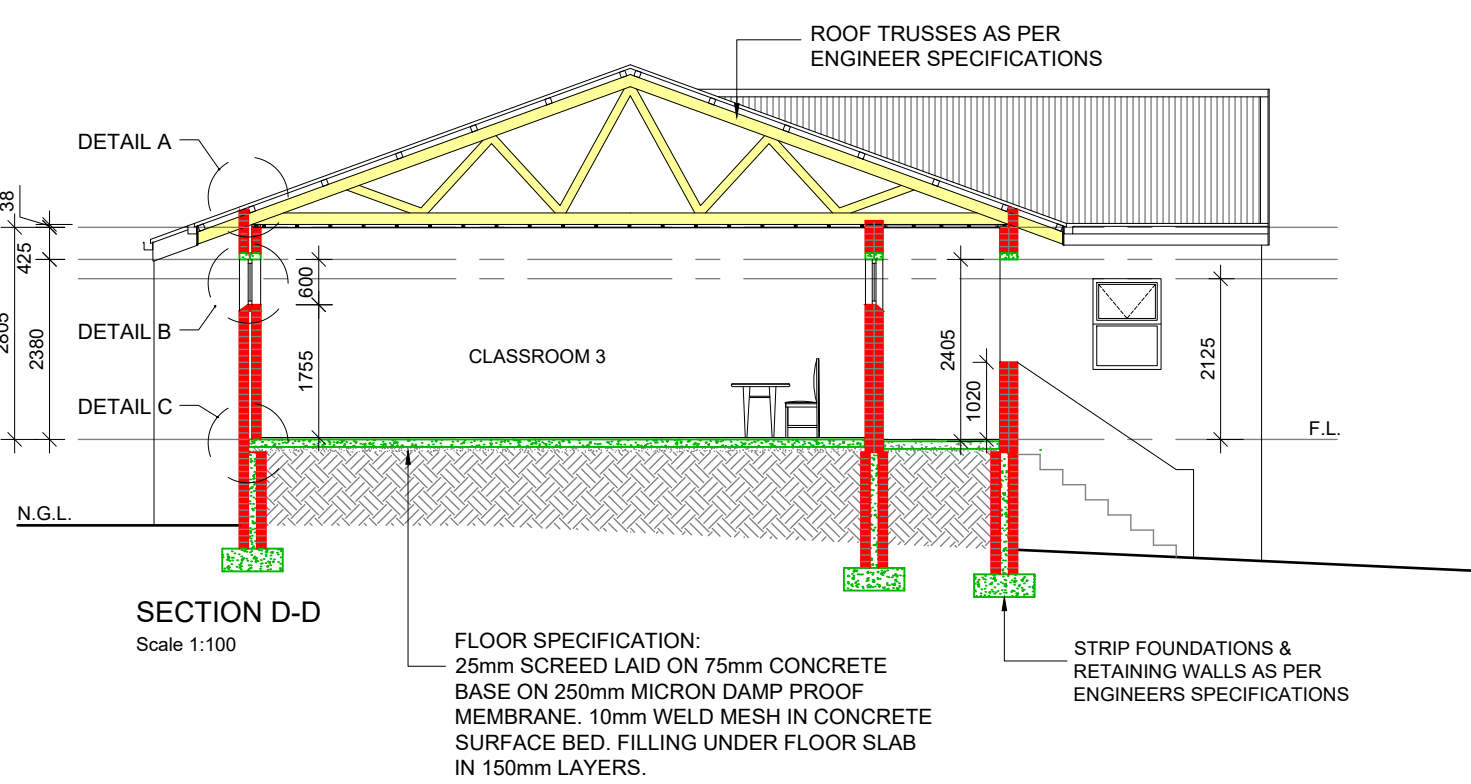
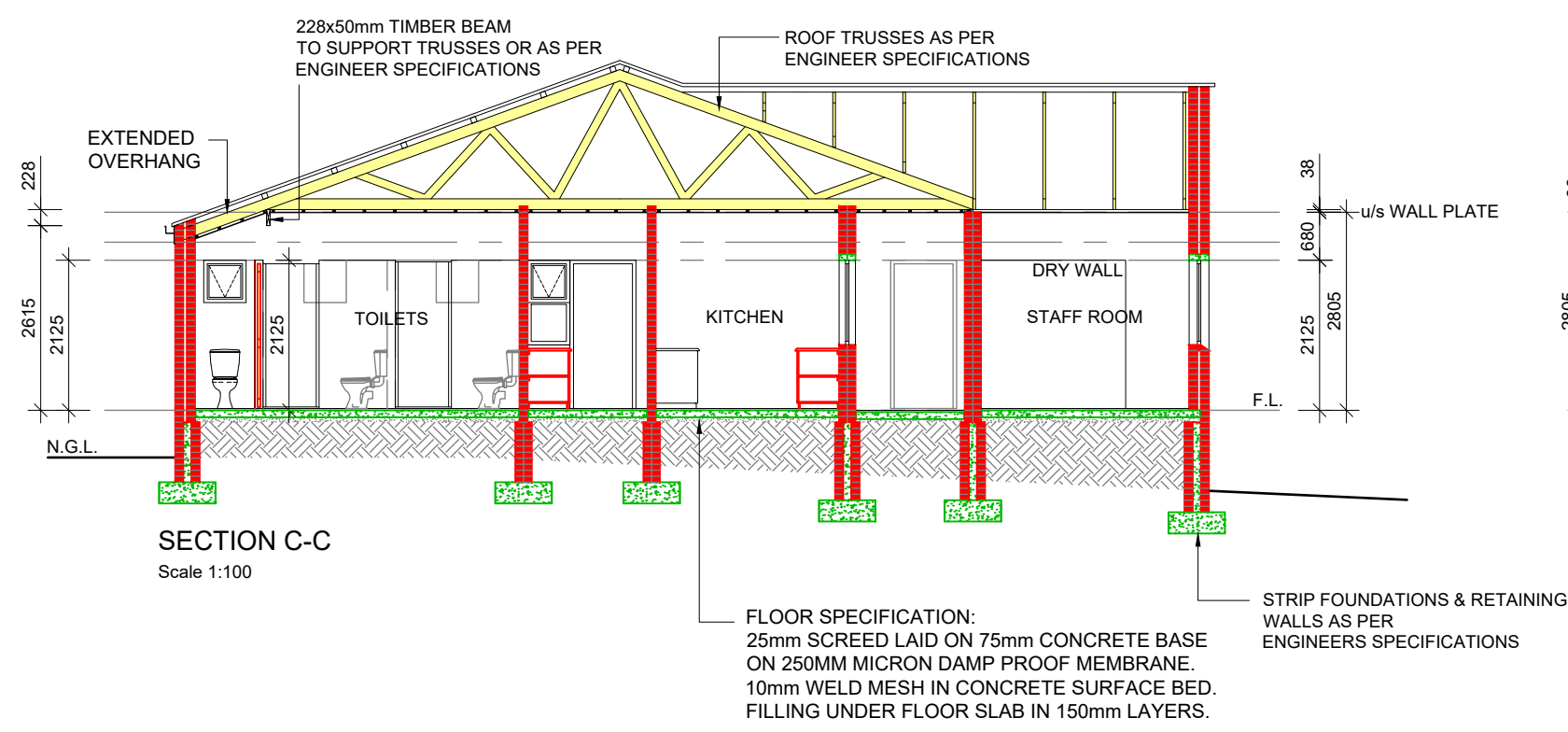
FD HARRIS - Pr Tech Eng - 2021300946

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| DATE                                 |
| CONTRACT NO.<br>SSC WC 1 (2024/2025) |
| FILE NO.<br>23-OVM-003/DRW/TENDER    |
| SCALE<br>1:100 (A3)                  |
| DATE<br>APRIL 2024                   |
| DRAWING NO.<br>23-OVM-003/ST602/00   |





| ENERGY EFFICIENCY -           |      |
|-------------------------------|------|
| ROOF ASSEMBLY :               |      |
| (min. R-Value required = 3.7) |      |
| Outdoor air film              | 0.03 |
| IBR roof sheeting             | 0.03 |
| Indoor air film               | 0.16 |
| Sisalation 405                | 0.72 |
| Aerolite 115mm                | 2.88 |
| Rhinoboard ceiling, 6.4mm     | 0.05 |
| Total                         | 3.87 |



## LEGEND

| SYMBOL | DESCRIPTION |
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## NOTES

## DRAWING APPROVAL

## AMENDMENTS

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## CLIENT



## PROJECT

EXTENSION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

## DRAWING TITLE

BAMBANANI (KLEINMOND) PROPOSED BUILDING ELEVATIONS AND DETAILS



UNIT 24, OEWERPARK, ROKWOOD ROAD, 7615, STELLENBOSCH, 7600  
PO BOX 12861, DIE BOORD, 7615, STELLENBOSCH  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY: VF  
DESIGNED CHECKED: FH  
DRAWN BY: MK  
DRAWING CHECKED: VF

## APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946 DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

FILE NO.  
23-OVM-003/DRW/TENDER

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AS SHOWN (A1)

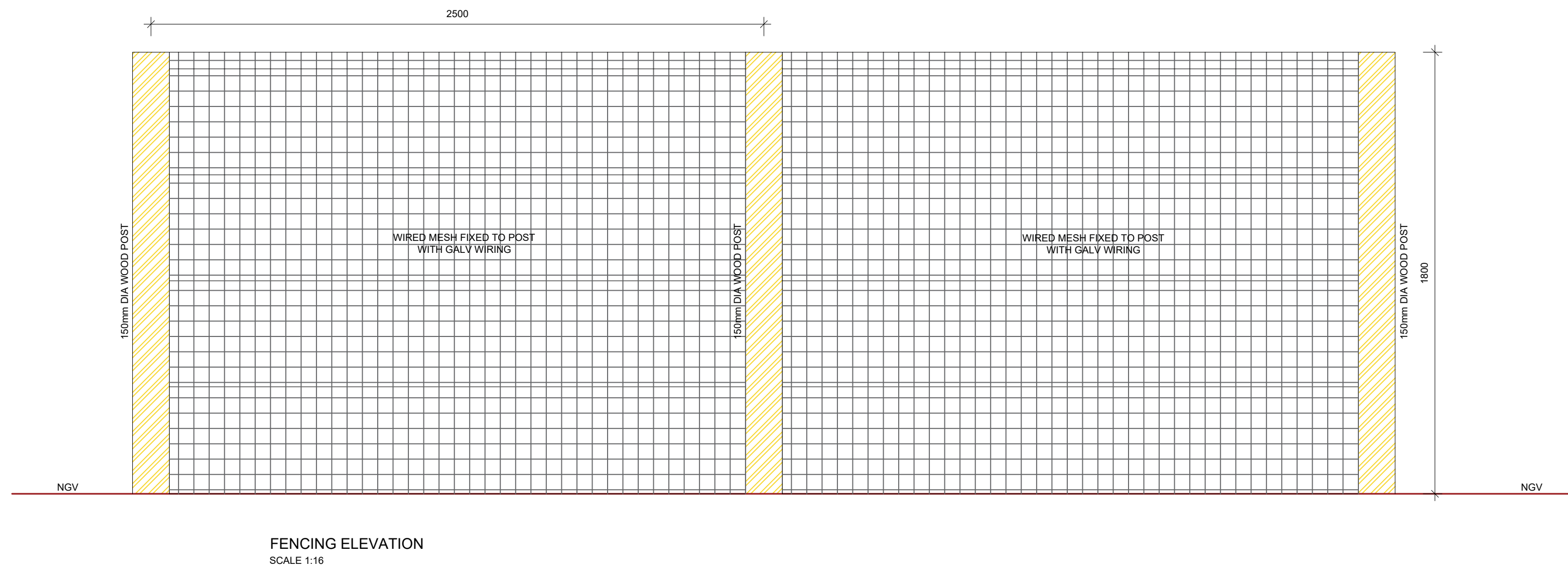
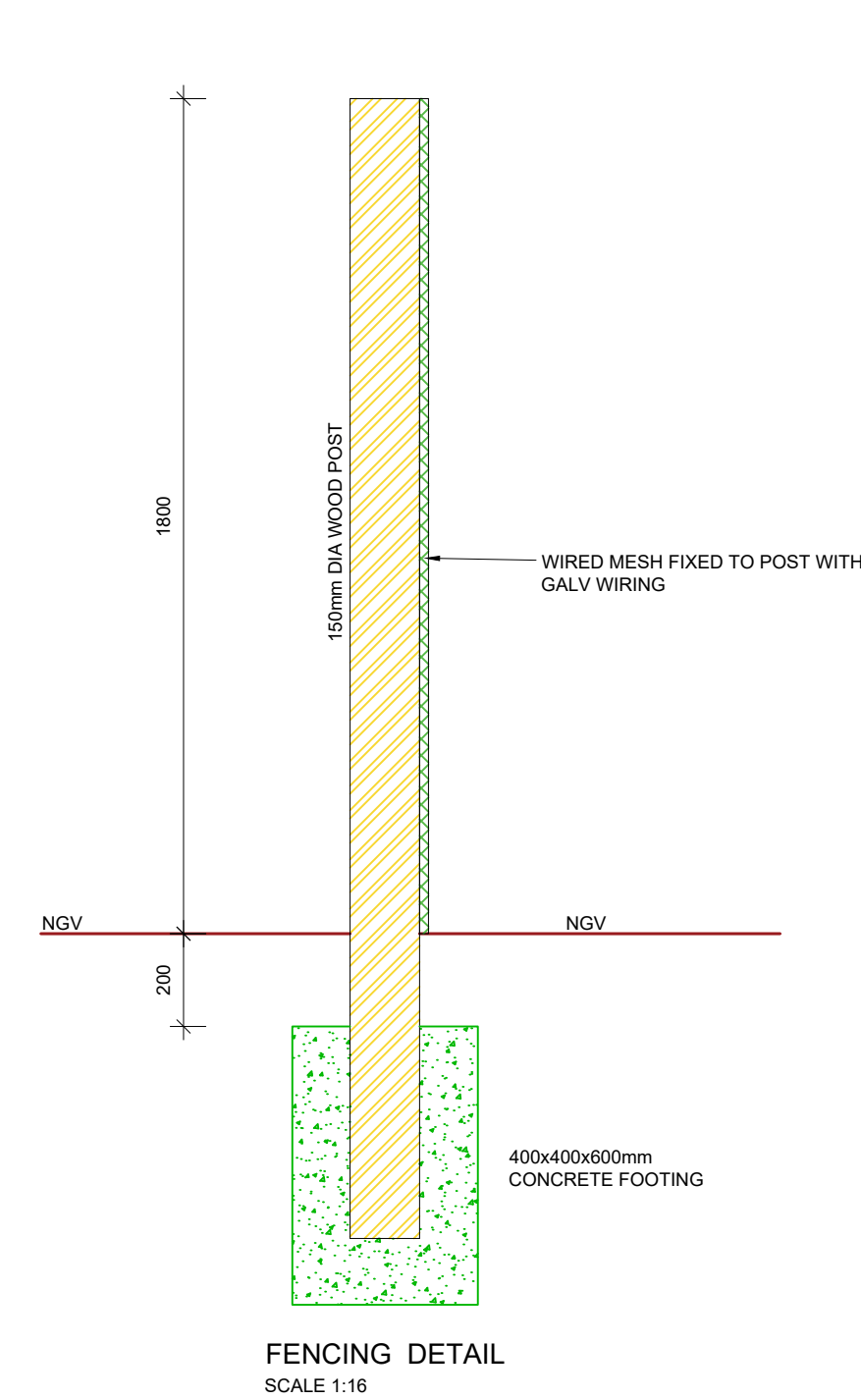
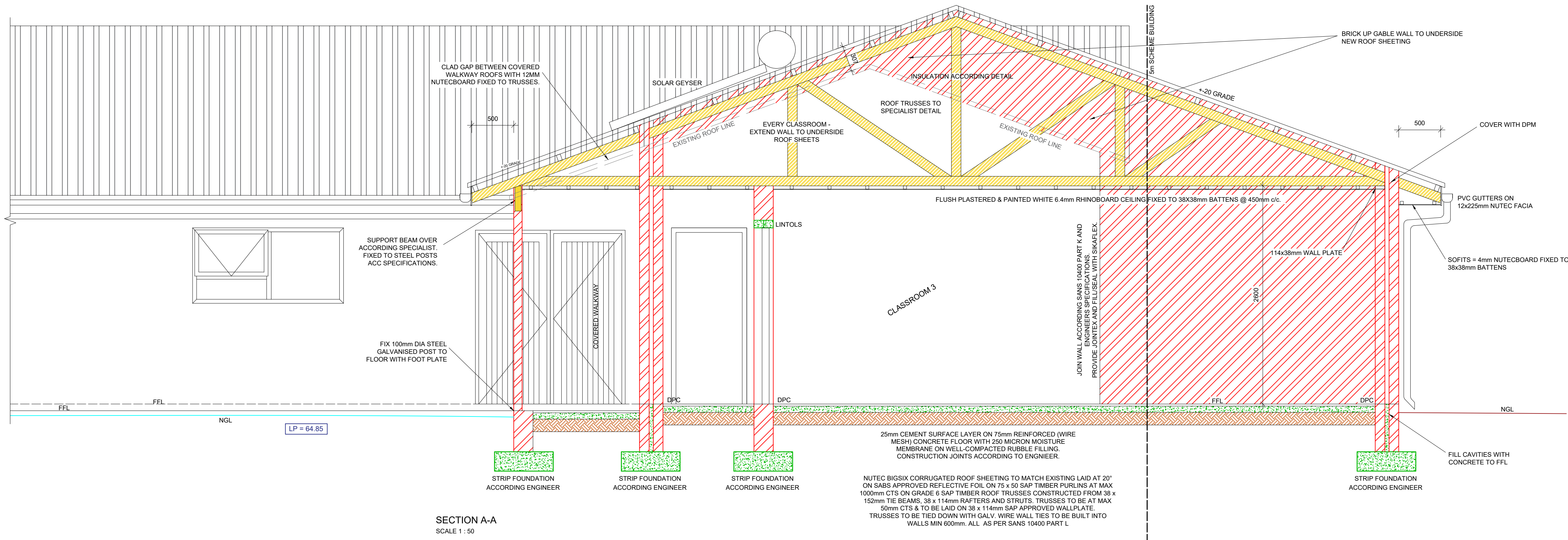
DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST603/00









#### Wall R - Value Calculation : Brick

1. Double skin brickwork with 50mm Cavity plaster both sides comply with SANS10400 XA.

#### Roof Insulation :

Roof 22° to 45° pitch with horizontal ceiling and fibre cement cladding

|                                 |      |
|---------------------------------|------|
| Outdoor air film (7m/s)         | 0.03 |
| Bigsix Cladding                 | 0.06 |
| Roof air space (non-reflective) | 0.18 |
| Rhinoboard (6.4 mm)             | 0.04 |
| Indoor air film (still air)     | 0.11 |
| Total R-value                   | 0.42 |

Direction of flow of heat for zone 4 : Up

Min R-value needed : 3.7

Roof as above R-value = 0.42

Radenshield reflective foil laminate : R-value = 1.36

3.7 - 0.42 = 1.92 (Insulation needed)

R value of insulation = 1.92 x 0.046W/m.K (SANS204 Table 10)

R = 0.088

Therefore 100mm Isotherm insulation required.

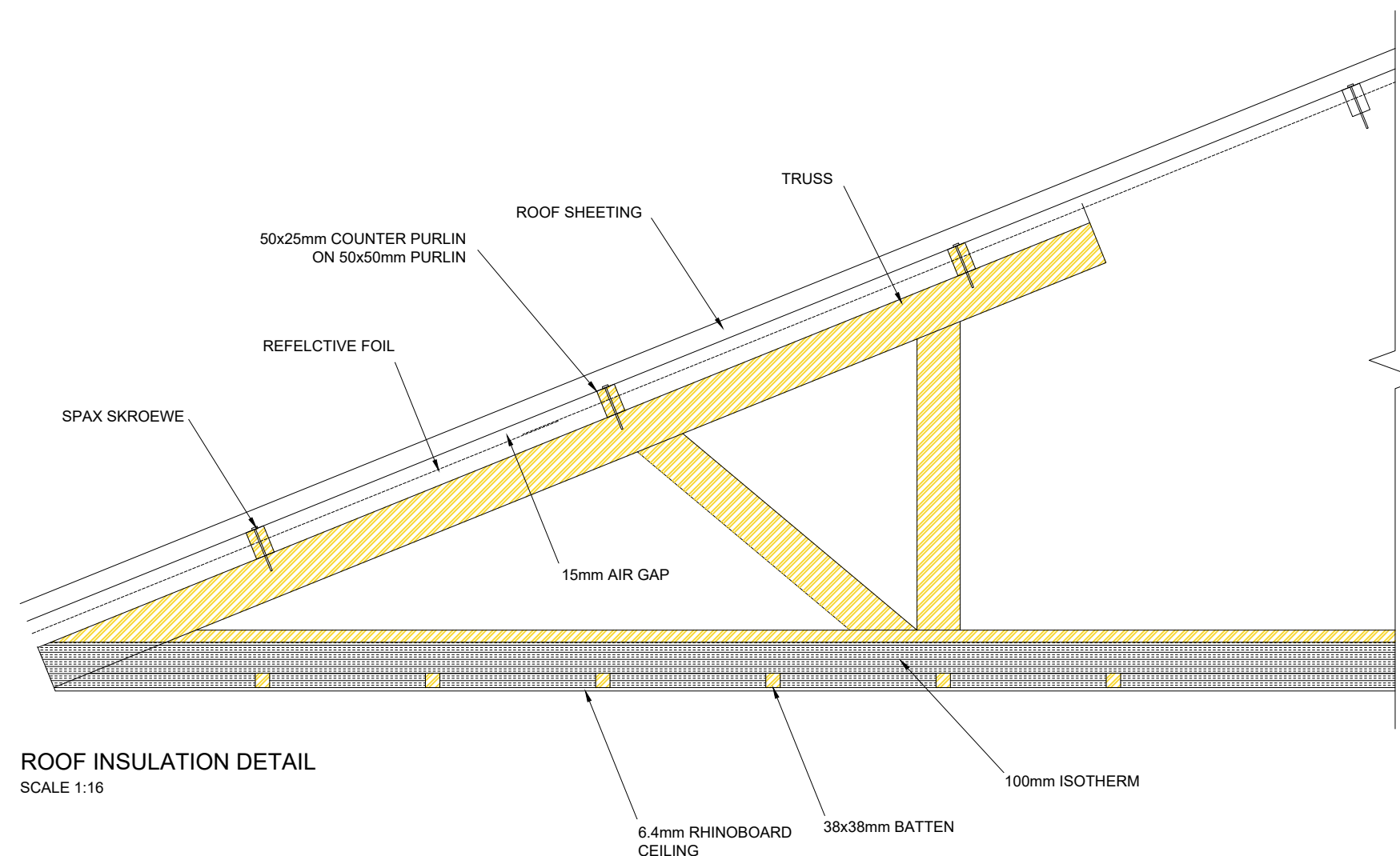
#### Pipe Insulation :

Insulate hotwater pipes : Isover's Glasswool Geyser Pipe Insulation :

R-value = 1

Insulate hotwater cylinder : Isover's Glasswool Geyser blanket :

R-value = 1.25



## NOTES

## DRAWING APPROVAL

## AMENDMENTS

| NO. | DATE | INITIALS | DESCRIPTION |
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## CLIENT



## PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

## DRAWING TITLE

MASKHANE (GANSBAAI)  
PROPOSED BUILDING  
SECTION & FENCE DETAILS



UNIT 24, OEWERPARK  
ROKWOOD ROAD  
STELLENBOSCH  
7600

PO BOX 12861  
DIE BOORD  
7615  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY VF  
DESIGNED CHECKED FA

DRAWN BY MK  
DRAWING CHECKED VF

## APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946

DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

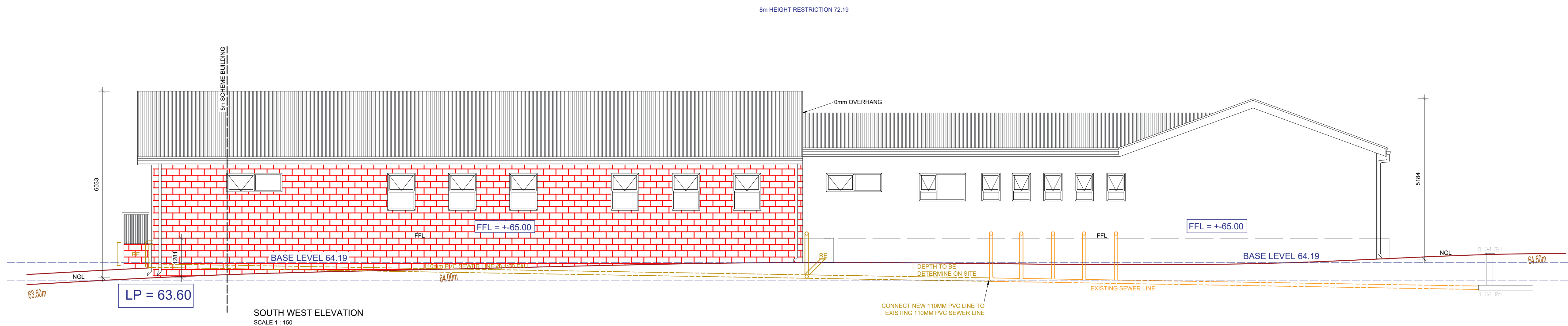
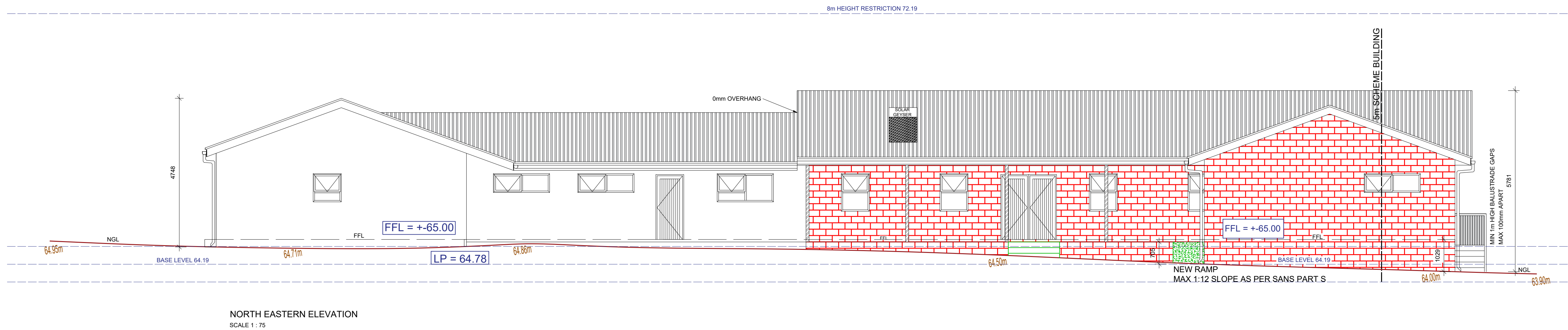
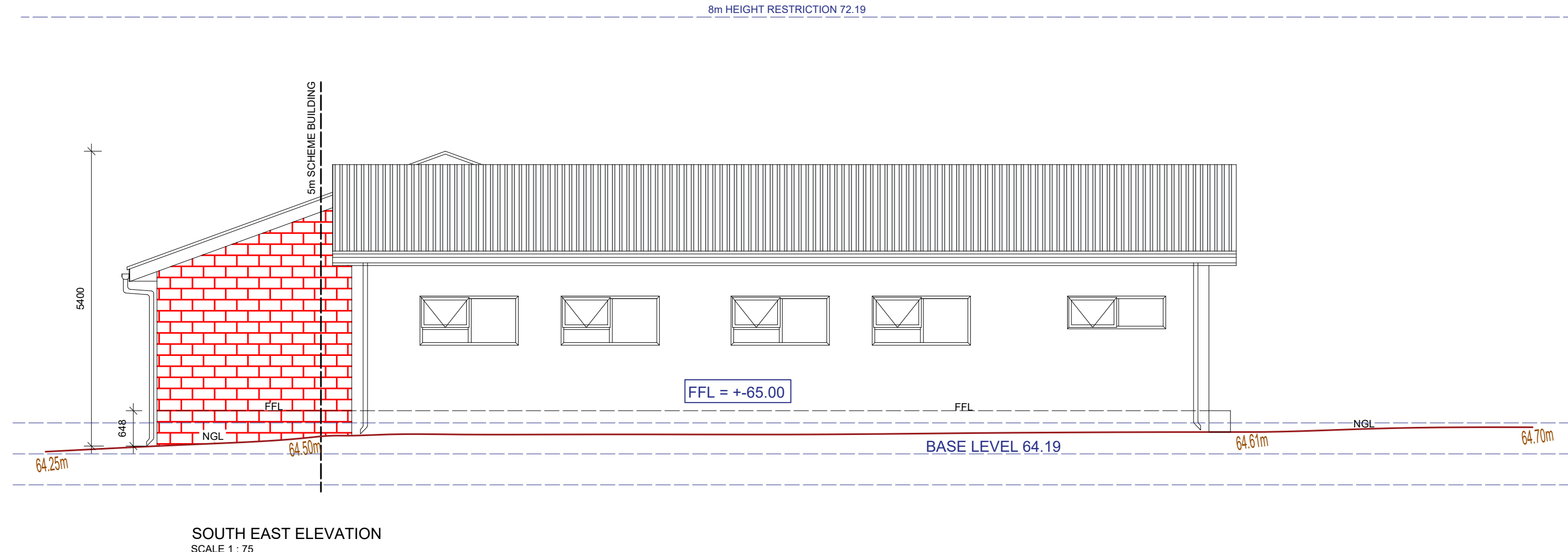
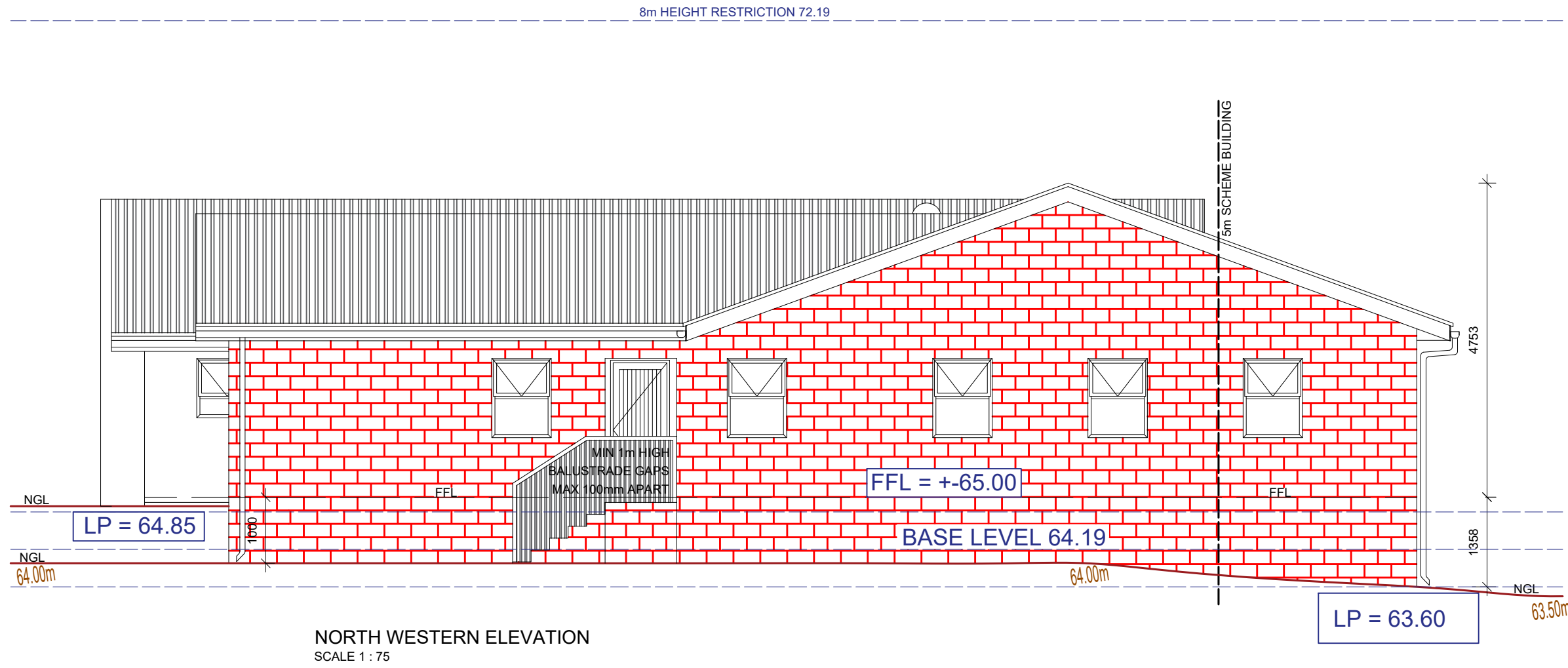
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23-OVM-003/DRW/TENDER

SCALE  
AS SHOWN (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST605/00





## NOTES

## DRAWING APPROVAL

## AMENDMENTS

| NO. | DATE | INITIALS | DESCRIPTION |
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## REVISION

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## PHASE

TENDER

## CLIENT



## PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

## DRAWING TITLE

MASKHANE (GANSBAAI)  
PROPOSED BUILDING ELEVATIONS



UNIT 24, OEWERPARK  
ROSEWOOD ROAD  
STELLENBOSCH  
7600

PO BOX 12861  
DIE BOORD  
7615  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY VF DRAWN BY MK  
DESIGNED CHECKED FA DRAWING CHECKED VF

## APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946 DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

FILE NO.  
23-OVM-003/DRW/TENDER

SCALE  
AS SHOWN (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST606/00







Procedure for evacuating building in case of fire:

- Step 1 - Notify occupants in other units.  
- Call Fire Services  
Step 2 - Exit building promptly and be calm  
- Do not stop to collect personal belongings.  
Step 3 - Head to Assembly Point  
- Do Headcount  
- Do not re-enter building and wait for Fire Services to arrive

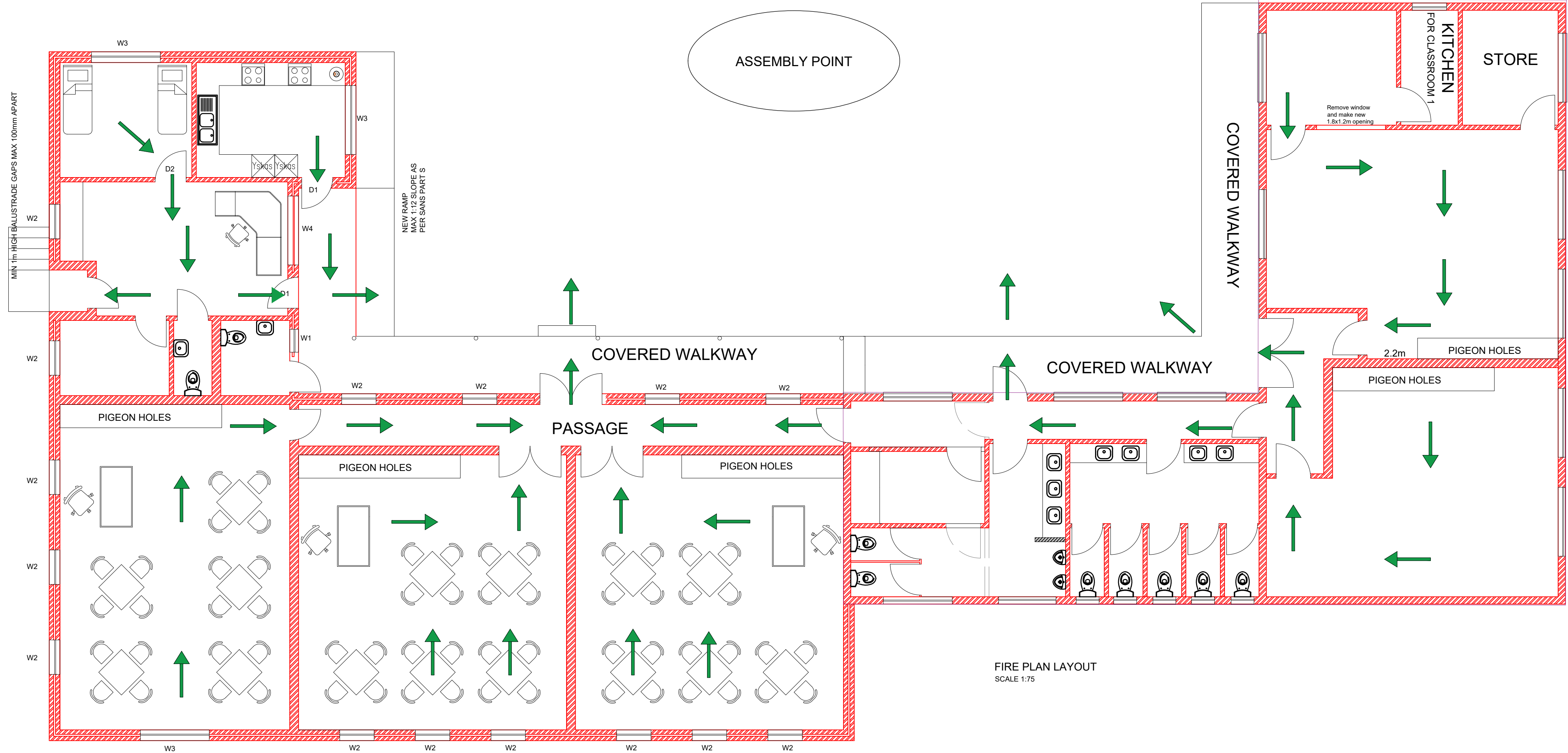
If You Become Trapped Inside

- Try and get to a room with a window.  
If you're on the first floor, open a window and lower yourself to arm's length, then drop to the floor.  
**Never jump from a window** and make sure to first throw down some soft materials onto the ground outside.  
If you're too high up to attempt this, then use the window to call for help and also call Fire Services.  
Block the gaps under doors with materials such as clothing, bedding, towels etc. to prevent smoke from entering.  
If your clothes ever catch fire, don't run around as this will fan the flames; instead, remember:  
• Stop  
• Drop  
• Roll  
Stop immediately, drop to the ground and roll to smother the flames.

Fire safety according to SANS 10400 Part T

- All equipment fitted with signs that comply with SANS1186-1 and 1m above item.  
Fire extinguishers according to SANS1910 and installed according to SANS1475-1 and SANS10105-1.  
Emergency Exit Signs - Provide Photo Luminescent Signs in all passages and above all doors.  
Provide Emergency lighting = Eurolux FS83, 4 hours duration on battery or similar in all classrooms & passages.  
Smoke alarm - provides smoke alarm in each classroom, common area and corridors according to EN14604.  
Classroom Exit doors provided with single-turn lock type.  
Provide 'Emergency Exit Plan' at the back of each door classrooms.

- 5 x 9Kg Dry Chemical Fire Extinguishers  
Fixed to wall acc specifications.  
Fire Requirements:  
Total - 437,34m² SANS10400 Part T Table 11  
1 x 9Kg Dry Chemical Powder Fire extinguishers per 200m² for A3 buildings.  
Needed 3 Fire Extinguishers.  
Provide 7 Fire Extinguishers.



FIRE PLAN LAYOUT  
SCALE 1:75

NOTES

DRAWING APPROVAL

AMENDMENTS

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|          |    | TENDER |

CLIENT



PROJECT  
EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

MASKHANE (GANSBAAI)  
PROPOSED FIRE ESCAPE PLAN



UNIT 24, OEWERPARK PO BOX 12861  
ROSEWOOD ROAD DIE BOORD  
STELLENBOSCH 7615  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY VF DRAWN BY MK  
DESIGNED CHECKED FA DRAWING CHECKED VF

APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946 DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

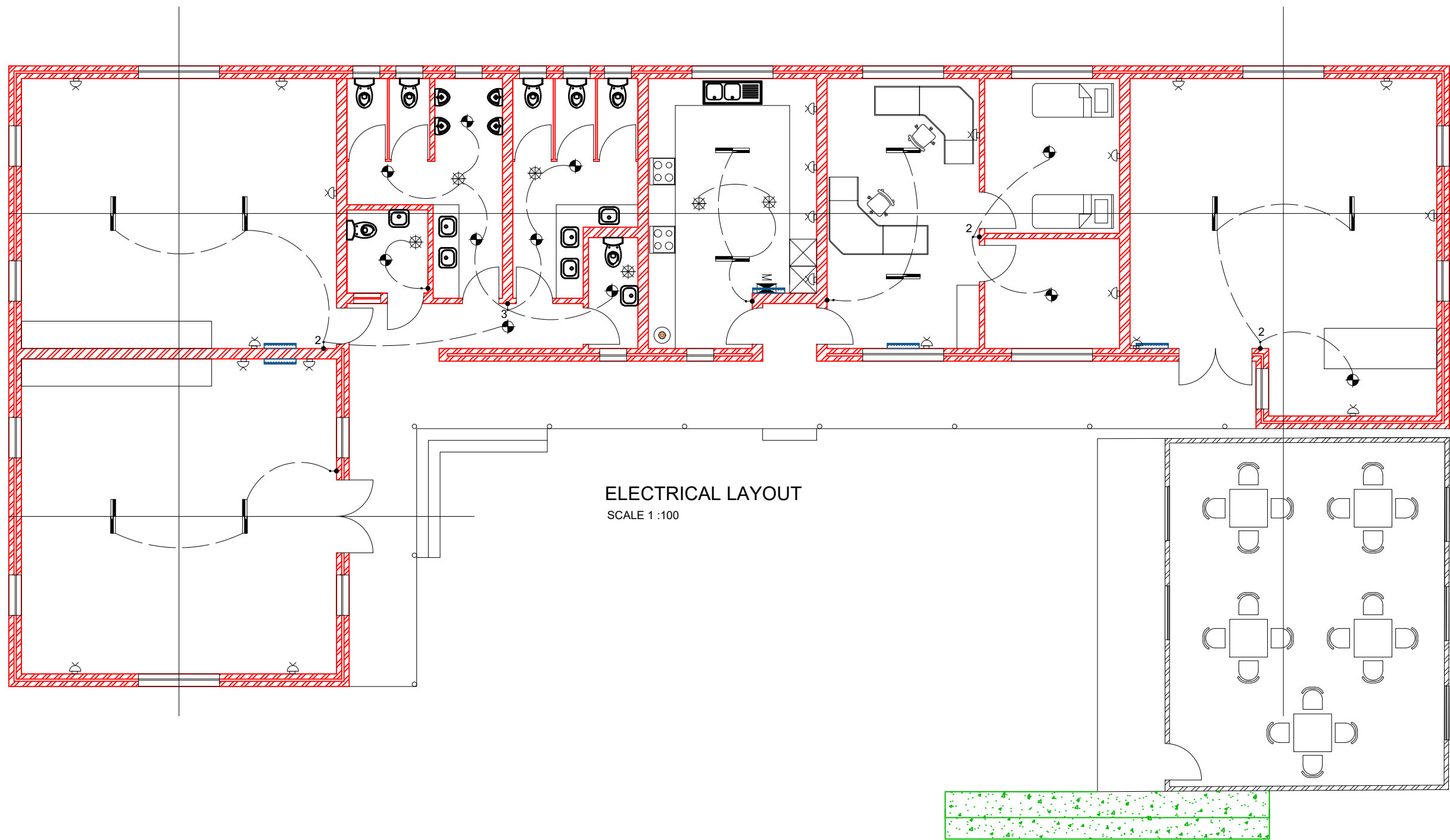
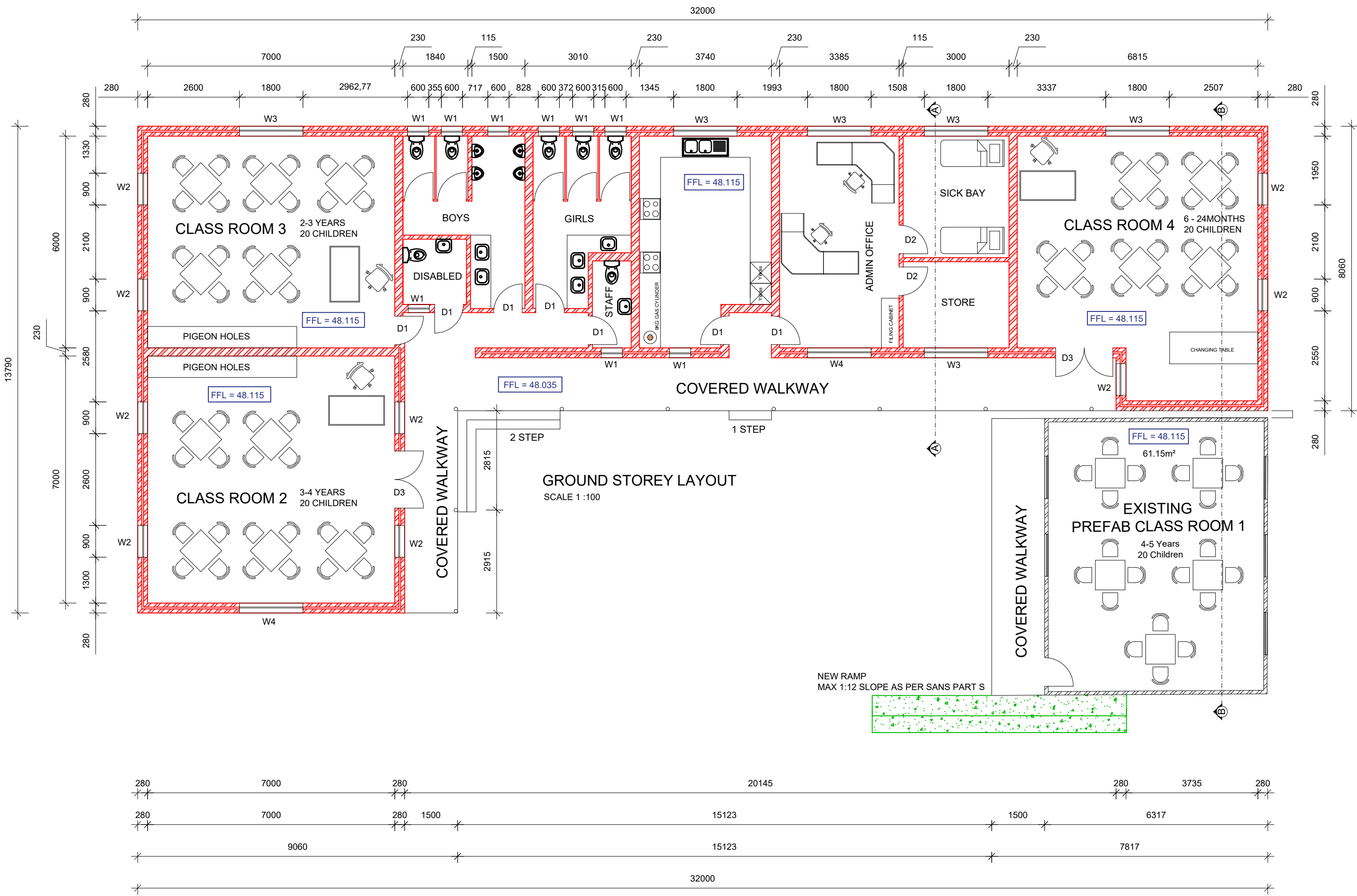
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23-OVM-003/DRW/TENDER

SCALE  
AS SHOWN (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST608/00





#### FRAME AND DOOR LEAF:

|                  |                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FRAME AND FINISH | NO FRAME<br>PELMIT AS SPECIFIED FOR OPENING AS PER DETAIL B<br>FINISH:<br>PELMIT PAINTED AS SPECIFIED<br>ANGLE CORNER PROTECTORS AS SPECIFIED                                                                                                                                               |
| DOOR AND FINISH  | PURPOSE MADE SEMI-SOLID MEDIUM DUTY TIMBER DOOR<br>40mm THICK WITH MASONITE VENEER FACES AND WITH TIMBER EDGES<br>FINISH:<br>STOP WITH POLYFILLA SPACKLE. ENSURE<br>THAT SURFACES TO BE COATED ARE<br>CLEAN, DRY, FIRM<br>AND DUST FREE. APPLY 2-3 COATS PAINT<br>AS PER FINISHING SCHEDULE |
| GLAZING          | N/A                                                                                                                                                                                                                                                                                         |
| OTHER            | REFER TO IRONMONGERY SCHEDULE<br>SLIDING TRACK AND GUIDE RAILS BY LEAD LINED DOOR SPECIALIST<br>(MANUFACTURER TO TAKE NOTE OF DOOR WEIGHT AND TO SUPPLY SLIDING TRACK ACCORDINGLY)                                                                                                          |

#### NOTES:

ALL DIMENSIONS TO BE  
CHECKED ON SITE PRIOR TO  
ORDERING OF ANY MATERIAL

ALL QUANTITIES TO BE  
CHECKED BY CONTRACTOR  
PRIOR TO ORDERING

DRAWING TO BE READ IN  
CONJUNCTION WITH FLOOR  
LAYOUT DRAWING

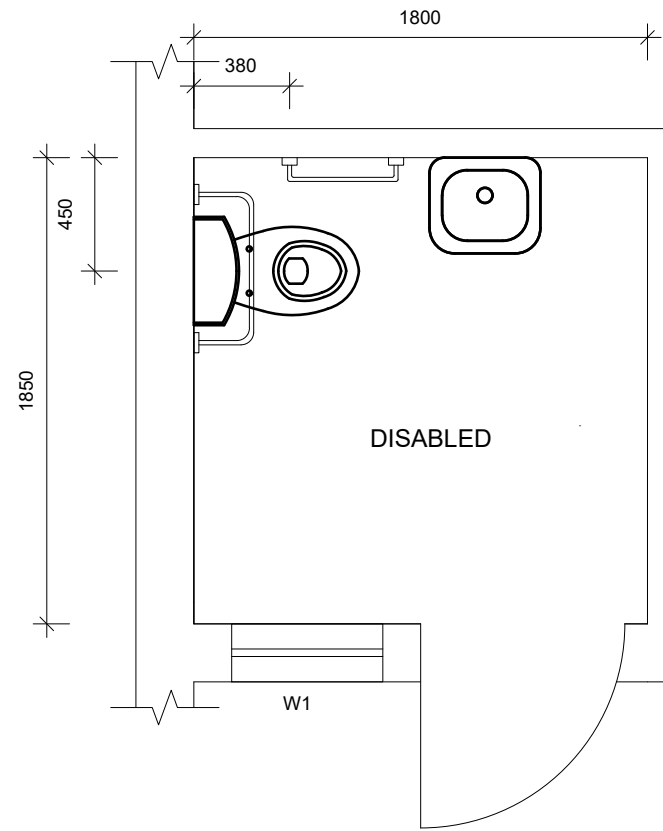
DRAWING TO BE READ IN  
CONJUNCTION WITH  
FINISHING SCHEDULE

#### Window Schedule

| Code        | W1 - PT66                                                           | W2 - PT912 | W3 - PT186 | W4 - PTT1812 |
|-------------|---------------------------------------------------------------------|------------|------------|--------------|
| Dims        | 600x600                                                             | 900x1200   | 1800x600   | 1800x1200    |
| Area        | 0.36/vm                                                             | 1.08/vm    | 1.08/vm    | 2.16/vm      |
| Glass       | 4mm                                                                 | 4mm        | 4mm        | 4mm          |
| Colour      | White                                                               | White      | White      | White        |
| Glass type  | See attached U-Solve XA calculations!                               |            |            |              |
| Air Leakage | Max 2L/s/m² for openable areas and max 0.306L/s/m² for fixed areas. |            |            |              |

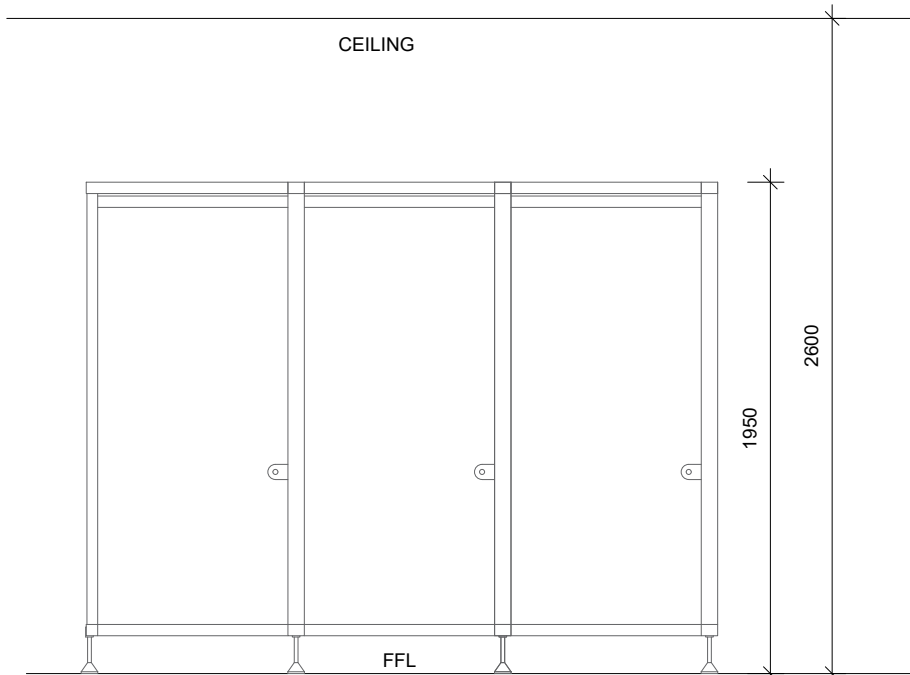
#### Door Schedule

|             | D1                                                                                                                                                                              | D2                                  | D3                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|
| Type        | Openback, Framed, Ledge & Battened, KYD1                                                                                                                                        | Hollow Core Standard Hardboard Door | Openback, Framed, Ledge & Battened, KYD1 |
| Dims        | 813x2032                                                                                                                                                                        | 813x2032                            | 1613x2032                                |
| Open        | As shown on plan - with sill                                                                                                                                                    | As shown on plan - no sill          | Open Out                                 |
| Detail      | Swartland Kayo                                                                                                                                                                  | Swartland Kayo                      | Swartland Kayo                           |
| Frame       | Kayo HC3014M 86x53mm                                                                                                                                                            | Kayo HC3014M 86x53mm                | Kayo HC3026M 86x53mm                     |
| Ironmongery | Hinges as supplied by manufacturer. Manufacturer to take note of door weight and to supply hinges accordingly. Locks & Handles according client specifications and specialists. |                                     |                                          |
| Finish      | 2 Coates interior Woodoc varnish                                                                                                                                                | 2 Coates Enamel white               | 2 Coates exterior Woodoc varnish         |

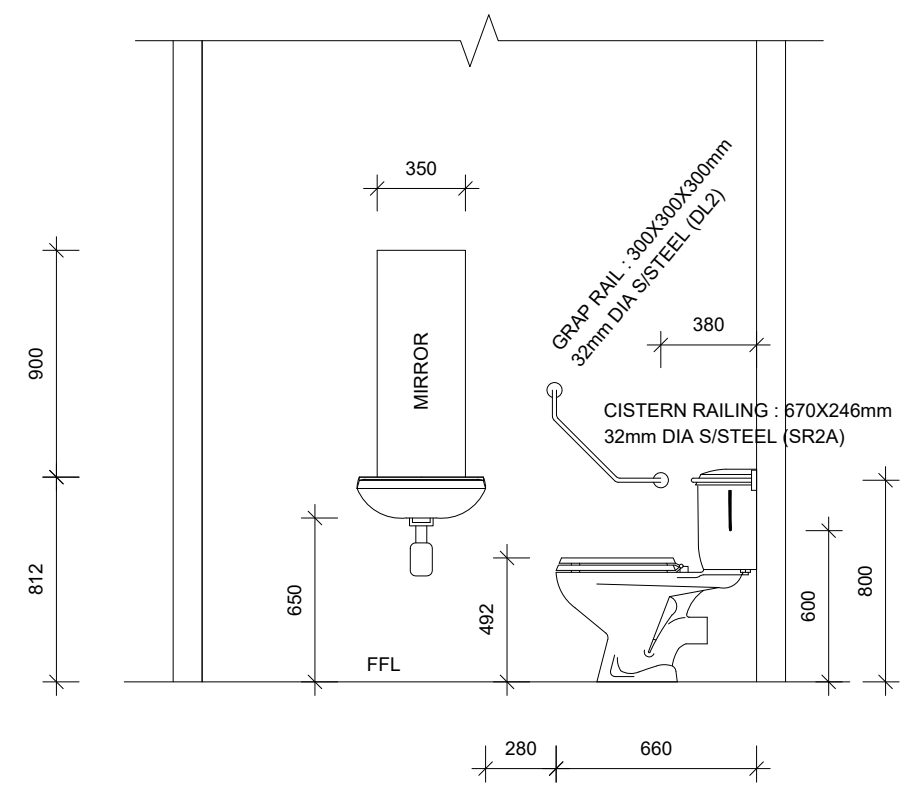


DETAIL PLAN: DISABLED BATHROOM  
SCALE 1 : 30

ALUMINUM PARTITIONS ACCORDING PELICAN SYSTEMS  
OR SIMILAR & BY SPECIALISTS.  
TO BE CHECKED ON SITE.  
DOORS ALSO TO BE ALUMINUM MATERIAL.  
LOCK - YALE BATHROOM DOOR INDICATOR BOLT BP.



DETAIL PARTITION BATHROOM:  
SCALE 1 : 30

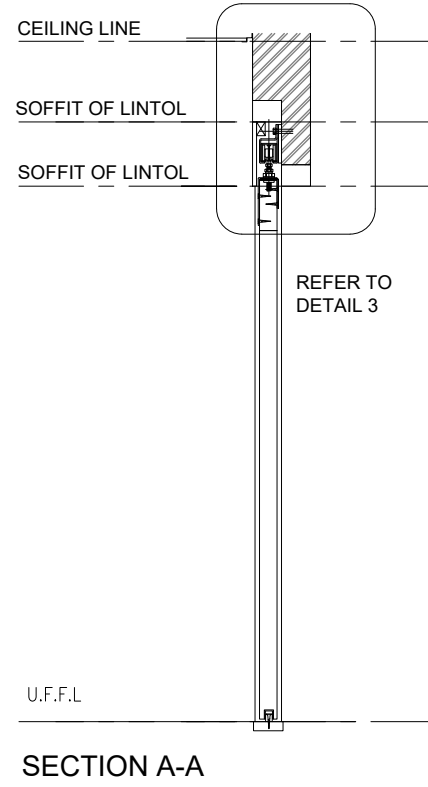


DETAIL :  
SCALE 1 : 30

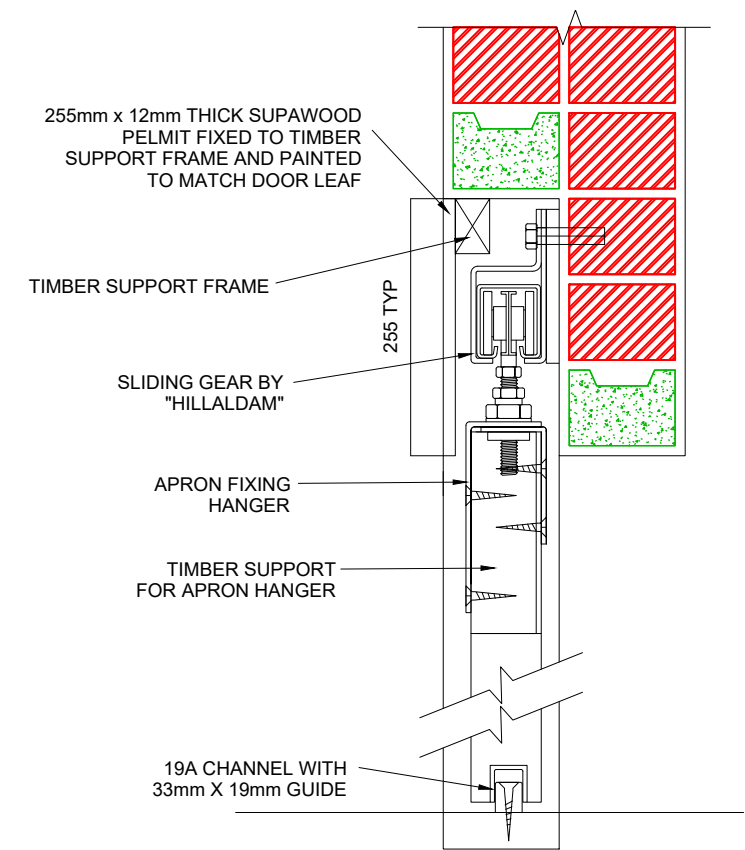
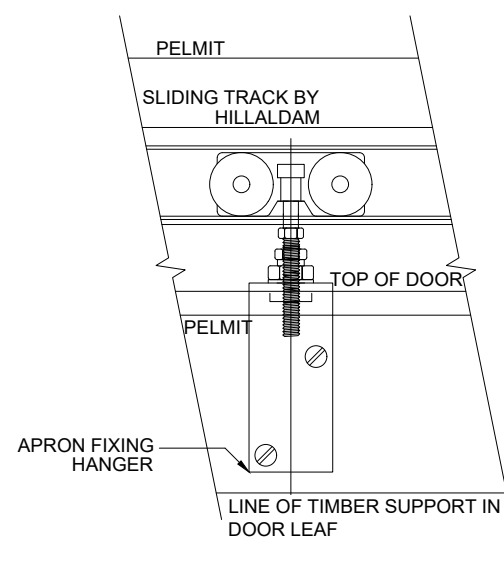
150MM LONG LEVER TYPE DOOR HANDLE WITH  
SWIVEL LOCK AND INDICATOR

32MM DIA S/STEEL  
(SR300) GRIP RAIL

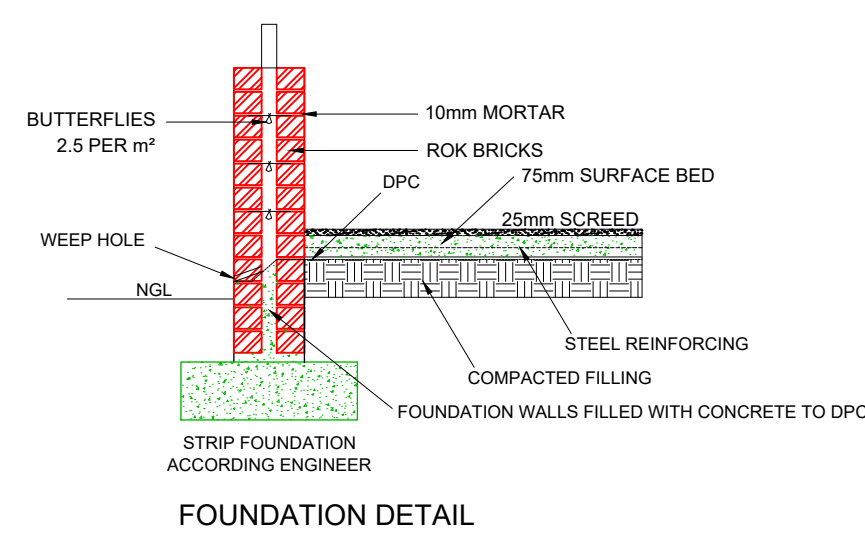
DETAIL DOOR:  
SCALE 1 : 50



SECTION A-A



SLIDING GEAR DETAIL 3



FOUNDATION DETAIL  
SCALE 1:30

#### ELECTRICAL LEGEND

|  |                                                                                         |                                                                               |                                                       |
|--|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------|
|  | DISTRIBUTION BOARD @ 1400mm AFFL.                                                       |                                                                               | LOW VOLTAGE RECESSED DOWNLIGHTER. 3W LED              |
|  | WALL MOUNTED LIGHT SWITCH @ 1200mm AFFL. INDICATING NUMBER OF SWITCHES. CLPSAL 100x50mm |                                                                               | LOW VOLTAGE 300mm ABOVE FFL STAIR LIGHT (FOOT LIGHT). |
|  | DOUBLE 16 AMP SOCKET OUTLET @ 350mm AFFL OR AS INDICATED. CLPSAL 100x100mm              |                                                                               | LOW VOLTAGE EXTERNAL WALL MOUNTED BULBHEAD LIGHT.     |
|  | WALL MOUNTED AIRCON ISOLATOR SWITCH @ 1500 AFFL.                                        |                                                                               | CEILING MOUNTED LIGHT.                                |
|  | WALL MOUNTED DATA & TELEPHONE POINT @ 350mm AFFL.                                       | 1500mm 2x8W LED CEILING MOUNTED LIGHT                                         |                                                       |
|  | WALL MOUNTED DSTV & T.V. AERIAL POINT @ 350mm AFFL.                                     | EUROLUX EMERGENCY LIGHT - FS83 OR SIMILAR. Min 4 hours battery cycle runtime. |                                                       |
|  | EXTRACTOR FAN                                                                           |                                                                               |                                                       |

GENERAL NOTES:  
- ALL MEASUREMENTS ARE TO BE FROM TOC OR ABOVE FFL UNLESS OTHERWISE SPECIFIED. - ALL LIGHT SWITCHES ARE TO BE 150mm AWAY FROM EDGE. DOOR FRAME UNPLASTERED WALL. OR CORNER OF BRICKWORK  
- ALL CONDUITS IN WALLS TO BE ø32mm WITH SLEEVES AT ALL 45° & 90° BENDS

#### NOTES

#### DRAWING APPROVAL

#### AMENDMENTS

| NO. | DATE | INITIALS | DESCRIPTION |
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PHASE  
TENDER

#### CLIENT



#### PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

#### DRAWING TITLE

ELUXOLWENI (PEARLY BEACH)  
PROPOSED BUILDING FLOOR PLAN,  
ELECTRICAL LAYOUT & DETAILS



UNIT 24, OEWERPARK  
ROKWOOD ROAD  
STELLENBOSCH  
7600

PO BOX 12861  
DIE BOORD  
7615  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY VF  
DESIGNED CHECKED FH

DRAWN BY MK  
DRAWING CHECKED VF

#### APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946

DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

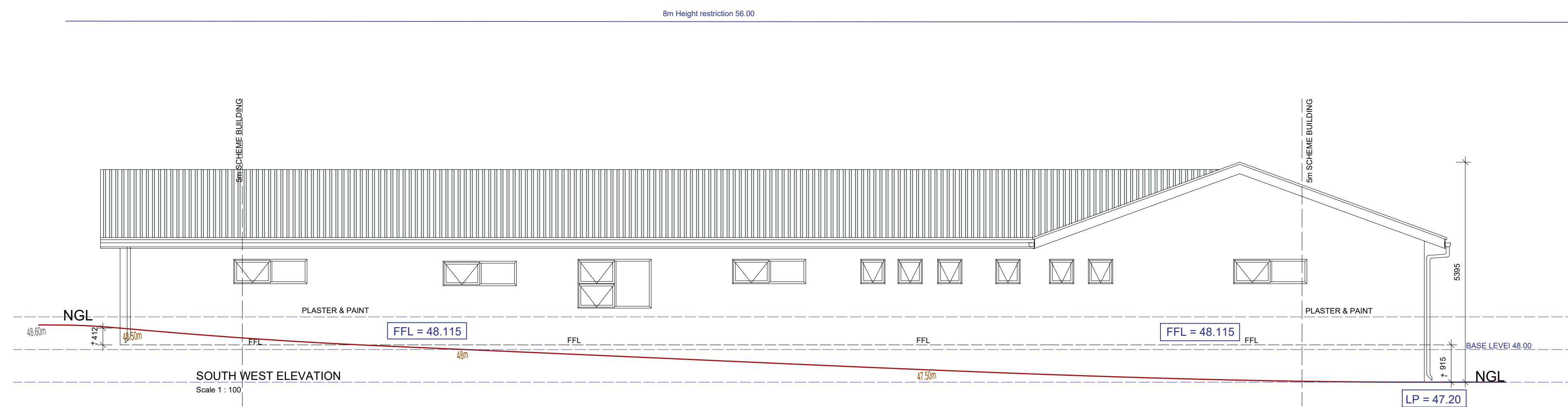
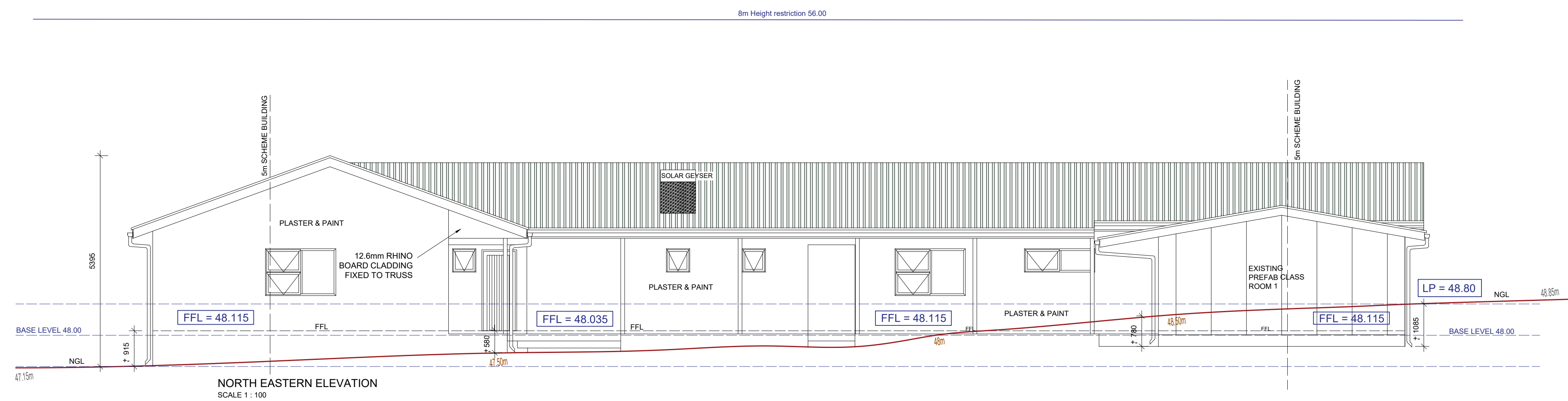
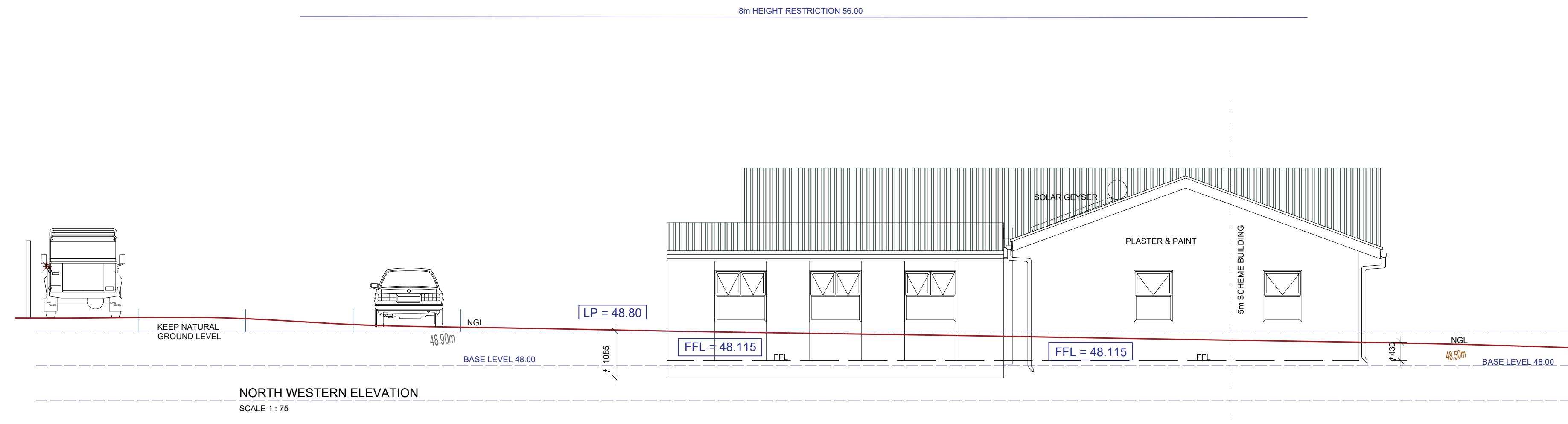
FILE NO.  
23-OVM-003/DRW/TENDER

SCALE  
AS SHOWN (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST609/00





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NOTES

## DRAWING APPROVAL

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PROJECT

# EXTENSION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

DRAWING TITLE

ELUXOLWENI (PEARLY BEACH)  
PROPOSED BUILDING ELEVATIONS  
(SHEET 1 OF 2)



|                                                             |                                                        |
|-------------------------------------------------------------|--------------------------------------------------------|
| UNIT 24, OEWERPARK<br>ROKEWOOD ROAD<br>STELLENBOSCH<br>7600 | PO BOX 12861<br>DIE BOORD<br>7613<br>TEL: 021 886 6895 |
|-------------------------------------------------------------|--------------------------------------------------------|

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| DESIGNED BY      | VF | DRAWN BY        | MK |
| DESIGNED CHECKED | FH | DRAWING CHECKED | VF |

APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946

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CONTRACT NO.  
SSC WC 1 (2024/2025)

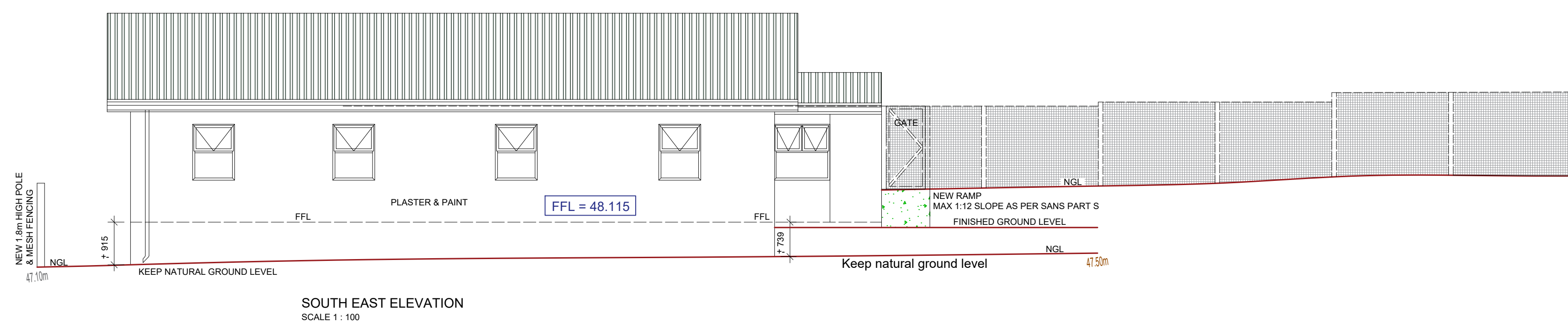
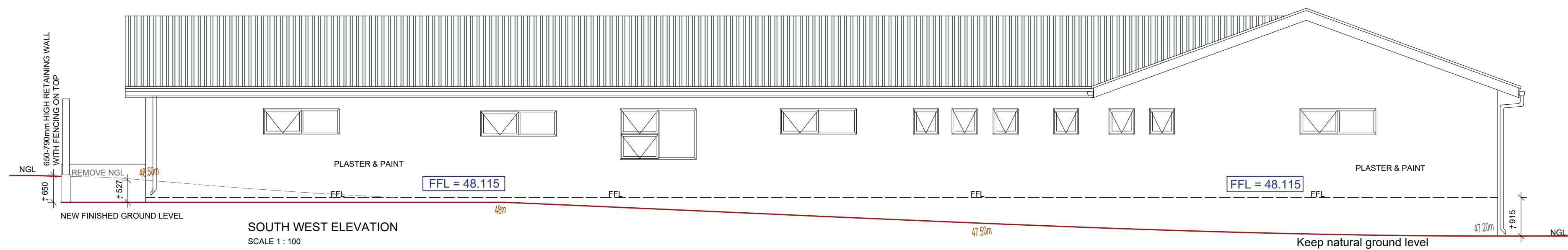
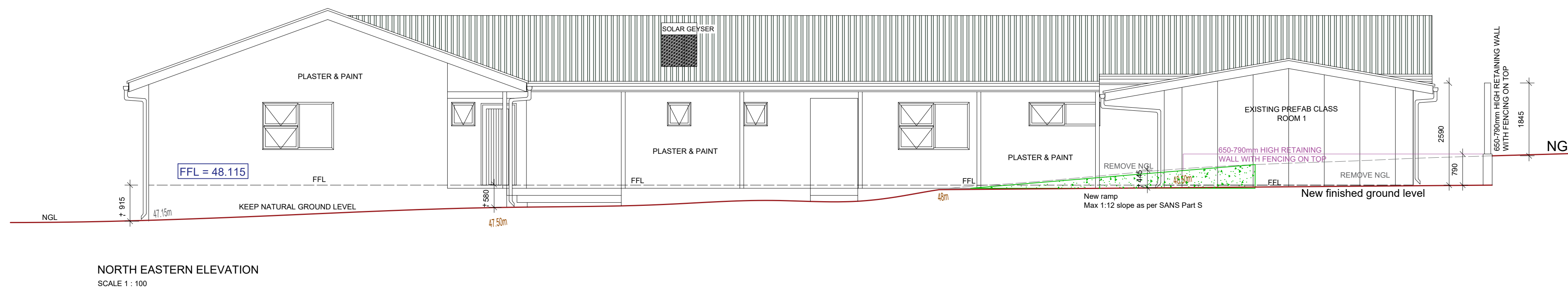
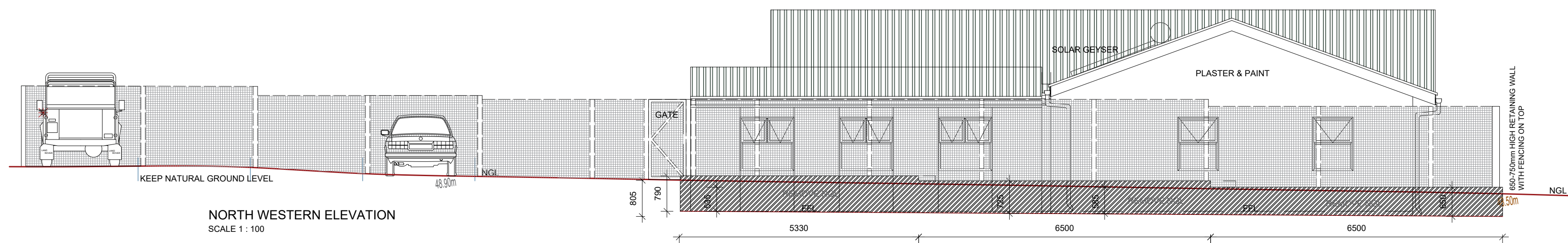
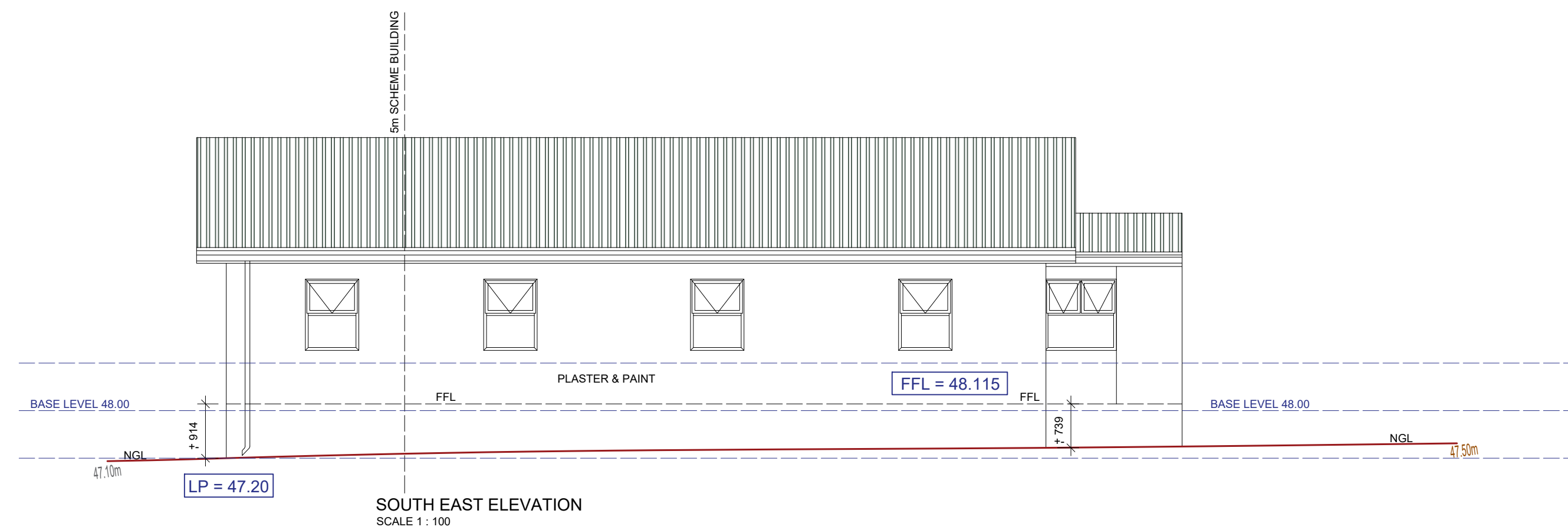
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APRIL 2024

DRAWING NO.  
23-OVM-003/ST610/00





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CLIENT



agriculture, land reform  
& rural development

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Department:  
Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA

## PROJECT

## EXTENSION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

DRAWING TITLE

ELUXOLWENI (PEARLY BEACH)  
PROPOSED BUILDING ELEVATIONS  
(SHEET 2 OF 2)



|                                                             |                                                        |
|-------------------------------------------------------------|--------------------------------------------------------|
| UNIT 24, OEWERPARK<br>ROKEWOOD ROAD<br>STELLENBOSCH<br>7600 | PO BOX 12861<br>DIE BOORD<br>7613<br>TEL: 021 886 6895 |
|-------------------------------------------------------------|--------------------------------------------------------|

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| DESIGNED BY      | VF | DRAWN BY        | MK |
| DESIGNED CHECKED | FH | DRAWING CHECKED | VF |

APPROVED BY

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SSC WC 1 (2024/2025)

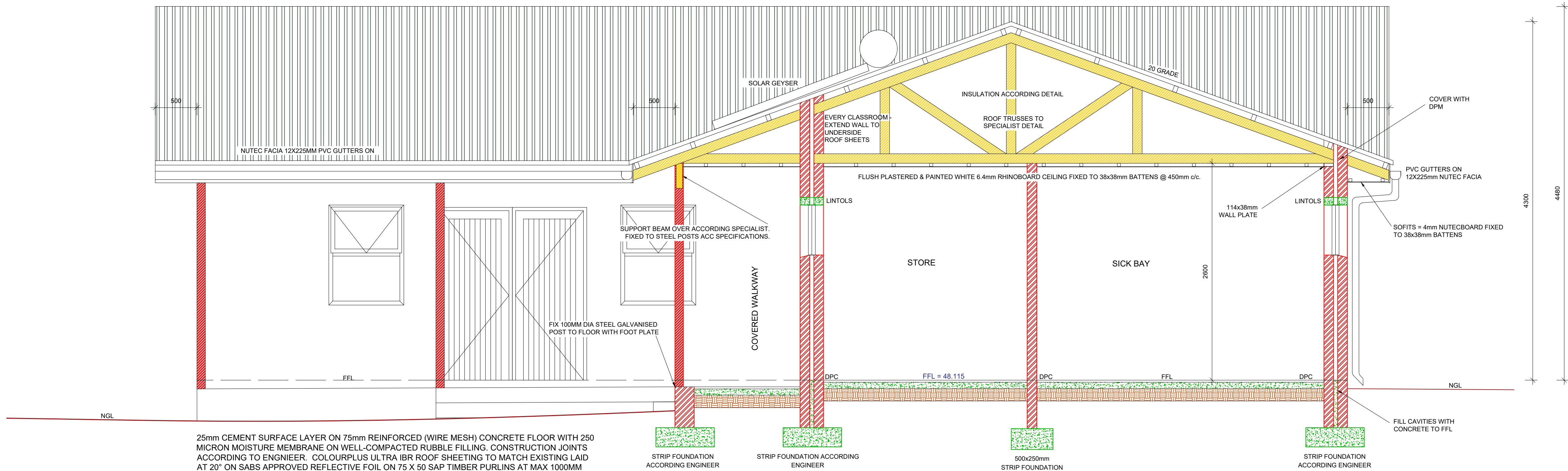
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DATE  
APRIL 2024

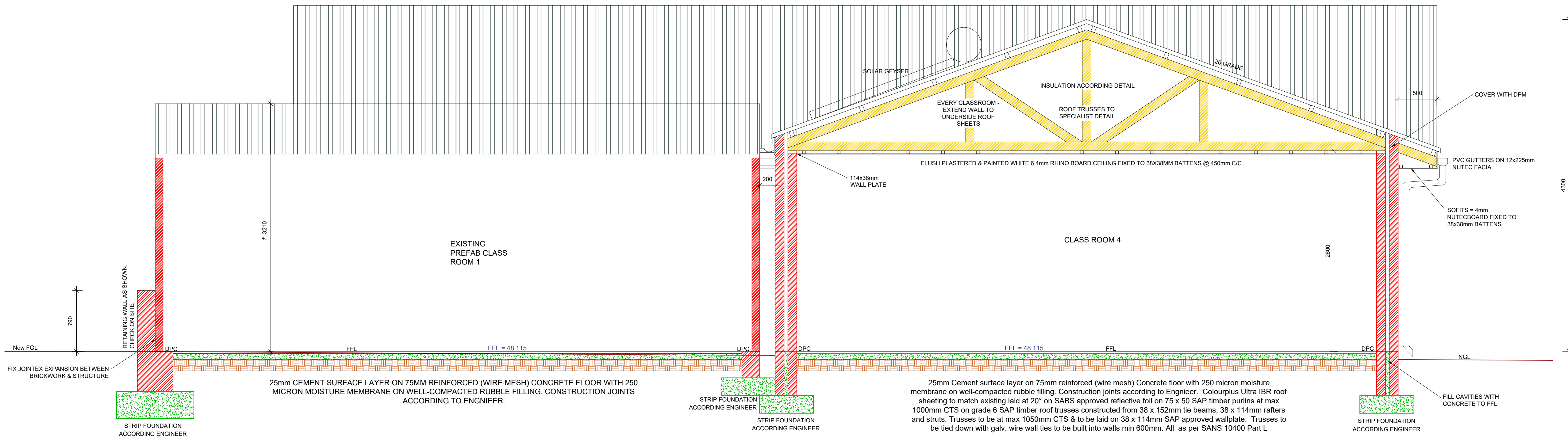
**DRAWING NO.**  
23-OVM-003/ST611/00





25mm CEMENT SURFACE LAYER ON 75mm REINFORCED (WIRE MESH) CONCRETE FLOOR WITH 250 MICRON MOISTURE MEMBRANE ON WELL-COMPACTED RUBBLE FILLING. CONSTRUCTION JOINTS ACCORDING TO ENGINEER. COLOURPLUS ULTRA IBR ROOF SHEETING TO MATCH EXISTING LAID AT 20° ON SABS APPROVED REFLECTIVE FOIL ON 75 X 50 SAP TIMBER PURLINS AT MAX 1000MM CTS ON GRADE 6 SAP TIMBER ROOF TRUSSES CONSTRUCTED FROM 38 X 152MM TIE BEAMS, 38 X 114MM RAFTERS AND STRUTS. TRUSSES TO BE AT MAX 1050MM CTS & TO BE LAID ON 38 X 114MM SAP APPROVED WALLPLATE. TRUSSES TO BE TIED DOWN WITH GALV. WIRE WALL TIES TO BE BUILT INTO WALLS MIN 600MM. ALL AS PER SANS 10400 PART L

SECTION A-A  
SCALE 1 : 30



25mm CEMENT SURFACE LAYER ON 75mm REINFORCED (WIRE MESH) CONCRETE FLOOR WITH 250 MICRON MOISTURE MEMBRANE ON WELL-COMPACTED RUBBLE FILLING. CONSTRUCTION JOINTS ACCORDING TO ENGINEER.

25mm Cement surface layer on 75mm reinforced (wire mesh) Concrete floor with 250 micron moisture membrane on well-compacted rubble filling. Construction joints according to Engineer. Colourplus Ultra IBR roof sheeting to match existing laid at 20° on SABS approved reflective foil on 75 x 50 SAP timber purlins at max 1000mm CTS on grade 6 SAP timber roof trusses constructed from 38 x 152mm tie beams, 38 x 114mm rafters and struts. Trusses to be at max 1050mm CTS & to be laid on 38 x 114mm SAP approved wallplate. Trusses to be tied down with galv. wire wall ties to be built into walls min 600mm. All as per SANS 10400 Part L

SECTION B-B  
SCALE 1 : 30

## NOTES

## DRAWING APPROVAL

## AMENDMENTS

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## PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

## DRAWING TITLE

ELUXOLWENI (PEARLY BEACH)  
PROPOSED BUILDING SECTIONS  
(SHEET 1 OF 2)



UNIT 24, OEWERPARK  
ROSEWOOD ROAD  
STELLENBOSCH  
7600  
PO BOX 12861  
DIE BOORD  
7615  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY VF DRAWN BY MK  
DESIGNED CHECKED FH DRAWING CHECKED VF

## APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946 DATE

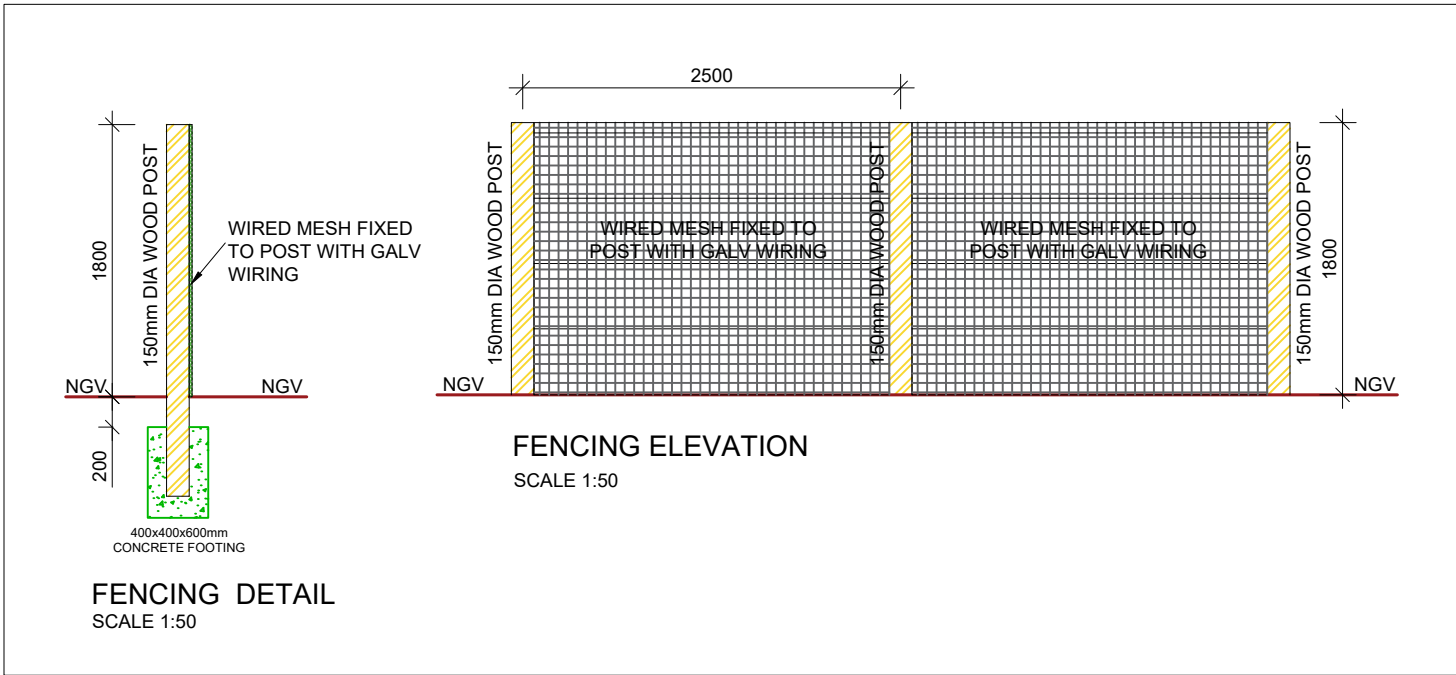
CONTRACT NO.  
SSC WC 1 (2024/2025)

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23-OVM-003/DRW/TENDER

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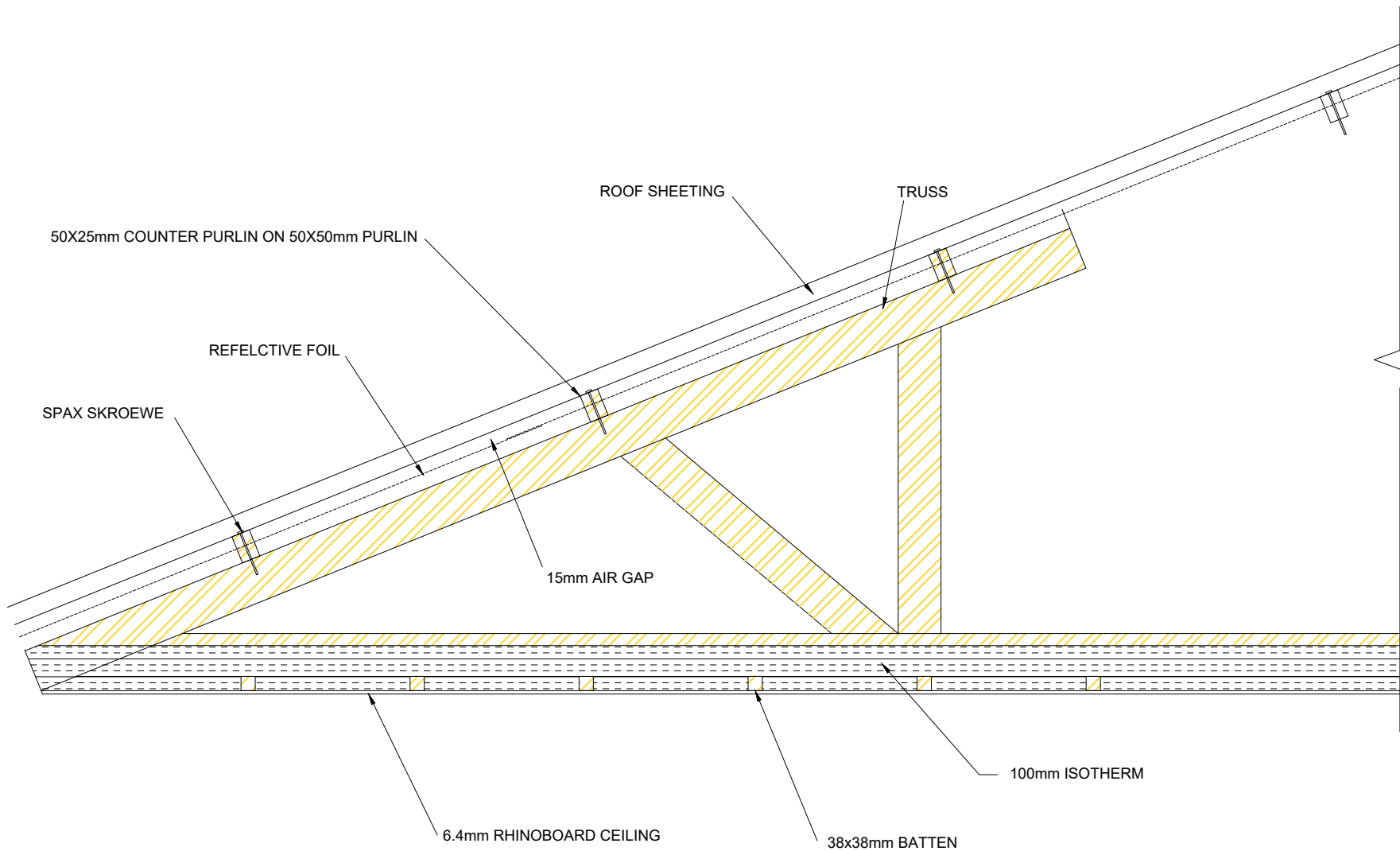
DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST612/00



FENCING DETAIL  
SCALE 1:50

FENCING ELEVATION  
SCALE 1:50



ROOF INSULATION DETAIL  
SCALE 1:16

WALL R - VALUE CALCULATION : BRICK

1. DOUBLE SKIN BRICKWORK WITH 50MM CAVITY PLASTER  
BOTH SIDES COMPLY WITH SANS10400 XA.

ROOF INSULATION :

ROOF 22° TO 45° PITCH WITH HORIZONTAL CEILING AND METAL CLADDING

|                                 |      |
|---------------------------------|------|
| Outdoor air film (7m/s)         | 0,03 |
| Metal Cladding                  | 0,00 |
| Roof air space (non-reflective) | 0,18 |
| Rhinoboard (6.4 mm)             | 0,04 |
| Indoor air film (still air)     | 0,11 |
| Total R-value                   | 0,36 |

Direction of flow of heat for zone 4 : Up

Min R-value needed : 3.7

Roof as above R-value = 0.36

Radenshield reflective foil laminate : R-value = 1.36

$3.7 - 0.36 - 1.36 = 1.98$  (insulation needed)

R value of insulation =  $1.98 \times 0.046\text{W/m.K}$  (SANS204 Table 10)

R = 0.091

Therefore 100mm Isotherm insulation required.

PIPE INSULATION :

Insulate hotwater pipes : Isover's Glasswool Geyser Pipe Insulation :

R-value = 1

Insulate hotwater cillinder : Isover's Glasswool Geyser blanket :

R-value = 1.25

DOOR SEALING :

External doors : Provide rubber seals around door frame to prevent air leakage.

NOTES

DRAWING APPROVAL

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| REVIEW |      |          |
| FINAL  |      |          |

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REVISION 00

PHASE  
WORKING

CLIENT



PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

ELUXOLWENI (PEARLY BEACH)  
PROPOSED BUILDING SECTIONS  
(SHEET 2 OF 2)



UNIT 24, OEWERPARK  
ROKEWOOD ROAD  
STELLENBOSCH  
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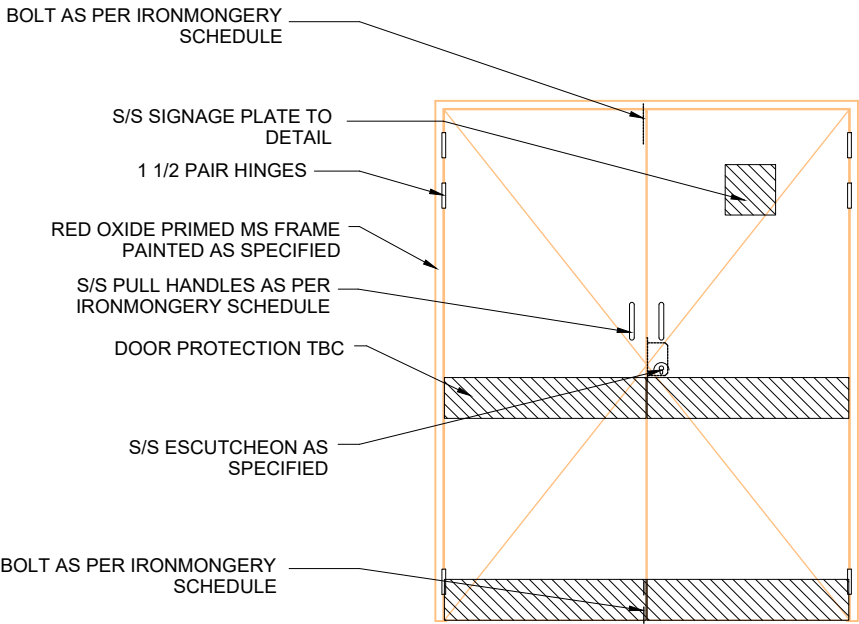
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| DRAWN BY         | MK |
| DESIGNED CHECKED | FH |
| DRAWING CHECKED  | VF |

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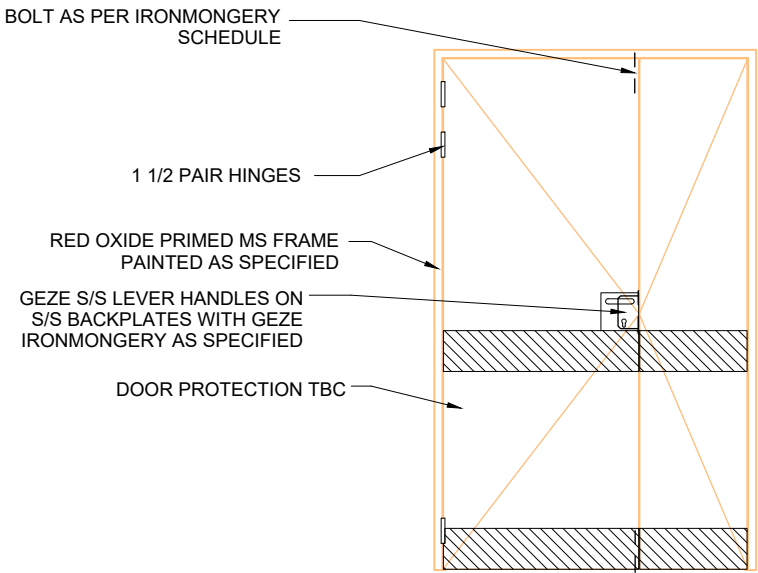
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DATE

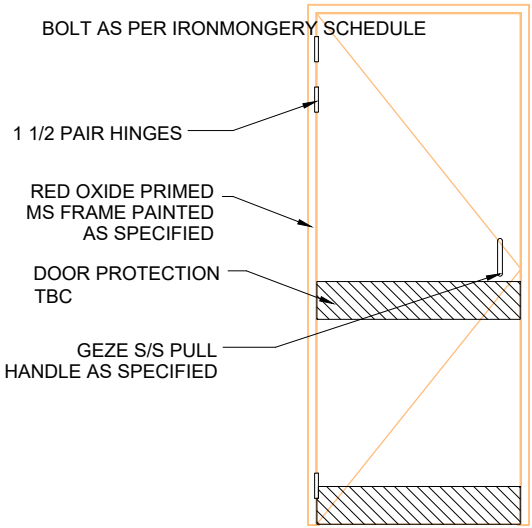
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| FILE NO.<br>23-OVM-003/DRW/TENDER    |
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| DATE<br>APRIL 2024                   |
| DRAWING NO.<br>23-OVM-003/ST608/00   |



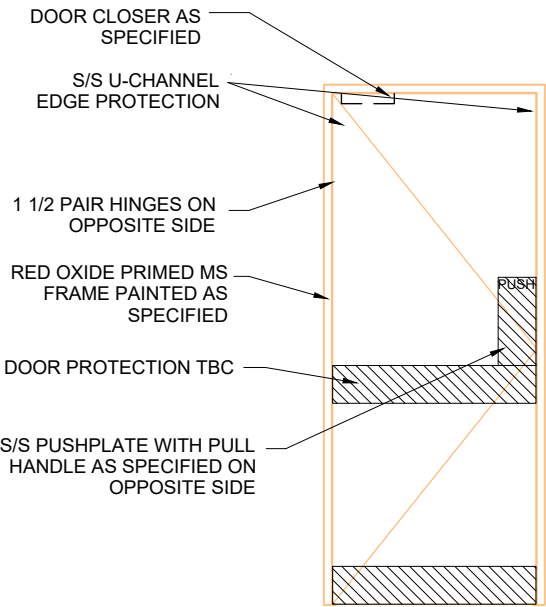
DB CUPBOARD



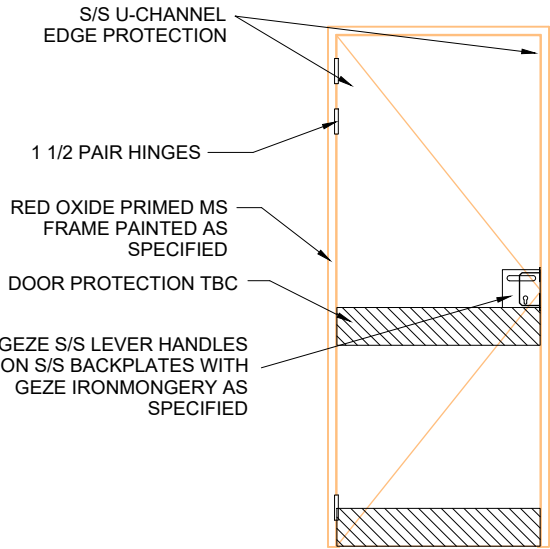
EQUIPMENT STORE



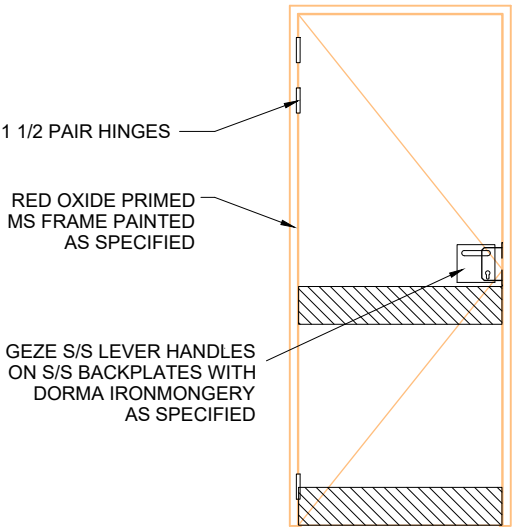
FHR CUPBOARD



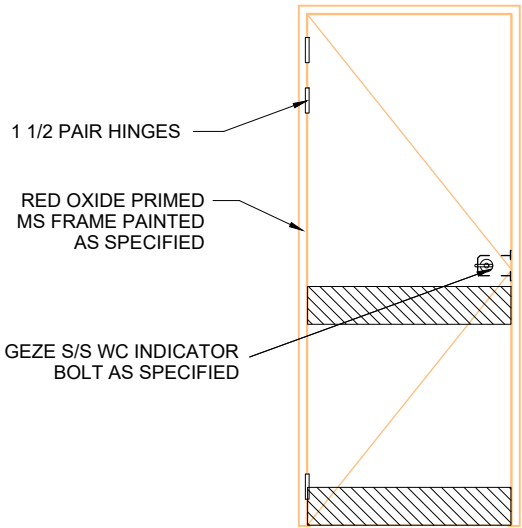
KITCHEN  
HMC/ SLUICE



DIRTY LINEN  
CLEAN LINEN  
CLEAN UTILITY



LOBBY ASSISTED  
SHR ASSISTED  
WC ASSISTED  
SHR/ WC OFFICE  
STAFF REST



STAFF WC EN  
SUITE

NOTES

DRAWING APPROVAL

|        | DATE | APPROVED |
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| DRAFT  |      |          |
| REVIEW |      |          |
| FINAL  |      |          |

AMENDMENTS

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REVISION 00

PHASE  
WORKING

CLIENT



PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

ELUXOLWENI (PEARLY BEACH)  
PROPOSED DOOR DETAILS



UNIT 24, OEWERPARK  
ROKEWOOD ROAD  
STELLENBOSCH  
7600  
PO BOX 12861  
DIE BOORD  
7613  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

|                  |    |
|------------------|----|
| DESIGNED BY      | VF |
| DRAWN BY         | MK |
| DESIGNED CHECKED | FH |
| DRAWING CHECKED  | VF |

APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946

DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

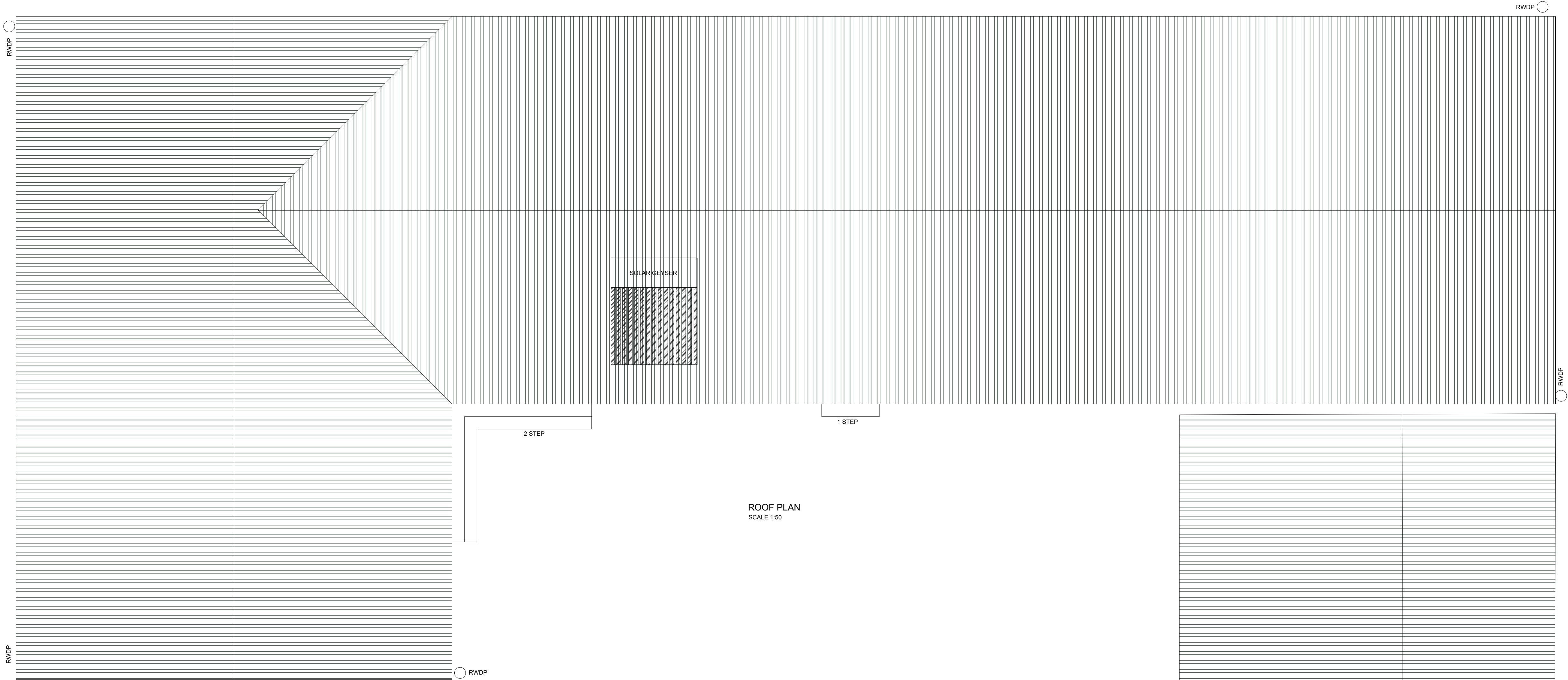
FILE NO.  
23-OVM-003/DRW/TENDER

SCALE  
AS SHOWN (A3)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST608/00





NOTES

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AMENDMENTS

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| REVISION | 00 | PHASE  |
|          |    | TENDER |

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PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

ELUXOLWENI (PEARLY BEACH)  
PROPOSED BUILDING ROOF LAYOUT



UNIT 24, OEWERPARK  
ROSEWOOD ROAD  
STELLENBOSCH  
7600  
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7615  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

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| DESIGNED CHECKED | FH | DRAWING CHECKED | VF |

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FD HARRIS - Pr Tech Eng - 2021300946      DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

FILE NO.  
23-OVM-003/DRW/TENDER

SCALE  
AS SHOWN (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST615/00



Procedure for evacuating building in case of fire:

- Step 1 - Notify occupants in other units.  
- Call Fire Services  
Step 2 - Exit building promptly and be calm  
- Do not stop to collect personal belongings.  
Step 3 - Head to Assembly Point  
- Do Headcount  
- Do not re-enter building and wait for Fire Services to arrive

If You Become Trapped Inside

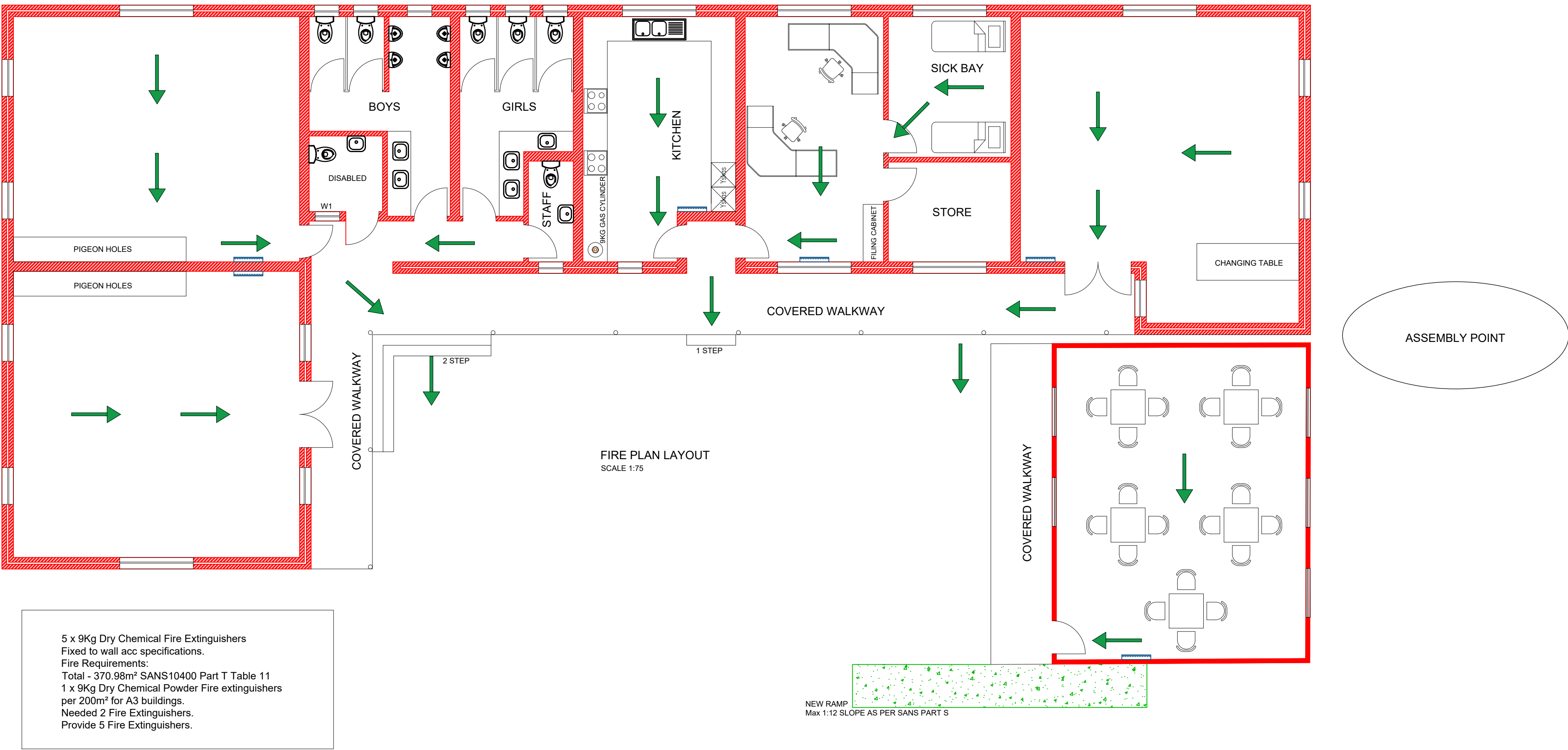
Try and get to a room with a window.  
If you're on the first floor, open a window and lower yourself to arm's length, then drop to the floor.  
**Never jump from a window** and make sure to first throw down some soft materials onto the ground outside.  
If you're too high up to attempt this, then use the window to call for help and also call Fire Services.  
Block the gaps under doors with materials such as clothing, bedding, towels etc. to prevent smoke from entering.  
If your clothes ever catch fire, don't run around as this will fan the flames; instead, remember:

- Stop
- Drop
- Roll

Stop immediately, drop to the ground and roll to smother the flames.

Fire safety according to SANS 10400 Part T

All equipment fitted with signs that comply with SANS1186-1 and 1m above item.  
Fire extinguishers according to SANS1910 and installed according to SANS1475-1 and SANS10105-1.  
Emergency Exit Signs - Provide Photo Luminescent Signs in all passages and above all doors.  
Provide Emergency lighting = Eurolux FS83: 4 hours duration on battery or similar in all classrooms & passages.  
Smoke alarm - provides smoke alarm in each classroom, common area and corridors according to EN14604.  
Classroom Exit doors provided with single-turn lock type.  
Provide 'Emergency Exit Plan' at the back of each door classrooms.



NOTES

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REVISION

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TENDER

CLIENT



PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

ELUXOLWENI (PEARLY BEACH)  
PROPOSED FIRE PLAN LAYOUT



UNIT 24, OEWERPARK  
ROSEWOOD ROAD  
STELLENBOSCH  
7600  
PO BOX 12861  
DIE BOORD  
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TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY VF DRAWN BY MK  
DESIGNED CHECKED FH DRAWING CHECKED VF

APPROVED BY

FD HARRIS - Pr Tech Eng - 2021300946 DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

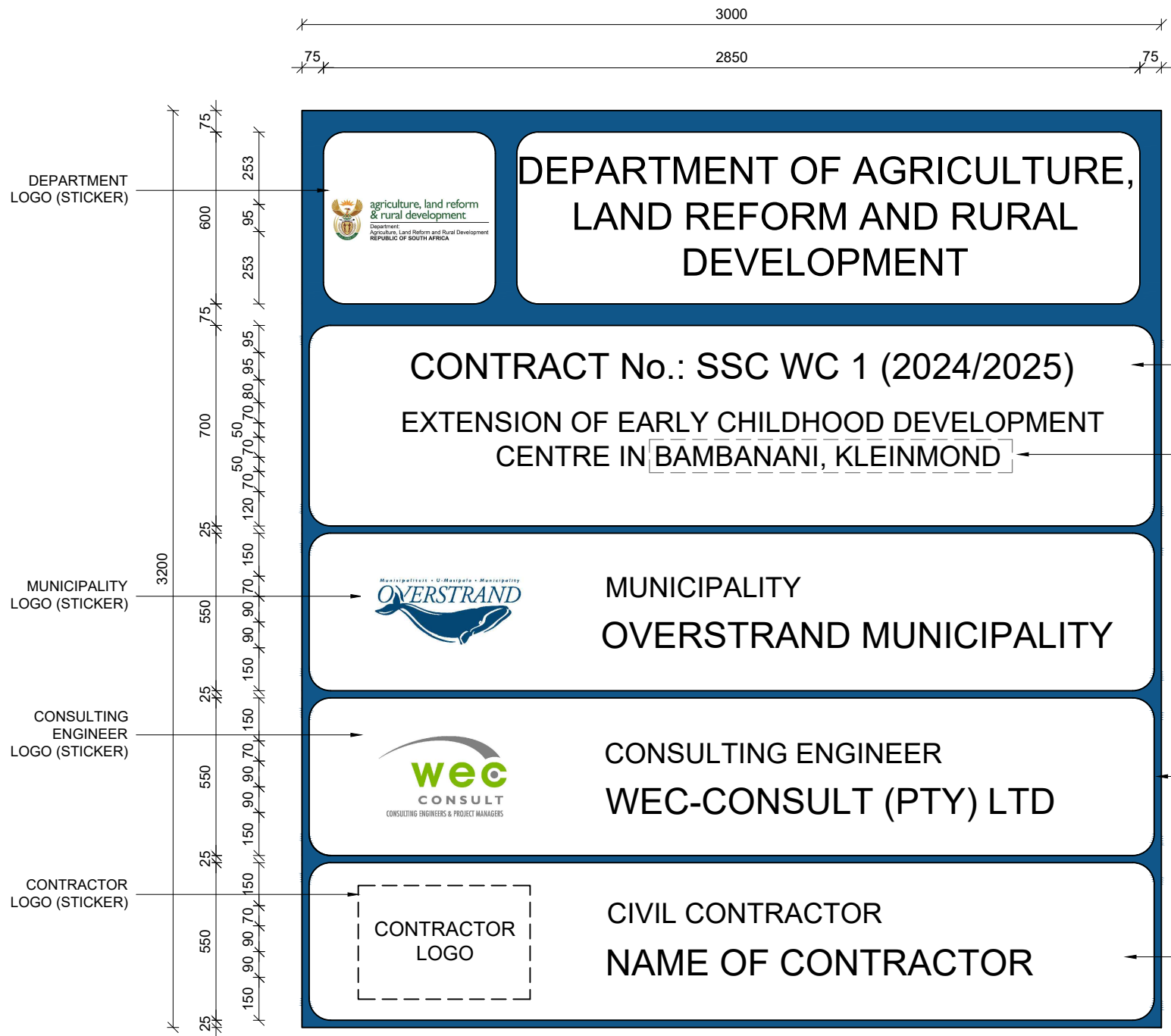
FILE NO.  
23-OVM-003/DRW/TENDER

SCALE  
AS SHOWN (A1)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/ST616/00





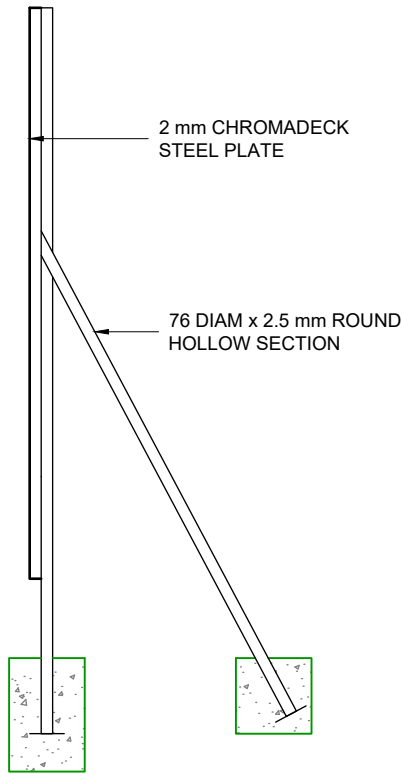
NAMEBOARD DETAIL  
SCALE 1:20

OXFORD BLUE LETTERING ON  
WHITE BACKGROUND

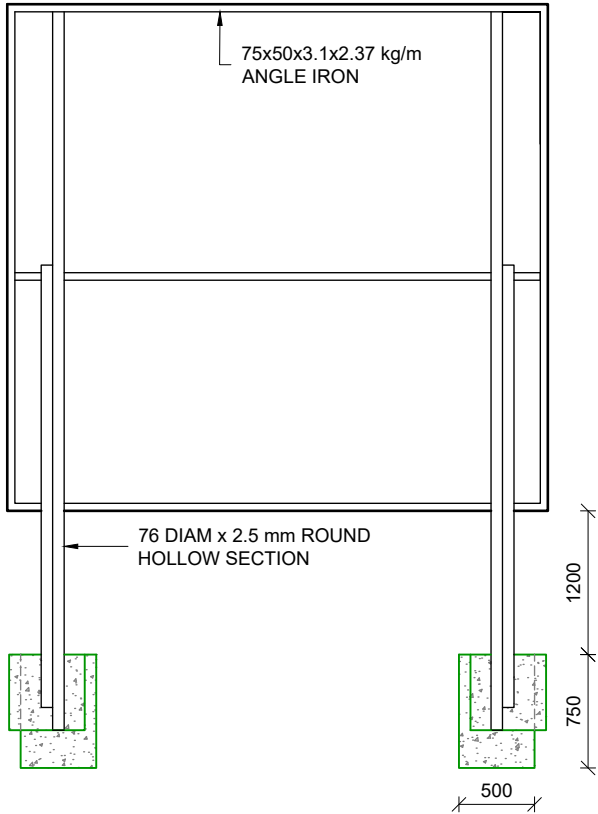
PROJECT NAMEBOARD WORDING  
TO BE SPECIFIC TO SITE LOCATION:  
- BAMBANANI, KLEINMOND  
- MASKHANE, GANSBAAI  
- ELUXOLWENI, PEARLY BEACH  
\*GRAY DASHED LINE ONLY FOR  
INDICATION PURPOSES.

2 mm CHROMADECK  
STEEL PLATE

OXFORD BLUE LETTERING ON  
WHITE BACKGROUND



NAMEBOARD SIDE ELEVATION  
SCALE 1:50



NAMEBOARD BACK ELEVATION  
SCALE 1:50

NOTES

DRAWING APPROVAL

AMENDMENTS

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REVISION 00 PHASE TENDER

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PROJECT

DRAWING TITLE

CONTRACT NAMEBOARD DETAIL

DESIGNED BY WN

DRAWN BY WN

DESIGNED CHECKED NvdM

DRAWING CHECKED JB

APPROVED BY

NE Vd MERWE - PrENG - 20120187

DATE

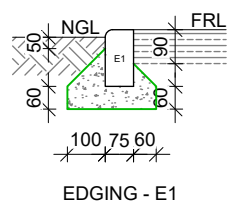
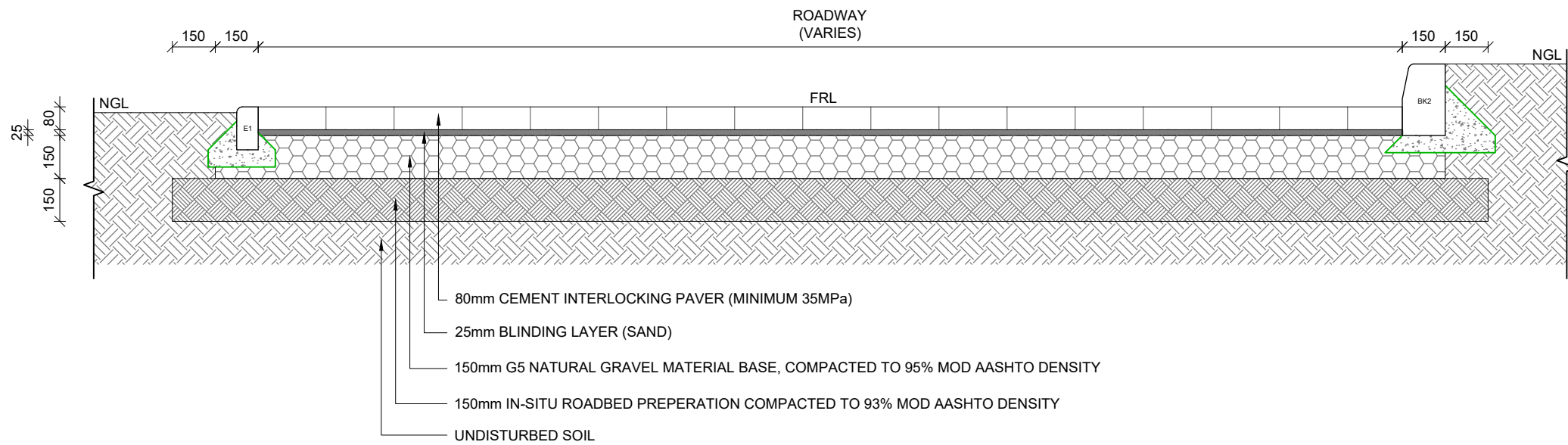
CONTRACT NO. SSC WC 1 (2024/2025)

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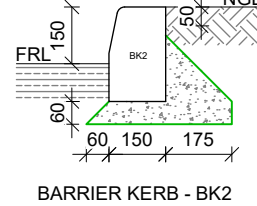
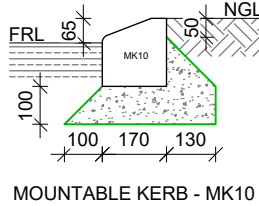
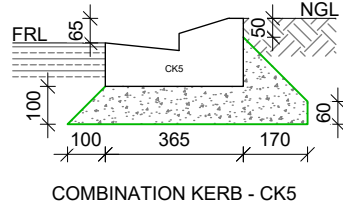
SCALE AS SHOWN (A3)

DATE APRIL 2024

DRAWING NO. 23-OVM-003/G701/00



TYPICAL KERB DETAIL  
SCALE 1:20



## NOTES

## DRAWING APPROVAL

## AMENDMENTS

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REVISION 00

PHASE  
TENDER

## CLIENT



agriculture, land reform  
& rural development

Department:  
Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA

## PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

## DRAWING TITLE

TYPICAL CROSS SECTION  
AND KERB DETAILS



UNIT 24, OEWERPARK  
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TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

|                  |      |
|------------------|------|
| DESIGNED BY      | WN   |
| DRAWN BY         | WN   |
| DESIGNED CHECKED | NvdM |
| DRAWING CHECKED  | JB   |

## APPROVED BY

NE Vd MERWE - PrENG - 20120187

DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

FILE NO.  
23-OVM-003/DRW/TENDER

SCALE  
AS SHOWN (A3)

DATE  
APRIL 2024

DRAWING NO.  
23-OVM-003/G702/00

## NOTES

- ALL MANHOLE COVERS SHALL BE GREY IRON COVER AND FRAME TYPE 2A.
- HINGED MANHOLE COVERS SITUATED IN THE ROAD SHALL OPEN TOWARDS ONCOMING TRAFFIC.
- MANHOLE COVER LEVEL:
  - ROADWAY OR FOOTWAY: LEVEL WITH FRL/FSL.
  - OPEN SPACES: 500mm ABOVE NGL (UNLESS DIRECTED OTHERWISE).
- CHIMNEY OPENING TO BE PLACED AS CLOSE TO CENTER LINE OF THE MAIN INCOMING AND OUTGOING PIPE AS POSSIBLE.
- BRICKWORK: BURNT CLAY MASONRY UNITS TO SANS 277: CONCRETE MASONRY UNITS TO SANS 1215; NOMINAL COMPRESSIVE STRENGTH 21 MPa.
- ALL INTERNAL BRICKWORK TO HAVE SMOOTH FINISH (12mm PLASTERED WITH 1:3 MORTAR).
- MANHOLES MUST CATER FOR ANY SITE-SPECIFIC GROUND CONDITIONS. SHOULD THE MANHOLE DESIGN REQUIRE ALTERATIONS/AMENDMENTS FOR SUCH CONDITIONS, THE DESIGN MUST BE DISCUSSED WITH THE APPROVAL AUTHORITY.

## DRAWING APPROVAL

## AMENDMENTS

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## CLIENT



**agriculture, land reform  
& rural development**  
Department:  
Agriculture, Land Reform and Rural Development  
REPUBLIC OF SOUTH AFRICA

## PROJECT

EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND PEARLY  
BEACH

## DRAWING TITLE

TYPICAL STORMWATER DETAILS



UNIT 24, OEWERPARK PO BOX 12861  
ROKEWOOD ROAD DIE BOORD  
7613  
7600 TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

DESIGNED BY WN DRAWN BY WN  
DESIGNED CHECKED NvM DRAWING CHECKED JB

## APPROVED BY

NE Vg MERWE - P/ENG - 20120187 DATE

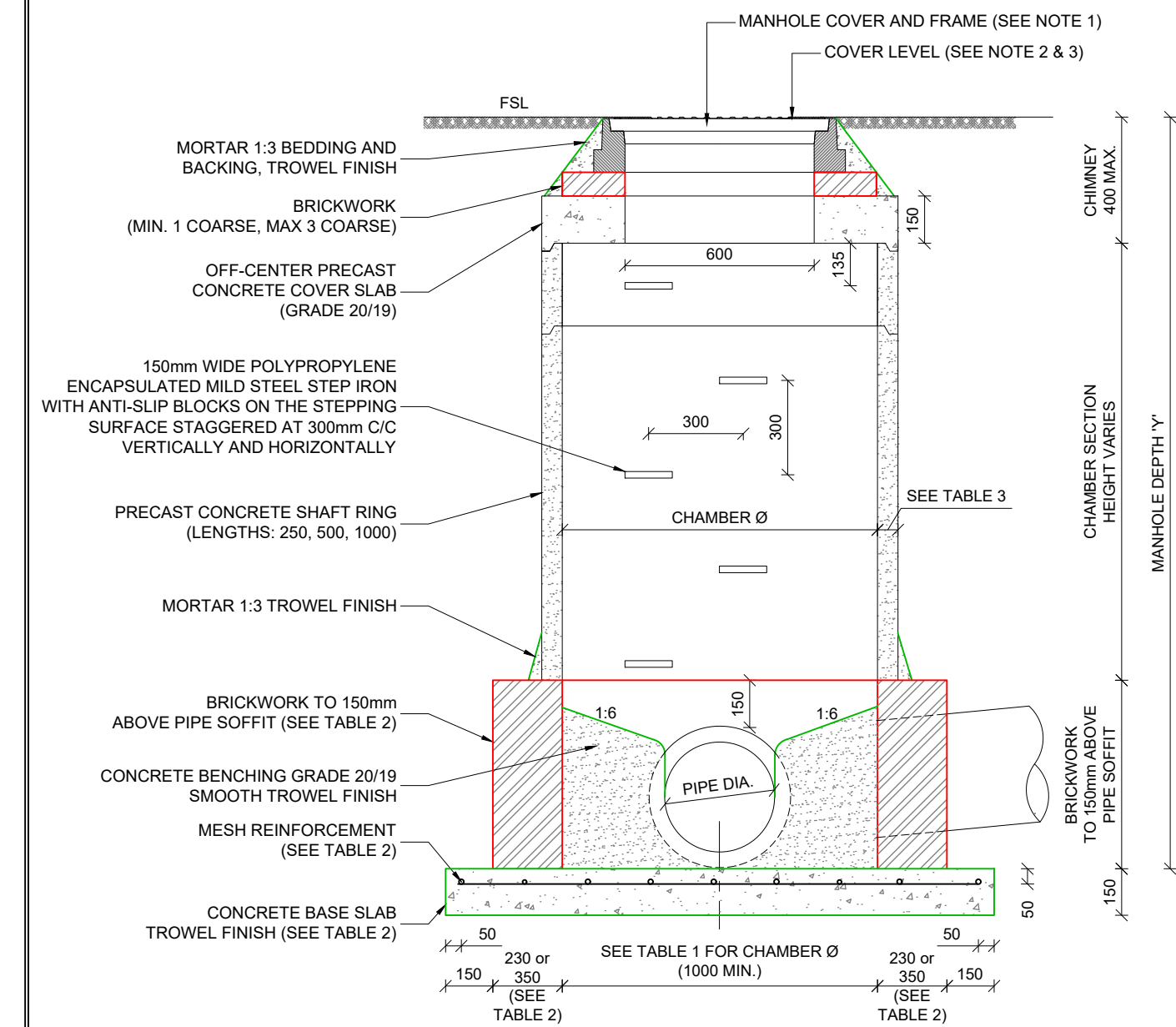
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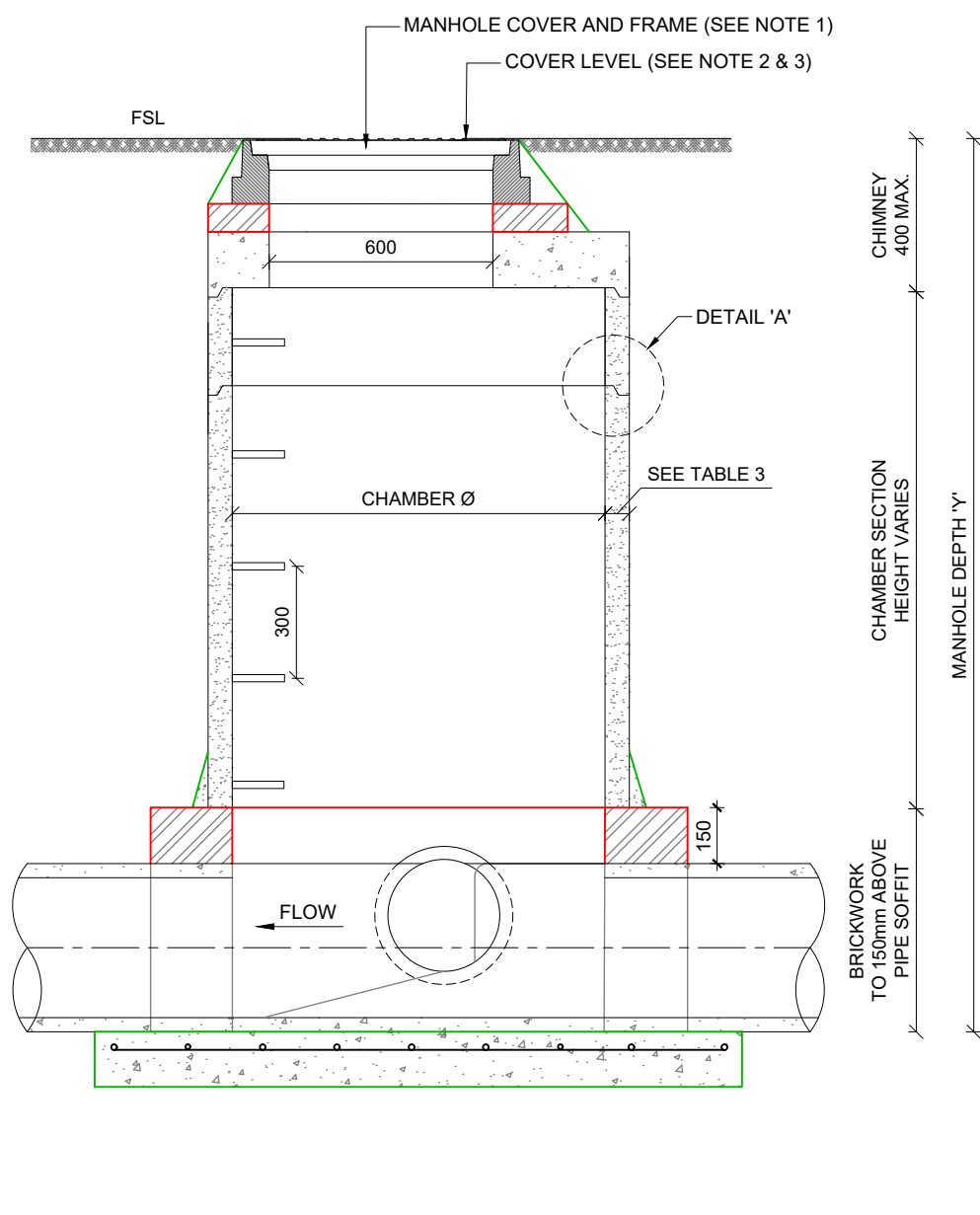
SCALE  
1:20 (A1)

DATE  
APRIL 2024

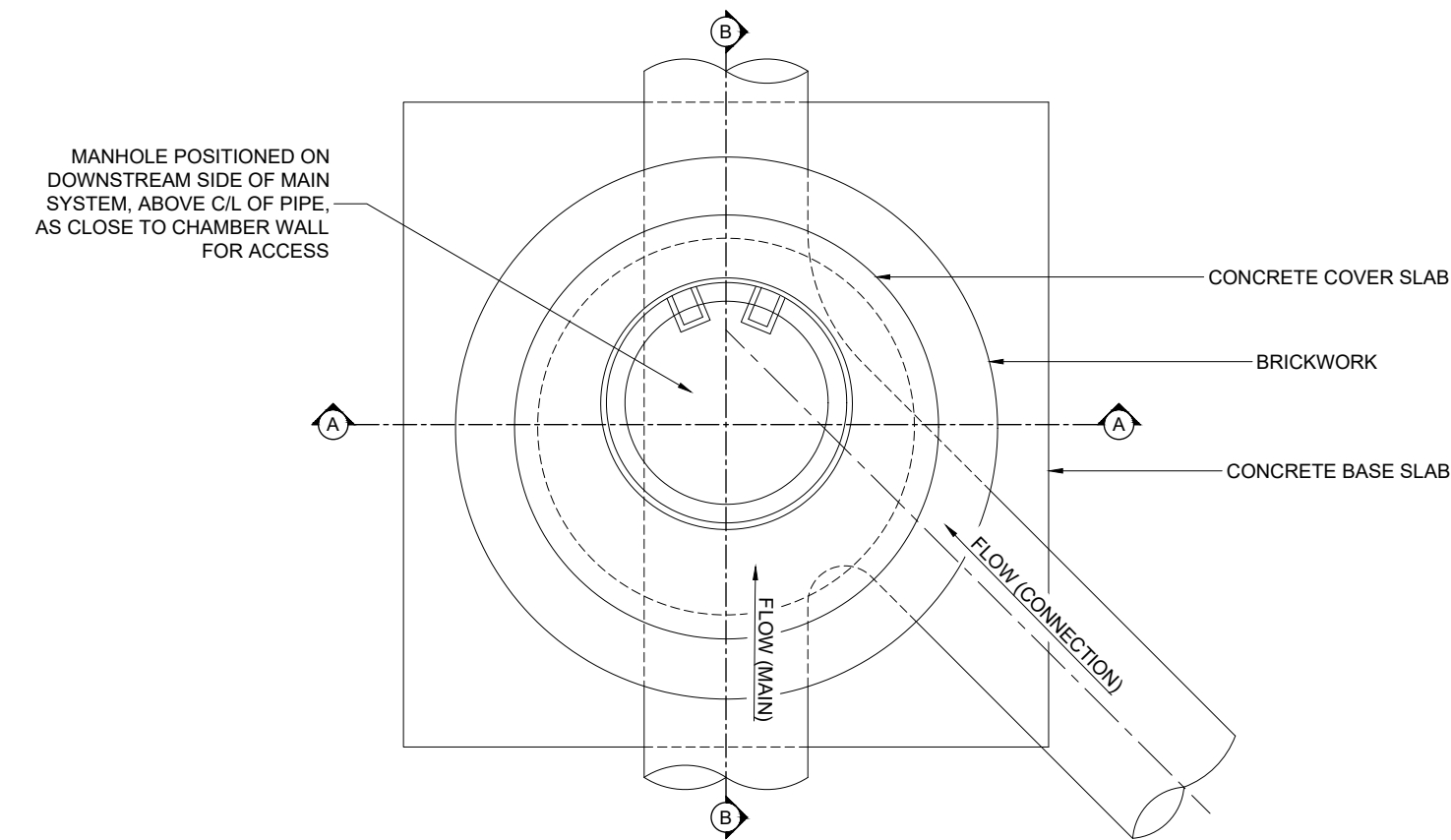
DRAWING NO.  
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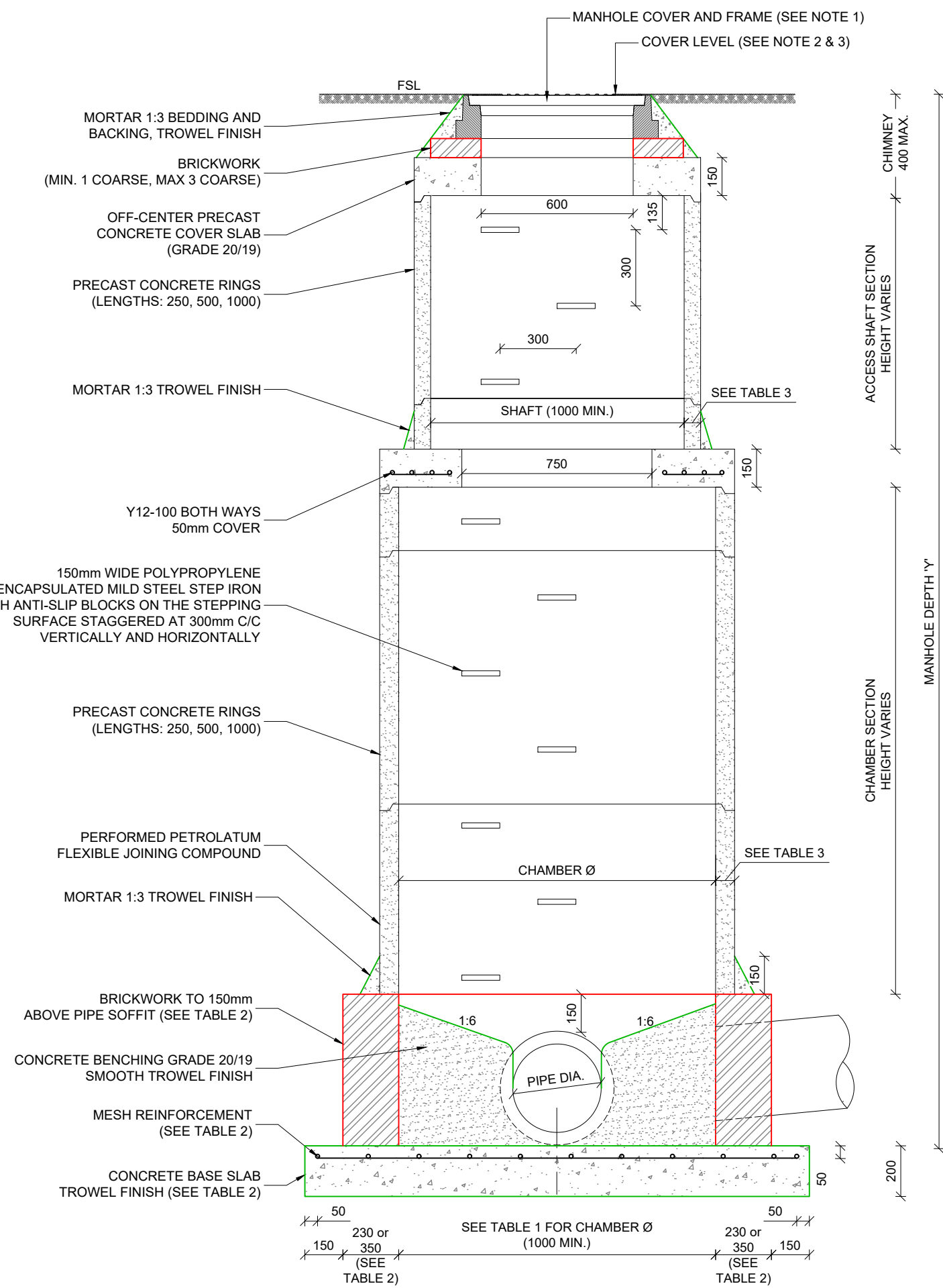
TYPICAL STORMWATER MANHOLE (SHALLOW) - SECTION A-A  
SCALE 1:20



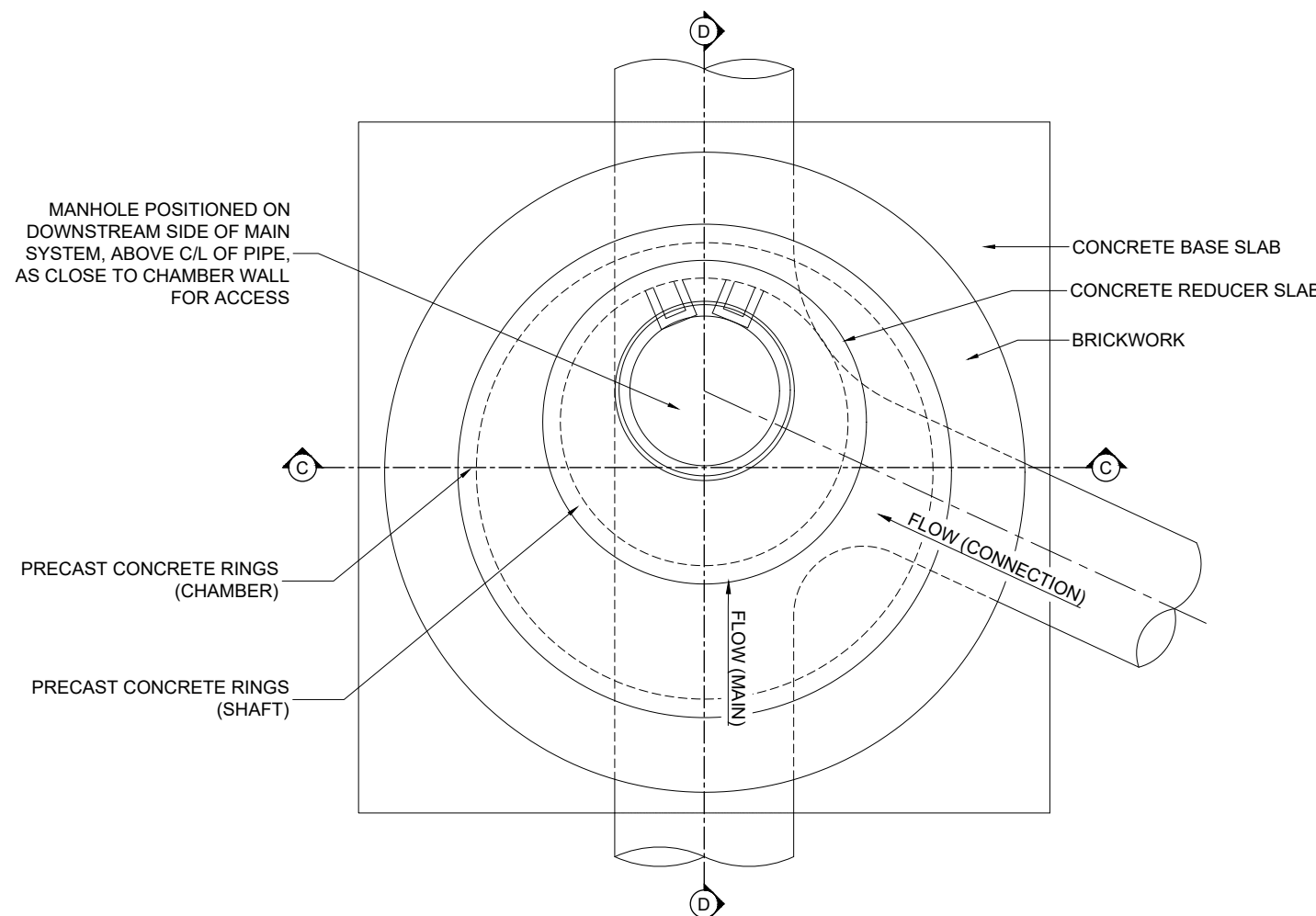
TYPICAL STORMWATER MANHOLE (SHALLOW) - SECTION B-B  
SCALE 1:20



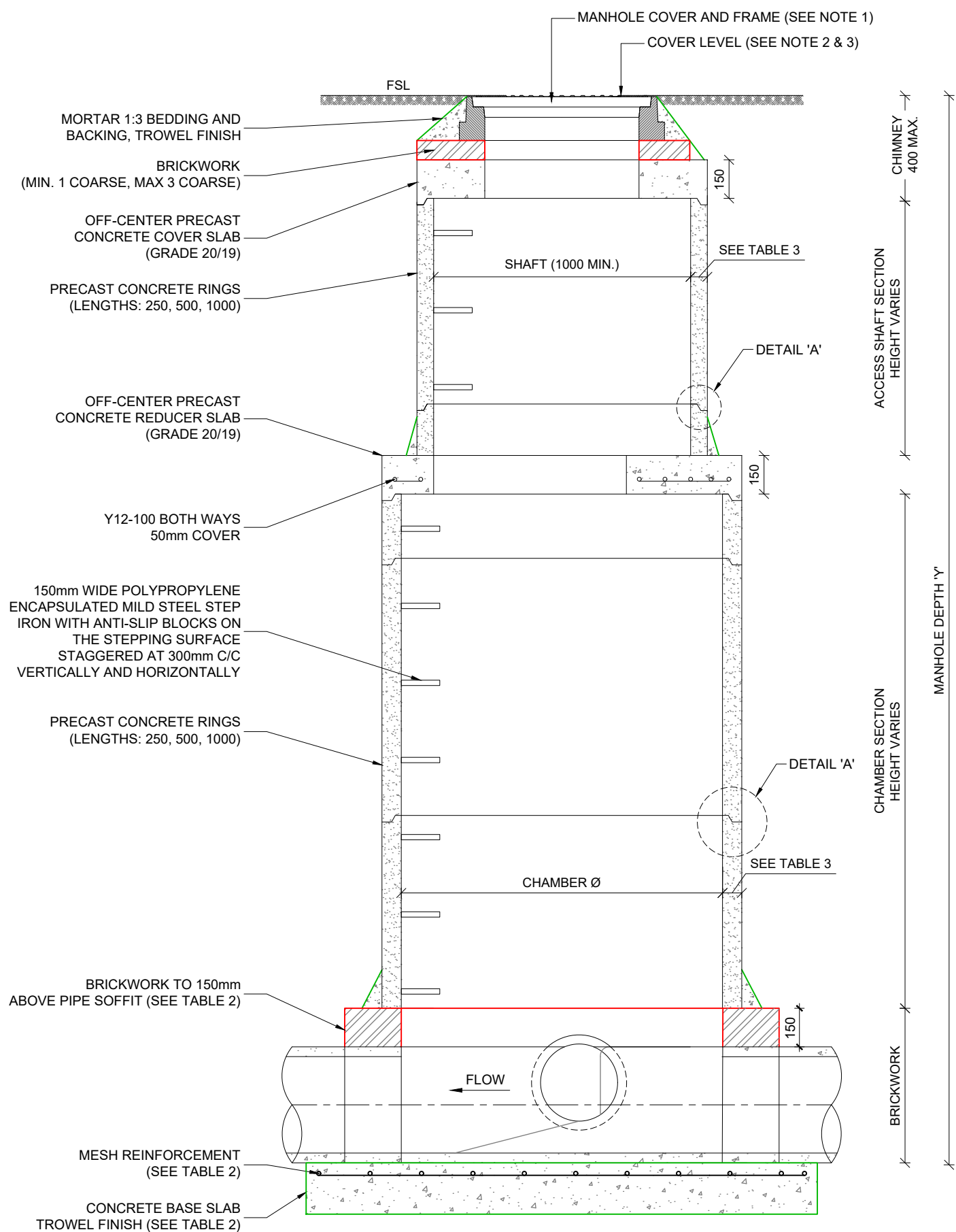
TYPICAL STORMWATER MANHOLE (SHALLOW) - PLAN VIEW  
SCALE 1:20



TYPICAL STORMWATER MANHOLE (DEEP) - SECTION C-C  
SCALE 1:20



TYPICAL STORMWATER MANHOLE (DEEP) - PLAN VIEW  
SCALE 1:20

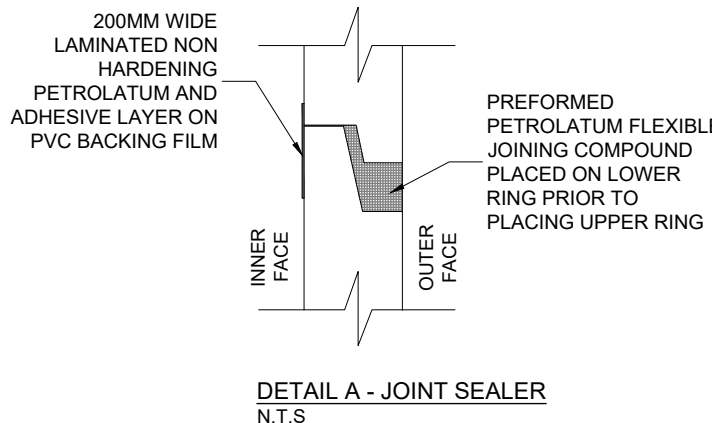


TYPICAL STORMWATER MANHOLE (DEEP) - SECTION D-D  
SCALE 1:20

| TABLE 1: MANHOLE SIZING |               |           |       |
|-------------------------|---------------|-----------|-------|
| NOM. PIPE DIAM.<br>(mm) | DEPTH "Y" (m) |           |       |
|                         | Y<2.5         | 2.5<Y<4.0 | Y>4.0 |
| CHAMBER DIAMETER (mm)   |               |           |       |
| 375                     | 1000          | 1250      | 1500  |
| 450                     |               |           |       |
| 525                     |               |           |       |
| 600                     | 1250          |           |       |
| 675                     |               |           |       |
| 750                     |               |           |       |
| 825                     | 1500          | 1500      |       |
| 900                     |               |           |       |
| 1050                    |               |           |       |
| 1200                    | 1800          | 1800      | 1800  |
| 1350                    | 1950          | 1950      | 1950  |

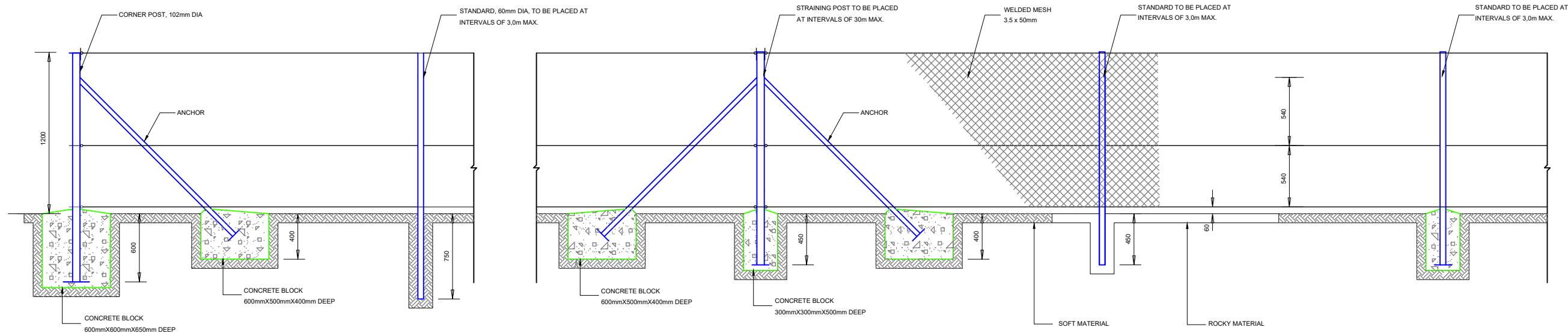
| TABLE 2: BRICKWORK & FLOOR/BASE SLAB |                |                  |                |             |
|--------------------------------------|----------------|------------------|----------------|-------------|
| DEPTH "Y" (m)                        | BRICKWORK (mm) | BASE/ FLOOR SLAB |                |             |
|                                      |                | THICKNESS(mm)    | CONCRETE GRADE | REINFORCING |
| Y<2.5                                | 220            | 150              | 20/19          | NONE        |
| 2.5<Y<4.0                            | 330            | 200              | 20/19          | MESH 311    |
| Y>4.0                                | 330            | 250              | 25/19          | MESH 395    |

| TABLE 3: PRECAST CONCRETE RING: MINIMUM WALL THICKNESS |                |
|--------------------------------------------------------|----------------|
| RING DIAMETER                                          | WALL THICKNESS |
| 1000                                                   | 65             |
| 1250                                                   | 75             |
| 1500                                                   | 85             |
| 1800                                                   | 95             |
| 1950                                                   | 115            |

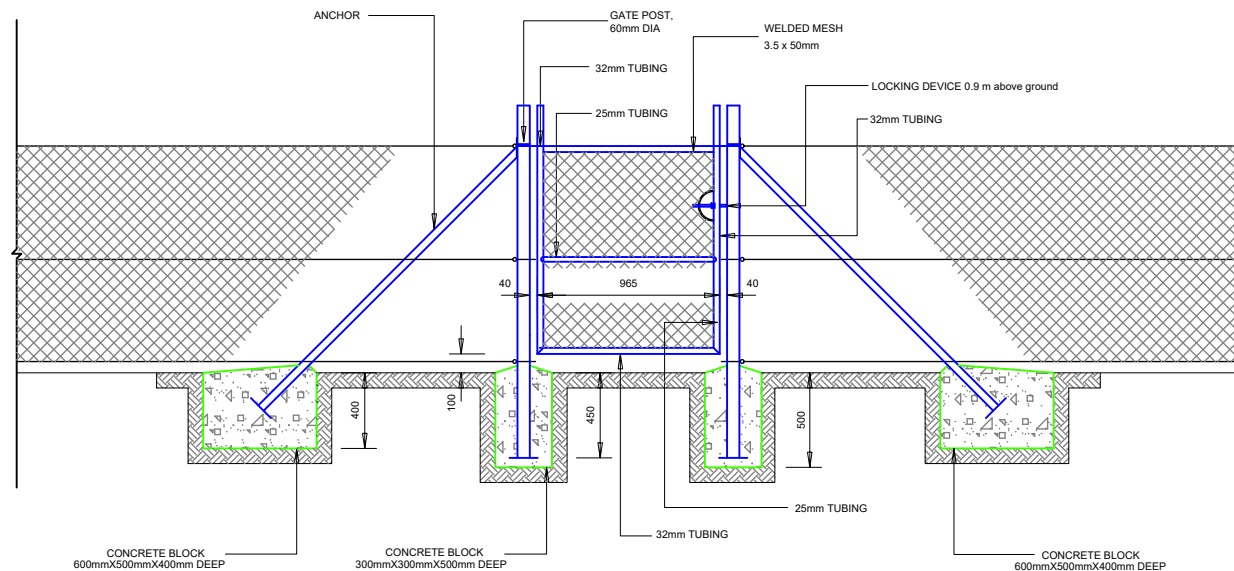


DETAIL A - JOINT SEALER  
N.T.S

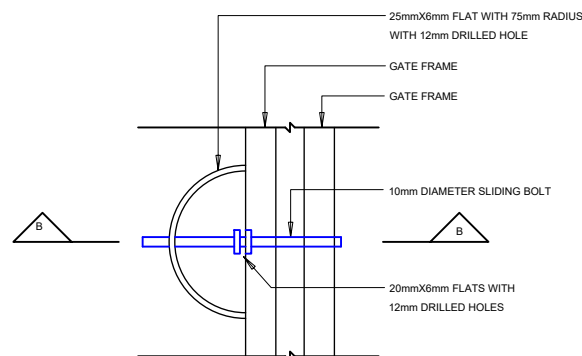




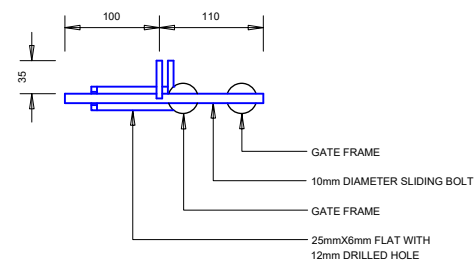
1,20m HIGH SECURITY FENCE  
SCALE 1:14



SINGLE GATE FOR 1,20m HIGH  
SECURITY FENCE



LOCKING DEVICE FOR SINGLE GATE



SECTION BB

NOTES

DRAWING APPROVAL

AMENDMENTS

| NO. | DATE | BY | DESCRIPTION |
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REVISION 00 PHASE  
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PROJECT  
EXTENSION OF EARLY CHILDHOOD  
DEVELOPMENT CENTRES IN  
KLEINMOND, GANSBAAI AND  
PEARLY BEACH

DRAWING TITLE

TYPICAL FENCING DETAILS



UNIT 24, OEWEERPARK  
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DIE BOORD  
7613  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

|                  |      |
|------------------|------|
| DESIGNED BY      | WN   |
| DRAWN BY         | WN   |
| DESIGNED CHECKED | NvdM |
| DRAWING CHECKED  | JB   |

APPROVED BY

NE Vd MERWE - PreNG - 20120187

DATE

CONTRACT NO.  
SSC WC 1 (2024/2025)

FILE NO.  
23-OVM-003/DRW/TENDER

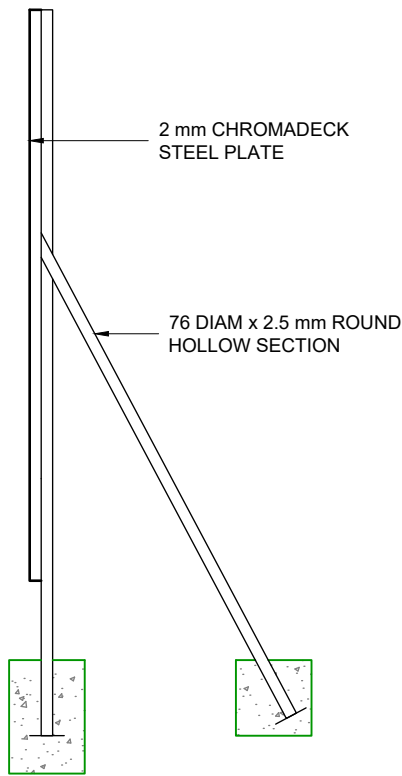
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AS SHOWN (A3)

DATE  
APRIL 2024

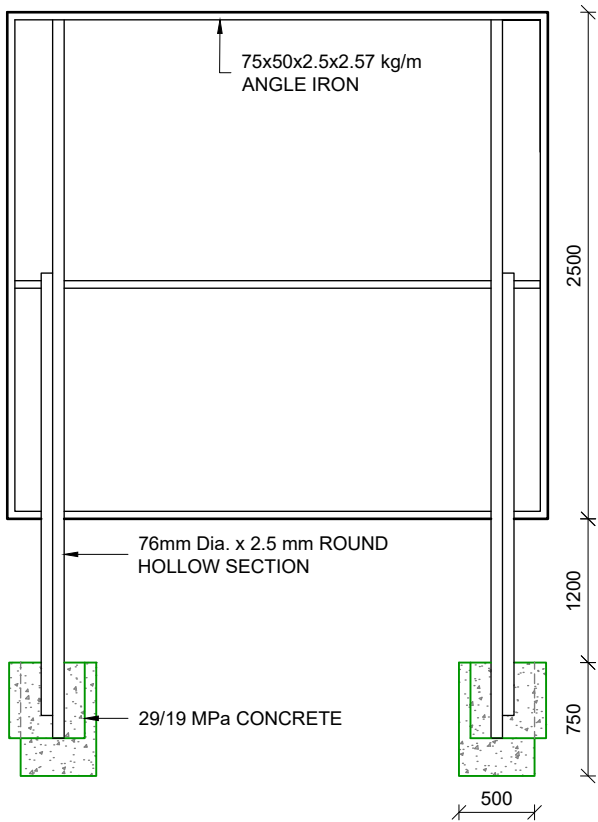
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23-OVM-003/G704/00



PERMANENT NAMEBOARD DETAIL  
SCALE 1:20



NAMEBOARD SIDE ELEVATION  
SCALE 1:50



NAMEBOARD BACK ELEVATION  
SCALE 1:50

NOTES

1. MATERIAL OF THE NAMEBOARD TO BE REFLECTIVE eg. STOP SIGN QUALITY

2. THE VINYL QUALITY TO BE 5-7 YEAR DURABILITY - ALSO REFLECTIVE

3. ALL STEEL SECTIONS TO BE HOT DIPPED GALVANISED

DRAWING APPROVAL

AMENDMENTS

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REVISION

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PROJECT

EXTENSION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH

DRAWING TITLE

PERMANENT NAMEBOARD DETAIL

CONSULTING ENGINEERS & PROJECT MANAGERS

UNIT 24, OEWERPARK  
ROKEWOOD ROAD  
STELLENBOSCH  
7600  
PO BOX 12861  
DIE BOORD  
7613  
TEL: 021 886 6895  
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA

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| DRAWN BY         | WN |
| DESIGNED CHECKED | VF |
| DRAWING CHECKED  | VF |

APPROVED BY

NE Vd MERWE - PrENG - 20120187

DATE

CONTRACT NO.

SSC WC 1 (2024/2025)

FILE NO.

23-OVM-003/DRW/TENDER

SCALE

AS SHOWN (A3)

DATE

APRIL 2024

DRAWING NO.

23-OVM-003/G705/00