

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



PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE DEPARTMENT OF AGRICULTURE, LAND REFORM & RURAL DEVELOPMENT							
BID NUMBER: SSC W	VC 1 (2024/2025) DALRRD			30 April 2024		SING TIME: 11:00	
	DESCRIPTION APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE					RES IN	
BID RESPONSE DOCUM	MENTS MAY BE DEPOSITE	D IN THE BID	BOX SITUAT	ED AT			
14 Long Street							
Cape Town							
8000							
BIDDING PROCEDURE	ENQUIRIES MAY BE DIREC	TED TO	TECHNICAL	ENQUIRIES MA	Y BE DIR	ECTED TO:	
CONTACT PERSON	Mzubanzi Mntumni		CONTACT F	PERSON		Mac Nodliwa	
TELEPHONE NUMBER	021 409 0523		TELEPHON	E NUMBER		021 409 0300	
FACSIMILE NUMBER			FACSIMILE	NUMBER			
E-MAIL ADDRESS	MzubanziM@dalrrd.gov.za		E-MAIL ADD	RESS		mnodliwa@dalrrd.gov.z	а
SUPPLIER INFORMATIO	N						
NAME OF BIDDER							
POSTAL ADDRESS							
STREET ADDRESS							
TELEPHONE NUMBER	CODE			NUMBER			
CELLPHONE	CODE			NUMBER			
NUMBER		1		1			
FACSIMILE NUMBER	CODE			NUMBER			
E-MAIL ADDRESS							
VAT REGISTRATION NUMBER		ſ	ſ		T		
SUPPLIER COMPLIANCE	TAX COMPLIANCE SYSTEM PIN:			CENTRAL SUPPLIER			
STATUS	STSTEWFIN.		OR	DATABASE			
				No:	MAAA		
	S LEVEL VERIFICATION DER TO QUALIFY FOR					OR EMES & QSEs) MU	IST BE
A. ARE YOU THE							
ACCREDITED				OU A FOREIGN			
REPRESENTATIVE IN SOUTH AFRICA FOR	□Yes □N	0		PLIER FOR THE RVICES /WORKS	-	Yes	□No
THE GOODS		0	OFFERED?			IF YES, ANSWER THE	
/SERVICES /WORKS	[IF YES ENCLOSE PROOF	.]	••••		-	QUESTIONNAIRE BELOW]	
OFFERED?		-				-	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS							
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?							
DOES THE ENTITY HAVE A BRANCH IN THE RSA?					0		
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?					0		
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?							
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? 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.							
						7	
Contract	tor Witness 1	Witness 2		bloyer Wi	itness 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.
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

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:

.....



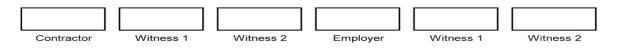
ENSURE THAT PRIOR TO SUBMITTING THE TENDER TO THE DEPARTMENT THE FOLLOWING INFORMATION IS COMPLETED AND ATTACHED

	s list is to assist all bidders to submit complete proposals. Bidders are to check the following the before the submission of their proposals: (YES - \checkmark ; NO - \bigstar)	ıg
1	All pages of the document have been read by the contractor and initialled.	
2	Any discrepancy and/or misunderstanding is cleared with the relevant officials.	
3	All pages requiring information have been completed in black ink.	
4	The Schedule of Quantities has been checked for arithmetic correctness.	
5	Totals from each sub section of the Schedule of Quantities have been carried forward to the summary page and done so correctly.	
6	The total from the summary page has been carried forward to the Form of Offer.	
7	Surety details where applicable have been included in the proposal.	
8	All sections requiring information have been completed.	
9	Bidder ensured that all documents is properly completed and signed	
10	The contractor has complied with the proposal prerequisites.	
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)	
12	Signed Letter of authority on Company Letterhead is attached	
13	Attached a Valid Tax Clearance Certificate or provided a Compliance Tax Status Pin of main bidder, JV partner and all sub-contractors	
14	Attached a Valid Tax Clearance Certificate or provided a Compliance Tax Status Pin of all sub-contractors	
15	Attended the compulsory meeting	
16	Did you Tamper with the document? (Not Allowed)	
17	Used correction fluid? (Not allowed)	
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)?	
19	Is the form of offer fully completed and signed by the authorized signatory	
20	Central Supplier Database (CSD) Registration provided of main bidder, JV partner	
21	Central Supplier Database (CSD) Registration provided of all sub-contractor	
22	Are all addenda issued completed and returned (if applicable)	

CHECK LIST (SM1)

Signature of Authorized Person

Date



THE TENDER

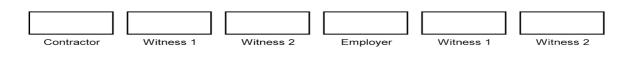


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PART T1: TENDERING PROCEDURES

For a proposed contract between 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 <u>90 days</u> 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 <u>MzubanziM@dalrrd.gov.za</u> 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 <u>Tell: +27 021 409 0523</u>

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

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	OR	Department: Agriculture, Land Reform
Mr. Norman van der Merwe		and Rural Development
Tel: 021 886 6895/6		Mr. Mac Nodliwa
Email: norman@wec-consult.co.za		Tel: (021) 409 0367
		E-mail: 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

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 3rd Street & 5th 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 - 34º20'17.03" S, 19º00'31.02" E. Masakhane – Gansbaai, Western Cape - 34º35'27.95" S, 19º21'37.06" E. Eluxolweni – Pearly Beach, Western Cape - 34º39'12.57" S, 19º29'16.81" 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:

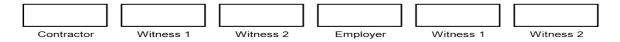
THE APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE and must be addressed to:

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 <u>30 April 2024 at 11h00</u>, which is the closing time of the tender. Tenderers should ensure that tenders are delivered timeously to the correct address.



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 <u>www.cidb.org.za</u>). 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.

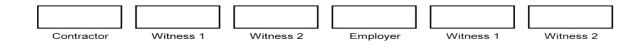
The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender:

SECTION T1.2.2: TENDER DATA

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

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 Rura Development". The term "bid" in the context of this standard is synonymous with term "tender".	
C.1.2	Tender Documents	This document (Volume 1) 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" 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:	Company:WEC-ConsultContact:Norman van der MerweAddress:Unit 24, Oewerpark, Rokewood Road, Stellenbosch, 7613Tel No.:021 886 6895/6E-mail:norman@wec-consult.co.za	

The additional Conditions of Tender are:



Item		Data
C.2	TENDERER'S OBLIGATIONS	ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER
C.2.1	Eligibility:	 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 6GB or Higher Class of construction work, are eligible to submit tenders. Joint ventures are eligible to submit tenders provided that they comply with all three of the following conditions: 1. Every member of a joint venture is registered with the CIDB. 2. The lead partner has a contractor grading designation of not lower than one level below the required grading designation of 6GB of construction work. 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 6GB class of construction work, is eligible to submit tenders.
		Tenderers must have attended the compulsory clarification inspection.
		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. 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).
		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.
		Where consortium/ joint ventures are involved, each party to the association must submit separate Tax Clearance requirements.
		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.
		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.
		Letter of authorization 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).

Employer

Witness 1

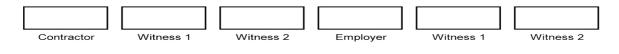
Witness 2

Witness 2

Witness 1

Contractor

Item		Data
		Tampering with Document
		No tampering with the document i.e. the full document with all Annexures must be printed and submitted.
		No use of Tippex / correctional fluid. If any typing error occurs one must can scratch out and sign.
		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.
		If alterations are not made as stipulated, the tender as a whole will not be considered.
		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.
		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.
		Separate Tax Clearance or pin must be submitted for each sub- contractor.
		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.
		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.
C.2.2	Cost of Tendering:	Add the following to the clause:
		"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."



Item		Data
C.2.5	Reference documents:	The document "JBCC PRINCIPAL BUILDING AGREEMENT EDITION 6.2, MAY 2018." 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.
C.2.7	Clarification meeting:	The arrangements for a compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender. 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.
C.2.8	Seek clarification:	"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."
C.2	TENDERER'S OBLIGATIONS	ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER
C.2.9	Insurance:	Add the following to the clause: "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. The Employer will not provide for any insurance as it will be provided for by the Contractor.
C.2.11	Alterations to documents:	Add the following to the clause: "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. 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. 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." The Department will reject the bid if the above conditions are not adhered to.
C.2.13	Submitting a tender offer	<u> </u>

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Item		Data
	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.
C.2	TENDERER'S OBLIGATIONS	ADDITION OR VARIATION TO STANDARD CONDITION OF TENDER
	C.2.13.4	Add the following to the clause: "Only duly authorised signatories must sign the original and all copies of the tender offer where required in terms of 2.13.3.
		In the case of a ONE-PERSON CONCERN submitting a tender, this shall be clearly stated on the company letter head.
		In case of a COMPANY 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.
		In the case of a CLOSED CORPORATION 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. In the case of a PARTNERSHIP 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.
		In the case of a JOINT VENTURE 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."
		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.
	C.2.13.5	The Employer's address for delivery of tender offers:
		Department Agriculture Land Reform and Rural Development 14 Long Street Cape Town 8000
	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.

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.2.14	Information and Data to be completed in all respects:	Add the following to the clause: "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 Section T2.2 . (Form T) 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.
C.2.15	Closing time:	The closing date and time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
C.2.16	Tender offer validity:	The tender offer validity period is <u>90</u> days. Add the following to the clause: "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."
C.2.17	Clarification of tender offer after submission	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	Provide other material	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	Inspections, tests and analysis:	The Tenderer must provide access during working hours to his premises for inspections on request.
C.2.20	Submit securities, bonds and policies:	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.

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.2.23	Certificates:	 The following certificates/ information may be provided with the tender offer: a) Copy of Certificate of Incorporation (if tenderer is a Company), e.g., CM1, CM29, or CM44 b) Copy of Founding Statement (if tenderer is a Closed Corporation), e.g., CK1, or CK2 c) Copy of Partnership Agreement (if tenderer is a Partnership) d) Copy of Identity Document (if tenderer is a One-man concern) e) Copy of Deed of Trust (If a trust is involved).
		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.
	E FOLLOWING NEW CLAUS	
"2.24	Canvassing and obtaining of additional information by Tenderers:	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.
		No Tenderer shall make any attempt to obtain particulars of any relevant information, other than that disclosed at the opening of tenders."
"2.26	Awards to close family members of persons in the service of the state	In order to adjudicate fairness or eligibility, the questionnaire for the declaration of interests in the tender of persons in service of state in Section T2.2.5 – Form E must be completed."
C.2	TENDERER'S OBLIGATIONS ADDITION OR VARIATION TO STANDARD CONDITION OF TENDE	
"2.28	TAX REQUIREMENTS	"Submission of Proof of Tax Compliance together with the bid is compulsory."
		"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."
		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.
		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 www.sars.gov.za.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Item		Data
		Bidders may also submit a printed TCS together with the bid. 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.
"2.29	(CSD) Central Supplier Database	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.
"2.30	Tender Participation Goals	It is a requirement of this contract that work be executed in such a manner so as to maximize the use of at least 80% 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.
		The targets for employment are as follows:
		• Women: 55%
		• Youth: 40%
		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.
		The contractor must submit monthly Labour reports to client. Contractors to adhere to the minimum Labour rates as stipulated by the Department of Labour.
		The definition of youth being determined by age up to and including 35 years.
		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.
		Note: A penalty of R800/person per day will be imposed for non-compliance.
C.3	THE EMPLOYER'S UNDERTA	AKINGS ADDITION OR VARIATION TO STANDARD CONDITION OF
C.3.1	Respond to requests from the Tenderer:	Replace the contents of the clause with the following: "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".

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Item		Data			
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 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	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	THE EMPLOYER'S UNDERTA	AKINGS ADDITION OR VARIATION TO STANDARD CONDITION OF			
C.3.4	Opening of tender submissions:	The closing date and time for receipt of tenders is:			
		30 April 2024 at 11:00			
		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:			
		DIRECTOR: FINANCE AND SUPPLY CHAIN MANAGEMENT SERVICES:			
		DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT.			
		Tenders must be submitted in the tender box situated at:			
		Department of Agriculture Land Reform and Rural Development Ground Floor Tender Box 14 Long Street			
		CAPE TOWN 8000			
		Only tenders submitted to this tender box will be opened/ considered.			
		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 withdrawa have been submitted will not be opened.			
C.3.11	Evaluation of Tenders:	Tenders will be evaluated in terms of the evaluation criteria stipulated below:			
		 (a) Evaluation for Mandatory criteria (b) Evaluation in terms of Functionality (c) Evaluation in terms of 80/20 preference point system and specific goals as Prescribed in the Preferential Procurement Regulations 2022. 			

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Item	Data
Mandatory criteria	Add the following:
	"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.
Scoring functionality	Minimum score for quality 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.
	The score achieved for quality will be the sum of the scores achieved for the individual criteria.
	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 60 out of 100 points for functionality will not be considered further.
	Each of the evaluation criteria will be assessed in terms of five indicators being $0 = No$ submission/incomplete submission, $1 = Poor$, $2 = Average$, $3 = Good$, $4 = Very good and 5 = Excellent$.
	Calculate the points for functionality according to the following formula.
	$P_s = S_o/M_s \times A_p$ & $F_s = P_s \times W$
	Where P_s = Percentage scored for functionality by bid under consideration S_o = Total score of bid/proposal (value) under consideration M_s = Maximum possible score = 500 A_p = percentage allocated for functionality = 100 F_s = Functionality points scored for each criterion W = Weight of criterion under consideration
	Total points by bidder on functionality: F _s = Fs ₁ + Fs ₂ +Fs ₃
	The scores of each of the evaluators will then be averaged, weighted and then totalled to obtain the final score for quality.
	NB: 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.

Employer

Witness 1

Witness 2

Witness 2

Contractor

Witness 1

Item	Data			
	Criterion	Weight	Value	Comment / Remarks
	Relevant experience in general buil projects similar in nature, scope and valu (Section T2.2.9, Form I)	le 40		
	Experience of key personnel – Site Ag (Section T2.2.11, Form K)	30		
	Experience of key personnel – Contr Manager (Section T2.2.11, Form K)	30		
	TOTAL	100		
	RELEVANT EXPERIENCE OF SI	MILAR PROJEC	<u>TS – (40)</u>	
	competency and attach complete Tenderers are required to submit references for relevant projects Relevant projects must be of sim within the last Nine (9) years. Tenderers should have complete nature, that being primarily extension, installation, renewal of a permanent shelter for its of value of R6 000 000 each in the The employer reserves the right to <u>NB: Bidders are required to attacts submit / attach completion certits</u> the bidder not being awarded the	full details of, ar s which were s nilar scope, natu ed general build concerned wi renovation alte cupants or con last 9 years. o verify projects b ch completion of ficates for the p	d reliable uccessful re and si ling proje th the eration, o tents, with efore con <u>certificat</u>	e contactable ly completed ze, completed ects of simila development or dismantling th a minimun usidering them es. Failure to
	Poor (score 1) The tende	rer has listed one n a completion cer		nt completed
	Average (score 2) The tende	rer has listed two th completion certi		nt completed
	Good (score 3) The tende	rer has listed three th completion certi		int completed
	Very Good (score 4) The tende projects wi (4 Projec	rer has listed four th completion certi ts)	ficates.	
	projects w	rer has listed five th completion certi e Projects)		nt completed
	TENDERERS EXPERIENCE OF	KEY PERSONN	EL – (60)	
	Tenderers are required to demo resources and technical expertise the project.			

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2	

ltem	Data		
	EXPERIENCE AND QUALIFICATION OF CONTRACTS MANAGER (30) AND SITE AGENT (30) 1. CONTRACT MANAGER (30) This criterion covers the general average experience of the proposed Contract Manager dealing with General Building projects. The candidate 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. 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.		
	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	
	Agent dealing with General completed general build primarily concerned wit renewal, renovation alter for its occupants or cor each in the last 9 years. Tenderers are required to for the key personnel pr curriculum vitae is to inclu past experience and comp projects.	eneral average experience of the proposed Site al Building projects. The candidate should have ding projects of similar nature, that being h the development, extension, installation, ration, or dismantling of a permanent shelter ntents, with a minimum value of R3 000 000 complete Form K and/or submit curriculum vitae oposed to be employed on the project. This de specific details of these individuals including etence in delivering key similar general building	
	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	
		reminal projecte completed in the last of years	

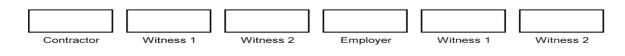
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Contract: SSC WC 1 (2024/2025) DALRRD Part T1: Tendering Procedures Section T1.2: Tender Data

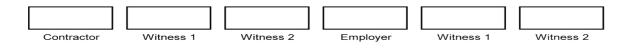
Item		Data		
	Method 3: Scoring Points	Scoring financial offers:		
	and preference	The formula to determine points for price is:		
		THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS A maximum of 80 or 90 points is allocated for price on the following basis:		
		80/20 or 90/10		
		$Ps = 80\left(1 - rac{Pt - P_{min}}{P_{min}} ight)$ or $Ps = 90\left(1 - rac{Pt - P_{min}}{P_{min}} ight)$		
		Where $P_s = Points \text{ scored for price of tender under } consideration$ $P_t = Price \text{ of tender under consideration}$ $P_{min} = Price \text{ of lowest acceptable tender}$		
	PREFERENCE POINT			
	SYSTEM	COMPETITIVE BID PROCESS (ABOVE R 1 MILLION UP TO R 50M)		
		1.1 The following preference point systems are applicable invitations to tender:		
		- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and		
		1.2 To be completed by the organ of state		
		 a) The applicable preference point system for this tender is the 80/20 preference point system. 		
		 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. 		
		1.3 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		
		The maximum points for this tender are allocated as follows:		
		POINTS PRICE 80		
		SPECIFIC GOALS 20		
		Total points for Price and 100 SPECIFIC GOALS		
	Scoring specific goals	The tender must make sure that they complete the SBD 6.1 attached so that they can claim the Specific Goals (20) points.		
		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.		

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Item		Data	
		1	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.
			Bidders who wish to claim points in terms of table 4.2 below need to provide proof for each point claimed as guided below:
			 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.
			• Who is female- attach certified copy of identity document (ID) and company registration document / CSD report to show/ substantiate percentage ownership equity.
			 Who has a disability – attach doctor's letter confirming the disability.
			• 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.
			Specific goal: Locality – Western Cape Province
			 (a) a valid municipal services account (water, sanitation, rates and electricity) in the name of the bidder/s or active director/s or (b) a valid lease agreement from the lessor or (c) a letter on the letterhead of the ward councillor/traditional authority/council that must be signed, stamped and dated.
C.3.13	Acceptance of tender offer:	is not p Managen	Offer will only be accepted on condition that such acceptance rohibited in terms of Clause 44 of the Supply Chain nent Regulations published in terms of the Public Finance nent Act, 2003.
C.3.17	Provide copies of the contract		ed copy of the contract shall be provided by the Employer to essful Tenderer.



C.4	ADDITIONAL CONDITIONS OF TENDER
The addit	tional conditions of Tender are:
C.4.1	Compliance with Occupational Health and Safety Act 1993 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.
	In this regard the Contractor 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:
	 Management Structure, Site Supervision and Responsible Persons including a succession plan. Contractor's induction training programme for Employees, Sub-contractors and Visitors to the Site. Health and safety precautions and procedures to be adhered to, in order to ensure compliance with the Act, Regulations and Safety Specifications. Regular monitoring procedures to be performed. Regular liaison, consultation and review meetings with all parties. Site security, welfare facilities and first aid. Site rules and fire and emergency procedures.
	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.
	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.
	The Contractor is required to submit to the Employer the Occupational Health and Safety Agreement (included in Part C1.4 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.
	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. (Annexure A).
C.4.2	Community Liaison Officer
	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.
	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 Part C3.3.2: Scope of Work .



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.
- 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.

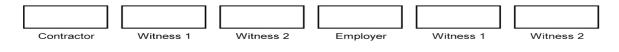
C.1.2 Tender Documents

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:



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 <u>Competitive negotiation procedure</u>

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.



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** <u>Notify</u> 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 <u>costs</u> 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.



C.2.2.2 The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the <u>employer</u> 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 (<u>VAT</u>), 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.



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.



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

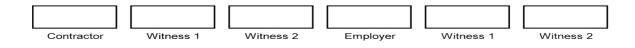
Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in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



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.

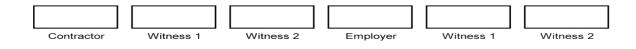
C.3 The employer's undertakings

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.



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 BBBEE 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 BBBEE 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

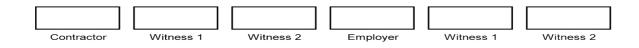
- **C.3.9.1** Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.
- **C.3.9.2** Check the highest ranked tender or tenderer with the highest number 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.



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.

	The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:		
Requirement	Qualitative interpretation of goal		
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:

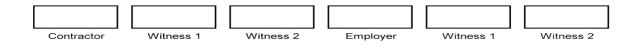
- a) Open and record tender offers received
- b) Determine whether or not tender offers are complete
- c) Determine whether or not tender offers are responsive
- d) Evaluate tender offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred tenderer
- 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.



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

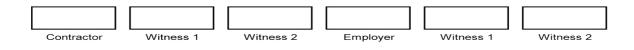
An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the CIDB Register of Projects.

C.3.17 Provide copies of the contracts

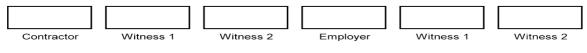
Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

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.



PART T2: RETURNABLE DOCUMENTS & SCHEDULES



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.

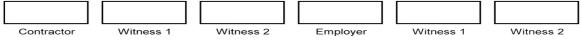
Clause referred to in Standard Conditions of Tender	Document								
C.2.1	Tenderers shall provide their CRS Number of registered Contractor as well as JV Partner*. CRS Number of Tenderers or JV Partners must be filled in below:								
	NB: In cases where a bidder intends to form a Joint Venture, the CRS number/s must be filled in below i.e. the Lead partner and Joint Venture partner/s:								
	Tenderer/Leading JV Partner								
	CRS Number:								
	Name of Company:								
	JV Partner								
	CRS Number:								
	Name of Company:								
	JV Partner								
	CRS Number:								
	Name of Company:								
	All contractors, even tendering in JV, must be registered with CIDB. The lead Partner must have Category 6GB or HIGHER Contractor								
	*NB: Recent printout from CIDB website indicating the CRS number will also be accepted.								
C.2.7	Attendance of the compulsory Tender Clarification meeting as stipulated.								
C.2.8	 Bidders must ensure compliance with their tax obligations. 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. Application for tax compliance status (TCS) PIN may be made via e-filing through the SARS website www.sars.gov.za. Bidders may also submit a printed TCS certificate or provide Tax pin together with the bid. In bids where consortia / joint ventures / sub-contractors are involved; each party must submit a separate TCS certificate / PIN / CSD number. 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. No tender may be awarded to any tenderer whose tax matters have not been declared by the SARS to be in order. 								

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

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C.2.10	Form of offer must be completed and signed by duly authorized person.
	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.
	Where the bidder forms a consortium or joint venture, written Proof of the contract between all parties must be attached.
	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).
	Fully completed Declarations on SBD forms

Clause referred to in Standard Conditions of Tender	Document
C.2.11	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."
	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.
	"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.
C.2.13.4	Letter of authorization to sign the Form of Offer and where required in tender document (See Form D).
	Bidders must ensure compliance with their tax obligations.
	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.
C.2.28	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 <u>www.sars.gov.za</u> .
0.2.20	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.



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

Document

Tenderers shall provide their CSD Supplier Number (Master Registration Number) and Tax Compliance PIN Number in the space provided below:

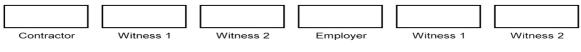
NB: In cases where a bidder intends to form a Joint Venture, the CSD Supplier Number (Master Registration Number) and Tax Compliance PIN shall also be provided in the space provided below, i.e. the lead partner and Joint Venture partner/s.

If any sub-contractors are proposed their CSD Supplier Number (Master Registration Number) and Tax Compliance PIN numbers shall be provided in Form A.

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

Tenc	lerer/	Leading	a na	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 tende Database	ering in JV, must be registered with National Treasury	Central Supplier



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
- SECTIONT2.2.19: FORM S: COMPULSORY ENTERPRISE QUESTIONNAIRE

SECTIONT2.2.20: 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 D / No D

- 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.

Ν	lame 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 th	e contract be sul	o-contract	ed?				Yes 🗆 / I	No 🗆
2.	lf yes, ir	ndicate:								
	(i)	What perce	entage of the cont	tract will b	e Sul	o-contracted	?			%
	(ii)	The name/s	s of the sub-contr	ractor(s)?	(1)					
					(2)					
					(3)					
					(4)					
	(iii)	The	B-BBEE	status		level	of	the	sub-contracto	or(s)?
	(iv)	Whether the	e sub-contractor(s) is/are a	ın EN	1E?			Yes 🗆 / I	No 🗆
	Signatu	re of person	authorised to sig	n the tend	ler:					
	Date:									
					-					
	Cont	tractor	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:

			Designated Group: An EME or QSE which is at last 51% owned by:																
Name of proposed Sub Contractor	% of the work that will be sub- contrac- ted	B-BBEE status level of the sub- contractor	Black peopl		Black peopl who a youth	e re	Black people who are womer	e e	Black people with disabil ies	e	Black people living i rural o under deve lopeo areas or town ships	e n - -	Coope -rative owned by black people	e d	Black people who are military veteran s		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:

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

SECTION T2.2.2: FORM B: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022 (SBD 6.1)

BID PROCESS (EQUAL OR BELOW R 50 MILLION)

This preference form must form part of all tenders invited. It contains general informationand 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 t the time of tender invitation, and includes all applicable taxes;
- (d) "tender for income-generating contracts" means a written offer in the formdetermined 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 partythat 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 acquirecitizenship by naturalization prior to that date.

Contractor	Witness 1	Witness 2	Employer	Witness 1	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 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.
- 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.



- 2.10 Tenderers who wish to claim points in terms of the table in paragraph 2.12 below needto 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 bythe 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 systemis applicable, corresponding points must also be indicated as such.

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

	e specific goals allocated points erms 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)
Ι.	HDI	8		
Π.	Who is female	5		
III.	Who has a disability	2		
IV.	Specific goal: Who is youth	2		
V.	Specific goal: Locality	3		



•

•

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 $x 5 \div 100 =$ 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

Pt = 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

Pt = 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 gualify for the same number or more preference for equity ownership.

	1	1			1	
					1	
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	

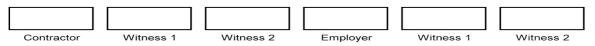
- 5.1.1 If yes, indicate:
 - i) What percentage of the contract will be subcontracted:.....%
 - ii) The name of the sub-contractor:
 - iii) Points claimed for HDI by the sub-contractor:

6. DECLARATION WITH REGARD TO COMPANY/FIRM

- 6.1. Name of company/firm:
- 6.2. Company registration number:

6.3. TYPE OF COMPANY/ FIRM

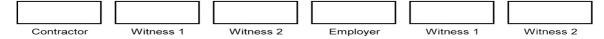
- □ Partnership/Joint Venture / Consortium
- □ One-person business/sole propriety
- □ Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- □ Non-Profit Company
- State Owned Company [TICK APPLICABLE BOX]
- 6.4. I, the undersigned, who is duly authorised to do so on behalf 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



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.

SIGNATURE(S) OF TENDERER(S)				
SURNAME AND NAME:				
DATE:				
ADDRESS:				



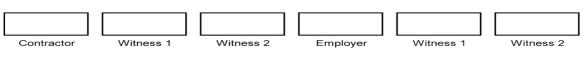
SECTION T2.2.3: FORM C: RECORD OF ADDENDA TO TENDER DOCUMENTS

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	9	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:



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:

IVIABEL H	OUSE (Pty) Ltd
	s in connection with Contract no CON 0005, and any
contract which may arise therefrom, on behal	f of Wadel House (Pty) Lta.
SIGNED ON BEHALF OF THE COMPANY:	(Signature of Managing Direc,
IN HIS CAPACITY AS:	Managing Di. :tor
DATE:	20 Ma / 20 10
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	2 Employer Witness 1 Witness 2
	52

SECTION T2.2.5: FORM E: STATUS OF CONCERN SUBMITTING TENDER

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	Closed Corporation	Partnership	
One-man concern	Joint Venture		

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.

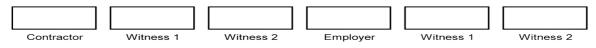
2.5 If the tenderer is a Joint Venture:

- (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:



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 interest1 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**

¹ 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.



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:

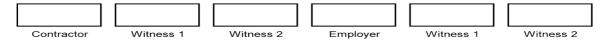
- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium2 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

² 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.



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?		
	(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□	No□
4.1.1	If so, furnish particulars:		
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)? (To access this Register enter the National Treasury's website,		
	www.treasury.gov.za , 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□	No□
4.2.1	If so, furnish particulars:		
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□	No□

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2	

CONTRACT : SSC WC 1 (2024/2025) DALRRD Part T2 : Returnable Documents Section T2.2: Returnable Documents

Item	Question	Yes	No
4.3.1	If so, furnish particulars:		
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□	No□
4.4.1	If so, furnish particulars:		
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□	No□
4.5.1	If so, furnish particulars:		

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

.....



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.

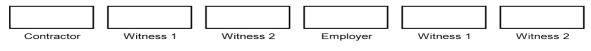
Attach additional pages if more space is required.

(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:



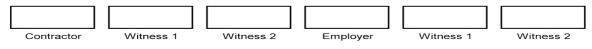
SECTION T2.2.9: FORM I: SCHEDULE OF WORK CARRIED OUT BY THE TENDERER

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 (Name, Tel No, Fax No)	Consulting Engineer (Name, Tel No, Fax No)	Nature Of Work	Value Of Work	Year Completed					
Completed (similar	Completed (similar relevant projects)								

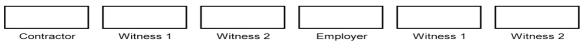
Signature of person authorised to sign the tender:



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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 day of
In the company of (Engineer's representative)
Signature (Tenderer's Representative)
Signature (Engineer's Representative)



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					
	Project Name/Description	Value (R)	Start Date	End Date	Reference
List of Projects Worked on as a					
Contract Manager					
Currently Employed by Tenderer (Y/N)					
Signature					

Signature of person authorised to sign the tender:

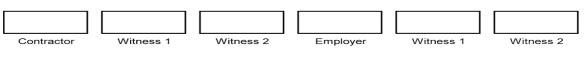
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

CONTRACT : SSC WC 1 (2024/2025) DALRRD Part T2 : Returnable Documents Section T2.2: Returnable Documents

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

Signature of person authorised to sign the tender:

Date:



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.		

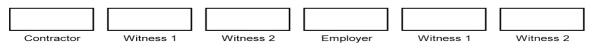
Attach additional pages if more space is required.

* 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:....



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)

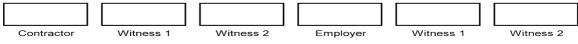
Signature of person authorised to sign the tender:

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? If yes, please explain his duties and provide a copy of his CV.	Yes 🗆 / No 🗆
7.	Does the Contractor have trained first aid employees? If yes, indicate, who.	Yes 🗆 / No 🗆
8.	Does the Contractor have a safety induction training programmeme in place? (If yes, provide a copy)	Yes 🗆 / No 🗆
Sign	ature of person authorised to sign the tender:	
Date	:	



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.

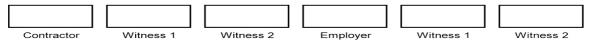
Tenderer/Leading JV Partner	
Name of Company:	
CSD Supplier Number: (Master Registration Number)	
Tax Compliance PIN number:	
JV Partner 1	
Name of Company:	
CSD Supplier Number: (Master Registration Number)	
Tax Compliance PIN number:	
JV Partner 2	
Name of Company: 	
Tax Compliance PIN number:	
*NB: All contractors, even tenderi	ng in JV, must be registered with National Treasury Central Suppler Database

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

SECTION T2.2.16: FORM P: PRELIMINARY PROGRAMMEME

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.



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.

				Amount (VAT Inc	luded)	
Payment Certificate	a B		a-b			Cumulative cash
No.	Payments Received	Expenditure		Net cash flow		flow
1			D		j=d	
2			Е		k=j+e	
3			F		l=k+f	
4			G		m=l+g	
5			Н		n=m+h	
6			etc		etc	
7						
8						
9						
10						
Etc						
Maxir	num negative					

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:

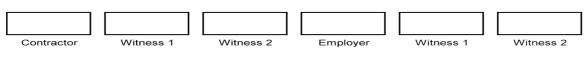
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

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 <u>and referred to hereunder</u>.

PAGE	DESCRIPTION

Signature of person authorised to sign the tender:



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

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partner Section 5: Particulars of companies and close corporations Company registration number	
 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 attact requirement. Section 7: The attached SBD6 must be completed for each tender and be attact section 8: The attached SBD8 must be completed for each tender and be attact section 9: The attached SBD9 must be completed for each tender and be attact section 9: The attached SBD9 must be completed for each tender and be attact in authorizes the Employer to obtain a tax clearance certificate from the South Af that my / our tax matters are in order; authorizes the Employer to obtain a tax clearance certificate from the South Af that my / our tax matters are in order; confirms that the neither the name of the enterprise or the name of any partner, m person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convict iv) confirms that no partner, member, director or other person, who wholly or partly exercises or the scope of work that could cause or be interpreted as a conflict of interest; and two confirms that the contents of this questionnaire are within my personal knowled my belief both true and correct. 	
Company registration number	5
Close corporation number . Tax reference number . Section 6: The attached SBD4 must be completed for each tender and be attack requirement. Section 7: The attached SBD6 must be completed for each tender and be attack Section 8: The attached SBD8 must be completed for each tender and be attack Section 9: The attached SBD9 must be completed for each tender and be attack Section 9: The attached SBD9 must be completed for each tender and be attack The undersigned, who warrants that he / she is duly authorised to do so on behalf of i) authorizes the Employer to obtain a tax clearance certificate from the South Af that my / our tax matters are in order; ii) confirms that the neither the name of the enterprise or the name of any partner, m person, who wholly or partly exercises, or may exercise, control over the en Register of Tender Defaulters established in terms of the Prevention and Comba Act of 2004; iii) confirms that no partner, member, director or other person, who wholly or partly exercised, control over the enterprise appears, has within the last five years been convict iv) confirms that I / we are not associated, linked or involved with any other tender tender offers and have no other relationship with any of the tenderers or those 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 my belief both true and correct.	
 Tax reference number	
 Section 6: The attached SBD4 must be completed for each tender and be attact requirement. Section 7: The attached SBD 6 must be completed for each tender and be attact Section 8: The attached SBD8 must be completed for each tender and be attact Section 9: The attached SBD9 must be completed for each tender and be attact Intervention attached SBD9 must be completed for each tender and be attact Section 9: The attached SBD9 must be completed for each tender and be attact Intervention 9: The attached SBD9 must be completed for each tender and be attact Section 9: The attached SBD9 must be completed for each tender and be attact Intervention 9: The attached SBD9 must be completed for each tender and be attacted to be undersigned, who warrants that he / she is duly authorised to do so on behalf of i) authorizes the Employer to obtain a tax clearance certificate from the South Aft that my / our tax matters are in order; ii) confirms that the neither the name of the enterprise or the name of any partner, mereson, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convict iv) confirms that no partner, member, director or other person, who wholly or partly excontrol over the enterprise appears, has within the last five years been convict iv) confirms that I / we are not associated, linked or involved with any other tender offers and have no other relationship with any of the tenderers or those 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 my belief both true and correct. 	
 section 7: The attached SBD 6 must be completed for each tender and be attack section 8: The attached SBD8 must be completed for each tender and be attack section 9: The attached SBD9 must be completed for each tender and be attack the undersigned, who warrants that he / she is duly authorised to do so on behalf of i) authorizes the Employer to obtain a tax clearance certificate from the South Af that my / our tax matters are in order; confirms that the neither the name of the enterprise or the name of any partner, m person, who wholly or partly exercises, or may exercise, control over the enterprise of Tender Defaulters established in terms of the Prevention and Comba Act of 2004; confirms that no partner, member, director or other person, who wholly or partly exercised, linked or involved with any other tender tender offers and have no other relationship with any of the tenderers or those 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 knowled my belief both true and correct. 	
 Section 8: The attached SBD8 must be completed for each tender and be attack Section 9: The attached SBD9 must be completed for each tender and be attack The undersigned, who warrants that he / she is duly authorised to do so on behalf of authorizes the Employer to obtain a tax clearance certificate from the South Af that my / our tax matters are in order; confirms that the neither the name of the enterprise or the name of any partner, m person, who wholly or partly exercises, or may exercise, control over the enterprise of Tender Defaulters established in terms of the Prevention and Comba Act of 2004; confirms that no partner, member, director or other person, who wholly or partly excontrol over the enterprise appears, has within the last five years been convict iv) confirms that I / we are not associated, linked or involved with any other tender offers and have no other relationship with any of the tenderers or those 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 my belief both true and correct. 	hed as a tender
 Section 9: The attached SBD9 must be completed for each tender and be attack. The undersigned, who warrants that he / she is duly authorised to do so on behalf of authorizes the Employer to obtain a tax clearance certificate from the South Af that my / our tax matters are in order; confirms that the neither the name of the enterprise or the name of any partner, m person, who wholly or partly exercises, or may exercise, control over the enterprise of Tender Defaulters established in terms of the Prevention and Comba Act of 2004; confirms that no partner, member, director or other person, who wholly or partly excounted or involved with any other tender offers and have no other relationship with any of the tenderers or those the scope of work that could cause or be interpreted as a conflict of interest; and confirms that the contents of this questionnaire are within my personal knowledge my belief both true and correct. 	hed as a requirement.
 The undersigned, who warrants that he / she is duly authorised to do so on behalf of authorizes the Employer to obtain a tax clearance certificate from the South Af that my / our tax matters are in order; confirms that the neither the name of the enterprise or the name of any partner, m person, who wholly or partly exercises, or may exercise, control over the en Register of Tender Defaulters established in terms of the Prevention and Comba Act of 2004; confirms that no partner, member, director or other person, who wholly or partly excountrol over the enterprise appears, has within the last five years been convict confirms that I / we are not associated, linked or involved with any other tender tender offers and have no other relationship with any of the tenderers or those the scope of work that could cause or be interpreted as a conflict of interest; and confirms that the contents of this questionnaire are within my personal knowledge my belief both true and correct. 	ed as a requirement.
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Signed Date	erprise appears on the ting of Corrupt Activities ercises, or may exercise ed of fraud or corruption ering entities submitting esponsible for compiling
Name Position	
Enterprise name	

SECTIONT2.2.20: FORM T: TENDERERS PERFORMANCE EVALUATION FORM

PROJECT PERFORMANCE EVALUATION FORM

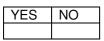
(not to be completed at tender stage)

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/ programmeming					
4. Financial management/ payment of subcontractors/ cash flows etc.					
5. Resources Plant					

B. Would you consider / recommend this tenderer again:



C. Any other comments:

D. My contact details are:

Telephone: _____

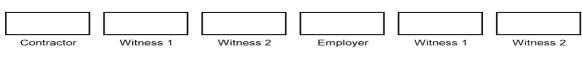
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

CONTRACT : SSC WC 1 (2024/2025) DALRRD Part T2 : Returnable Documents Section T2.2: Returnable Documents

Cellphone:			
Fax:			
E-mail:			
Thus signed at	on this	day of	2023
Signature of principal agent		COMPANY STA	AMP

NOTE:

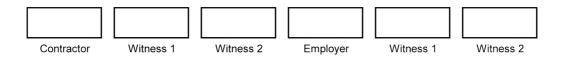
If reference cannot be verified due to the inability to contact the referee or failure on his/her part to respond to a written request to do so, that reference will not score any points.



DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

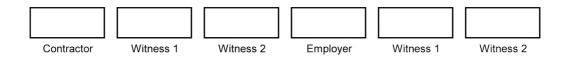
CONTRACT NO.: SSC WC 1 (2024/2025) DALRRD

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



PORTION 2: CONTRACT

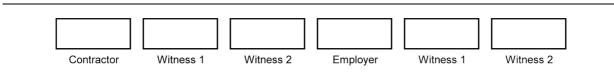
PART C1: AGREEMENTS AND CONTRACT DATA



AGREEMENTS AND CONTRACT DATA

INDEX

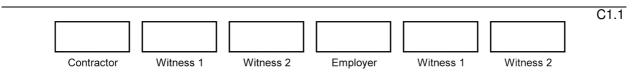
Section	Description	Page No
C1.1	FORM OF OFFER AND ACCEPTANCE	C1.1.1
C1.2	CONTRACT DATA	C1.2.1
C1.3	GUARANTEE FOR CONSTRUCTION	C1.3.1
C1.4	OCCUPATIONAL HEALTH AND SAFETY AGREEMENT	C1.4.1
C1.5	INSURANCE BROKERS WARRANTY	C1.5.1



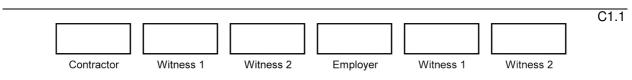
DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

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



C1.1 FORM OF OFFER AND ACCEPTANCE



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				
Contractor Witness 1	Witness 2 Emplo	yer Witness 1	Witness 2	C1.1.1

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 Re	eform and Rural Develo

Department Agriculture Land Reform and Rural Development,

(Name and address of organisation)

Name and Signature Of Witness

Date	
------	--

						C1.1.2
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2	

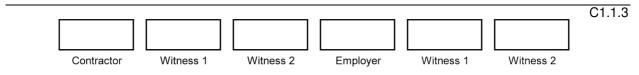
Notes:

- 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 _	
2		
	Details	
3		
		 -
4	Subject _	
	Details	 -
5	Subject _	
	Details	
6	Subject _	
	Details	

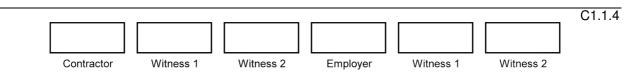
By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Bidder agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Bid Data and addenda thereto as listed in the Bid Schedules, as well 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.



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

FOR THE TENDERE	R:			
Signature(s)				
Name(s)				
Capacity				
(Name and addre	ss of organisation)			-
Name and Signature Of Witness		_		
Date				
FOR THE EMPLOYE	R:			
Signature(s)				
Name(s) Capacity:	Department Agric	ulture Land Reform	n and Rural Develo	pment,
Name and Signature Of Witness		_		
Date		_		

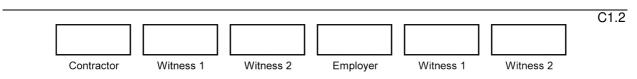


DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

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



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

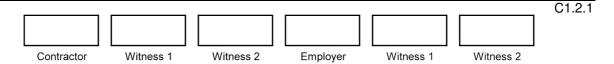
Experience has shown that changes drafted by others, including members of the building professions, often have unintended results that may be prejudicial to either, or both, parties

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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A **PROJECT INFORMATION**

A 1.0 Works [1.1]

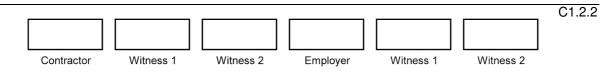
Project name	THE APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF 3 EARLY CHILDHOOD DEVELOPMENT CENTRES IN THE OVERSTRAND LOCAL MUNICIPALITY, WESTERN CAPE
Reference number	SSC WC 1 (2024/2025) DALRRD
Works description	The works in this contract include excavation for the re-laying of existing- and 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 2. Erf 2044 3. Erf 1969
Township / Suburb	 Bambanani - Kleinmond, Western Cape Masakhane – Gansbaai, Western Cape Eluxolweni – Pearly Beach, Western Cape
Site address	1. Bambanani; 34º20'17.03" S, 19º00'31.02" E; G. M. Siyoni Street 2. Masakhane; 34º35'27.95" S, 19º21'37.06" E; Thandbuntu Street 3. Eluxolweni; 34º39'12.57" S, 19º29'16.81" 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		
	Private Bag X9133	·	· ·
Postal address	Cape Town	Postal code	8000
	14 Long Street	·	·
Physical address	Cape Town	Postal code	8000



A 4.0 Principal agent [1.1]

Name	WEC-Consult (Pty) Lte	d	
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
	PO Box 12861	·	· · ·
Postal address	Die Boord	Postal code	7613
	Unit 24, Oewerpark, F	Rokewood Road, Die Boord	· · ·
Physical address	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		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]

Bills of quantities: System/Method of	International System of Units (SI)
measurement	

B 2.0 Law, regulations and notices [2.0]

Law applicable to the works, state country	Republic of South Africa
[2.1]	

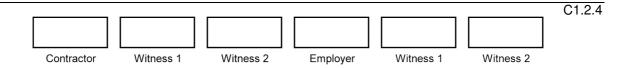
B 3.0 Offer and Acceptance [3.0]

Currency applicable to this agreement [3.2]	Rand (R)
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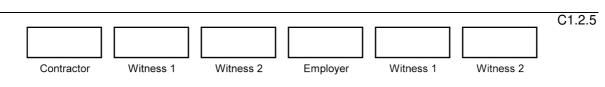
B 4.0 Documents [5.0]

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

Contract drawings - 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	



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	



B 5.0 Employer's agents [6.0]

Authority is delegated to the following **agents** to issue **contract instructions** and perform duties for specific aspects of the **works** [6.2]

A 5.0 Agent, Safe Working Practice Cape Town (Pty) Ltd - Monthly Health and Safety Audits

Principal agent's and agents' interest or involvement in the works other than a professional interest [6.3]

N/A

B 6.0 Insurance [10.0]

Insura	nces by employer		Amount including tax	Deductible amount including tax
Yes/r	no? No			
Contra	ct works insurance:			
	New works [10.1.1] (contract sum or a			
or		al completion in sections [10.2]		
or	Works with alteration	ons and additions [10.3] e of existing structures with or		
		[10.1.1; 10.2] where applicable, contract works insurance		
		10.2] where applicable, to be ract works insurance		
	Escalation, professi costs if not included	onal fees and reinstatement above		
Total o	f the above contract v	vorks insurance amount		
Supple	ementary insurance [1	0.1.2; 10.2]		
Public	liability insurance [10.	1.3; 10.2]		
Remov	al of lateral support ir	surance [10.1.4; 10.2]		
Other i	nsurances [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

Insura	nces by	contract	or	Amount including tax	Deductible amount including tax
Yes/r	10?	Yes			
Contrac	ct works	insurance:			
		vorks [10.1.			
	1	act sum or			
or		s with pract act sum or	ical completion in sections [10.2] amount)		
or	(reinst		tions and additions [10.3] lue of existing structures with or rks)	Contract Sum	Not exceeding 5% of each and every claim
			rs [10.1.1; 10.2] where applicable, he contract works insurance		
	include	ed in the co	1; 10.2] where applicable, to be ntract works insurance		
		tion, profes f not include	sional fees and reinstatement ed above		
Total of	the abc	ve contract	works insurance amount	Contract Sum	
Supple	mentary	insurance	[10.1.2; 10.2]	Contract Sum	Not exceeding 5% of each and every claim
Public I	iability ir	nsurance [1	0.1.3; 10.2]	R 10 000 000	Not exceeding 5% of each and every claim
Remov	al of late	eral support	insurance [10.1.4; 10.2]		
Other i	nsurance	es [10.1.5]:	Refer B17.0		
Yes/no? Yes If yes, description 1			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 contractor [12.1.3] Yes/no? Yes			Yes
If yes, description	Known services are shown drawings SUR101, SUR103, SUR105		
Restrictions to the site or areas that the contractor may not occupy [12.1.4] Yes/no? Ye			Yes
If yes, description Existing buildings shall not be occupied or used by the contractor.			
Supply of free issue [12.1.10] Yes/no? N			No
If yes, description			

						C1.2.7
Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2	

B 8.0 Nominated subcontractors [14.0]

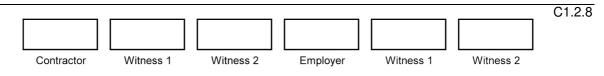
Yes/no?	No	If yes, description of specialisation	
Specialisat	ion 1		
Specialisat	ion 2		
Specialisat	ion 3		
Specialisat	ion 4		
Specialisat	ion 5		

B 9.0 Direct contractors [16.0]

Yes/no?	No	If yes, description of specialisation
Specialisat	ion 1	
Specialisat	ion 2	
Specialisat	ion 3	
Specialisat	ion 4	
Specialisat	ion 5	

B 10.0 Description of sections [20.1]

Section 1	Erf 7349; G. M. Siyoni Street; Bambanani - Kleinmond, Western Cape; 34º20'17.03" S, 19º00'31.02" E	
Section 2	Erf 2044; Thandubuntu Street; Masakhane – Gansbaai, Western Cape; 34º35'27.95" S, 19º21'37.06" E	
Section 3	Erf 1969; Oasis Street; Eluxolweni – Pearly Beach, Western Cape; 34º39'12.57" S, 19º29'16.81" E	
Section 4		
Section 5		
Section 6		
Section	Remainder of works	



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

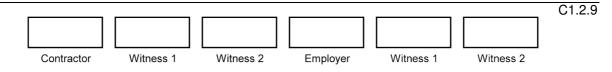
Practical completion for the works as a whole	Intended date of possession of the site Refer B17.0 [12.1.5; 12.2.22]	Period for inspection by the principal agent [19.3]	The date for practical completion shall be the period as indicated below from the date of possession of the site by the contractor [12.2.7;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

or where **sections** are applicable

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

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



B 12.0 Payment [25.0]

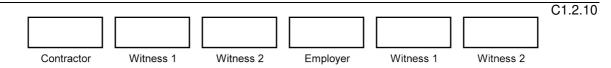
Date of month for issue of regular payment certificates [25.2]		22	
Contract price adjustment / Cost fluctuations [25.3.4; 26.9.5]	Yes/no?	No	
If yes, method to calculate			

B 15.0 Dispute resolution [30.0]

Adjudication [30.6.1; 30.10] Name of nominating body	Association of Arbitrators Southern Africa
Applicable rules for adjudication [30.6.2]	
Arbitration [30.7.4; 30.10] If Yes, name of nominating body * 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

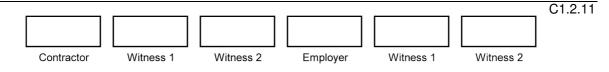
Provisional bills of quantities [P2.2]		Yes/no?	Yes		
Availability of construction construction	Yes/no?	Yes			
Previous work - dimension previous contract(s) [P3.7	•				
Previous work - defects contract(s) [P3.2]	- details of previous				
Inspection of adjoining pr	operties - details [P3.3]		Contractor to inspect and keep accurate records of the adjoining properties		
Handover of site in stage [P4.1]	es - specific requirements				
Enclosure of the works - [P4.2]	specific requirements	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 occupi	ed - details [P4.5]	Schooling will proceed in existing buildings while construction works are taking place.			
Services - known - specif	fic requirements [P4.6]	Known services are shown drawings SUR101, SUR103, SUR105			Irawings SUR101,
Water	By contractor	Yes/no?	Yes	-	tered connection m local authority
[P8.1]	By employer	Yes/no?			
	By employer	Yes/no?			
Electricity [P8.2]	By contractor	Yes/no?	Yes		tered connection m local authority
	By employer	Yes/no?			
	By employer	Yes/no?			
Ablution and welfare	By contractor	Yes/no?	Yes		
facilities [P8.3]	By employer	Yes/no?			



Communication facilities - specific requirements [P8.4]	
Protection of the works - s pecific requirements [P11.1]	Refer to Part C3: Scope of Works of the contract document
Protection / isolation of existing works and works occupied in sections - 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 agreement 1.1 Definitions AGREEMENT: The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and JBCC® contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representatives of the parties CONSTRUCTION PERIOD: The period commencing on the date of possession of the site by the contractor and ending on the date of practical completion CONTRACT DATA FOR ORGANS OF STATE AND OTHER PUBLIC SECTOR BODIES: The document listing the Organs of State and other Public Sector Bodies' requirements and the project specific information 3.0 Offer and Acceptance Amend 3.3 to read as follows: This agreement 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 latent defects liability period [22.0] notwithstanding termination [29.0] or the certification of final completion [21.0] and final payment [25.0] 6.0 Employer's Agents Add the following as 6.7: In terms of the clauses listed hereunder, the **employer** has retained its authority and has not given a mandate to the principal agent. The employer 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



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

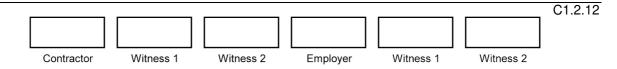
27.1.5: Not applicable

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



C TENDERER'S SELECTION

C 1.0 Securities [11.0]

Guarantee for construction: Select Option A or B B

Option A	Guarantee for construction (variable) by contractor [11.1.1]		
Option B Guarantee for construction (fixed) by contractor [11.1.2]			
Guarantee for payment by employer [11.5.1; 11.10] Not applicable			
Advance payment, subject to a guarantee for advance Not applicable			

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

Year 1 contractor 's annual holiday period	start date	end date	
Year 2 contractor 's annual holiday period	start date	end date	
Year 3 contractor 's annual holiday period	start date	end date	

C 3.0 Payment of preliminaries [25.0]

Contractor's selection

Select Option A or B	Α

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

Payment methods

Option A	The preliminaries shall be paid in accordance with an amount prorated to the value of the works executed in the same ratio as the amount of the preliminaries to the contract sum , which contract sum shall exclude the amount of preliminaries . Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio
Option B	The preliminaries shall be paid in accordance with an amount agreed by the principal agent and the contractor in terms of the priced document 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 principal agent and adjusted from time to time as may be necessary to take into account the rate of progress of the works

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]

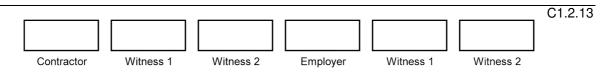
Contractor's selection

Select Option A or B	Α
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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**



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

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**

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

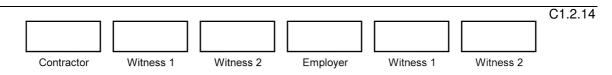
Option B	calendar days in the initial construction period [26.9.4]
	The adjustment shall take into account the resources as set out in the detailed breakdown of the preliminaries for the period of construction during which the delay occurred

Failure to provide particulars within the period stated

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



Guarantee for Construction

For use with the JBCC® Principal Building Agreement

GUARANTOR DETAILS AND DEFINITIONS

edition/date

Cuerenter	1	
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	er / not applicable Last Section	
	CC [®] format Interim Payment Certificates, the Final Payment Certificate, the rtificate of Practical Completion and the Certificate of Final Completion	
1.0 GUARANTEE FOR CON	STRUCTION (Variable)	
	for Construction (Variable) in terms of the Agreement has been selected this clause 1.0 apply. The Guarantor's liability shall be limited to the diminishing amounts of the follows:-	
GUARANTOR'S LIABILITY PERIOD OF LIABILITY		
1.1.1. Maximum Guaranteed Sum (not exceeding 10% of the contract sum) in the amount of: 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	
Amounts in words:		
	C1.3.1	
Contractor V	Vitness 1 Witness 2 Employer Witness 1 Witness 2	

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

1.1.2.		e Guaranteed Sum (not % of the contract sum) in	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
Amour	nt in words:		
1.1.3.		e Guaranteed Sum (not % of the contract sum) in	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
Amour	nt in words:		
1.1.4.		e Guaranteed Sum (not % of the contract) in	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
Amour	nt 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

PERIOD OF LIABILITY

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

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



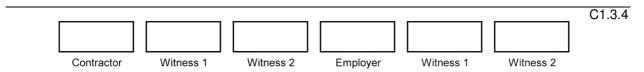
- 4.0. Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
 - 4.1. A copy of a first written demand notice issued by the Employer to the Contractor stating 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 Signate	ory 1:	Guarantor's Signat	tory 2:	
With	ess:	Witr	ness:	
Contract	tor Witness 1 W	/itness 2 Employer	Witness 1 Witn	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.



Contract: SSC WC 1 (2024/2025) DALRRD Part C1 : Contract Data Section C1.4: Occupational Health & Safety Agreement 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 asBeing 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:

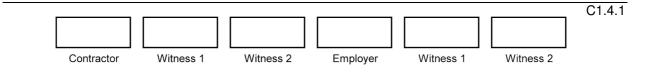
.....

And the

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

1. DEFINITIONS

1.1	CONTRACTOR	Means the "Contractor" as defined in the "Principal Contract" Annexed hereto in his capacity as mandatory.
1.2	MANDATORY	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	THE PRINCIPAL CONTRACT	Means the contract annexed hereto as annexure "A".
1.4	DEPARTMENT	Means the Department Agriculture Land Reform and Rural Development.
1.5	RISK CONTROL OFFICER	A person appointed in writing by Department.



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

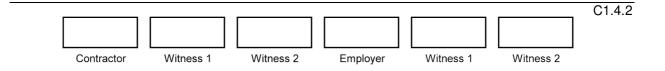
2. OBJECTIVE

- 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 though those officials or persons who are generally or specifically charge 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.



- 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 whosoever 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

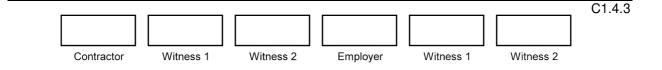
- 4.1 The "Department" requires a high standard of safe work performance from all employees and expects that the standard be maintained by the "Contractor" within the "Department's" jurisdictional area or on its premises.
- 4.2 Irrespective of human considerations, the maintaining of these health and 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:



- 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 AN FENDING

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

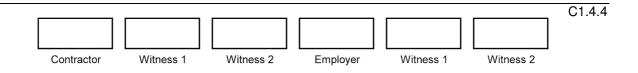
- 8.1 No equipment or appliance belonging to "Department" may be used without written permission from "Department".
- 8.2 Unless prior arranged, "Contractors" must bring sufficient tools and equipment to the site to finish the contract, including offices and storerooms. The mentioned equipment remains 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



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

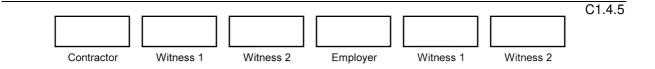
- 14.1 All incidents referred to in Section 24 of the Occupational Health and Safety Act and or other incidents shall be reported, by the "Contractor", to the Department of Labour, as well as to the "Department" and should such an incident take place outside normal working hours, on a Saturday, Sunday 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



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

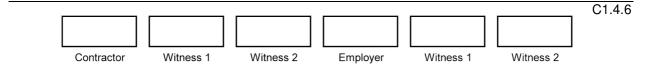
20.1 The "Contractor" shall ensure that no liquor, drugs, dangerous weapons or firearms be brought onto the premises.

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;



- 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, subcontractors and/or representatives to comply with the provisions referred to in subparagraph 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 subparagraph 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" INDENTIFICATION BOARD

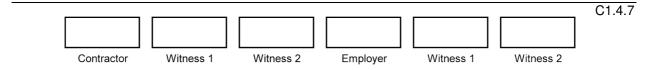
23.1 The "Contractor" shall provide on any work premises a temporary identification board containing at all worksites the following information:

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"

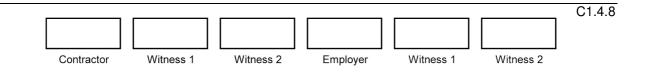
24. ACKNOWLEDGEMENT

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



26.	REMAR	KS	
			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
Contracto	or	:	
Employe	r	:	Department Agriculture Land Reform and Rural Development
Contract		:	
l/we			Hereafter the "Contractor"
indirectly "Departm to prever	from th nent", as v nt respons	e exec well as o sibility fo	emnifies the Department against any claim of whatever sort which may arise directly or oution by me/us of the above-mentioned contract and which may be instituted against of any loss or damage which the "Department" suffers or expenditure the "Department" incurs or such claim, loss or damage, whatever the cause of such claim may be or whatever loss or " suffers.
THUS do	one and s	igned a	tt on this day of 2023

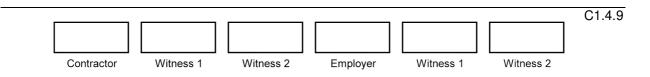


- 1.
- 2.

CONTRACTOR

DEPARTMENT

C.
R 2
REVENUE STAMP

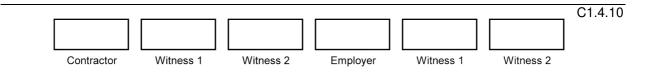


ACKNOWLEDGEMENT CERTIFICATE

I, in my capacity	as					
Duly authorized I	hereto			repre	esenting	
Of a copy of the regarding all wor	e Departn ks and se	nent's safety manual fo rvices which must be ex Safety Act, 1993 (Act 85/	r contractors and ecuted by the Con	the under mentioned	d person as	my supervisor
SIGNED AT		ON .			2023.	
I, declare that I am	ı familiar v	vith the contents of the D	Department Safety	accept the abover Manual for contracto	nentioned app rs.	pointment, and
		CASUALTIE	S REGISTRATION	NUMBER		
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 REVENUE STAMP

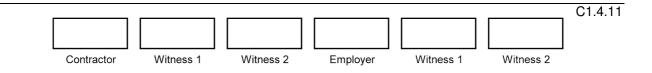


ACKNOWLEDGEMENT CERTIFICATE

I, in my capacity	/ as		
		representing	
Of a copy of th regarding all wo	ne Depa orks and	rtment's safety manual for contractors and the under mentioned person as m services which must be executed by the Contractor. The appointment is done in d Safety Act, 1993 (Act 85/1993).	
SIGNED AT			
I, declare that I ar	n familia	accept the abovementioned appo r with the contents of the Department Safety Manual for contractors.	intment, and
		CASUALTIES REGISTRATION NUMBER	
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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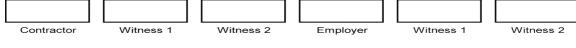
DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

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

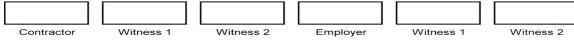
PART C2: PRICING DATA



PRICING DATA

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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



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, <u>shall not be erased or painted out</u>. A line shall be drawn through the incorrect entry and the correct entry shall be written above in black ink and the <u>full signature</u> 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
m²	=	square metre
m²-pass	=	square metre pass
m³	=	cubic metre
m³-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: Lump sum:	The product of the quantity and the agreed rate for an item. 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: Prime cost sum:	An amount provided for work the scope and/or the necessity of which is undecided. An amount provided to cover the cost price of certain goods, services or materials.

Contractor

Witness 1 V

Witness 1

- 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 <u>www.stanza.org.za</u> or <u>www.iso.org</u> 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.

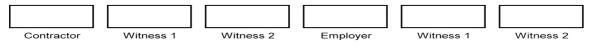


DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

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

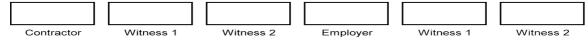


C 2.2 PROVISIONAL BILLS OF QUANTITIES

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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TOTAL SUMMARY

119.139

DECLARATION

120



ltem No		Unit	Quantity	Rate	Amount
	SCHEDULE A				
	SECTION A1				
	PRELIMINARIES				
	BUILDING AGREEMENT AND PRELIMINARIES				
	The JBCC 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 JBCC Principal Building Agreement contract data form an integral part of this agreement				
	The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities , amended as hereinafter described				
	The contractor 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 agreement such item is marked N/A signifying "not applicable"				
	Where standard clauses or alternatives are not entirely applicable to this agreement 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				
	Carried Forward			R	
	Schedule A 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

Carried Forward

Schedule A Section A1: Preliminary & General R

	Brought Forward	R	
	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		
	Carried Forward	R	
	Schedule A Section A1: Preliminary & General		

	Brought Forward		R	
	Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained			
	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			
	Abbreviated descriptions			
	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			
	Legal status of contractor			
	If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:			
	 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			
	F: T:	lte	m	
2	Clause 2.0 - Law, regulations and notices			
	F: T:	lte	m	
	Carried Forward		R	
	Schedule A			
	Schedule A Section 1A: Preliminary & General			

2

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

I		Brought Forward	R	
	1.1 Dut	ies [6.2] :		
		nciple agent is responsible for the architectural functional design and quality inspection of the		
	1.2 Co i	ntract instructions [6.2; 17.1] :		
	1.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement		
	1.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works		
	1.2.3	The site [13.0]		
	1.2.4	Compliance with the law , regulations and bylaws [2.1]		
	1.2.5	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works		
	1.2.6	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]		
	1.2.7	Removal or re-execution of work		
	1.2.8	Removal or substitution of any materials and goods		
	1.2.9	Protection of the works		
	1.2.10	Making good physical loss and repairing damage to the works [23.2.2]		
	1.2.11	Rectification of defects [21.2]		
	1.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion , a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion		
		Carried Forward	R	
	Schedu Section	le A A1: Preliminary & General		

	Brought Forward	R
1.2.13	Expenditure of budgetary allowances , prime cost amounts and provisional sums	
1.2.14	Appointment of a subcontractor [14.0; 15.0]	
1.2.15	Work by direct contractors [16.0]	
1.2.16	On suspension or termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]	
2. <u>Civil</u>	l and structural engineer	
	hat the contract instructions hereinafter are ed from those listed in clause 17.1 of the JBCC	
2.1 Du	ties [6.2] :	
aspect	vil and structural engineer is responsible for all ts of civil and structural engineering design and inspection of the works	
2.2 Co	ontract instructions [6.2; 17.1] :	
2.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement	
2.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works	
2.2.3	The site [13.0]	
2.2.4 bylaws	Compliance with the law , regulations and [2.1]	
2.2.5	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works	
2.2.6	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
	Carried Forward	R
Schedi Sectior	ule A n A1: Preliminary & General	

	Brought Forward	
2.2.7	Removal or re-execution of work	
2.2.8 goods	Removal or substitution of any materials and	
2.2.9	Protection of the works	
	Making good physical loss and repairing e to the works [23.2.2]	
2.2.11	Rectification of defects [21.2]	
2.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion	
2.2.13	Expenditure of budgetary allowances , prime cost amounts and provisional sums	
3. <u>Elec</u>	trical engineer	
	at the contract instructions hereinafter are d from those listed in clause 17.1 of the JBCC	
3.1 Dut	ies [6.2] :	
electric the wo quantity installa assess	ectrical engineer is responsible for all aspects of al engineering design and quality inspection of rks ? and, where appointed by the employer for y surveying services in respect of the electrical tions, for all measurements, valuations, financial ments and all other quantity surveying and cost functions	
	Carried Forward	
Schedu Sectior	ile A A1: Preliminary & General	

R

R

	Brought Forward		R	
3.2 Co	ntract instructions [6.2; 17.1] :			
3.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
3.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
3.2.3 bylaws	Compliance with the law , regulations and [2.1]			
3.2.4	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
3.2.5	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
3.2.6	Removal or re-execution of work			
3.2.7 goods	Removal or substitution of any materials and			
3.2.8	Protection of the works			
3.2.9	Making good physical loss and repairing damage to the works [23.2.2]			
3.2.10	Rectification of defects [21.2]			
3.2.11	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
3.2.12	Expenditure of budgetary allowances , prime cost amounts and provisional sums			
	Carried Forward		R	
Schedu Section	le A A1: Preliminary & General			

	Brought Forward	R	
4. <u>Fire</u>	consultant		
	nat the contract instructions hereinafter are ad from those listed in clause 17.1 of the JBCC		
4.1 Du	ties [6.2] :		
	e consultant is responsible for all aspects of I fire design and quality inspection of the works		
4.2 Co	ntract instructions [6.2; 17.1] :		
4.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement		
4.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works		
4.2.3 bylaws	Compliance with the law , regulations and [2.1]		
4.2.4	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works		
4.2.5	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]		
4.2.6	Removal or re-execution of work		
4.2.7 goods	Removal or substitution of any materials and		
4.2.8	Protection of the works		
4.2.9 4.2.10	Making good physical loss and repairing damage to the works [23.2.2]		
4.2.11	Rectification of defects [21.2]		
	Carried Forward	R	
Schedu Sectior	ule A n A1: Preliminary & General		

		Brought Forward		R	
	4.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
	4.2.13	Expenditure of budgetary allowances , prime cost amounts and provisional sums			
	5. <u>Hea</u>	Ith and safety consultant			
	5.1 Du	ties [6.2] :			
	aspect deroga safety functio	alth and safety consultant is responsible for all s of health and safety of the works . Without ting from the generality thereof, the health and consultant will perform the following specific ns and duties in respect of the health and safety s of the works . He shall:			
	5.1.1	Act as the employer's agent in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act,1993 as amended			
	5.1.2 specific	Prepare and update the health and safety cation for the works			
	5.1.3 plan fo	Agree with the contractor the health and safety r the works			
	5.1.4	Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations			
	5.1.5	Stop the execution of the works where the agreed specification or plan is not adhered to?			
	F:	V:	ltem		
	Т:		item		
7	Clause	7.0 - Design responsibility			
		V:	ltem		
	1:				
		Carried Forward		R	
	Schedu Sectior & Gene	n A1: Preliminary			

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

	Brought Forward		R	ĺ
	Notice board			
	The contractor shall erect in positions approved by the principal agent permanent notice boards, and erect, maintain and remove on practical completion temporary notice boards, provided on typical drawings and as approved by the principal agent listing the names and logos of the employer , the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]			
	Statutory and other notices			
	The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor . The contractor shall pay all deposits or fees in this regard			
	It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto			
	F: V:	ltem		
	Т:			
13	Clause 12.0 Setting out			
13	Clause 13.0 - Setting out F:V:			
	F: T:	ltem		
14	Clause 14.0 - Nominated subcontractors	ltem		
	F: V:			
	Т:			
15	Clause 15.0 - Selected subcontractors			
	F: V:			
	Т:	ltem		
16	Clause 16.0 - Direct contractors			
	Attendance on direct contractors			
	In respect of direct contractors the contractor shall:			
	Carried Forward		R	
	Schedule A Section A1: Preliminary & General			

	Brought Forward		R	
	 Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 			
	2. Allow the use of personnel welfare facilities, where provided			
	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			
	4. Permit the direct contractor 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 [16.1]			
	F: V:	ltem		
	Т:			
17	Clause 17.0 - Contract instructions			
	Site instructions			
	Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor ?			
	F: V:	ltom		
	Т:	Item		
	Completion (A18 - A24)			
18	Clause 18.0 - Interim completion	N/A		
19	Clause 19.0 - Practical completion			
	F:			
	T:	ltem		
20	Clause 20.0 - Completion in sections			
	F: V:			
	T:	ltem		
21	Clause 21.0 - Defects liability period and final completion			
	F:			
	Т:	ltem		
	Carried Forward		R	
	Schedule A Section A1: Preliminary & General			

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

	Brought Forward		R	
	Tenant installation/user requirements delayed			
	There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to practical completion			
	Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works			
	The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission			
	Cost of claims			
	All costs incurred by the contractor in the preparation of claims shall be borne by the contractor . This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6 & 7] from making a determination on costs			
	Claims from subcontractors			
	The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6]			
	F: V:	lteres		
	Т:	ltem		
27	Clause 27.0 - Recovery of expense and/or loss			
	F: V:	Item		
	Т:	lien		
	Suspension and termination (A28 - A29)			
28	Clause 28.0 - Suspension by the contractor			
	Carried Forward		R	
	Schedule A Section A1: Preliminary & General			

	Brought Forward		R	1
	F: V:	ltem		
29	Clause 29.0 - Termination			
	F: T:	ltem		
	Dispute resolution (A30)			I
30	Clause 30.0 - Dispute resolution			I
	F: T:	ltem		
31	Agreement The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties			
	F: V: T:	ltem		
32	Contract data			I
	Before submission of his tender the contractor is to complete the tenderer's selections in the contract data			
	F: T:	ltem		
	SECTION B: GENERAL PRELIMINARIES			1
	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			
	Definitions and interpretation (B1)			
33	Clause 1.1 - Definitions			I
	F: T:	ltem		
34	Clause 1.2 - Interpretation			I
	F: V: T:	ltem		
	Carried Forward		R	I
	Schedule A Section A1: Preliminary & General			

	Brought Forward		R	
	Documents (B2)			
35	Clause 2.1 - Checking of documents			
	F: T:	ltem		
36	Clause 2.2 - Provisional bills of quantities			
	Multiple procurement			
	These bills of quantities 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 budgetary allowances and/or provisional sums			
	F: T:	Item		
07				
37	Clause 2.3 - Availability of construction information			
	F: T:	Item		
38	Clause 2.4 - Ordering of materials and goods			
00	F:V:			
	T:	Item		
	Previous work and adjoining properties (B3)			
39	Clause 3.1 - Previous work - dimensional accuracy			
	F: T:	ltem		
40	Clause 3.2 - Previous work - defects			
	F: V:			
	Т:	Item		
41	Clause 3.3 - Inspection of adjoining properties			
	F: T:	Item		
	·			
	Convied Fernand		D	
	Carried Forward		R	
	Schedule A Section A1: Preliminary & General			

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

	Brought Forv	vard	R
	Samples, shop drawings and manufacturer's		
	instructions (B6)		
51	Clause 6.1 - Samples of materials		
	F: V:	Item	
	Т:	lien	
52	Clause 6.2 - Workmanship samples		
	F: V:		
	Т:	ltem	
53	Clause 6.3 - Shop drawings		
	F: V:		
	Т:	Item	
54	Clause 6.4 - Compliance with manufacturer's instructions		
	F: T:	Item	
	1	lien	
	Deposits and fees (B7)		
55	Clause 7.1 - Deposits and fees		
	F: V:	Item	
	Т:		
	Temporary services (B8)		
56	Clause 8.1 - Water		
	F: T:	Item	
	·		
57	Clause 8.2 - Electricity		
	F: V:		
	Т:	ltem	
58	Clause 8.3 - Ablution and welfare facilities		
	F: V:		
	Т:	Item	
59	Clause 8.4 - Communication facilities		
	F: V:		
	Т:	Item	
	Carried Forv	ward	R
	Schedule A		
	Section A1: Preliminary		
	& General		

	Brought Forward		R	
	Prime cost amounts (B9)			
60	Clause 9.1 - Responsibility for prime cost amounts F: T:	ltem		
	Attendance on subcontractors (B10)			
61	Clause 10.1 - General attendance			
	<u>User note</u>			
	General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement			
	F: T:	ltem		
62	Clause 10.2 - Special attendance			
	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			
	F: T:	ltem		
	<u>General (B11)</u>			
63	Clause 11.1 - Protection of the works			
	F: T:	ltem		
64	Clause 11.2 - Protection/isolation of existing works and works occupied in sections			
	F: T:	ltem		
	Carried Forward		R	
	Schedule A Section A1: Preliminary & General			

	Brought Forward		R	
65	Clause 11.3 - Security of the works			
	F: V:	Itom		
	Т:	ltem		
66	Clause 11.4 - Notice before covering work			
	F: V:			
	Т:	ltem		
67	Clause 11.5 - Disturbance			
	Disturbance			
	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 construction period or contract value whatsoever			
	F:T:	ltem		
68	Clause 11.6 - Environmental disturbance			
	The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works			
69	Clause 11.7 - Works cleaning and clearing			
	F: T:	ltem		
70	Clause 11.8 - Vermin			
	F: V:	ltem		
	T:			
71	Clause 11.9 - Overhand work			
	F: T:	Item		
	1			
	Carried Forward		R	
	Schedule A Section A1: Preliminary & General			

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

	Brought Forward		R	
76	Co-operation of the contractor for cost management			
	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget			
	F:T:	ltem		
77	Overloading			
	The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense			
	F:T:	Item		
78	Health and safety			
	Without limiting the generality of the provisions of clause 2.0, the contractor's 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 employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works . The contractor 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]			
	Carried Forward		R	
	Schedule A Section A1: Preliminary & General			

	Brought Forward		R	
	The contractor shall:			
	 Comply with the health and safety specification for the works 			
	2. Prepare and agree with the health and safety consultant the health and safety plan for the works			
	3. Cooperate with the health and safety consultant in all respects			
	 Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 			
	 Conform to the conditions contained in the employer's health and safety specification 			
	F: V:			
	Т:	ltem		
79	Broad based black economic empowerment (BBB-EE)			
	Tenders submitted will be evaluated taking into account their empowerment rating			
	The employer will be monitoring the broad based black economic empowerment (BBB-EE) status of the contractor throughout the execution of the works			
	The contractor is to submit to the principal agent on an annual/monthly basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBB-EE rating including proof of the said rating	ltem		
	F:T:			
80	Advertising rights			
	The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement			
	F:T:	ltem		
	Carried Forward		R	
	Schedule A Section A1: Preliminary & General			

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

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B1: SITE CLEARANCE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	ΝT
NO						R	с
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			L
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			
*	ied Forward To Su						

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B2: EARTHWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	TΙ
NO						R	с
B2	SANS 1200 DA	EARTHWORKS (small works)					
	8.3.1	Excavation					
B2.1		a) Remove topsoil to nominal depth 150 mm, stockpile, and maintain	m²	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	m³	25			
B2.3		ii) Cut to Spoil	m ³	15			
B2.4		iii)) Cut to Stockpile and maintain	m ³	10			
B2.5		iv) Stockpile to Fill and compact to 93% MOD AASHTO density in layers not exceeding 150	m 3	10			
		mm	m ³	10			
		c) Extra-over for					
B2.6		2) Hard rock excavation	m ³	4			
B2.7		3) Boulder excavation, Class A	m ³	1			
B2.8		4) Boulder excavation, Class B	m³	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 ³	90			
		b) Extra-over for					
B2.10		2) Hard rock excavation	m ³	1			
	8.3.4	Importing of materials from borrow pits					
	0.0.1	Under concrete surface beds					
D0 11							
B2.11		i) G9 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm	m³	20			
B2.12		ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm	m³	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 ³	200			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B2: EARTHWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
Brought Fo	orward						
B2.14		ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm	m ³	45			
	8.3.6	Topsoiling					
B2.15		Stockpile to fill, spread and compact	m³	50			
		Risk of collapse of excavations					
B2.16		Sides of trench and hole excavations not exceeding 1.5m deep	m	75			
		Soil insecticide in accordance with SANS 5859					
B2.17		Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc, filling in furrows and ramming	m²	290			
B2.18		To bottoms and sides of trenches etc	m ²	391			
Total Carr	ied Forward To Su	ummary					

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B3: CONCRETE (STRUCTURAL)

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	-
NO						R	с
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	m²	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)	m³	18			
B3.3	SANS1200 G	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	8.4.3	25MPa/19mm concrete					
B3.3.1		Strip footings	m ³	39			
B3.3.2		Surface beds	m³	29			
B3.3.3		Ramps	m ³	4			
B3.3.4		Steps	m³	2			
B3.4	8.2	SCHEDULED FORMWORK ITEMS					
Total Carr	ied Forward						

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B3: CONCRETE (STRUCTURAL)

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought F	orward		1				
		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 Carr	ied Forward To Su	Immony	1	I			+

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B4: MASONRY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
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 compresive 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	m²	119			
B4.3.2		ii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277	m²	155			
B4.4		SUPERSTRUCTURE					
B4.4.1		i) Half brick walls - 115mm wide solid clay NFP SABS 277	m²	64			
B4.4.2		ii) One brick Walls - 230mm wide solid clay NFP to SABS 277	m²	178			
B4.4.3		iii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277	m²	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	m²	2			
Total Carrie	d Forward						

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B4: MASONRY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	T
NO						R	с
Brought Fo	prward	1	,				
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			L
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			L
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					L
B4.10.1		110 x 75mm Lintels in lengths not exceeding 3m	m	126			L
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 and 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			
	ed Forward To Su						

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B5: WATERPROOFING

PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
					R	0
PSBW 6.2.9	WATERPROOFING					
	SUPPLEMENTARY PREAMBLES					
	Waterproofing: Waterproofing on roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.					
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)					
	In walls	m²	58			
	In walls vertically at windows and doors	m²	39			
	One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape					
	On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints (measured net).	m²	322			
	Primer and two coats heavy duty bitumen emulsion waterproof coating					
	On bagged walls	m²	117			
PSBW 6.2.10	SEALING STRIPS, JOINT SEALANTS, ETC					
	Polyurethane sealing compound including backing cord, bond breaker and primer					
	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	206			
	10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	145			
	PSBW 6.2.9	PSBW 6.2.9 WATERPROOFING SUPPLEMENTARY PREAMBLES Waterproofing: Waterproofing on roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs. DAMPPROOFING OF WALLS AND FLOORS One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B) In walls In walls vertically at windows and doors One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints (measured net). Primer and two coats heavy duty bitumen emulsion waterproof coating On bagged walls PSBW 6.2.10 SEALING STRIPS, JOINT SEALANTS, ETC Polyurethane sealing compound including backing cord, bond breaker and primer 10 x 10mm In vertical expansion joints in floors including raking out expansion joint filler as necessary	PSBW 6.2.9 WATERPROOFING SUPPLEMENTARY PREAMBLES Waterproofing: Waterproofing on roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs. DAMPPROOFING OF WALLS AND FLOORS One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B) In walls m² In walls vertically at windows and doors m² One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape m² On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints (measured net). m² Primer and two coats heavy duty bitumen emulsion waterproof coating m² On bagged walls m² PSBW 6.2.10 SEALING STRIPS, JOINT SEALANTS, ETC Polyurethane sealing compound including backing cord, bond breaker and primer m 10 x 10mm In expansion joints in floors including raking out expansion joint filler as including raking out expansion joint filler as m	PSBW 6.2.9 WATERPROOFING SUPPLEMENTARY PREAMBLES Image: Control of the second state of the	PSBW 6.2.9 WATERPROOFING Image: Constraint of the second state	PSBW 6.2.9 WATERPROOFING SUPPLEMENTARY PREAMBLES Image: Supplement of the second state of the s

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B6: ROOF COVERINGS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	c
B6	PSBW 6.2.12	ROOF COVERINGS					
B6.1		PROFILED METAL SHEETING AND ACCESSORIES					
		Global Roofing Solutions (or similar approved) 686mm cover IBR 686 profile roll-formed in continuous lengths from 0.53mm thick AZ200 spelter G550 Zincal® roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres (final spacing to be calculated by an Engineer) using Hex Flange Head + EPDM Seal self-drilling Type 17 drill point, No. 12-11 x 85mm long fasteners (fastener lengths may vary depending on the insulation used or requirements). Purlin fixed to second, fourth and sixth crest of each sheet and at all crests at sheet ends, all following the manufacturer's specifications by a GRS approved contractor.					
B6.1.1		Roof covering not exceeding 25 degree pitch	m²	336			
B6.1.2		Ridge cappings	m	32			
B6.1.3		Side wall flashing	m	3			
B6.1.4		Cover flashing flashings	m	3			
B6.1.5		Gable trims	m	44			
B6.1.6		Narrow and broad flute closers	m	48			
B6.2		ROOF AND WALL INSULATION					
		Type 'Sisalation FR405' or similar and approved					
B6.2.1		Insulation sheeting laid taut over purlins (at approximately 500mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edge where required	m²	336			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B7: CARPENTRY AND JOINERY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
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 brandering (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	No.	1			

<u>CONTRACT No.: SSC WC 1 (2024/2025)</u> CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH TENDER SCHEDUILE B: RAMPANANI, KLEINMOND

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B7: CARPENTRY AND JOINERY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	ΝT
NO						R	с
Brought F	orward		· ·				
B7.4.3		Extra over for wrought splayed purlins at eaves	m	48			
B7.4.4		Extra over for 750mm long wrought rafter foot	No.	64			
B7.5	PSBW 6.2.13	EAVES, VERGES, ETC					
		Medium density plain fibre-cement fascias and barge boards					
B7.5.1		10 x 150mm Fascias and barge boards, including aluminium H-profile joiners, etc	No.	92			
B7.6	PSBW 6.2.17	SKIRTINGS					
		Wrought meranti					
B7.6.1		22 x 90mm Skirtings, plugged	No.	186			
B7.7	PSBW 6.2.17	DOORS ETC					
B7.8		SUPPLEMENTARY PREAMBLES					
		Fire doors					
		Fire doors are to be in accordance with SANS 1253					
		Semi-solid flush doors with commercial veneer					
B7.8.1		40mm Door 813 x 2,032mm high	No.	10			
		Solid laminated external quality flush doors with commercial veneer hung to steel frames					
B7.8.2		40mm Door 813 x 2,032mm high	No.	5			
B7.9	PSBW 6.2.17	FRAMED FRAMES ETC					
		Wrought meranti					
B7.9.1		86 x 53mm Rebated frames, plugged	m	20			
B7.10		BEADS, ARCHITRAVES ETC					
		Wrought meranti					
B7.10.1	PSBW 6.2.4	110 x 25mm Window sills, fixed with adhesive to grounds	m	45			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B8: CEILINGS, PARTITIONS AND ACCESS FLOORING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
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 brandering between roof timbers etc	m²	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 brandering at 300mm centres and cross brandering at 600mm centres	m²	250			
B8.4.2		Sloping ceilings including 38 x 38mm sawn softwood brandering at 600mm centres	m²	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			
Tatal C	ed Forward						

SCHEDULE B: BAMBANANI - KLEINMOND

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SECTION B8: CEILINGS, PARTITIONS AND ACCESS FLOORING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
Brought Fo	rward	T					
B8.5		PARTITIONS ETC					_
B8.6		SUPPLEMENTARY PREAMBLES					
		Flush plastered gypsum plastered board partitioning system.					
		Partitions consisting of 63,5mm steel studs inserted at 600mm centres into 63,5mm steel track at top and bottom clad on both sides as described, including additional studs as necessary at abutments, ends, etc. Boards shall be fixed in strict accordance with the manufacturer's instructions and all joints shall be taped and jointed.					
		Unless otherwise described rates for partitions shall be deemed to include for standard flat section aluminium skirtings on both sides.					
		Wall paper and/or paint and varnish finishes are given elsewhere.					
		Steel stud partitions with both sides clad with one layer of 12,5mm plasterboard.					
B8.6.1		Partitions 2.8m high with bottom track plugged and top track fixed to suspended ceiling tees	m	2			
B8.6.2		Extra over partitions 2.8m high for vertical abutment	No.	1			
B8.6.3		Extra over partitions 2.8m high for fair end	No.	1			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B9: FLOOR COVERINGS, WALL LININGS, ETC

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
B9	PSBW 6.2.19	FLOOR COVERINGS, WALL LININGS, ETC					
B9.1		SUPPLEMENTARY PREAMBLES					
		Fixing: Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc.					
B9.2		FLOOR COVERINGS					
		300 x 300 x 2mm Type "Marleyflex" or similar and approved semi-flexible vinyl tiles					
B9.2.1		On floors	m²	218			
Total Carr	ied Forward To Su	ummarv					Τ

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B10: METALWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						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					T
		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			
T C	ed Forward						+

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B10: METALWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	-
NO						R	c
Brought For	rward		,				
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			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B11: PLASTERING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	
NO						R	с
B11	PSBW 6.2.6	PLASTERING					
B11.1	PSBW 6.2.7	SCREEDS					
		Screeds wood floated on concrete					
B11.1.1		25mm Thick on floors and landings	m²	254			
B11.1.2		25mm Thick on ramps	m²	25			
B11.1.3		25mm Thick on treads and risers of stairs	m²	12			
B11.2		INTERNAL PLASTER					
		Cement plaster steel trowelled, on brickwork					
B11.2.1		On walls	m²	608			
B11.2.2		On narrow widths	m²	17			
B11.2.3		On newly built-up walls	m²	14			
B11.3		EXTERNAL PLASTER					
		Cement plaster steel trowelled, on brickwork					
B11.3.1		On walls	m²	456			
B11.3.2		On narrow widths	m²	26			
B11.3.3		110 x 85mm Triangular fillets against walls, kerbs, etc	m	45			
Total Carri	ed Forward To Su	ummary 119.43					

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B12: TILING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
B12	PSBW 6.2.5	TILING					
B12.1		SUPPLEMENTARY PREAMBLES					
		Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding.					
B12.2		WALL TILING					
		200 x 200 x 5mm Ceramic tiles (PC R 200/m ²) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout					
B12.2.1		On walls in isolated panels, splashbacks, etc.	m²	22			
B12.2.2		On narrow widths	m²	3			
B12.3		FLOOR TILING					
		300 x 300 x 8mm Non slip ceramic floor tiles (PC R 200/m ²) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout					
B12.3.1		On floors and landings	m²	61			
B12.3.2		On treads 300mm wide	m	24			
B12.3.3		On risers 200mm high of cut tiles	m	24			
B12.4		SUNDRIES					
		Aluminium dividing strips					
B12.4.1		3 x 10mm Flat section dividing strip between tiles	m	13			
		Aluminium corner protectors, stair nosings, expansion joint strips, etc					
B12.4.2		3 x 10mm Straight edge trim	m	55			
B12.4.3		25 x 10mm Tile-in stair nosing	m	24			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B13: PLUMBING AND DRAINAGE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	ΝT
NO						R	с
313		PLUMBING AND DRAINAGE					
313.1		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					

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B13: PLUMBING AND DRAINAGE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	11
NO						R	
Brought Fo	rward	·					
		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.					

SCHEDULE B: BAMBANANI - KLEINMOND

	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	11
NO						R	
Brought For	rward						
		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).					

SCHEDULE B: BAMBANANI - KLEINMOND

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	ΝT
NO						R	С
Brought Fo	orward		1				
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					

SCHEDULE B: BAMBANANI - KLEINMOND

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	ΝT
NO						R	c
Brought Fo	rward	-					
		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	m ³	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					

SCHEDULE B: BAMBANANI - KLEINMOND

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	(
Brought Fo	rward			I I I I I I I I I I I I I I I I I I I			\perp
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 Carrie							+

SCHEDULE B: BAMBANANI - KLEINMOND

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought For	ward						
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			

<u>CONTRACT No.: SSC WC 1 (2024/2025)</u> CONSTRUCTION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH TENDER SCHEDUILE B: RAMPANANI, KLEINMOND

SCHEDULE B: BAMBANANI - KLEINMOND

NO		DESCRIPTION	UNIT	QTY	RATE	AMOUN	11
						R	с
Brought For	ward	Γ		,			
		Disinfecting					
B13.12.10		Disinfecting water pipe and tank system	No.	1			
		Connection					
B13.12.11		Cutting into existing supply pipe for and forming junction with 25mm pipe	No.	1			L
		Testing					
B13.12.12		Testing water pipe system	No.	1			
B13.13		ELECTRIC WATER HEATERS					
		Kwikot or similar approved					
B13.13.1		150 Litre "Econoflo" wall electric water heater	No.	1			
B13.14		DRIP TRAYS, TANKS, ETC					
		0,6mm Galvanised sheet steel					
B13.14.1		750 x 750mm Drip tray for water heater, with 100mm high upstand all round with top edge bent over and with 22mm threaded outlet union	No.	1			
B13.15		FIRE APPLIANCES ETC					
B13.15.1		9kg Dry chemical powder fire extinguisher	No.	6			
B13.16		AS-BUILT DRAWINGS					
B13.16.1		Provision of as-built drawings	No.	1			
	d Forward To Su						_

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B14: GLAZING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	Г
NO						R	с
B14		GLAZING					
B14.1		TOPS, SHELVES, DOORS, MIRRORS, ETC					
		6mm Silvered float glass copper backed mirror and polished edges, fixed with double sided adhesive tape and silicone					
B14.1.1		Mirror 400 x 500mm high	No.	11			
Total Carrie	ed Forward To Sur	nmary					+

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B15: PAINTWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	-
NO						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	m²	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	m²	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	m²	9			
B15.4.2		Ceilings and cornices	m²	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	m²			Rate Only	
B15.6.2		Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m²	59			
B15.7		ON WOOD SURFACES					
		Two coats superior quality clear matt varnish					
B15.7.1		Doors	m²	46			
B15.7.2		Skirtings, rails, etc not exceeding 300mm girth	m	250			
B15.8		PAINTWORK ETC TO PREVIOUSLY PAINTED WORK					

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B15: PAINTWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	c
Brought Fo	rward						+
B15.9		ON EXTERNAL FLOATED PLASTER SURFACES					
		One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use					
B15.9.1		Walls	m²	143			
B15.10		ON FIBRE-CEMENT BOARD SURFACES					
		One coat extremely durable UV-resistant washable pure acrylic paint, on work in sound condition					
B15.10.1		Fascias and barge boards not exceeding 300mm girth	m	46			
	ed Forward To Su						+

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B16: ELECTRICAL WORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN ⁻	
NO						R	c
B16		ELECTRICAL WORK					
B16.1		Electrical Power Suppy and Installation	Prov.	100			
			Sum	120,000			
Tatal C							+
i otai Carrie	ed Forward To Su	mmary 110 FC					

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B17: SEWER RETICULATION

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	0
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 Onl	у
	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:					

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B17: SEWER RETICULATION

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	-
NO						R	с
Brought Fo	orward	_					
		Over and Up to					
B17.3.3		0,0 m to 1,5 m	No.	1			
B17.3.4		1,5 m to 2,5 m	No.			Rate Only	
	8.2.7	Encasing of pipes in concrete					
B17.3.5		Concrete encasing of pipes up to 200mm: Minimum Encasing of 25Mpa/19mm concrete around pipe	m³	1			
	8.2.11	Connection to existing sewer					
B17.3.6		Break into and connect to existing sewer pipe	No.	1			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B18: STORMWATER DRAINAGE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						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	m ³	4			
	8.2.2.3	Provision of Bedding by Importation from Commercial sources					
B18.2.3		a) Selected granular material	m ³	9			
B18.2.4		b) Selected fill material	m ³	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 Carr	ied Forward						\vdash

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B18: STORMWATER DRAINAGE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	c
Brought Fo	rward						
		b) Double Grid Inlet structure					
		Over and Up to					
318.3.4		0,0 m 1,5 m	No.			Rate Only	
			NO.			nale Only	
318.4		CONNECT TO EXISTING					
318.4.1		Connection to existing stormwater manhole (all inclusive)	No.	1			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B19: ROADWORKS

	1	1	1	i	SECTION B		
ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	
						R	c
B19		ROADWORKS					
B19.1	SANS 1200 DM	EARTHWORKS (ROADS, SUBGRADE)					
	8.3.3	Treatment of Roadbed					
B19.1.1		 150 mm thick Roadbed preparation and compaction of material to minimum of 93% MOD AASHTO density 	m ³	15			
B19.1.2	8.3.7	Cut to Spoil: Excavate in all material and dispose.	m³	2			
		Surface finishes					
B19.1.3		Shaping and Trimming of Road Reserves	m²	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	m³	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.	m²	150			L
B19.3.2		Import from stockpile and reinstate existing kerbs, pavers, etc.(all inclusive)	m²	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	m²	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 ² to 2 m ² (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			

SCHEDULE B: BAMBANANI - KLEINMOND

SECTION B19: ROADWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	-
NO						R	с
Brought Fo	prward						
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			

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (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 Carrie	d Forward To Summary Of Schedules	

Total Carried Forward To Summary Of Schedules

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C1: SITE CLEARANCE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
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			L
	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			
	ed Forward To Su						

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C2: EARTHWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	Т
NO						R	с
C2	SANS 1200 DA	EARTHWORKS (small works)					
	8.3.1	Excavation					
C2.1		a) Remove topsoil to nominal depth 150 mm, stockpile, and maintain	m²	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	m³	13			
C2.3		ii) Cut to Spoil	m ³	25			
C2.4		iii)) Cut to Stockpile and maintain	m ³	5			
C2.5		iv) Stockpile to Fill and compact to 93% MOD AASHTO density in layers not exceeding 150 mm	m ³	5			
		c) Extra-over for		-			
C2.6		2) Hard rock excavation	m³	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	m³	91			
		b) Extra-over for					
C2.8		2) Hard rock excavation	m³	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 ³	20			
C2.10		ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm	m ³	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	m³	110			
C2.12		ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm	m ³	40			
Total Carri	ed Forward						

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C2: EARTHWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
Brought F	orward						
	8.3.6	Topsoiling					
C2.13		Stockpile to fill, spread and compact	m³	290			
		Risk of collapse of excavations					
C2.14		Sides of trench and hole excavations not exceeding 1.5m deep	m	50			
		Soil insecticide in accordance with SANS 5859					
C2.15		Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc, filling in furrows and ramming	m²	283			
C2.16		To bottoms and sides of trenches etc	m²	377			
Total Carr	ied Forward To Su	ummary					

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C3: CONCRETE (STRUCTURAL)

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
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	m²	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)	m³	2			
C3.3	SANS1200 G	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	8.4.3	25MPa/19mm concrete					
C3.3.1		Strip footings	m ³	28			
C3.3.2		Surface beds	m ³	33			
C3.3.3		Ramps	m ³	3			
C3.3.4		Steps	m ³	2			
C3.4	8.2	SCHEDULED FORMWORK ITEMS					
Total Carri	ed Forward						

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C3: CONCRETE (STRUCTURAL)

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	c
Brought Fo	orward						
		Includes the necessary anchor and supports bolts and fastening components as specified in the drawings.					
	8.2.1	Rough formwork to sides					
C3.4.1		Strip footings	m²	12			
	8.2.2	Smooth formwork to Soffits:					
C3.4.2		Edges, risers, ends and reveals not exceeding 300mm high or wide	m	17			
C3.5	8.5	JOINTS					
		Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces					
C3.5.1		Not exceeding 300mm high to edges of surface bed	m	185			
C3.6	8.1.2	REINFORCEMENT					
	8.3.1	High tensile steel reinforcement to structural concrete work					
C3.6.1		up to 20mm diameter bars	t	2			
	8.3.2	Fabric reinforcement					
C3.6.2		Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m²	289			

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C4: MASONRY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT		
NO						R	с	
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 compresive 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	m²	49			L	
C4.3.2		ii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277	m²	41				
C4.4		SUPERSTRUCTURE						
C4.4.1		i) Half brick walls - 115mm wide solid clay NFP SABS 277	m²	67				
C4.4.2		ii) One brick Walls - 230mm wide solid clay NFP to SABS 277	m²	139				
C4.4.3		iii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277	m²	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	m²	41				

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C4: MASONRY

PAYMENT	MENT DESCRIPTION L	UNIT	QTY	RATE	AMOUNT		
					R	с	
orward	1						
PSBW 6.2.10	JOINTS						
	Joint forming material in movement joints						
	10mm Fibre board built in vertically through brick walls	m	41				
	BRICK REINFORCEMENT						
	2.5mm Galvanised brickwork reinforcement						
	75mm Wide reinforcement built in horizontally	m	3,108				
	150mm Wide reinforcement built in horizontally	m	971				
	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.						
	Galvanized Wire Butterfly Wall Ties: 225mm x 3.15mm thickness	No.	1,035				
	PRECAST LINTELS						
	Prestressed fabricated concrete lintels including necessary supports						
	110 x 75mm Lintels in lengths not exceeding 3m	m	77				
	ROOF TIES						
	Galvanised hoop iron cramps, ties, etc						
	30 x 1.2mm Roof tie 600mm long with one and built into brickwork and other end fixed to timber	No.	78				
ied Forward To Su							
		PSBW 6.2.10 JOINTS Joint forming material in movement joints 10mm Fibre board built in vertically through brick walls BRICK REINFORCEMENT 2.5mm Galvanised brickwork reinforcement 75mm Wide reinforcement built in horizontally 150mm Wide reinforcement built in horizontally 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. Galvanized Wire Butterfly Wall Ties: 225mm x 3.15mm thickness PRECAST LINTELS Prestressed fabricated concrete lintels including necessary supports 110 x 75mm Lintels in lengths not exceeding 3m ROOF TIES Galvanised hoop iron cramps, ties, etc 30 x 1.2mm Roof tie 600mm long with one and	PSBW 6.2.10 JOINTS Joint forming material in movement joints 10mm Fibre board built in vertically through brick walls m BRICK REINFORCEMENT 2.5mm Galvanised brickwork reinforcement 75mm Wide reinforcement built in horizontally m 150mm Wide reinforcement built in horizontally m WIRE WALL TIES m 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. No. PRECAST LINTELS No. PRECAST LINTELS n ROOF TIES Galvanized hoop iron cramps, ties, etc 30 x 1.2mm Roof tie 600mm long with one and m	PSBW 6.2.10 JOINTS Joint forming material in movement joints 10mm Fibre board built in vertically through brick walls m 41 BRICK REINFORCEMENT 2.5mm Galvanised brickwork reinforcement m 3,108 150mm Wide reinforcement built in horizontally m 3,108 150mm Wide reinforcement built in horizontally m 971 WIRE WALL TIES m 971 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. No. 1,035 PRECAST LINTELS Prestressed fabricated concrete lintels including necessary supports No. 1,035 110 x 75mm Lintels in lengths not exceeding 3m m 77 ROOF TIES Galvanised hoop iron cramps, ties, etc 30 x 1.2mm Roof tie 600mm long with one and	PSBW 6.2.10 JOINTS Joint forming material in movement joints inform Fibre board built in vertically through brick walls m 41 BRICK REINFORCEMENT m 41 2.5mm Galvanised brickwork reinforcement m 3,108 75mm Wide reinforcement built in horizontally m 3,108 150mm Wide reinforcement built in horizontally m 971 WIRE WALL TIES m 971 WiRE walls not less than 5no. per square meter wall area. No. 1,035 PRECAST LINTELS No. 1,035 PRECAST LINTELS m 77 ROOF TIES Galvanised hold hold prior cramps, ties, etc m 30 x 1.2mm Roof tie 600mm long with one and m 77	orward JOINTS JOINTS Joint forming material in movement joints Image: market in the imarket in the image: market in the image: market in the image: mar	

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C5: WATERPROOFING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
C5	PSBW 6.2.9	WATERPROOFING					
C5.1		SUPPLEMENTARY PREAMBLES					
		Waterproofing: Waterproofing on roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.					
C5.2		DAMPPROOFING OF WALLS AND FLOORS					
		One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)					
C5.2.1		In walls	m²	48			
C5.2.2		In walls vertically at windows and doors	m²	29			
		One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape					
C5.2.3		On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints (measured net).	m²	289			
		Primer and two coats heavy duty bitumen emulsion waterproof coating					
C5.2.4		On bagged walls	m²	61			
C5.3	PSBW 6.2.10	SEALING STRIPS, JOINT SEALANTS, ETC					
		Polyurethane sealing compound including backing cord, bond breaker and primer					
C5.3.1		10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	154			
C5.3.2		10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	82			

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C6: ROOF COVERINGS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
C6	PSBW 6.2.12	ROOF COVERINGS					
C6.1		PROFILED METAL SHEETING AND ACCESSORIES					
		Global Roofing Solutions (or similar approved) 686mm cover IBR 686 profile roll-formed in continuous lengths from 0.53mm thick AZ200 spelter G550 Zincal® roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres (final spacing to be calculated by an Engineer) using Hex Flange Head + EPDM Seal self-drilling Type 17 drill point, No. 12-11 x 85mm long fasteners (fastener lengths may vary depending on the insulation used or requirements). Purlin fixed to second, fourth and sixth crest of each sheet and at all crests at sheet ends, all following the manufacturer's specifications by a GRS approved contractor.					
C6.1.1		Roof covering not exceeding 25 degrees pitch	m²	300			
C6.1.2		Ridge cappings	m	32			
C6.1.3		Gable trims	m	31			
C6.1.4		Narrow and broad flute closers	m	49			
C6.2		ROOF AND WALL INSULATION					
		Type "Sisalation 405 - FR" or similar approved					
C6.2.1		Insulation sheeting laid taut over purlins (at approximately 500mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edge where required	m²	300			
TILC	ied Forward To Su						

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C7: CARPENTRY AND JOINERY

Image: Construction of the serve bolted of the serve bo	ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	Т
27.1 SUPPLEMENTARY PREAMBLES I	NO						R	с
Image: Note: State: Thems described as "nailed" shall be deemed to be fixed with hardened steel nails or shall be deemed to be fixed with hardened steel nails or shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "noiged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "noiged" shall be deemed to include screwing the fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "noiged" shall be deemed to include screwing the fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "noiged" shall be deemed to include plastic of both holes. Image: metal plugs at not exceeding 500mm centres, and where described as "noiged" shall be deemed to include plastic of both holes. Image: metal plugs at not exceeding 500mm centres, and where described as "noiged" shall be deemed to include plastic of both holes. Image: metal plugs at not exceeding 500mm centres, and where described as "noiged" shall be deemed to include plastic of both holes. Image: metal plugs at not exceeding 500mm centres, and where described as "noiged" shall be deemed to include shall be deemed to includ	C7		CARPENTRY AND JOINERY					
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deemed to include frames, transomes, rails, etc. Descriptions of hardwood joinery shalls i			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					
27.2.1 Making good roof coverings m 7 Image: Second			deemed to include frames, transomes, rails, etc. Descriptions of hardwood joinery shall be					
27.2.1 Tie new roof into existing and making good m 7 Wrought softwood m 17 27.2.2 44 x 144mm Bearers bolted m 17 27.3 PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC m 17 27.4 SUPPLEMENTARY PREAMBLES m 17 27.4 Design Responsibility m 17 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 for approval to the principal agent. The contractor shall commence manufacturing only after written approval of shop drawings for approval to the principal agent. The contractor shall commence manufacturing only after written approval of shop drawings from the principal agent. m Trusses are at maximum 1,500mm centres. Roof coverings are IBR metal profiled fixed sheeting on puriling (sheeting measured elsewhere). m Ceilings are 6.4mm gypsum plasterboard on 38 x 38mm brandering (ceilings measured elsewhere). m m 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. m m All exposed wood of roof construction to be Carbolinuem treated m m m	C7.2	PSBW 6.2.11	ROOFS ETC					
Image: Section of the softwood m 7 27.2.2 44 x 144mm Bearers bolted m 17 27.3 PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC m 17 27.4 SUPPLEMENTARY PREAMBLES m 17 27.4 Design Responsibility m 18 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. m 18 Roof coverings are IBR metal profiled fixed sheeting on purlins (sheeting measured elsewhere). 18 18 18 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. 18			Making good roof coverings					
27.2.2 44 x 144mm Bearers bolted m 17 27.3 PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC Image: Construction Etc Image: Construction Etc 27.4 SUPPLEMENTARY PREAMBLES Image: Construction Etc Image: Construction Etc Image: Construction Etc 27.4 SUPPLEMENTARY PREAMBLES Image: Construction Etc Image: Construction Etc Image: Construction Etc Image: Construction Etc 27.4 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 to shop drawings from the principal agent. Image: Construction Etc Image: Construction Etc 27.4 Trusses are at maximum 1,500mm centres. Image: Collings are 6.4mm gypsum plasterboard on 38 x 38mm brandering (ceilings measured elsewhere). Image: Collings are 6.4mm gypsum plasterboard on 38 x 38mm brandering (ceilings measured elsewhere). Image: Collings are 6.4mm gypsum plasterboard on 38 x 38mm brandering (ceilings measured elsewhere). Image: Collings are 6.4mm gypsum plasterboard on 38 x 38mm brandering (ceilings measured elsewhere). Image: Collings are 6.4mm gypsum plasterboard on 38 x 38mm brandering (ceilings measured elsewhere). Image: Collings are 6.4mm gypsum plasterboard on 38 x 38mm brandering (ceilings measured elsewhere). Image: Collings are 6.4mm gypsum plasterboard on 38 x 38mm brandering (c	C7.2.1			m	7			
C7.3 PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC Image: Construction of the construction of the construction of the construction of the timber roof construction. The contractor shall be responsible for the design of the timber roof constructor. The contractor will submit shop drawings for approval to the principal agent. The contractor will submit shop drawings from the principal agent. Image: Construction of the timber roof constructor shall commence manufacturing noisy after written approval of shop drawings from the principal agent. Image: Construction of the timber roof constructor shall commence manufacturing noisy after written approval of shop drawings from the principal agent. Image: Construction of the timber roof constructor shall commence manufacturing noisy after written approval of shop drawings from the principal agent. Image: Construction of the timber roof constructor shall commence manufacturing noisy after written approval of shop drawings from the principal agent. Image: Construction the construction the construction to the construction of the time approval of shop drawings from the principal agent. Image: Construction to the construction to the construction of trustses are nominal and actual measured elsewhere). Image: Construction of trustses are nominal and actual measurements are to be obtained from the architect/regineer and/or taken on site before design or fabrication commences. Image: Construction to be construction to the construst of troof construction to the construston to the construction			Wrought softwood					
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Tatal Carried Ferward			All exposed wood of roof construction to be Carbolinuem treated					
	Total Carri	d Forward						+

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C7: CARPENTRY AND JOINERY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought F	orward						
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			

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C7: CARPENTRY AND JOINERY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought Fo	orward	_					
C7.9.2		Window type PT912, 900 x 1200mm high - W2	No.	15			
C7.9.3		Window type PT186, 1800 x 600mm high - W3	No.	3			
C7.9.4		Window type PT1812, 1800 x 1200mm high - W4	No.	2			
C7.10		BEADS, ARCHITRAVES ETC					
		Wrought meranti					
C7.10.1	PSBW 6.2.4	110 x 25mm Window sills, plugged	m	23			
	 ied Forward To Su						

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C8: CIELINGS, PARTITIONS AND ACCESS FLOORING

NO						
<u></u>					 R	с
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 brandering between roof timbers etc	m²	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 brandering at 450mm centres and cross brandering at 600mm centres	m²	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 brandering at 450mm centres generally in one direction and cross branders at 600mm centres at joints and edges of boards	m²	40		

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C8: CIELINGS, PARTITIONS AND ACCESS FLOORING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١L
NO						R	с
Brought Fo	orward	T					
		Gypsum plasterboard cornices					
8.4.4		75mm Coved cornices	m	269			
8.5		TOILET CUBICLES					
		Pelican System or similar and approved toilet cubicles consisting of 20mm thick partitions, doors and stiles of laminated construction with outer skins of vitreous enamelled steel sheets bonded to wood particle board, all framed in natural anodised aluminium channel section beading, top rails and fixing components and fitted with all necessary ironmongery comprising standard indicating bolts, combined coat hooks and door stops, toilet roll holders and rubber buffers.					
8.5.1		Partitions 1,800 x 1,950mm high	No.	1			
8.5.2		Door 813 x 1,800mm high	No.	2			
8.5.3		Full stile 210 x 1,950mm high	No.	1			
8.5.4		Wall stile 105 x 1,950mm high	No.	2			
8.5.5		Extra over for chromium plated rising butt hinge	No.	4			
8.5.6		Extra over for powder coating to aluminium beading, brackets and ironmongery per cubicle	No.	2			
Total Carri	ied Forward To Su	mmary					

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C9: FLOOR COVERINGS, WALL LININGS, ETC

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	ΙT
NO						R	с
C9	PSBW 6.2.19	FLOOR COVERINGS, WALL LININGS, ETC					
C9.1		SUPPLEMENTARY PREAMBLES					
		Fixing: Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc.					
C9.2		FLOOR COVERINGS					
		300 x 300 x 2mm Type "Marleyflex" or similar and approved semi-flexible vinyl tiles					
C9.2.1		On floors	m²	386			
C9.3		SKIRTINGS, NOSINGS, ETC					
C9.3.1		20mm Vinyl edging	m	9			
				-			
	ied Forward To Su						—

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C10: METALWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
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 to150mm 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 Carri	ed Forward						

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C10: METALWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	ΙT
NO						R	с
Brought For	ward		,				
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			

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C11: PLASTERING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
C11	PSBW 6.2.6	PLASTERING					
C11.1	PSBW 6.2.7	SCREEDS					
		Screeds wood floated on concrete					
C11.1.1		25mm Thick on floors and landings	m²	449			
C11.1.2		25mm Thick on ramps	m²	4			
C11.1.3		25mm Thick on treads and risers of stairs	m²	4			
C11.2		INTERNAL PLASTER					
		Cement plaster steel trowelled, on brickwork					
C11.2.1		On walls	m²	537			
C11.2.2		On narrow widths	m²	4			
C11.2.3		On newly built-up walls	m²	17			
C11.3		EXTERNAL PLASTER					
		Cement plaster steel trowelled, on brickwork					
C11.3.1		On walls	m²	259			
C11.3.2		On narrow widths	m²	1			
C11.3.3		110 x 85mm Triangular fillets against walls, kerbs, etc	m	23			
	ed Forward To Su						_

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C12: TILING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
C12	PSBW 6.2.5	TILING					
C12.1		SUPPLEMENTARY PREAMBLES					
		Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding.					
C12.2		WALL TILING					
		200 x 200 x 5mm Ceramic tiles (PC R 200/m ²) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout					L
C12.2.1		On walls in isolated panels, splashbacks, etc.	m²	8			
C12.2.2		On narrow widths	m²	2			
C12.3		SUNDRIES					
		Aluminium corner protectors, stair nosings, expansion joint strips, etc					L
C12.3.1		3 x 10mm Straight edge trim	m	7			
C12.4		FLOOR TILING					
		300 x 300 x 8mm Non slip ceramic floor tiles (PC R 200/m ²) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout					
C12.4.1		On floors and landings	m²	63			
C12.4.2		On treads 260mm wide of cut tiles	m	8			
C12.4.3		On risers 180mm high of cut tiles	m	8			
C12.5		SUNDRIES					
		Aluminium dividing strips					
C12.5.1		3 x 10mm Flat section dividing strip	m	14			
		Aluminium corner protectors, stair nosings, expansion joint strips, etc					
C12.5.2		3 x 10mm Straight edge trim	m	8			
C12.5.3		25 x 10mm Tile-in stair nosing	m	8			
_	 ed Forward To Su						_

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C13: PLUMBING AND DRAINAGE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	С
C13		PLUMBING AND DRAINAGE					
C13.1		SUPPLEMENTARY PREAMBLES					
		Stormwater channels					
		Descriptions of channels shall be deemed to					
		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					

SCHEDULE C: MASAKHANE - GANSBAAI

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	
Brought Fo	rward	-					
		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.					

SCHEDULE C: MASAKHANE - GANSBAAI

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	1T
NO						R	_
Brought For	rward						
		Prices for wrapping of pipes shall include for all					
		work as described to couplings in the length.					
		Laying, backfilling, bedding, etc of pipes					1
		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).					

SCHEDULE C: MASAKHANE - GANSBAAI

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought Fo	orward	1	,				
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					

SCHEDULE C: MASAKHANE - GANSBAAI

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	С
Brought Fo	rward						
		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.					Ŧ
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	m ³	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 Carrie	ed Forward						

SCHEDULE C: MASAKHANE - GANSBAAI

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	c
Brought For	ward		1	<u>г г г г г г г г г г г г г г г г г г г </u>			
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			
•	d Forward		I INU.	2			-

SCHEDULE C: MASAKHANE - GANSBAAI

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	11
NO						R	
Brought For	ward						_
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			T
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					Ι
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			

SCHEDULE C: MASAKHANE - GANSBAAI

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	c
Brought For	ward						
		Extra over "Cobra Pex" or similar and approved polypropylene pipes for brass compression fittings					
C13.12.9		15mm Fittings	No.	18			
		Disinfecting					
C13.12.10		Disinfecting water pipe and tank system	No.	1			
		Connection					
C13.12.11		Cutting into existing supply pipe for and forming junction with 25mm pipe	No.	1			
		Testing					
C13.12.12		Testing water pipe system	No.	1			
C13.13		FIRE APPLIANCES ETC					
C13.13.1		9kg Dry chemical powder fire extinguisher	No.	5			
C13.14		AS-BUILT DRAWINGS					
C13.14.1		Provision of as-built drawings	No.	1			

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C14: GLAZING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	ſ
NO						R	с
C14		GLAZING					
C14.1		TOPS, SHELVES, DOORS, MIRRORS, ETC					
		6mm Silvered float glass copper backed mirror and polished edges, fixed with double sided adhesive tape and silicone					
C14.1.1		Mirror 400 x 500mm high	No.	2			
							-
Total Carrie	ed Forward To Su	mmary					

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C15: PAINTWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
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	m²	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	m²	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	m²	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	m²	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	m²	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	m²	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)	m²	9			
C15.7		ON WOOD SURFACES					

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C15: PAINTWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
Brought For	ward	1					
		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			

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C15: PAINTWORK

NO Brought Forw C15.13.2 C15.13.3 C15.13.4	vard	Skirtings, rails, etc not exceeding 300mm girth	m		R	с
C15.13.2	vard		m			_
C15.13.3			m	1		
				57		
		One coat superior quality clear matt varnish, on work in sound condition				
015.13.4		Doors	m²	5		
		Skirtings, rails, etc not exceeding 300mm girth	m	17		

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C16: ELECTRICAL WORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	
NO						R	с
C16		ELECTRICAL WORK					
C16.1		Electrical Power Suppy and Installation	Prov. Sum	120,000			
Total Carrie	ed Forward To Su	Immary					

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C17: SEWER RETICULATION

ANS 1200 DB 3.2	SEWER RETICULATION EARTHWORKS (PIPE TRENCHES) 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 0,0 m 1,5 m 1,5 m 2,5 m	m			R	С
	EARTHWORKS (PIPE TRENCHES) 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 0,0 m 1,5 m	m				
	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 0,0 m 1,5 m	m				
.3.2	 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 0,0 m 1,5 m 	m				
	and dispose of surplus material For pipes with nominal dia up to 450 mm Over and Up to 0,0 m 1,5 m	m				
	Over and Up to 0,0 m 1,5 m	m				
	0,0 m 1,5 m	m				
		m				
	1,5 m 2,5 m		50			
		m	5			
	b) Extra - over item (a) above for:					
	2) Hard rock excavation	m³	2			
.3.5	Existing services that intersect or adjoin a pipe					
	a) Services that intersect a trench	No.	2			
	b) Services that adjoin a trench	m	10			
ANS 1200 LB	BEDDING (PIPES)					
.2.1	Provision of bedding from trench excavation					
	a) Selected granular material	m³	1			
	b) Selected fill material	m³	3			
.2.2.3	Provision of Bedding by Importation from Commercial sources					
	a) Selected granular material	m³	5			
	b) Selected fill material	m³	11			
ANS 1200 LD	SEWERS					
.2.1	Supply, lay, joint, bed and test sewer pipes (heavy duty) with spigot and socket rubber ring joints:					
	110 mm diameter Class 34 uPVC	m	55			
	160 mm diameter Class 34 uPVC	m			Rate Only	
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:					
A .2	NS 1200 LD 1	2.2.3 Provision of Bedding by Importation from Commercial sources a) Selected granular material b) Selected fill material NS 1200 LD SEWERS 2.1 Supply, lay, joint, bed and test sewer pipes (heavy duty) with spigot and socket rubber ring joints: 110 mm diameter Class 34 uPVC 160 mm diameter Class 34 uPVC 160 mm diameter Class 34 uPVC 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	2.2.3Provision of Bedding by Importation from Commercial sourcesm³a) Selected granular materialm³b) Selected fill materialm³NS 1200 LDSEWERS2.1Supply, lay, joint, bed and test sewer pipes (heavy duty) with spigot and socket rubber ring joints:110 mm diameter Class 34 uPVCm160 mm diameter Class 34 uPVCm2.3Manholes as per detail drawing 23-OVM-003/G703Supply 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:	Provision of Bedding by Importation from Commercial sourcesma) Selected granular materialm3b) Selected fill materialm3b) Selected fill materialm3NS 1200 LDSEWERS2.1Supply, lay, joint, bed and test sewer pipes (heavy duty) with spigot and socket rubber ring joints:110 mm diameter Class 34 uPVCm160 mm diameter Class 34 uPVCm2.3Manholes as per detail drawing 23-OVM-003/G703Supply 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:	2.2.3Provision of Bedding by Importation from Commercial sourcesm³5a) Selected granular materialm³5b) Selected fill materialm³11NS 1200 LDSEWERS	2.2.3 Provision of Bedding by Importation from Commercial sources m³ 5 a) Selected granular material m³ 5 b) Selected fill material m³ 11 NS 1200 LD SEWERS

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C17: SEWER RETICULATION

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	Т
NO						R	c
Brought F	orward	-					
		Over and Up to					1
017.3.3		0,0 m to 1,5 m	No.	1			
	8.2.7	Encasing of pipes in concrete					
017.3.4		Concrete encasing of pipes up to 200mm: Minimum Encasing of 25Mpa/19mm concrete around pipe	m³	1			
	8.2.11	Connection to existing sewer					
017.3.5		Break into and connect to existing sewer pipe	No.	1			
	ied Forward To Su	1					+

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C18: ROADWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	
NO						R	с
C18		ROADWORKS					
C18.1	SANS 1200 DM	EARTHWORKS (ROADS, SUBGRADE)					
	8.3.3	Treatment of Roadbed					
C18.1.1		 150 mm thick Roadbed preparation and compaction of material to minimum of 93% MOD AASHTO density 	m ³	15			
C18.1.2	8.3.7	Cut to Spoil: Excavate in all material and dispose.	m³	2			
		Surface finishes					
C18.1.3		Shaping and Trimming of Road Reserves	m²	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 ³	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.	m²	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	m²	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:					I
C18.4.1		1) 0 m ² to 2 m ² (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 Carrie	ed Forward						+

SCHEDULE C: MASAKHANE - GANSBAAI

SECTION C18: ROADWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
Brought Fo	orward						
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 Carri	ed Forward To Sur	nmary					-

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (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 Carrie	d Forward To Summary Of Schedules	

Total Carried Forward To Summary Of Schedules

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D1: SITE CLEARANCE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
D1	SANS 1200 C	SITE CLEARANCE					
D1.1		CLEAR SITE					
D1.1.1	8.2.1	Clear and grub Site (including hauling to licensed dumping site and dumping levy)	m²	475			
	8.2.5	Take down existing fences					
D1.1.2		Remove and spoil existing fences as directed	m	20			
		Relocation of existing prefabricated building					
D1.1.3		Relocate existing class room approximately 7.8 x 7.8 x 2.6m high to a new location on site	No.	1			
			_				
			_				
Total Carr	ied Forward To Su	immary	·				

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D2: EARTHWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
D2	SANS 1200 DA	EARTHWORKS (small works)					
	8.3.1	Excavation					
D2.1		a) Remove topsoil to nominal depth 150 mm, stockpile, and maintain	m²	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	m³	60			
D2.3		ii) Cut to Spoil	m ³	30			
D2.4		iii)) Cut to Stockpile and maintain	m ³	10			
D2.5		iv) Stockpile to Fill and compact to 93% MOD					
		AASHTO density in layers not exceeding 150 mm	m³	10			
		c) Extra-over for					
D2.6		2) Hard rock excavation	m ³	5			
D2.7		3) Boulder excavation, Class A	m³	1			
D2.8		4) Boulder excavation, Class B	m ³	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 ³	130			
		b) Extra-over for					
D2.10		2) Hard rock excavation	m ³	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 ³	2			
D0 40				2			
D2.12		ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm	m³	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 ³	3			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D2: EARTHWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought Fo	orward						
D2.14		ii) G7 material compacted to 93% MOD AASHTO density, in layers not exceeding 150mm	m³	50			
	8.3.6	Topsoiling					
D2.15		Stockpile to fill, spread and compact	m³	475			
		Risk of collapse of excavations					
D2.16		Sides of trench and hole excavations not exceeding 1.5m deep	m	35			
		Soil insecticide in accordance with SANS 5859					
D2.17		Under floors, etc including forming and poisoning shallow furrows against foundation walls, etc, filling in furrows and ramming	m²	338			
D2.18		To bottoms and sides of trenches etc	m²	516			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D3: CONCRETE (STRUCTURAL)

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
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	Blinding layer in 15 MPa/19 mm concrete					
D3.2.1		50 mm minimum thickness	m²	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)	m³	2			
D3.3	SANS1200 G	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	8.4.3	25MPa/19mm concrete					
D3.3.1		Strip footings	m ³	42			
D3.3.2		Surface beds	m³	34			
D3.3.3		Ramps	m ³	1			
D3.3.4		Steps	m³	1			
D3.4	8.2	SCHEDULED FORMWORK ITEMS					
Total Carr	ed Forward	119 104					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D3: CONCRETE (STRUCTURAL)

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT		
NO						R	c	
Brought F	orward							
		Includes the necessary anchor and supports bolts and fastening components as specified in the drawings.						
	8.2.1	Rough formwork to sides						
D3.4.1		Strip footings	m²	17				
	8.2.2	Smooth formwork to Soffits:						
D3.4.2		Edges, risers, ends and reveals not exceeding 300mm high or wide	m	28				
D3.5	8.5	JOINTS						
		Expansion joints with 10mm closed cell expanded polyethylene between vertical concrete and brick surfaces						
D3.5.1		Not exceeding 300mm high to edges of surface bed	m	262				
D3.6	8.1.2	REINFORCEMENT						
	8.3.1	High tensile steel reinforcement to structural concrete work						
D3.6.1		up to 20mm diameter bars	t	3				
	8.3.2	Fabric reinforcement						
D3.6.2		Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m²	348				

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D4: MASONRY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	1T
NO						R	с
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 compresive 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	m²	98			
D4.3.2		ii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277	m²	50			
D4.4		SUPERSTRUCTURE					
D4.4.1		i) Half brick walls - 115mm wide solid clay NFP SABS 277	m²	58			
D4.4.2		ii) One brick Walls - 230mm wide solid clay NFP to SABS 277	m²	108			
D4.4.3		iii) Hollow walls - 280mm wide of two half brick skins of solid clay NFP to SABS 277	m²	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 Carri	ed Forward	Bagging of 1:3 cement and sand mixture					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D4: MASONRY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	ΙT
NO						R	с
Brought Fo	prward						
D4.6.1		On brick walls, piers, etc	m²	82			
D4.7	PSBW 6.2.10	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.				L
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			
							_

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D5: WATERPROOFING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
D5	PSBW 6.2.9	WATERPROOFING					
D5.1		SUPPLEMENTARY PREAMBLES					
		Waterproofing: Waterproofing on roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.					
D5.2		DAMPPROOFING OF WALLS AND FLOORS					
		One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)					
D5.2.1		In walls	m²	91			
D5.2.2		In walls vertically at windows and doors	m²	24			
		One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape					
D5.2.3		On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints (measured net).	m²	348			
		Primer and two coats heavy duty bitumen emulsion waterproof coating					L
D5.2.4		On bagged walls	m²	82			
D5.3	PSBW 6.2.10	SEALING STRIPS, JOINT SEALANTS, ETC					
		Polyurethane sealing compound including backing cord, bond breaker and primer					
D5.3.1		10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	262			
D5.3.2		10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	147			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D6: ROOF COVERINGS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
D6	PSBW 6.2.12	ROOF COVERINGS					
D6.1		PROFILED METAL SHEETING AND ACCESSORIES					
D6.1.1		Global Roofing Solutions (or similar approved) 686mm cover IBR 686 profile roll-formed in continuous lengths from 0.53mm thick AZ200 spelter G550 Zincal® roof sheeting, fixed to timber intermediate purlins at MAX 1200mm centres and eaves and ridge purlins at MAX 1200mm centres (final spacing to be calculated by an Engineer) using Hex Flange Head + EPDM Seal self-drilling Type 17 drill point, No. 12-11 x 85mm long fasteners (fastener lengths may vary depending on the insulation used or requirements). Purlin fixed to second, fourth and sixth crest of each sheet and at all crests at sheet ends, all following the manufacturer's specifications by a GRS approved contractor.					
D6.1.1		Roof covering not exceeding 25 degrees pitch	m²	330			
D6.1.2		Ridge cappings	m	41			
D6.1.3		Gable trims	m	31			
D6.1.4		Narrow and broad flute closers	m	65			
D6.2		ROOF AND WALL INSULATION					
		Type 'Sisalation 405 - FR' or similar approved					
D6.2.1		Insulation sheeting laid taut over purlins (at approximately 500mm centres) and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edge where required	m²	330			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D7: CARPENTRY AND JOINERY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
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					L
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 brandering (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			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D7: CARPENTRY AND JOINERY

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	0
Brought F	orward	1					
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			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D7: CARPENTRY AND JOINERY

PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	1T
					R	с
orward	1					
	Window type PT912, 900 x 1200mm high - W2	No.	9			
	Window type PT186, 1800 x 600mm high - W3	No.	6			
	Window type PT1812, 1800 x 1200mm high - W4	No.	2			
PSBW 6.2.4	BEADS, ARCHITRAVES ETC					
	Wrought meranti					
	110 x 25mm Window sills	m	28			
	prward	orward Window type PT912, 900 x 1200mm high - W2 Window type PT186, 1800 x 600mm high - W3 Window type PT1812, 1800 x 1200mm high - W4 PSBW 6.2.4 BEADS, ARCHITRAVES ETC Wrought meranti	orward Window type PT912, 900 x 1200mm high - W2 No. Window type PT186, 1800 x 600mm high - W3 No. Window type PT1812, 1800 x 1200mm high - W3 PSBW 6.2.4 BEADS, ARCHITRAVES ETC Wrought meranti	Image: series of the series	Image: Server and Server	Image: Note of the state o

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D8: CEILINGS, PARTITIONS AND ACCESS FLOORING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	JT
NO						R	с
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 brandering between roof timbers etc	m²	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 brandering at 450mm centres and cross brandering at 600mm centres	m²	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 brandering at 450mm centres generally in one direction and cross branders at 600mm centres at joints and edges of boards	m²	33			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D8: CEILINGS, PARTITIONS AND ACCESS FLOORING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought Fo	rward		1	I			
		Gypsum plasterboard cornices					-
D8.4.4		75mm Coved cornices	m	195			
D8.5		TOILET CUBICLES					
		Pelican Systems or similar and approved toilet cubicles consisting of 20mm thick partitions, doors and stiles of laminated construction with outer skins of vitreous enamelled steel sheets bonded to wood particle board, all framed in natural anodised aluminium channel section beading, top rails and fixing components and fitted with all necessary ironmongery comprising standard indicating bolts, combined coat hooks and door stops, toilet roll holders and rubber buffers					
D8.5.1		Partitions 1,800 x 1,950mm high	No.	3			+
D8.5.2		Door 813 x 1,800mm high	No.	5			T
D8.5.3		Full stile 210 x 1,950mm high	No.	3			
D8.5.4		Wall stile 105 x 1,950mm high	No.	4			
D8.5.5		Extra over for chromium plated rising butt hinge	No.	10			
D8.5.6		Extra over for powder coating to aluminium beading, brackets and ironmongery - per cuble	No.	5			
	 ed Forward To Su						+

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D9: FLOOR COVERINGS, WALL LININGS, ETC

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	Г
NO						R	с
D9	PSBW 6.2.19	FLOOR COVERINGS, WALL LININGS, ETC					
D9.1		SUPPLEMENTARY PREAMBLES					
		Fixing: Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc.					
D9.2		FLOOR COVERINGS					
		300 x 300 x 2mm Type "Marleyflex" or similar and approved semi-flexible vinyl tiles					
D9.2.1		On floors	m²	234			
D9.3		SKIRTINGS, NOSINGS, ETC					
D9.3.1		20mm Vinyl edging	m	11			
D9.3.2		30mm Vinyl stair nosings	m	11			
Total Carr	ied Forward To Su	ummary 119 115					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D10: METALWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	с
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 Carri	ied Forward						

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D10: METALWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	1L
NO						R	с
Brought For	rward						
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 Carrie	l ed Forward To Su	mmary					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D11: PLASTERING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
D11	PSBW 6.2.6	PLASTERING					
D11.1	PSBW 6.2.7	SCREEDS					
		Screeds wood floated on concrete					
D11.1.1		25mm Thick on floors and landings	m²	227			
D11.1.2		25mm Thick on ramps	m²	8			
D11.1.3		25mm Thick on treads and risers of stairs	m²	5			
D11.2		INTERNAL PLASTER					
		Cement plaster steel trowelled, on brickwork					
D11.2.1		On walls	m²	512			
D11.2.2		On narrow widths	m²	7			
D11.3		EXTERNAL PLASTER					
		Cement plaster steel trowelled, on brickwork					
D11.3.1		On walls	m²	280			
D11.3.2		On narrow widths	m²	7			
D11.3.3		110 x 85mm Triangular fillets against walls, kerbs, etc	m	28			
Total Carri	ied Forward To Su	Jmmary					\top

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D12: TILING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
D12	PSBW 6.2.5	TILING					
D12.1		SUPPLEMENTARY PREAMBLES					
		Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding.					
D12.2		WALL TILING					
		200 x 200 x 5mm Ceramic tiles (PC R 200/m ²) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout					I
D12.2.1		On walls in isolated panels, splashbacks, etc.	m²	36			
D12.2.2		On narrow widths	m²	4			
D12.3		SUNDRIES					
		Aluminium corner protectors, stair nosings, expansion joint strips, etc					
D12.3.1		3 x 10mm Straight edge trim	m	18			
D12.4		FLOOR TILING					
		300 x 300 x 8mm Non slip ceramic floor tiles (PC R 200/m ²) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted grout					I
D12.4.1		On floors and landings	m²	67			
D12.4.2		On treads 260mm wide	m	11			
D12.4.3		On risers 180mm high of cut tiles	m	11			
D12.5		SUNDRIES					
		Aluminium dividing strips					
D12.5.1		3 x 10mm Flat section dividing strip between tiles	m	9			
		Aluminium corner protectors, stair nosings, expansion joint strips, etc					
D12.5.2		3 x 10mm Straight edge trim	m	22			
D12.5.3		25 x 10mm Tile-in stair nosing	m	11			
Total Ca	l ied Forward To Su		1				+

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN [®]	Т
NO						R	с
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					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	11
NO						R	
Brought Fo	rward						
		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.					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	0
Brought Fo	rward	_					
		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).					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	1T
NO						R	c
Brought Fo			1				
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			I
		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					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought Fo	rward	1					
		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 Carrie	ed Forward						

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
Brought Forw	ard						
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						

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	1T
NO						R	0
Brought For	ward		1				
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			T
D13.11.9		110mm Bend	No.	8			Ŧ
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			T
		Cobra Pex or similar and approved polypropylene pipes with "Fast-fuse" thermoplastic couplings					Ι
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			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	С
Brought For	ward		.				
		Extra over "Cobra Pex" or similar and approved polypropylene pipes for brass compression fittings					
D13.12.9		15mm Fittings	No.	25			
		Disinfecting					
D13.12.10		Disinfecting water pipe and tank system	No.	1			
		Connection					
D13.12.11		Cutting into existing supply pipe for and forming junction with 25mm pipe	No.	1			
		Testing					
D13.12.12		Testing water pipe system	No.	1			
D13.13		FIRE APPLIANCES ETC					
D13.13.1		9kg Dry chemical powder fire extinguisher	No.	5			
D13.14		AS-BUILT DRAWINGS					
D13.14.1		Provision of as-built drawings	No.	1			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D14: GLAZING

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	Т
NO						R	c
D14		GLAZING					
D14.1		TOPS, SHELVES, DOORS, MIRRORS, ETC					
		6mm Silvered float glass copper backed mirror and polished edges, fixed with double sided adhesive tape and silicone					
D14.1.1		Mirror 400 x 500mm high	No.	7			
T . 1 C . 1	ed Forward To Su						+

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D15: PAINTWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO						R	с
D15	PSBW 6.2.20	PAINTWORK					
D15.1		PAINTWORK ETC TO NEW WORK					
D15.2		ON INTERNAL FLOATED PLASTER SURFACES					L
		One coat alkali resistant primer and two coats PVA emulsion paint for interior use					L
D15.2.1		Walls	m²	483			
D15.3		ON EXTERNAL FLOATED PLASTER SURFACES					L
		One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use					
D15.3.1		Walls	m²	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	m²	37			
D15.4.2		Ceilings and cornices	m²	246			
D15.5		ON FIBRE-CEMENT SURFACES					
		One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for exterior use					L
D15.5.1		Ceilings and cornices, including priming metal cover strips and nailheads	m²	33			
D15.5.2		Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips	m	65			T
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	m²	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)	m²	25			
D15.7		ON WOOD SURFACES					
		One coat primer and two coats premium quality polyurethane enamel paint					
Tatal C	ed Forward						+

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D15: PAINTWORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	IT
NO					-	R	с
Brought Fo	rward						
D15.7.1		Doors	m²	7			
		Two coats superior quality clear matt varnish					
D15.7.2		Doors	m²	36			
D15.7.3		Roof timbers at eaves and verges	m²	9			
D15.7.4		Skirtings, rails, etc not exceeding 300mm girth	m	212			
015.8		PAINTWORK ETC TO PREVIOUSLY PAINTED WORK					
D15.9		ON FIBRE-CEMENT BOARD SURFACES					
		One coat extremely durable UV-resistant washable pure acrylic paint, on work in sound condition					
D15.9.1		Walls	m²	78			
Total Carrie	l ed Forward To Su	Immary					-

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D16: ELECTRICAL WORK

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	Г
NO						R	с
D16		ELECTRICAL WORK					
D16.1		Electrical Power Suppy and Installation	Prov. Sum	120,000			
Total Carrie	ed Forward To Su	mmary					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D17: SEWER RETICULATION

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	Г
NO						R	
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	m ³	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:					

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D17: SEWER RETICULATION

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	c
Brought Fo	prward						
		Over and Up to					
D17.3.3		0,0 m to 1,5 m	No.	1			
D17.3.4		1,5 m to 2,5 m	No.			Rate Only	
	8.2.7	Encasing of pipes in concrete					
D17.3.5		Concrete encasing of pipes up to 200mm: Minimum Encasing of 25Mpa/19mm concrete around pipe	m³	1			
		Conservancey Tank					
D17.3.6		Supply and Install pre-cast concrete conservancy tank with min. 10m ³ capacity (excavation measured elsewhere)	No.	2			

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D18: STORMWATER DRAINAGE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
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	m ³	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	m ³				
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	m ³				
D19.2.4		b) Selected fill material	m ³				
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 Carr	ied Forward						

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D18: STORMWATER DRAINAGE

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	Т
NO						R	с
Brought Fo	rward		1	1	1		
D18.3.4		1,5 m 2,5 m	No.				
		b) Double Grid Inlet structure					
		Over and Up to					
D18.3.5		0,0 m 1,5 m	No.				
D18.4		CONNECT TO EXISTING					
D18.4.1		Connection to existing stormwater manhole (all inclusive)	No.				
							ł
Total Carrie	l ed Forward To Su	Immary					+

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D19: ROADWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUN	١T
NO						R	с
D19		ROADWORKS					
D19.1	SANS 1200 DM	EARTHWORKS (ROADS, SUBGRADE)					
	8.3.3	Treatment of Roadbed					
D19.1.1		 150 mm thick Roadbed preparation and compaction of material to minimum of 93% MOD AASHTO density 	m ³	15			L
D19.1.2	8.3.7	Cut to Spoil: Excavate in all material and dispose.	m³	2			
		Surface finishes					
D19.1.3		Shaping and Trimming of Road Reserves	m²	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 ³	15			L
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.	m²	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	m²	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 ² to 2 m ² (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 ³	1			
Total Carri	ed Forward						

SCHEDULE D: ELUXOLWENI - PEARLY BEACH

SECTION D19: ROADWORKS

ITEM	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
NO						R	c
Brought Fo	prward						
	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)					
D19.4.5		1) 100 mm width	m	20			
D19.4.6		c) White charaters and symbols	m²	1			
D19.4.7		d) Yellow charaters and symbols	m²	1			
D19.5	SANS 1200 MK	KERBING AND CHANNELLING					
	8.2.1	Concrete Kerbing (25 MPa) (as per detail drawing 23-OVM-003/G702)					
D19.5.1		a) Type BK2 Kerbing with radius smaller than 20m	m	7			
D19.5.2		b) Type BK2 Kerbing with radius greater than 20m	m	26			
D19.5.3		c) Type CK5 Kerbing with radius smaller than 20m	m			Rate Only	
D19.5.4		d) Type CK5 Kerbing with radius greater than 20m	m	35			
	8.2.6	Ancilliaries					
D19.5.5	8.2.6.1	Construct 1 m - 2 m long, 25 Mpa cast-in-situ kerbing transition sections between transitioning kerbs	No.	2			
	ed Forward To Sur						┡

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (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 Carrie	d Forward To Summary Of Schedules	

SUMMARY OF SCHEDULES

SCHEDULE	DESCRIPTION	AMOUNT (RAND)
2	SCHEDULE A: PRELIMINARY AND GENERAL	
2	SCHEDULE B: BAMBANANI - KLEINMOND	
2	SCHEDULE C: MASAKHANE - GANSBAAI	
4	SCHEDULE D: ELUXOLWENI - PEARLY BEACH	
Total		

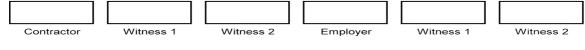
DECLARATION (In respect of completeness of Tender)

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



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

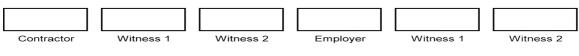
PART C3: SCOPE OF WORK



PART C3.1: Description of Works

CONTENT

C 3.1.1	Employer's Objectives	C3 - 125
C 3.1.2	Overview of The Works	C3 - 125
C 3.1.3	Scope of Works	C3 - 125
C 3.1.4	Description of Site and Conditions	C3 - 123
C 3.1.5	Temporary Works	C3 - 123
C 3.1.6	Work to be carried out by others (under separate contracts)	C3 - 124



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 - $34^{\circ}20'17.03"$ S, $19^{\circ}00'31.02"$ E. Masakhane – Gansbaai, Western Cape - $34^{\circ}35'27.95"$ S, $19^{\circ}21'37.06"$ E. Eluxolweni – Pearly Beach, Western Cape - $34^{\circ}39'12.57"$ S, $19^{\circ}29'16.81"$ 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.



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.

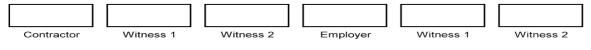
e) Shoring of excavations

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)

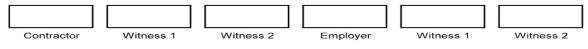
The following works will be carried out under separate contracts by others:

None



PART C3: SCOPE OF WORK

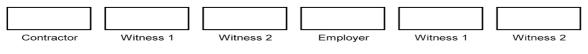
C3.2: ENGINEERING



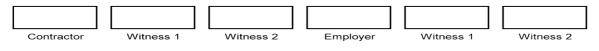
PART C3.2: Engineering

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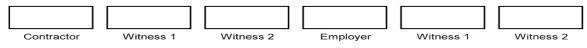
C3.2.1	Design	C3 - 127
C 3.2.2	Employer's Design	C3 - 127
C 3.2.3	Contractor's Design	C3 - 127
C 3.2.4	Drawings	C3 - 1270



C3.2.1	Desigr	<u>n</u>			
	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 with the permanent Works.	Works and their compatibility		
	The de	esign 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		
	Ameno	dments to the design, if necessary, will be issued during the cons	truction phase.		
C 3.2.2	<u>Emplo</u>	oyer's Design			
	utilizeo efficac Build',	onsultants are responsible for the design of all permanent works d by the Contractor. The Contractor shall be solely responsible by of his designs for temporary works. For those portions of the w the Consultant must still approve in writing all designs befor gh this will not relieve the Contractor of his responsibilities relation	e for ensuring the safety and vork scheduled as 'Design and ore construction commences		
C 3.2.3	<u>Contra</u>	actor's Design			
		e the Contractor is to supply the design of designated parts of the p , he shall supply full working drawings supported by a profession			
		esign of the temporary works shall be carried out in accordance v of practice, with particular emphasis on the requirements of the 0			
		drawings will have to be submitted for approval to the releaser's Agent / H&S Agent/Local Authority) prior to commencement			
C 3.2.4	<u>Drawir</u>	ngs			
	drawir	rawings listed below are attached to give an overview of the p ngs will be issued to the Contractor by the Engineer/ Employer fter from time to time as required.			
	of the	rawings that form part of the tender document are to be used for te Contract, the successful bidder will receive three (3) sets of ur ng free of charge. Any additional prints will be for the account of t	reduced paper prints of each		
		igured dimensions shall be used and drawings shall not be scale eer. The Engineer shall supply all figured dimensions omitted fro			
		formation in possession of the Contractor that the Engineer requir rawings shall be supplied to the Engineer before a Certificate of (
		llowing drawings are applicable to the contract and are issued v			

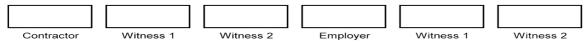


DRAWING NUMBER	DRAWING TITLE
<u>Survey</u>	
SUR101	Bambanani (Kleinmond) Existing Layout
SUR102	Bambanani (Kleinmond) Proposed Layout
SUR103	Maskhane (Gansbaai) Existing Layout
SUR104	Maskhane (Gansbaai) Proposed Layout
SUR105	Eluxolweni (Pearly Beach) Existing Layout
SUR106	Eluxolweni (Pearly Beach) Proposed Layout
Structures	
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 &
31009	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
<u>General</u>	
G701	Contract Nameboard
G702	Typical Road Details
G703	Typical Stormwater Details
G704	Typical Fencing Details
G705	Permanent Contract Nameboard



PART C3: SCOPE OF WORK

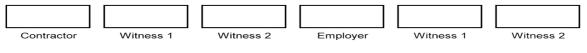
C3.3: PROCUREMENT



PART C3.3: Procurement

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C3.3.3	Attendance on subcontractors	C3 - 133



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:

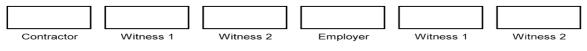
- Where monetary allowances for provisional sums or prime cost items allowed and the monetary allowance is less than R200 000.00, the Contractor shall invite three quotations from suitably qualified sub-contractors/suppliers, the selection of which shall be in consultation with, and to the approval of 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.

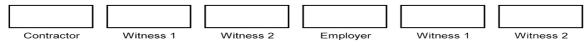
C3.3.3 <u>Attendance on subcontractors</u>

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.



PART C3: SCOPE OF WORK

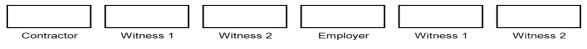
C3.4: CONSTRUCTION



PART C3.4: Construction

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C3.4.2	Plant and Materials	C3 - 137
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C3.4.4	Existing Services	C3 - 137
C3.4.5	Site Establishment	C3 - 138
C3.4.6	Site Usage	C3 - 140
C3.4.7	Permits and Wayleaves	C3 - 140
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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 of 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.



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

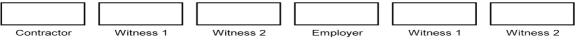
No construction equipment will be provided by the Employer.

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.



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 asbuilt 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.

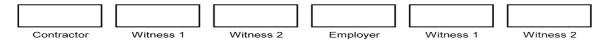
3.4.5.2 FACILITIES PROVIDED BY THE CONTRACTOR

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.



3.4.5.4 OTHER FACILITES 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.

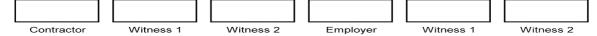
The Contractor shall abide by any conditions imposed by such wayleaves, permissions or permits. The Contractor shall ensure that all wayleaves, permissions and permits are current and kept on site and are available for inspection by the relevant service authorities on demand. The Contractor shall also 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



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

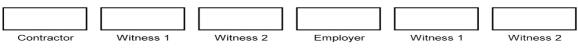
The Employer's Agent will provide the Contractor with survey benchmarks upon the contract commencement date. The Contractor will be expected to use these benchmarks as the basis for all survey control and the setting out of the works. The Contractor will assume full responsibility for the accuracy of 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.

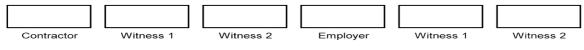
3.4.13 EMPLOYMENT OF SECURITY PERSONNEL

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.



PART C3: SCOPE OF WORK

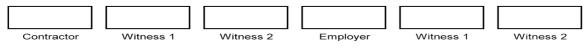
C3.5: Management



PART C3.5: Management

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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
Мау	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 <u>abnormal</u> 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



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



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) <u>Source of Water Supply</u>

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.



(ii) <u>Source of Power Supply</u>

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) <u>Location of Site Camp, Materials Storage and Temporary Stockpiling Area</u> 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) <u>Temporary Offices</u> As detailed elsewhere in this document. Site meetings will be held in the Contractor's site office.

(ii) <u>Sanitary facilities</u>

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) <u>Telephone facilities</u>

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



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.

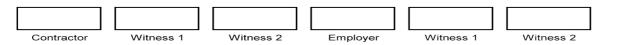
The Contractor shall apply suitable proven methods for construction complying with the OHS Act so that his activities will not constitute a hazard to his work force, the public or any adjacent property. All excavations shall be suitable safeguarded and barricaded especially during night-time, weekends 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



costs related thereto shall be deemed to the 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 sites are as follows:

Bambanani – Kleinmond: Karwyderskraal 34º19'55.2" S, 19º09'39.6" E.

Masakhane – Gansbaai: Gansbaai Landfill Site 34º35'13.2" S, 19º21'54.0" E.

Eluxolweni – Pearly Beach: Gansbaai Landfill Site 34º35'13.2" S, 19º21'54.0" 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.

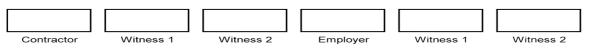
C3.5.14.5 Community Liaison Officer (CLO)

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.

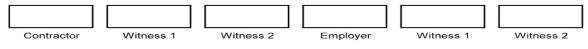
The Community Liaison Officers' duties will be:

- 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.



ANNEXURE A

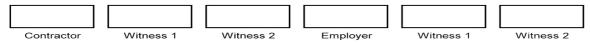
PRO-FORMA REQUEST FOR INFORMATION (RFI) FORMAT



REQUEST FOR INFORMATION				
PROJECT:	RFI ref.no.			
REQUEST DATE:				
FROM:	То:			
COMPANY: COMPANY:				
Involved Disciplines	Reason for Request <u>Action Required</u>			
Architect Fire Consultant Structural Engineer Telecommunication & Data Civil Engineer Project Manager Electrical Engineer PQS Mechanlcal Engineer Other:	Insufficient information Clarification Incorrect Information Direction Engineering Conflict Approval Alternative Proposal Other: Other: Incorrect Information			
Probat	ole Effect			
Additional time requested Decrease in time Additional Cost Impact Reduced Cost Impact Other (specify):	No time impact To be determined No Cost Impact To be determined			
QUESTIONS / CON	ICERNS (Requester)			
Suggestion:				
RESPONSE				
Approved Not approved Issue r Cost Implication approved Cost Implication not approved Contractor Witness 1 Witness 2	evised drawing(s) Issue Method Statement			

PART C3: SCOPE OF WORK

C3.6: SPECIFICATIONS



PART C3.6: Specifications

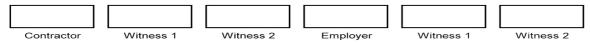
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PART C3: SCOPE OF WORK

C3.6.1: STANDARD SPECIFICATIONS



C3.6.1: Standard Specifications

APPLICABLE STANDARDIZED SPECIFICATIONS

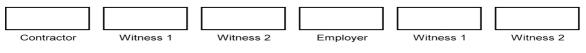
For the purposes of this contract, the following SANS 1200 Standardized Specifications for civil engineering construction shall apply:

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 aluminiumwork
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



C3.6.2

VARIATIONS AND ADDITIONS TO THE SANS STANDARIZED SPECIFICATIONS



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

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

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

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:

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)

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

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Unit: Day

Unit: Sum

Unit: Prov. Sum

itative

Unit: Percentage

Unit: Hour

Unit: Dav

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 categories on a dayworks basis. Only net working hours will be measured und that the Contractor has made provision in other rates for possible interruption.	der daywork, and it will be held
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

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

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

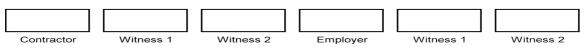
SANS 1200 AB - ENGINEER'S OFFICE

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)."

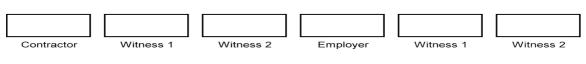
End of PSAB



SANS 1200 C - SITE CLEARANCE PSC 8.2.1 Clear and Grub Unit: ha Add the following to the item: "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: "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: "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: m² Add the following new item: "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: m² Add the following new item: "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. 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: m² Add the following new item: "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

End of PSC

materials, labour and any other cost involved with relocating the temporary/semi-permanent structures."



Witness 2

SANS 1200 D - EARTHWORKS

PSD 8.3.2 Measurement and Payment: Scheduled Items: Bulk Excavation

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: m³

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

Contractor

Witness 1

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

Employer

Witness 1

Witness 2

Unit: m²

Unit: m³

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."

		3
PSDB 8.3.2	d) Hand excavation and backfill	Unit: m ³
	The provisions of PS DB 8.3.2(a), DB 8.3.2(b) and PS DB 8.3.2(c) shall apply mutatis excavation. Payment shall only be made if so ordered by the Engineer.	mutandis for hand
PSDB 8.3.2	e) Extra-over PS DB 8.3.2(a) for temporary stockpiling of material	Unit: m ³
	Temporary stockpiling of material will only be measured and paid for if ordered so in writin and if it is not contaminated with unsuitable material.	ng by the Engineer
	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 ³
	Add the following to DB 8.3.3.1:	
	d) Stockpile	Unit: m ³
	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 sourc that the Contractor has selected.	es outside the site
PSDB 8.3.3	3 Compaction in road reserves	Unit: m ³
	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 operative on site for a set of equipment as described in PS DB 4.4.	s, fully erected and
	The rate for (2) above shall cover the cost of operating and maintaining the pumps, we	ll naints sheeting

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 payed 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.

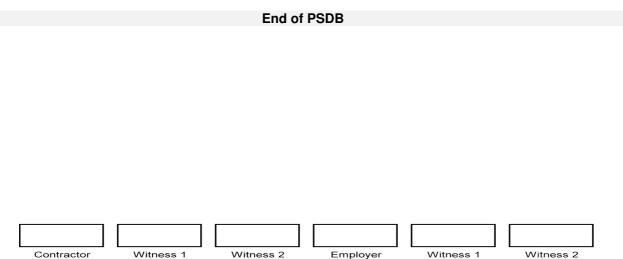
If the structure, according to the abovementioned, does not qualify as an adjoining service but the foundation of the structure is such that if a 45° line drawn from the nearest bottom corner thereof cuts through the excavation, the structure will be measured as an adjoining service if approved by the 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: m³

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.



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

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

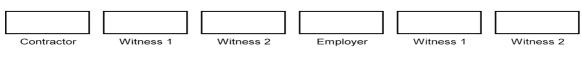
The rate shall cover the cost of the provision of concrete (made from ordinary Portland cement, unless otherwise scheduled), mixing, testing, placing, compacting, the forming of stop-ends and unforeseen construction joints, striking-off or levelling as applicable, trowelling and curing and repairing 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 ²
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

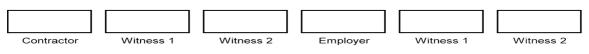


Unit: m²

Unit: Sum or m³

	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 no	t 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 ³
	Add the following to GA 8.4.1:	
	The rate for installation of concrete slabs shall include for the compaction of the in situ ma MAASHTO density.	aterial to 93 % of
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 as shown on the drawings.	n of the handrails
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 complete with reinforcement, formwork concrete and finishing as shown on the drawings.	i concrete beams

End of PSGA



SANS 1200 L - MEDIUM PRESSURE PIPELINES

PS L 8.2.3 Extra-over 8.2.1 For The Supplying, Fixing And Bedding Of Valves

Add the following to L 8.2.3:

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

PS L 8.4

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.

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

Add the following to L 8.2.8:

CONTROL VALVES

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.

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.

Substitute L 8.2.10 with the following:

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

Under item (b) delete the following item:

Reinforcement Unit: t

Replace the first sentence under "Reinforcement" with the following:

"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

Add the following to L 8.2.13:

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

Unit: No

Unit: No

Unit: No

Unit: m

Unit: Sum or No

Unit: m³

Unit: No

PS L 8.2.14 Manholes

Add the following to L 8.2.14:

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

The cutting into existing mains shall be measured by the number of each type and diameter of pipe cut into.

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

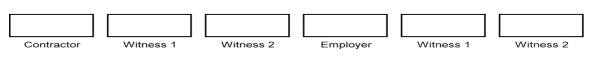
Separate items will be scheduled for each diameter and type of water main.

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

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



Unit: No

Unit: No

Unit: m

Unit: No

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 Cl 8.1.5 shall be disposed of as described in SANS 1200D Cl 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

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.

Unit: m³

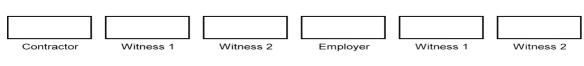
Unit: m³

PS LB 8.2.2.4 From stockpile (provisional)

- a) Selected granular material Unit: m³
- b) Selected fill material

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



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

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

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.

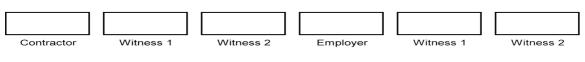
PS LD 8.2.11 Connection to Existing Sewer at....

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



Unit: No

Unit: m³

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

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

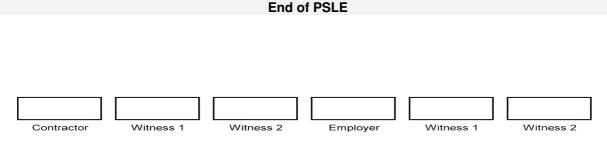
The length shall be measured on the centre line of the completed subsurface drain. The rate shall cover the cost of supplying, transporting, off-loading and installing all materials as well as for backfilling with suitable granular material, compaction, cutting, wasting, overlapping and installing of the materials where applicable.

PS LE 8.2.16 Connecting Subsurface Drains to Manholes, Kerb Inlets, Etc

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

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.



Unit: m³

Unit: m³

Unit: No

Unit: No

SANS 1200 SECTION LF: ERF CONNECTIONS (WATER)

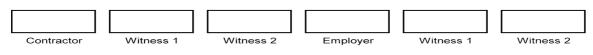
PSLF 8.2.1 Measurement and Payment: Scheduled Items: Provide erf connections complete

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



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

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

The rate shall cover the cost of providing rough sacking, additional cement grout as required and finishing the bagging as specified.

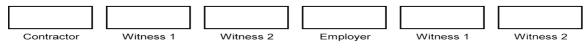
PSBW6.2.4 Windowsills

(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

The rate shall cover the cost of providing all material and the laying and grouting of tiles, complete as specified.



Unit: m²

Unit: m²

Unit: m²

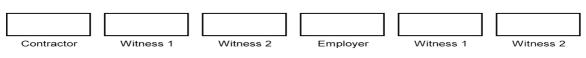
PSBW6.2.6	Plaster Work	Unit: m ²
	The rate shall cover the cost of the construction of the plaster work, including the supp mixing, applying, finishing, forming reveals, joints, etc., complete as specified.	bly of all materials,
PSBW6.2.7	Floor Screeds	
	(a) Normal screeds	Unit: m ²
	(b) Granolithic screeds	Unit: m ²
	The rate shall cover the cost of the construction of the floor screeds, including the supp mixing, laying, finishing, the forming of nosings, reedings, skirtings, etc. and, where floor has matured, of the brushing and applying a cement grout, complete as specified	the concrete sub-
PSBW6.2.8	Paving	Unit: m ²
	The rate shall cover the cost of providing paving slabs or bricks, sand bedding an expansion joint material and of constructing the paving.	nd joint filling and
PSBW6.2.9	Waterproofing	
	(a) Damp-proof course in walls	Unit: m
	(b) Damp-proof membrane under floors	Unit: m ²
	The unit shall be the net length or area of waterproofing installed. The length or area not be measured for payment.	a of overlaps shall
	The rate shall cover the cost of providing and laying all material as specified, including laps and joints, complete as specified.	g the sealing of all
PSBW6.2.10	Expansion Joints	Unit: m
	The rate shall cover the cost of providing and installing all filling and sealing material of expansion joints, complete as specified.	and of the forming
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, was fixing of the timber as indicated, including nails, bolts, nuts, washers, hoop irons, ties required, complete as specified.	
PSBW6.2.12	Roof Covering	Unit: m ²
	The rate shall cover the cost of providing and fixing all roof covering material as presc flashings, soakers, valleys, ridge coverings, roofing screws and all other fixtures rec 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: m ²			
	(b) Cornices to ceilings	Unit: m ²			
	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: m ²			
	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: m ²			
	(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.				
Contrac	ctor Witness 1 Witness 2 Employer Witness 1	Witness 2			

PSBW6.2.20PaintingUnit: m² or SumOnly 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.PSBW6.2.21Electrical InstallationUnit: SumThe 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.PSBW6.2.22MiscellaneousUnit: 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

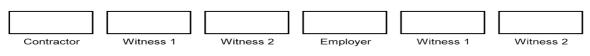


DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

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

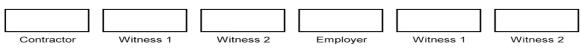
C4: SITE INFORMATION & SUPPLEMENTARY DOCUMENTS



SITE INFORMATION (1)

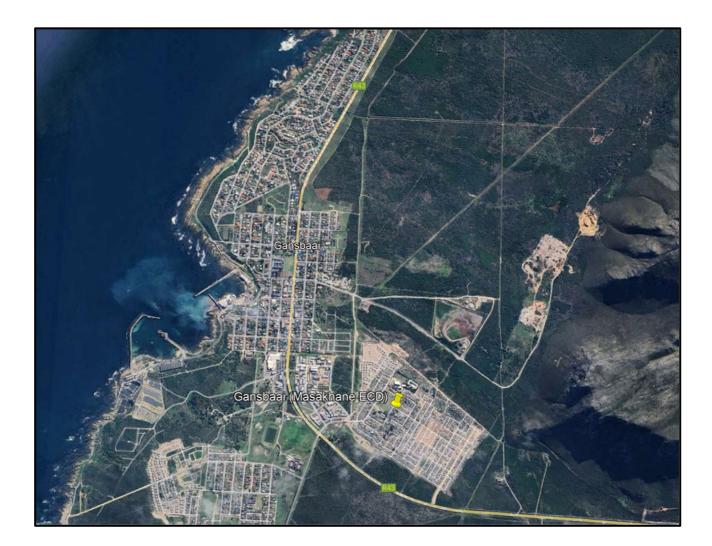
AREA	: BAMI	BANANI, KLEINMOND	
MUNICIPALITY :		: OVERSTRAND MUNICIPALITY	
DISTRICT	: OVERBERG DISTRICT MUNICIPALITY		
GPS COORDINATES:	LATITUDE	34°20'24.20''S	
	LONGITUDE	19°00'45.04''E	

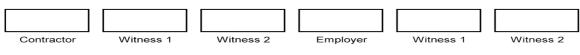




SITE INFORMATION (2)

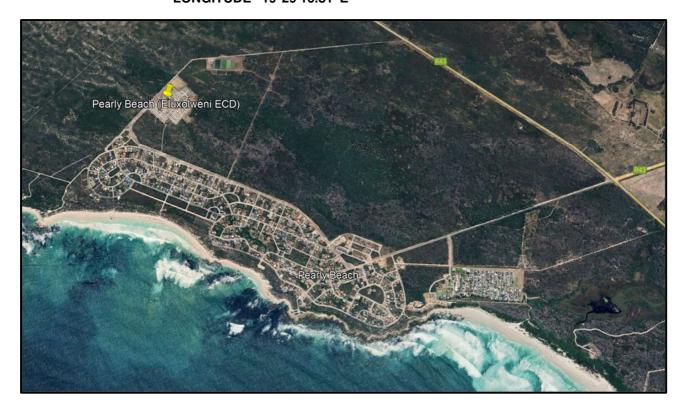
AREA	: MASA	AKHANE, GANSBAAI	
MUNICIPALITY	: OVERSTRAND MUNICIPALITY		
DISTRICT	: OVERBERG DISTRICT MUNICIPALITY		
GPS COORDINATES:	LATITUDE	34°35'27.95''S	
	LONGITUDE	19°21'37.06''E	



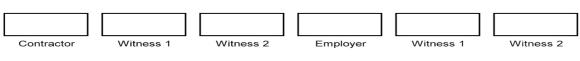


SITE INFORMATION (3)

AREA	: ELUX	OLWENI, PEARLY BEACH	
MUNICIPALITY	: OVERSTRAND MUNICIPALITY		
DISTRICT	: OVERBERG DISTRICT MUNICIPALITY		
GPS COORDINATES:	LATITUDE	34°39'12.57"S	
		19°29'16 81''F	



Note: Geotechnical reports for the sites are included below in Section C7.



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



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 Email: markw@safepractice.co.za



PROJECT HEALTH AND SAFETY SPECIFICATION

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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^{TH} 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.

1.5 PROJECT DIRECTORY				
Project Client	Department of Agriculture, Land Reform and Rural Development	Tel: 021 409 0300 Cell: 071 856 0592		
Contact Person	Mac Ntsikelelo Nodliwa	e-mail: MNodliwa@dalrrd.gov.za		
Project Manager	WEC Consult	Tel: 021 886 6895/6		
		Cell: 076 484 4495		
Contact Person	Norman van der Merwe	e-mail: norman@wec-consult.co.za		
Architect	Gericke Architectural Services	Tel: 028 384 1659		
		Cell: 082 453 8554		
Contact Person	Johan Gericke	e-mail: gerickeargitektuur@gmail.com		
Civil Engineer	WEC Consult	Tel: 021 886 6895/6		
		Cell: 078 501 0959		
Contact Person	Vincent Firmani	e-mail: vincent@wec-consult.co.za		
Construction Safety Agent	Safe Working Practice	Tel: 021 701 0470		
Ayent		Cell: 071 603 2213		
Contact Person	Mark Winter	e-mail: markw@safepractice.co.za		

OTHER PARTIES DIRECTORY		
Department of Labour	Tel: 021 441 8158	
WESTERN CAPE – Fezeka Ngalo	e-mail: fezeka.ngalo@labour.gov.za	
	Cell: 083 365 0681	



Telecommunications, Water, Gas and Electricity		
Contractor to apply for and refer to wayleave information from		
service providers for the nature and location of services.		
Refer all queries Project Manager.		

1.6 PROJECT DETAILS

Description 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.

Anticipated Construction Duration

26 weeks

Provisional Start Date

TBA

Provisional Completion Date

TBA

Construction Work Permit Required for the Project? No.

1.7 EXISTING ENVIRONMENT

Hazards particular to this project by virtue of location: Sites are located in existing residential/commercial areas. Existing ECD's on all sites will be occupied during construction. Members of public, including children in close proximity to site. Live services on site. Possible security concerns and possible protest action.

Overhead, Above Ground and Underground Services crossing the site:

Overhead: n/a

Underground: Contractor to assess and take precautions to protect against damage to, or injury from, any existing services. Sewage pipelines, Water connections, Stormwater pipelines present.

Ground level: Contractor to assess and take precautions to protect against damage to, or injury from, any existing services.



Service Drawings available: Existing service drawings available. Contractor to liaise with project management

Wayleaves required: No wayleaves, but permission should be obtained for the removal of a Melkhout tree at Masakhane, Gansbaai

Permits required: Contractor to liaise with project managment

Isolations required: No

Existing structures on site and surrounding land use (with a significant impact on Health & Safety):

Sites are located in existing residential/commercial areas. Members of public, including children in close proximity to site. Live services on site.

Existing ground conditions and ground survey report:

- Geotech report available
- Excavations will be up to 1.8m depth
- Shoring not thought to be required
- Dewatering may be required

Existing Traffic Systems

Condition: Existing surfaced roads, fair condition.

Restrictions to access: None known, traffic congestion may be an issue.

Speed restrictions: 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.

1.8 AVAILABLE DRAWINGS

Refer to tender documentation.

1.9 PROJECT HEALTH AND SAFETY REQUIREMENTS

Significant health and safety hazards identified by Client, Designer and Safety Agent:

Risk of criminal activities & protest action – risk of crime & 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.

Risk of fires caused by construction works and / or Smoking – 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.



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 / Banksmen 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 works 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 be 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:

Bricklaving 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.



ACTIVITIES REQUIRING PERMITS (FOR HEALTH AND SAFETY PURPOSES)

Permit to Dig: to be advised by project management

Permit to Enter Excavations: Contractor to liaise with project management

Road Works Permit: Contractor to liaise with project management

Permit to Work with Electricity: Contractor to liaise with project management

Confined Space Permit: Contractor to liaise with project management

Hot Works Permit: Yes, Principal Contractor is to formally manage all hot works.

Permit to Work under Power Lines: Not thought to be applicable

Blasting: Not thought to be applicable

Client issued permit for work in restricted areas: Not thought to be applicable

Temporary Works: Where applicable, Principal Contractor to manage temporary works formally.

CONTRACTOR SAFETY OFFICER PROVISION

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.

Please note that as from 7th August 2018 the safety officer must be professionally registered with the SACPCMP. Proof of registration with the SACPCMP must be provided.

If registered as a Candidate proof of mentorship and weekly visits by mentor must be available on site.

The requirement for this site is that a part time Safety Officer must be appointed to the project, conducting at least monthly safety audits.

MEDICAL CERTIFICATE OF FITNESS (ANNEXURE 3)

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.

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 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.

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.

TRAFFIC MANAGEMENT AND TRAFFIC SAFETY OFFICER PROVISION

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.



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

٦

Site camp location and set up

٠	Restrictions / requirements:	}	
•	Storage areas:	} }	Contractor to advise in consultation with Engineer / Professional Team
•	Security:	} }	

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:

Toilets:

•	i onetsi	}	Contractor to provide as per Regulations
•	Washing facilities:	}	
		}	
•	Drinking Water:	}	
•	Shelter:	} } C	Contractor to provide as per Regulations
		}	
•	Showers:	}	

Mobile site facilities requirements:

A camping toilet/mobile toilet will be required for sites that cannot facilitate a permanent location for ablution 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 allinclusive 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 a 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 V ehicles 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 be 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 effulgent 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 affect 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.

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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: a) Health and Safety Representative Checklist b) Safety report from Safety Officer and Safety Agent 	
Health and Safety Reports	Monthly	 Report covering: a) Incidents/Accidents and Investigations b) Non-conformance c) Health and Safety Training d) HIRA Updates e) Internal and External Audits 	
General Inspections	As per Health and Safety Specification and OHSA	Report on Health and Safety Specification and OHSA compliance: a) Scaffolding b) Lifting Machinery c) Excavation	
General Inspections	Monthly	Covering: a) Firefighting Equipment b) Portable Electrical Equipment c) Ladders	
Record keeping	Ongoing	Covering: a) General complaints b) Fines c) General incidents d) MSDS e) Surveillance Medicals f) Inspection Register 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	Project Directory	Please state details of Project Client, Project Manager/Principal Agent, Safety Agent, Consulting Engineer, etc. (Name, address, contact details).	
2	Contractors Directory	Please indicate if you will be using Contractors on this project, if yes, include their details, trade, and FEM details.	
3	Other Parties Directory	Please indicate contact details for any services applicable (electricity, water, etc.) as well as Department of Labour and Emergency Services.	
4	Project Safety Statement	The Project Safety Statement must be included in the Safety Plan.	
5	Health and Safety standards for the project (OHS Act, construction regulations, basic conditions of employment, etc.)	Health and Safety standards must be included in the Safety Plan.	
6	Project Particulars	Scope of works must be included in the Safety Plan. This is critical.	
7	Existing environment – Structures and Surroundings, Services (Electrical, Water, Sewerage, etc.), Traffic Arrangements, Parking, Access to Site, Storage of Plant and Materials	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	Management Structure for safety on the Project	A structured organogram with names of the responsible people must be included.	
9	Appointed Persons, Supervision	The required appointments must be identified. A list of the appointed persons must be included in the Safety Plan.	
10	Security Procedures	Please indicate if a security company will be appointed and include the contact information in the Safety Plan.	
11	Registers list and inspection frequency	A list of the Inspection Registers that will be on file must be included in the Safety Plan.	
12	Design Co-ordination	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	Contractor Co-ordination	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	Housekeeping, stacking and storage	Housekeeping policies and procedures must be included in the Safety Plan.	
15	Waste Disposal Arrangements	Waste disposal arrangements procedures must be included in the Safety Plan.	
16	Noise and dust control	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	Training Requirements	Training requirements must be identified and recorded.	
18	Plant and Equipment	A list of plant and equipment to be used on site must be included in the Safety Plan.	
19	Safety Monitoring Arrangements	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	Information for Contractors	State how information will be given to Contractors on site.	
21	Consultation/communication arrangements with Employees	State how information will be given to employees e.g. notice board.	
22	Selection of Contractors Procedures	Principal Contractor must state what health and safety procedures they will use to assess the competence and resources of their Contractors on site.	
23	Activities with risk to Health and Safety (Risk Assessment)	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	Hazardous Substances	Must be listed in the Safety Plan and addressed in the Risk Assessment.	
25	First Aid and Medical Procedures	Please indicate name of first aider, position of first aid box, location of nearest medical facility and emergency numbers.	
26	Fire and Emergency Procedures	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	Accident and Incident Reporting and investigation	State the Accident and Incident Reporting and investigation procedures of your company.	
28	Welfare and Site Facilities	Elaborate on toilets and eating areas, water provision, ablution provision, how will workers be protected during wet weather conditions etc.	
29	Site Rules	The Site Rules must be included in the Safety Plan.	
30	Personal Protective Equipment	The necessity must be identified by Risk Assessments, the required PPE for site risks and control measures.	
31	Health & Safety File arrangements	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	Method Statements/Safe System of Works	A list of Method Statements/Safe System of Works must be included in Safety Plan for all High-risk activities.	
33	Permits and wayleaves	List of activities that Principal Contractor anticipates will require permits and wayleaves (including those stated in the safety specification) to be included.	
34	Fall Prevention and Protection Plan and Fall Rescue Plan	A copy of the Fall Prevention and Protection Plan, fall rescue plan and fall risk assessment must be included in the Safety Plan.	
35	Demolition method statement	A copy of the Demolition Method Statement must be included in the Safety Plan.	
36	Confined spaces	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	Safety Representatives and Safety Committees	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	Have the significant hazards from the safety specification been addressed?	See section 1.9 of the Specifications and ensure practical measures have been detailed in the safety plan.	
39	Safety File - Safety Policies in File and Signed by 16(1) CEO.	Safety Policies must be signed and explained to employees.	
40	Safety File - A copy of the valid Letter of Good standing from FEM / Workman's Compensation must be on file.	A copy of the valid Letter of Good standing from FEM / Workman's Compensation must be on file.	
41	Safety File - Signed copy of the 37.2 Mandatary Agreement	A 37.2 Mandatary Agreement needs to be signed between the Client and the Principal Contractor.	
42	Safety File - Appointment letter from Client (as well as 5.1.K)	The Client must appoint the Principal Contractor in writing.	
43	Safety File – Notification / Permit	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.	



ANNEXURE B – LEGAL APPOINTMENTS
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 Contact with sharp bladed tools	 Use only trained personnel Safe means of access to be provided Safe/Suitable working platform required where working at height PPE for mortar to include gloves where practicable and goggles/ masks where there is a risk of contamination 	
2.	Compacting and Filling	Contact with tipping materials Contact with moving plant Vehicles/personnel falling into excavations Contact with underground services	 Trained banksman to control vehicles movement Only trained personnel use plant Personal Protective Equipment to be worn Personnel to stand clear as materials are being tipped Use stop blocks and signs to warn vehicles of excavations, where applicable Stand clear of plant whilst materials are being compacted Establish position of underground services and protect services from damage 	
3.	Compactor Operations	Crushing of feet	 Only trained and competent personnel to use the machine Ensure operative wears steel toe cap shoes or boots at all times 	
4.	Confined Spaces	Suffocation Fumes	 Ensure that confined space is sufficiently ventilated Wear personal protective equipment such as proper masks if air supply insufficient or not of sufficient quality Test oxygen levels in confined space to ensure that is safe for entry Ensure that emergency procedures in place 	
5.	Crime and security	Injury to employees during protest action, criminality, intimidation	 Workers to be vigilant for signs of security threats Contractor must have contingency plan in place for emergency evacuation of site Emergency numbers for police and security to be on hand Report incidents of vandalism, damage and intimidation on site to site management immediately 	
6.	Cutting Off Disc	Noise Cuts from machine Fire (particularly at refuelling) Flying debris Blade shattering Contamination by fume created or exhaust fume	 Use competent personnel. Hot works control- fire extinguisher, fire watchman. (Permit may be required) PPE to include gloves, eye protection, hearing protection Solid working position. Clear working area Correct grade of blade must be used. Good ventilation to be provided (forced if necessary). Changing of wheels to be by competent persons only Cut off discs must not be used for grinding (grinding disc thicker) Bystanders to wear hearing protection, as applicable 	



	HAZARD	RISK	MINIMUM CONTROL MEASURES	
7.	Demolition	Falling materials Premature collapse of structure	 Ensure there is a current method statement in place Ensure all emergency procedures are in place and all details are displayed Ensure that structural demolition has been approved by the designer and site management Personnel must be competent Ensure at all times there is a safe means of access and egress All personnel must wear suitable and sufficient Personal Protective Equipment, including head, eye and skin protection 	
8.	Electrical Commissioning	Electric shock	Personnel to comply with permits to work issued by client Personal protective equipment to be worn by employees to prevent electric shock First aid treatment to be readily available Only competent and trained persons may decommission or commission electrical equipment	
9.	Electric Tools and Electrical Installations	Electric shock Fire	 Electric tools and installations to be in good condition Inspect electric tools before use Do not use electric tools in wet/damp conditions Use personal protective equipment such as insulated gloves Electrical installations register to be maintained, inspected by competent person 	
10.	Excavations (Working in and around)	Toxic fumes Collapse of trench walls/trapping Falling into excavation Collapse of adjacent structures	 Deep excavations / monitor air for toxic fumes Prevent collapse by battering back sides to a safe angle or install temporary support Protect vehicles from falling into excavations – provide barriers, signage, etc as necessary Beware of undermining of other structures (eg: buildings, scaffolds, party walls, structures) Record excavation inspections by competent person on daily basis Provide suitable means of access/egress in case of emergency. 	
11.	Explosive Actuated Fastening Devices	Noise Being struck by cartridge or fixing	 Operators to be trained, competent and wear appropriate protective equipment, eg: goggles, gloves, ear defenders, head protection. Cartridge gun to be in good condition, inspected for damage and faults regularly and results entered into register Used and unused cartridges and cartridge gun should be kept in secure place when not in use, maintain register for return and issue. 	
12.	Fire	Injuries to workers, pedestrians, residents, road users, damage to property through fire	 No littering on site which could become fire hazard, maintain site in clean condition. No fires to be lit on site. Have a working fire extinguisher at hand at all times. No smoking or naked flame near flammable substances or in unauthorised areas Ensure proper storage/use of Petrol/diesel/flammable substances – post warning notices 	
13.	Flammable Liquids and Gases (Use of)	Fire Explosion	 No littering on site which could become fire hazard, maintain site in clean condition. Have a working fire extinguisher at hand at all times. No smoking or naked flame near flammable substances or in unauthorised areas Ensure proper storage/use of Petrol/diesel/flammable substances – post warning notices Equipment must be in good condition, maintained Personnel using substances must be trained in safe use and risks 	



	HAZARD	RISK	MINIMUM CONTROL MEASURES	
14.	Hand tools	Injuries caused by use of hand tool Impact with the tool Falls due to access problems Contamination with substance being worked	 Ensure: Tool is correct for job Tool is in good order and suitably sharp Personnel must be competent/instructed in tool usage and tool safely Lighting is sufficient Access is safe, working platform is secure, leading edge is guarded Operative is wearing all necessary PPE 	
15.	Hazardous Substances	Injuries to workers through use of hazardous substances, eg: injuries to eyes, skin, etc	 Use substances in accordance with data sheet, particularly reference protective clothing required (example: gloves, goggles, etc) Know what First Aid measures are Have welfare facilities available for washing of hands, etc 	
16.	Hot Works	Burns to eyes or other parts of the body	 Personal Protective Equipment to include eye, skin and hearing protection 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. 	
17.	Lifting Operations	Falling material Crushing by materials Hand injuries to the slinger Toppling crane	 Check test certificate Check examination certificate Check inspection have been carried out Check certificates for lifting equipment (chains, slings, shackles, etc) Ensure lifting gear is rated to carry load (SWL) Ensure materials being lifted are properly packaged and slung. 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. 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. Only trained banksmen to be used. The crane driver and the banksman are to ensure that the signals given are clearly understood. 	
18.	Manual Handling of General Items	Muscular skeletal injuries if the load is too heavy or awkward Operative falling/ tripping Contamination from the substance being carried Fall of material being carried	 Personnel should be aware of safe manual handling techniques Personnel to wear Personal Protective Equipment when carrying items, eg: safety footwear and gloves. Ensure good housekeeping against tripping/fall hazards. Operative to get assistance if load too heavy- team lift if necessary. Utilise mechanical lifting and carrying aids where possible. Personnel to ensure access equipment, ladders will take weight of operative and load being carried. Personnel to ensure item being carried is properly bonded or is not liable to break apart whilst being manually handled. 	



	HAZARD	RISK	MINIMUM CONTROL MEASURES	
19.	Members of Public – Protection of	Injury to member of public and road users from site works	 Barriers and signage to be in place Workers must warn away any members of public from the works 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 Traffic turning into site – traffic management and signage as required. 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 Refer to plant risk assessment for details on plant safety precautions 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. 	
20.	Mobile Crane Erection and Dismantling and Use	Collapse of structure Overturning of structure Falling materials	 Ensure emergency procedures are in place and all operative are aware of the details Only use trained and competent operators for the erection and dismantling and use of cranes Ensure crane driver is trained and holds certification as proof. Must have valid medical certificate of fitness. Ensure there is safe means of access available at all times Ensure the mobile crane driver has 360° vision if not ensure a fully trained banksman is used Banksman to wear reflector vest to identify himself to the crane driver Ensure all personnel wear suitable and sufficient personal protective equipment Consider creating exclusion areas 	
21.	Noise and Dust	Breathing in dust can cause long term health problems, noise can damage hearing	 Wear respiratory and hearing protection Dampen down and minimise dust where possible. 	
22.	Plant or Vehicles and Equipment Operation	Workers injured by passing traffic Road users and pedestrians at risk from plant operation Noise	 Implement traffic protection measures Trained and competent operators must be used Check plant and vehicles on daily basis before use and record inspections. Maintain vehicles in safe condition. Medical certificates of fitness required for construction plant. Crossing of road by construction vehicles or machines must be limited to the practical minimum Plant and vehicles must be fitted with amber rotating beacons and reverse alarms. Wear appropriate protective clothing/equipment, eg: goggles, gloves, ear defenders, etc as appropriate. 	



	HAZARD	RISK	MINIMUM CONTROL MEASURES	
23.	Road Working – working in or next to road	Injury to workers caused by passing traffic Injury to road users and pedestrians by works	 Flagmen to be used where interface with construction plant with passers-by or where hazard posed by delivery vehicles turning into/out of site. Traffic management plan to be approved by Municipality and, if necessary, traffic department No construction activities to commence until adequate provision made to accommodate traffic in accordance with the South African Traffic Signs Manual. Use safety signage to warn traffic and pedestrians of construction works Where existing walk ways/pavements affected by works, must direct pedestrian traffic away to safe walking area. Wear reflective waistcoats when working on or near the road or road shoulder as well as any other required personal protective clothing. Crossing of road by personnel must be limited to the practical minimum Use of fencing or other barriers as appropriate 	
24.	Scaffold Erection/ Dismantling	Personnel falling from a height Items of scaffold falling onto personnel Scaffold collapsing onto those below	 Ensure scaffold is designed to take the imposed loads scaffolding is constructed properly scaffolders are fully trained scaffolding is regularly checked by competent person and record of inspection retained. Written inspections to be recorded on weekly basis scaffolders must adhere to the safe systems of work. all fall arrest equipment to be checked and certified in good working order that ALL understand the safe system of work 	
25.	Shuttering Walls, Beams, Columns	Falling from height Falling materials from height Cuts and abrasions from splinters and nails	 Ensure all personnel wear the appropriate Personal Protective Equipment Ensure at all times there is a safe working platform Use only trained and competent personnel If electrical tools are being used ensure they have been tested and safe to use Ensure timber is de-nailed after use Ensure safety standards are followed at all times Ensure there is a safe means of access and egress at all times 	
26.	Site Strip	Overturning Vehicles	 Follow standard safety procedures Only use trained and competent personnel Ensure there is a suitable and safe means of access and egress Ensure banksman used when required Ensure all personnel wear suitable reflector vests as required 	
27.	Steel Erection	Falls from height Falling components Contact injuries from falling lifting equipment	 Adhere to all general precautions for working at height (See risk assessment below) Barrier off / exclude area below work All lifting appliances to be examined and inspected Inspection register in place and up to date All personnel to be trained and competent and wear clipped on safety harnessed when working at height Ensure that lifting equipment (slings, chains, shackles) test certificates are current and on site. Competent persons only to connect loads and direct plant 	



	HAZARD	RISK	MINIMUM CONTROL MEASURES	
28.	Steel Fixing	Back injuries caused by manual handling Eye injuries from tie wire Trips / falls Falling form height	 PPE must include safety boots and goggles Manual handling training may be required Care to be taken when working near over head lines Use only trained personnel Provide safe means of access Maintain and regularly inspect all lifting appliances and equipment Cap starter bars to prevent injuries where feasible Construct scaffold walk ways to cross reinforcing mesh, as required 	
29.	Temporary Works – shoring, falsework, formwork	Collapse of temporary work	 Wear personal protective equipment such as gloves and goggles Formwork must be built by trained person and also be inspected by competent person and results entered into register on site 	
30.	Tower (Mobile Aluminium Tower) Scaffold	Over Turning Falls	 Tower to be on firm level ground with wheels or feet properly supported. Height not to exceed 3 times the base dimension. i.e. 2x3m Base Tower not exceed 6m. Erection by competent person Inspection before first use Weekly record of inspection required Guard rails and Toe boards as per normal scaffolds Beware when moving of overhead obstructions, such as power lines Never move in strong winds 	
31.	Underground Services	Striking of buried services	 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. 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. Comply with the requirements of the safe system of work for underground services. Where available, locate services with a locator Hand dig around services 	
32.	Working at Height	Personnel falling form height Falling debris Those beneath being injured	 All access equipment is properly constructed (inspections record must be maintained) Only trained personnel construct, dismantle or control the access equipment All access equipment must have full toe boards and guardrails - comply with SANS 10085 on erection, use and dismantling of scaffolding No access equipment may be loaded above the level of the guardrail No access equipment to be loaded above its safe working load 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 All fall arrest equipment to be correctly maintained 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° 	



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 th March 2024

Acknowledgement:	
I,	representing
myself with the content of this Health and Safety Sp and Contractors on site comply with the requirements	
nealth and safety legislation.	
Signature of Contractor	Date
Comments:	

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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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) <u>General</u>

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) <u>Good Housekeeping</u>

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) <u>Site Establishment</u>
- 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) <u>Sewage Treatment</u>

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 soakaways, 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) <u>Waste Management</u>

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) <u>Clearing the Site</u>

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) <u>Batching sites</u>

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 relative 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) <u>Spillages</u>

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.

I) <u>Noise Control</u>

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) <u>Dust Control</u>

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

	Environmental Impacts											
Contents	Pollution Type	Deformation of Landscape	Soil erosion	Alien Vegetation	Sensitive Areas (to be completed by compiler)							
Camp Establishment	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds								
Housing, Offices and laboratories	Waste treatment Hazardous waste Water supply Spillage Storage Noise/lights	Selection of site Preserve indigenous vegetation Preserve topsoil Demarcate sensitive areas	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds								
Accommodation of Traffic	Waste treatment Hazardous waste Water supply Spillage Storage Noise/lights Dust control	Selection of site Preserve indigenous vegetation Preserve topsoil Demarcate sensitive areas Maintenance of windrows	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds								
Overhaul	Spillage Storage Noise/lights Dust control Exhaust fumes Washing waste	Turning circles Parking areas	Restrict access to sensitive areas	Protection of indigenous vegetation Preserve topsoil								
Clearing and grubbing	Waste treatment Hazardous waste Water supply Noise /lights	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil									

Contract: SSC WC 1 (2024/2025) Part C6: Environmental Specifications

	Environmental Impacts											
Contents	Pollution Type	Deformation of Landscape	Soil erosion	Alien Vegetation	Sensitive Areas (to be completed by compiler)							
	Dust control											
Drainage	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds								
Borrow pits	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds								
Stockpiling	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds								
Mass Earthworks	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds								
Pavement layers Waste treatment Hazardous waste Water supply Spillage Storage Noise / lights Dust control		Selection of site Preserve indigenous vegetation Preserve topsoil Demarcate sensitive areas Maintenance of windrows	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenousvegetationvegetationPreserve topsoil								
Asphalt works / sealing	Waste treatment Hazardous waste	Selection of site Preserve indigenous vegetation	Selection of site	Preserve indigenous vegetation								

Contract: SSC WC 1 (2024/2025) Part C6: Environmental Specifications

		Env	ironmental Impacts		
Contents	Pollution Type	Deformation of Landscape	Soil erosion	Alien Vegetation	Sensitive Areas (to be completed by compiler)
Operations	Water supply Spillage Storage Noise / lights Dust control Smoke control Storage of materials	Preserve topsoil Turning circles Parking areas	Preserve indigenous vegetation Preserve topsoil	Preserve topsoil	
Ancillary road works	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
Structures	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
Concrete pavements etc.	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil 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



PROJECT:	WEC: Erf 7349 Poppedorp, Kleinmond
PIT / HOLE No:	Тр 1
SAMPLED BY:	Louis Faro

Soil Legend	Depth (mm)	DESCRIPTION
	0-100	Slightly moist, very loose, light brown sand. Intact NOT Sampled
	100-400	Slightly most, medium dense, yellowish speckled orange sand with gravel & clay. Intact. Imported
	400-600	Slightly moist, loose, dark brown sand. Intact. Residual
000000 000000	600-900	Slightly moist, medium dense, reddish brown sandy gravel with pebbles.
.R.77		(1)

Technical Signatory – S de Vlam



Client Address	::	Western and Eastern Cape Consulting Engi P O Box 6353 Uniedal	Client Reference Order No.	:	SC1690/16
		7612			
Attention	31.1		Date Received	:	23/04/2019
Facsimile	;	021 882 8207	Date Tested	:	23/04/2019 - 06/05/2019
E-mail	:	cindy@wec-consult.co.za; jan@wec-consult.c	Date Reported	:	07/05/2019
Project	:	Implementation of Early Childhood Centres: Ba	mbanani, Masakhar	ne 8	k 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).

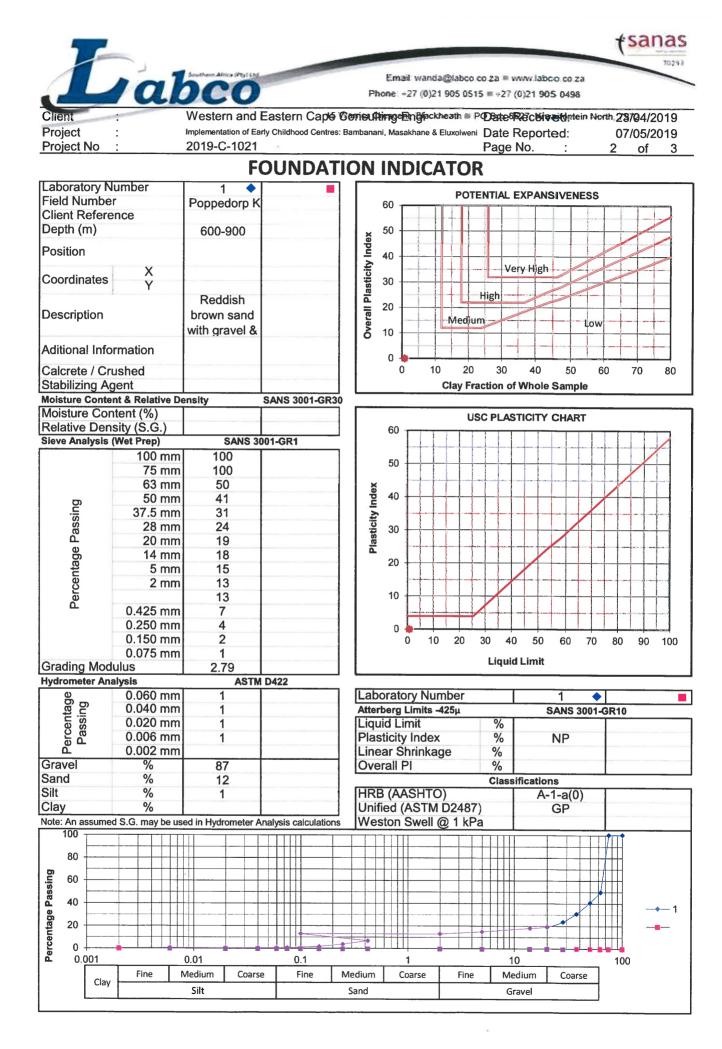
The following parameters, where applicable, were assumed: Rock types were assumed to be of an Arenaceous nature with Siliceous cementing material.

Unless otherwise requested or stated, all samples will be discarded after a period of 3 months.

Deviations in Test Methods:

Technical Signatory.

**All results are authorized by technical signatories.



Client Project Project No	o. : 2019-	C-1021	Cape Consulțing ly Childhood Cer	Engi varnoi Cres ntres: Ban	nbar	Blac	Pag	e Re e Re je No	port	ed ed	27. K	(ra'ail	onté	23/(07/(3	of	3			
CA	LIFORN	IIA BEARII	NG RATIO	(CBR)	&	R	DAD) IN	IDI	C	AT	OF	R F	RE	PO	\mathbf{R}	Γ		
Laborator		1 🔶		Laborat	ory I	No.				1		•							
Field Num		Erf 7349, Poppedorp		Maximum	Dry D			mum I		_	_	nt		SA	NS 30	001-	GR30		
Client Ref	* * * * * * *	Kleinmond		MDD		I	kg/m ³		2082		2								
Depth (m))	600-900		OMC			%			9.6									
Position					Cal	iforn	ia Bear							SA	NS 30	001-	GR40		
	Ň					-	0/ 1	Co	mpa		n Da	ta	-						
Coordinat	es X			Moisture			%	200		9.8		000							
	Y			Dry Den			kg/m ³ %	208		989 95.6		896 91.1							
Descriptio	n	Reddish brown sand with gravel &		Compac	ແບກ	1	/0		netra		-								
Descriptio	л	pebbles				2 5	50 mm	29		27	Ja	17	—						
				CBR at			0 mm	46		41		20							
Additional	l information			(Sbrrat			50 mm	49		46		20							
Calcrete/0	Crushed			Swell			%	0		0		0	1						
Stabilizing				Final Mo	istur			11.6	3	12		17							
	nalysis (Wet pr	eparation) S	ANS 3001-GR1	1000			<u> </u>												
	100 mm			1000															
	75 mm	100		- 001 CBR Value															
	63 mm	50						-											
p	50 mm	41				-									-				
Percentage Passing	37.5 mm							-				-							
Ба	28 mm	24												3.0.0	1.9.0.0				
g	20 mm	19																	
nta	14 mm	18 15		O 10				-											
CG	5 mm 2 mm																		
Ре	2 11111	10											-						
	0.425 mm	7		1	<u> </u>														
	0.250 mm	4			88	9	0	92 94 96				9	98 100 1			10			
	0.150 mm	2							Comp	oacti	ion (%)							
	0.075 mm							Inter	polat			Data							
Grading M		2.8		@	100		6			33									
		Mortar Analysis		0		8%	Mod. AASHTO			28									
Coarse Sa		46		CBR 0 @ @		% 5%	¥			26 23			+						
Coarse Fir Medium Fi		22 16		@ CB		3%	.рс			20									
Fine Fine S		7		@)%	ž			16			1						
Silt and Cl		10					Midpoint			28									
Atterb	erg Limits	SANS 30	01-GR10	L				0	lassi			S							
Liquid Limi				HRB (A		TO)			A-	1-a	(0)		T						
Plasticity I		NP		COLTO						C ⁻									
Linear Shr	inkage (%)	I		TRH14						G7		_							
100 -						1			111	1			T	T	11	17-	•		
				<u>+</u>		+				1					++	1			
- 80 																1			
- 06 (+	++	+++	-				_		H	H		
				+++++					+	+									
8 40 -																			
				+ + + + + -							+				++	+	H		
20 +						I		1		-	-		_				H		
ercel	1	0.1		1-1-1-1 1				-		10							100		
De 0.0		0.1	Medium	1 Coarse			Fine	-		10 ediui	m	1	(0	arse			100		



2001	HERN	AFRICA	(PTY)	Ltd											
сиѕто	MER :	WEC	Consult							PF	OJECT : Erf 7349, Poppedorp, Kleinmond				
		Po Bo	x 6353						C	O-ORD	NATES :				
		Unieda								SAM	PLE No: 1				
		7612	a1								REF : 2019-C-1021				
			vanepo	ച		DATE : 18.04.2019									
			-		\sim	-	DE	-							
	L	YNA		C	ON		PE				METER DATA REPORT				
0741/5								ME	THC	DD ST6	TMH6				
STAKE	VALUE. :										REMARKS : Refuse @ rock				
SECTIO	N :										STARTING DEPTH: 60				
	s ve	u î	p Ľ			é	s	Б	F	D L	0				
Depth (mm)	Cumulative No. Blows	Penetration Rate (mm)	Estimated Insitu CBR	4	(mm)	Cumulative	No. Blows	Penetration	Rate (mm)	Estimated Insitu CBR					
٥Ę	No.	Pene Rate	Esti Insit		5 5	L M	No.	ene	Rate	Esti Insit					
60				-		<u> </u>									
180	5	24.0	8												
260	10	16.0	13								200				
310	15	10.0	22												
394	20	16.8	12												
460	25	13.2	16			<u> </u>					300				
530	30	14.0	15			 									
596 640	35 40	13.2 8.8	16 26			-		-			400				
690	40	10.0	20												
740	50	10.0	22			-									
796	55	11.2	20								500				
830	60	6.8	37												
880	65	10.0	22								600				
920	70	8.0	30												
960 995	75 80	8.0	30 35	┥┝											
1085	85	18.0	11	┥┝											
1105	90	4.0	75			\uparrow									
1110	95	1.0	>110								800				
1115	100	1.0	>110												
					-			<u> </u>		<u> </u>	900				
						-		-							
						┢		-							
				┨┠		+		╞							
						-		\vdash							
				1											
			ļ			-					0 1 10 100				
						-					Penetration rate mm / blow				
	<u> </u>	<u> </u>	<u> </u>			1		1		I					
<u>Remark</u>	<u>(s:</u>										XIL				
											Name :				

Revision 2 Labco SF 164 02.12.2008

Technical Signatory Saul de Vlam



15 Warrior Crescent, Blackheath,7580 E-Mail: info@labco.co.za Web: www.labco.co.za Tel: 021 905 0515

SOUTHERN AFRICA (PTY) Ltd

CUSTOMER : WEC Consult Po Box 6353 Uniedal 7612 PROJECT : Erf 7349, Poppedorp, Kleinmond

CO-ORDINATES :

SAMPLE No: 2

REF: 2019-C-1021

ATTENTION : Jan Swanepoel

DATE: 18.04.2019

DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

STAKE	VALUE. :										REMARKS : Refuse @ rock
SECTIO	N :										STARTING DEPTH: 90
Depth (mm)	Cumulative No. Blows	Penetration Rate (mm)	Estimated Insitu CBR	Depth	(mm)	Cumulative	No. Blows	Penetration	Rate (mm)	Estimated	
90											
195	5	21.0	9								
240	10	9.0	25								
300	15	12.0	18								
390	20	18.0	11								 300
460	25	14.0	15								
495	30	7.0	35								
530	35	7.0	35								
590	40	12.0	18					-			
630	45	8.0	30								 500
680	50	10.0	22					-			
720	55	8.0	30								
780	60	12.0	18								
820	65	8.0	30								
860	70	8.0	30								 700
930	75	14.0	15					-			
990	80	12.0	18					<u> </u>			
1105	85	23.0	8			 					 - 800
1110	90	1.0	>110			 					
1120	95	2.0	>110			<u> </u>		-			
1135	100	3.0	110			<u> </u>					
1146	105	2.2	110								
1150	110	0.8	>110			<u> </u>		-			
1155	115	1.0	>110								
								-			
						-					
						-					
	-					-		-		-	
								\vdash			
								-			
						-		\vdash			
<u> </u>								-			 Penetration rate mm / blow
								\vdash		<u> </u>	
L		1	1			<u>. </u>		<u> </u>		<u>I</u>	
Remark	(6:										₩ _

Revision 2 Labco SF 164 02.12.2008



Name :

Technical Signatory Saul de Vlam



15 Warrior Crescent, Blackheath,7580 E-Mail: info@labco.co.za Web: www.labco.co.za Tel: 021 905 0515

SOUTHERN AFRICA (PTY) Ltd

CUSTOMER : WEC Consult Po Box 6353 Uniedal 7612

PROJECT : Erf 7349, Poppedorp, Kleinmond

CO-ORDINATES :

SAMPLE No: 3

REF: 2019-C-1021

ATTENTION : Jan Swanepoel

DATE: 18.04.2019

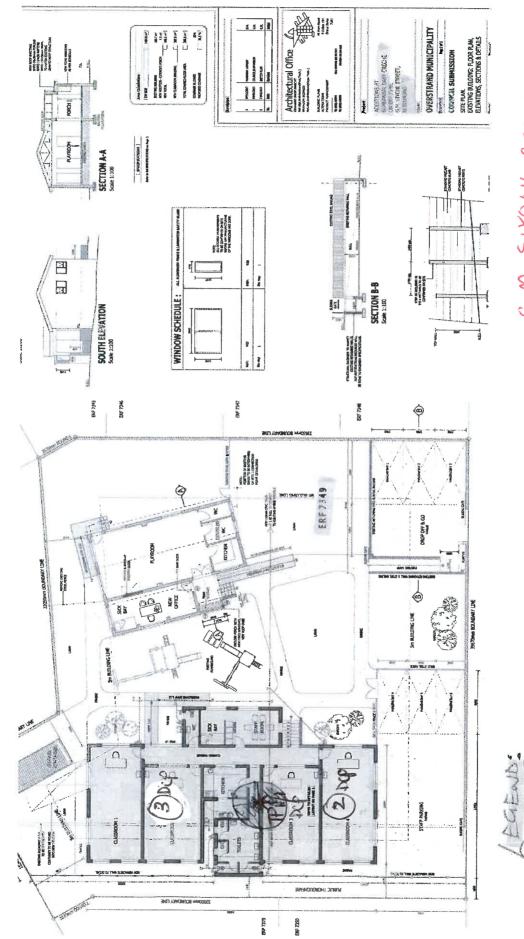
DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

	VALUE. :											REMARKS : Refuse @ rock
SECTIO	N :											STARTING DEPTH: 80
Depth (mm)	Cumulative No. Blows	Penetration Rate (mm)	Estimated Insitu CBR	4	(mm)	Cumulative	No. Blows	Penetration	Rate (mm)	Estimated		
80												
180	5	20.0	9									
265	10	17.0	12									200
305	15	8.0	30									
365	20	12.0	18									300
408	25	8.6	27									
480	30	14.4	14									
525	35	9.0	25					<u> </u>				400 +
565	40	8.0	30			L						
600	45	7.0	35									500
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			<u> </u>]	800
1104	90	27.8	6			<u> </u>						
1110	95	1.2	>110			<u> </u>		<u> </u>				
1135 1160	100	5.0	55									
1190	105	5.0	55					<u> </u>				
1210	110 115	6.0 4.0	45 75					<u> </u>]	
1210	115	4.0	15									
				-					~			
								<u> </u>				
						-						
-						-						$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
												Penetration rate mm / blow
<u>temark</u>	<u>s:</u>											W -
Povie												Name :

Revision 2 Labco SF 164 02.12.2008

Technical Signatory Saul de Vlam



KLC IN MON D

G M SIYONI SARRES

PROPOSED TEST PIT.



SOIL PROFILE REPORT

Date: 18.04.2019

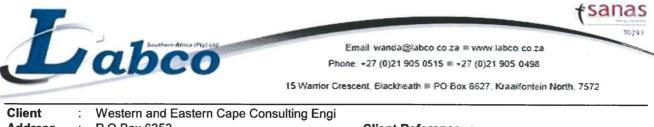
Job no.: 2019-C-1021



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



Address		P O Box 6353 Uniedal 7612	Client Reference Order No.	:	SC1690/16
Attention Facsimile E-mail	:	021 882 8207 cindy@wec-consult.co.za; jan@wec-consult.c	Date Received Date Tested Date Reported	::	23/04/2019 23/04/2019 - 06/05/2019 07/05/2019
Project Project No.	:	Implementation of Early Childhood Centres: Bar 2019-C-1021	nbanani, Masakhan Report Status Page	e 8 : :	Eluxolweni Final Report 1 of 3

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Test(s) conducted / Item(s) measured	Qty.	Test Method(s)	Authorized By**	Page(s)
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California Bearing Ratio (CBR)	1.000	SANS 3001-GR40	S de Vlam	3
Hydrometer Analysis	1.000	ASTM D422	S de Vlam	2

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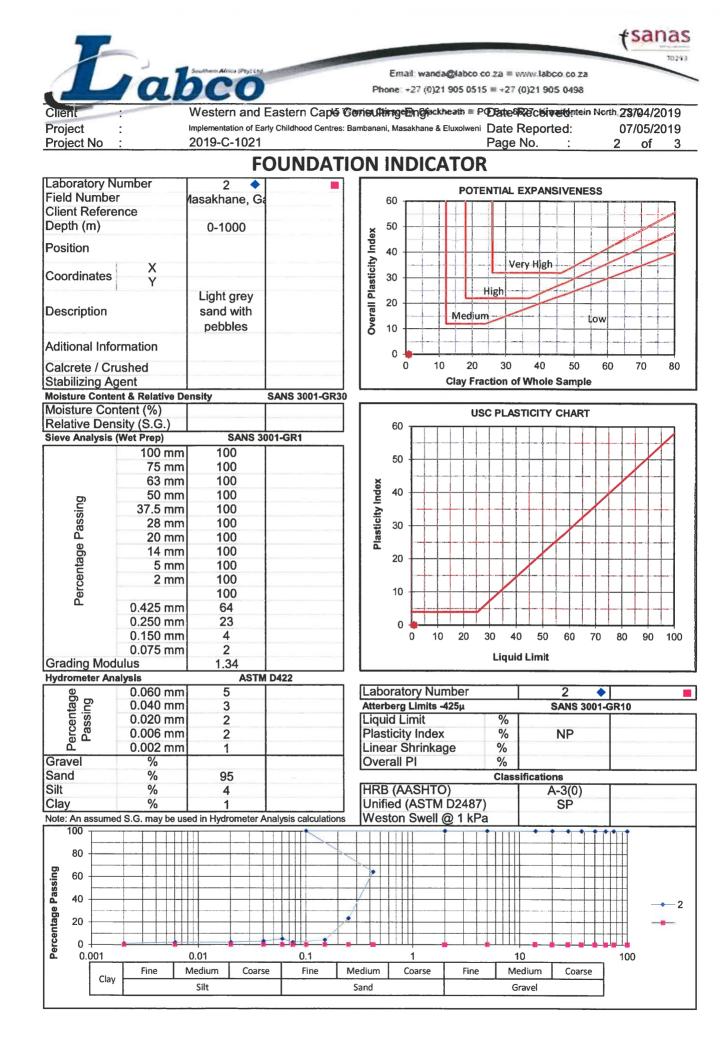
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The following parameters, where applicable, were assumed: Rock types were assumed to be of an Arenaceous nature with Siliceous cementing material.

Unless otherwise requested or stated, all samples will be discarded after a period of 3 months.

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**All results are authorized by technical signatories.



		DCO		Pho	ne: +2	wanda@ 7 (0)21 9(5 05	15 ≡ +	27 (0)	21 5	05 0	498			
Project	: Impler	nentation of Ea	Cape Consulting	Engi Varnor Cre ntres: Ba	scent. mbar	Blackhea nani, ND	ate I ate I	Recei Po Bo Repor	ved ted	7. K	raaifo	onte 0	3/0 7/0	4/20 5/20	
Project No	o. : 2019-0	C-1021				P	age	No.			:		3	of	3
			NG RATIO	-				IND		T	OK	R	EF	201	RT
Laborator Field Num		2		Labora			41	- Male	2		•		****		
Client Ref		2044, Masakhane, Gansbaai		Maximun	n Dry u	ensity & O kg/m			ture Co 1664	onter	nt		SAN	5 300)1-GR
Depth (m)		0-1000		OMC		Kg/m	-		14.5						
				L=	Cal	lifornia Be	aring					-	SAN	S 300	1-GR
Position	i							Compa		Dat	a				
Coordinat	es X			Moistur		%			14.5						
	Y		· · · · · · · · · · · · · · · · · · ·	Dry Der		kg/m			1595		515				
Descriptio		Light grey sand		Compa	ction	%	1	_	96.3		1.4				
Descriptio	n	with pebbles				2 E0 mr	_	Penetr 22	ation 17	Dat		-		1	_
				CBR at		2.50 mr 5.00 mr		22 33	20		7 9				
Additional	information			ODITA		7.50 m	4	32	19		9 10				
Calcrete/0	crushed			Swell		%		0	0		0				
Stabilizing				Final M	oistur		2	1.0	23.8	3	0.2				
	nalysis (Wet pro		SANS 3001-GR1	1000		,			-	-				1	
	100 mm	100													
	75 mm	100								-		-1			-
	63 mm	100 100			Loop and A day		1			1					
bu	50 mm 37.5 mm	100		● 100	in completender Gebiefen ost							-			
BSSE	37.5 mm 28 mm	100		CBR Value						_]					
d a	20 mm	100		N N			_			-		and a	V3300		
age	14 mm	100		8 10						_					
ent	5 mm	100					1			=		-			
Percentage Passing	2 mm	100								-			-		
LL.	0.405	64		1											
	0.425 mm 0.250 mm	23		1 '	88	90	92	ę	94	9	6	98	3	100)
	0.150 mm	4						Com	pactio	on (%	6)				
	0.075 mm	2					Int	terpola	ted Cl	BRE	Data				
Grading Mo		1.3		@	100)% <u>C</u>			26						
		Iortar Analysis		@		Mod. AASHTO			19						
Coarse Sa		36 41		CBR 0 @		% 8	_		16 12						
Coarse Fin Medium Fir		19		@ @		5% ₹. 3% <u>6</u>			9						
Fine Fine S		3		@)% ≥			5			-			
Silt and Cla	ay	2				3001 Midpoi	nt		20						
Atterb	erg Limits	SANS 30	001-GR10						sificat						
Liquid Limi				HRB (A		TO)		1	A-3(0))					
Plasticity Ir		NP		COLTO			_		G9						
Linear Shri	nkage (%)			TRH14					G10						
100 -					/	1	-	TTT	1	•	•	•	•		•
80 -															
											+	_			
1 00 H									-				-		++1
4 40											-				
Percentage Passing															
20 -															
0															



SOUT	HERN	AFRICA	A (PTY)	Lt	d				1				12 L / 1							
сизто	MER :	WEC	Consult									PRO	JECT :	Erf 2044, Ma	asakha	ine Ga	nsba	ai		
		Po Bo	x 6353							С	0-0	RDIN	ATES :							
		Unieda	al								5	SAMPI	LE No :	1						
		7612											REF :	2019-C-102	1					
ATTEN	TION :	Jan Sv	wanepo	el									DATE :	18.04.2019						
					~~	<u>مر</u>	E	D			FE			RDAT			DT	-		
	L	/////	1////									GT6 ; T		K DAT		-70	КІ			
STAKE	VALUE. :	1											REMAR	RKS :	Test te	erminate	d			
SECTIO	N :												START	ING DEPTH:	80					
4	ative ows	ation mm)	ated CBR		£	(ative	SWC	ation	(uu	ited	BR	0				8			
Depth (mm)	Cumulative No. Blows	Penetration Rate (mm)	Estimated Insitu CBR		Depth	(mm)	Cumulative	No. Blows	Penetration	Rate (mm)	Estimated	Insitu CBR	100							
80				1									1							
210	5	26.0	7	1									200						_	
300	10	18.0	11														<u> </u>	\square		
395	15	19.0	10										300							
480	20	17.0	12																	
560	25	16.0	13										400							
680	30	24.0	8								_									
760	35	16.0	13		<u> </u>				<u> </u>		_		500							
810	40	10.0	22 12						<u> </u>				- 500							
895 945	45 50	17.0	22		<u> </u>			- 2	<u> </u>				-							
1105	55	32.0	5		—		-				-		600							
1190	60	17.0	12		<u> </u>		⊢	5	-		⊢		-					1	++-	
1260	65	14.0	15										700			+ + + + + + + + + + + + + + + + + + + +		$/ \uparrow$	+	
1345	70	17.0	12										1				#/		++	
1400	75	11.0	20										800				\mathbb{K}^{-}	++	++	
						_							1					+	++	
													900				\parallel	+	++	
																+ + + + + + + + + + + + + + + + + + + +	K	++	++	
													1000	+			\parallel	++	+	
1		1	1		1		I		1		1		1				11	N I		

Remarks:



Technical Signatory

Penetration rate mm / blow

Revision 2 Labco SF 164 02.12.2008

Position : 12 of 12

Saul de Vlam



		CO. COLLEY	1011)						_				
сиятс	MER :	WEC	Consult								PRO.	JECT :	Erf 2044, Masakhane Gansbaai
•			x 6353						C	0-0		ATES :	
		Unieda							•			E No :	2
			al							3			2 2019-C-1021
	TION	7612		_1									
ATTEN			wanepo										18.04.2019
	Ľ)YN/	AMIC	C	ΟΛ	IE	PE	ΞN	E	ΓR	OM	ETE	R DATA REPORT
								M	ЕТНО	DD S	T6 ; TN	1H6	
STAKE	VALUE. :											REMAR	RKS : Test terminated
SECTIO	N :											OTADT	
						1						STAR	ING DEPTH: 100
	tive ws	in tion	BR d		~ ~	live	ws	tion	Ē	ed	BR	0 -	
Depth (mm)	Cumulative No. Blows	Penetration Rate (mm)	Estimated Insitu CBR		(mm)	Cumulative	No. Blows	Penetration	Rate (mm)	Estimated	Insitu CBR		
	S Cr	Rate	Est Insi			D.	No	Pen	Rate	ш Т	Insi	100 -	
100						┼╴							
240	5	28.0	6	-								200 -	
310	10	14.0	15										
430	15	24.0	8									300 -	
520	20	18.0	11	_									
610	25	18.0	11	_				 				400 -	
700	30	18.0	11	-		_							
795 845	35 40	19.0 10.0	10 22	-		-						500 -	
910	40	13.0	16									000	
995	50	17.0	12	-		+						600 -	
1180	55	37.0	4	-								000 -	
1240	60	12.0	18									700 -	
1310	65	14.0	15									700 -	
1400	70	18.0	11									800 -	
												000 -	
				-		_						000	
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				- -				-				4000	
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Remark	s:												(1)
- we man h													Name :
Revis													
Labco	o SF 164											a of Pa	sition : Technical Signatory

Labco SF 164 02.12.2008

Position: 12 of 12

Saul de Vlam



HERN AFRICA (PTY) Ltd

CUSTOMER : WEC Consult Po Box 6353 Uniedal 7612

PROJECT : Erf 2044, Masakhane Gansbaai **CO-ORDINATES :**

SAMPLE No: 3 REF: 2019-C-1021

ATTENTION : Jan Swanepoel

DATE: 18.04.2019

DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

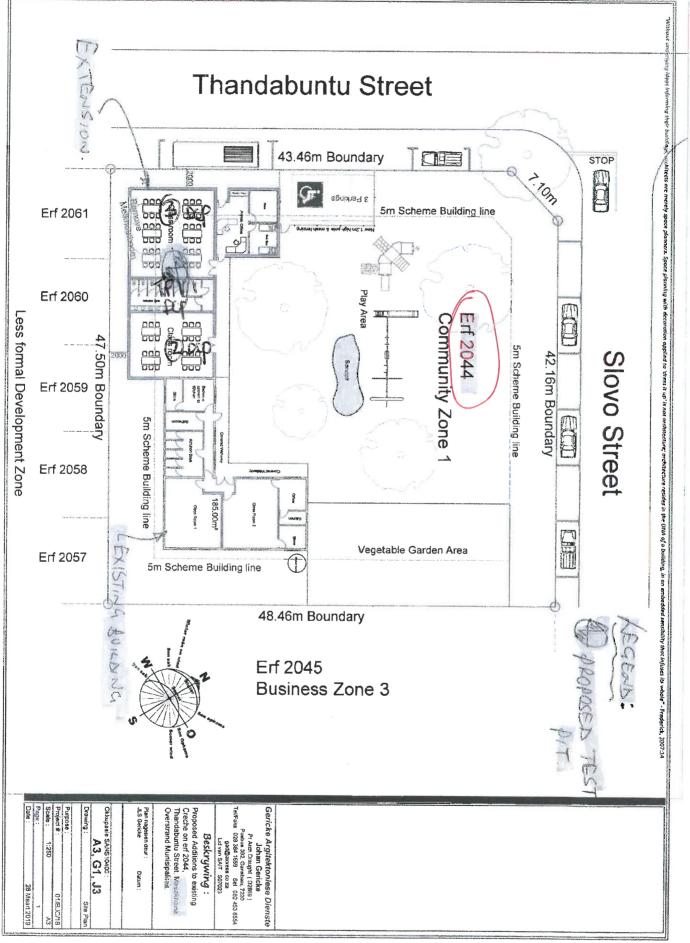
STAKE	VALUE. :												REMAR	KS : Test terminated
SECTIO	N:												STARTI	NG DEPTH : 90
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Remark Revis	s:_	L		L	1				<u> </u>		L		I. N	Name :

Labco SF 164 02.12.2008

Technical Signatory

Saul de Vlam

GANSBAA





SOIL PROFILE REPORT

Date: 18.04.2019

Job no.: 2019-C-1021



PROJECT:	WEC: Erf 1969 Eluxoweni Pearly Beach
PIT / HOLE No:	Tp 1
SAMPLED BY:	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

.K.//

Technical Signatory – S de Vlam



Client	:	Western and Eastern Cape Consulting Engi				_
Address	:	P O Box 6353	Client Reference	÷		
	•	Uniedal	Order No.	:	SC1690/16	
	٢	7612				
Attention			Date Received	:	23/04/2019	
Facsimile	:	021 882 8207	Date Tested	:	23/04/2019 - 06/05/2019	
E-mail	:	cindy@wec-consult.co.za; jan@wec-consult.c	Date Reported	:	06/05/2019	
Project	:	Implementation of Early Childhood Centres: Ba	mbanani, Masakhar	ie 8	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 Viam	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).

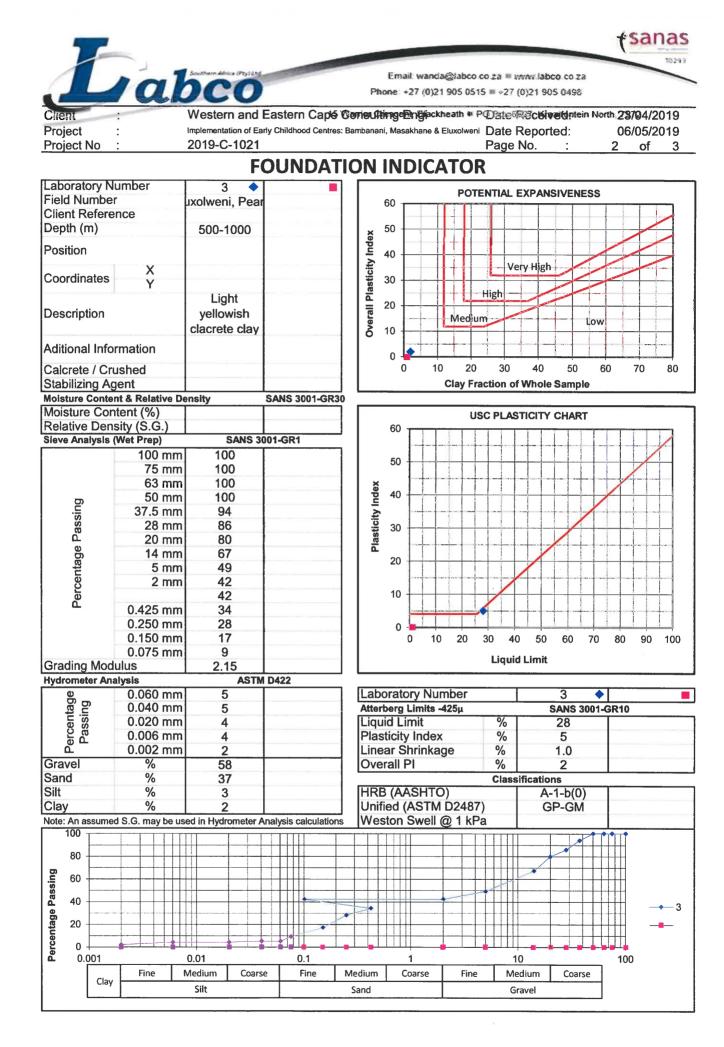
The following parameters, where applicable, were assumed: Rock types were assumed to be of an Arenaceous nature with Siliceous cementing material.

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.



1	1	Southern Adrica (Pty) 61:1	State State	-	mail	wan	ca®iat	hen er	ר לא ו	- www	N/ Ja	~~~	-07				
	a	Southern Africa (PTy) Etc					21 905										
Client			Cane Consulting												120	010	
Project	: Impler	ern and Eastern C mentation of Early	v Childhood Ce	Vamor Cres	scent,	Blac	kneath N Dat	A Re	186X	662 ed	7, K	aaifi	onté	16/0	5/2(757	2
Project No		C-1021	y Official oct	11103. 00.	IIDai	lain,		je No		cu		:			of	3	
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Laborator	-	3 🔶		Laborat	*					3		•					
Field Num		1969, Eluxolweni, Pearly Beach		Maximum	Dry D			mum N				t		SAN	IS 30)01-0	3R30
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		[Moisture			%	Co	mpac 1	ction 15.2		a	1				
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15 Warrior Crescent, Blackheath,7580 E-Mail: info@labco.co.za Web: www.labco.co.za Tel: 021 905 0515

SOUTHERN AFRICA (PTY) Ltd

7612

CUSTOMER : WEC Consult Po Box 6353 Uniedal

CO-ORD

PROJECT : Erf 1969, Eluxolweni, Pearly Beach

CO-ORDINATES :

SAMPLE No: 1

REF: 2019-C-1021

ATTENTION : Jan Swanepoel

DATE: 18.04.2019

DYNAMIC CONE PENETROMETER DATA REPORT

METHOD ST6 ; TMH6

STAKE	VALUE. :												REMAR	KS :				Refu	JSe	@	roc	k				
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Depth (mm)	Cumulative No. Blows	Penetration Rate (mm)	Estimated Insitu CBR		Depth	(mm)	Cumulative	No. Blows	Penetration	Rate (mm)	Estimated	Insitu CBR	0 - 100 -													
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345	15	17.0	12										300 -			$\left \right $					╫		+	\vdash	+	
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1245	80	10.2	22		<u> </u>		1																			
1260	85	3.0	110		<u> </u>		ļ		I				1000 -													
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Revision 2 Labco SF 164 02.12.2008



Technical Signatory Saul de Vlam



JTHERN AFRICA (PTY) Ltd CUSTOMER : WEC Consult PROJECT : Erf 1969, Eluxolweni, Pearly Beach Po Box 6353 **CO-ORDINATES:** Uniedal SAMPLE No: 2 7612 REF: 2019-C-1021 ATTENTION : Jan Swanepoel DATE: 18.04.2019 DYNAMIC CONE PENETROMETER DATA REPORT METHOD ST6 ; TMH6 STAKE VALUE. : REMARKS : Refuse @ rock **SECTION:** STARTING DEPTH: 90 Cumulative No. Blows Cumulative No. Blows Penetration Estimated Penetration Rate (mm) Insitu CBR Rate (mm Estimated Insitu CBR 0 Depth Depth (mm) mm 100 90 200 210 5 24.0 8 305 10 19.0 10 395 15 18.0 11 300 480 20 17.0 12 545 25 13.0 16 400 600 30 11.0 20 690 35 18.0 11 500 740 40 10.0 22 800 45 12.0 18 600 865 50 13.0 16 945 55 16.0 13 700 1115 60 34.0 5 1200 65 17.0 12 800 1260 70 12.0 18 1300 75 8.0 30 900 1394 80 18.8 10 1435 85 8.2 29 1000 1100 1200 1300 1400 1500 1600 0 1 10 100 Penetration rate mm / blow Remarks: Name :

Revision 2 Labco SF 164 02.12.2008

12 of 12

Technical Signatory Saul de Vlam



THERN AFRICA (PTY) Ltd CUSTOMER : WEC Consult **PROJECT : Erf 1969, Eluxolweni, Pearly Beach CO-ORDINATES :** Po Box 6353 Uniedal SAMPLE No: 3 REF: 2019-C-1021 7612 ATTENTION : Jan Swanepoel DATE: 18.04.2019 DYNAMIC CONE PENETROMETER DATA REPORT METHOD ST6 ; TMH6 STAKE VALUE. : **REMARKS** : Refuse @ rock **SECTION:** STARTING DEPTH: 86 Cumulative Cumulative Estimated No. Blows Penetration Rate (mm) Estimated Blows Penetration Rate (mm Insitu CBR Insitu CBR 0 Depth Depth (mm) шш ۶. 100 86 200 205 5 23.8 8 305 10 20.0 9 400 15 19.0 10 300 493 20 18.6 10 550 25 11.4 19 400 630 30 16.0 13 696 35 13.2 16 500 740 40 8.8 26 810 45 14.0 15 600 894 50 16.8 12 950 55 11.2 20 700 1120 60 34.0 5 1196 65 15.2 14 800 1260 70 12.8 17 1300 75 8.0 30 900 1369 80 13.8 15 1440 85 14.2 15 1000 1100 1200 1300 1400 1500

Remarks:

Name :

1600 0

> **Technical Signatory** Saul de Vlam

1

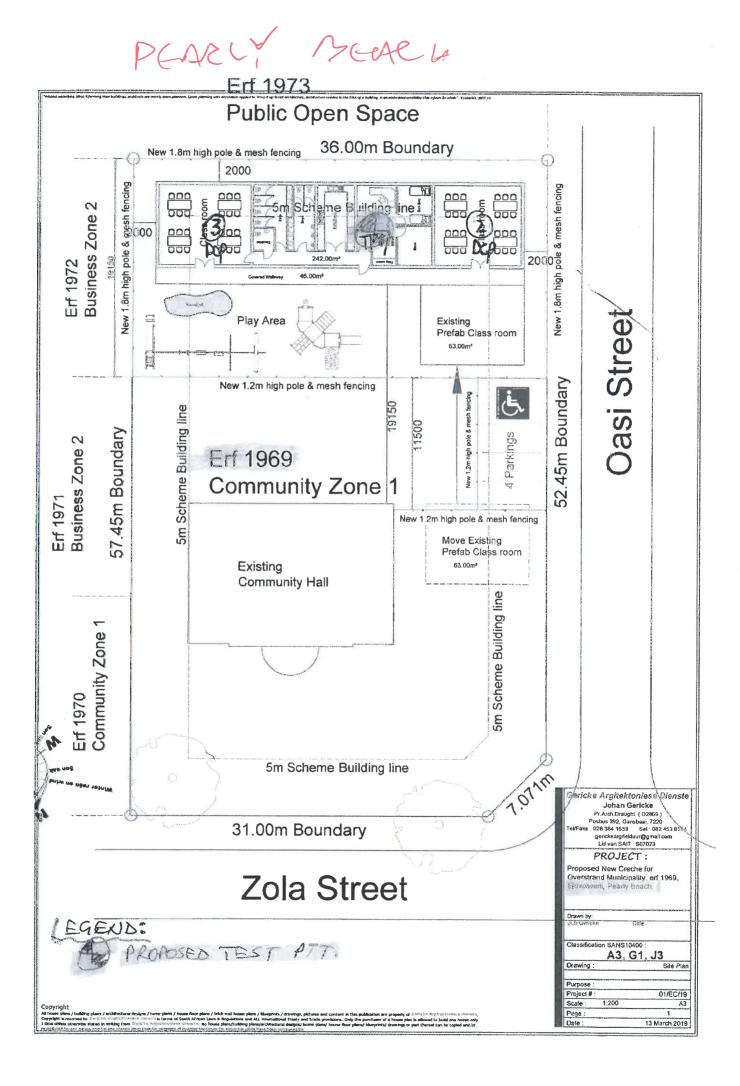
10

Penetration rate mm / blow

100

Revision 2 Labco SF 164 02.12.2008

12 of 12



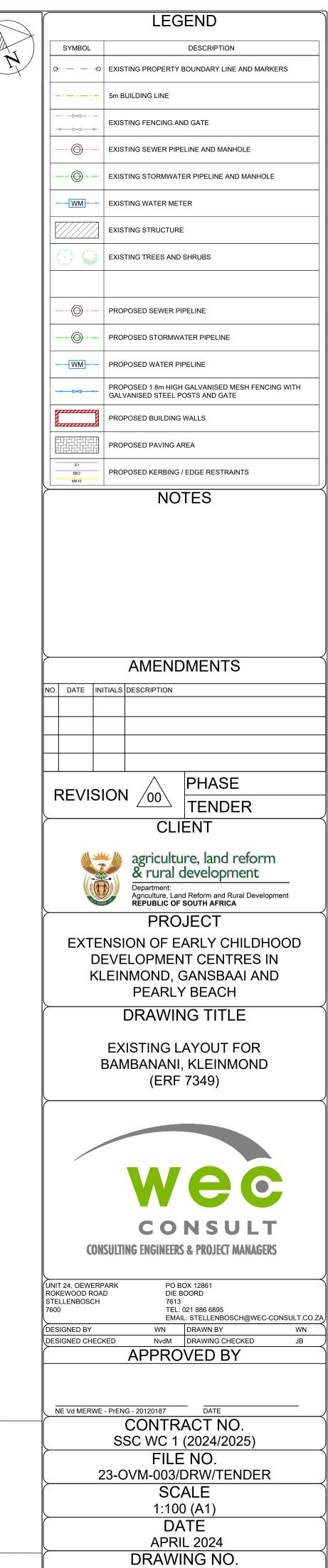
DEPARTMENT AGRICULTURE LAND REFORM AND RURAL DEVELOPMENT

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

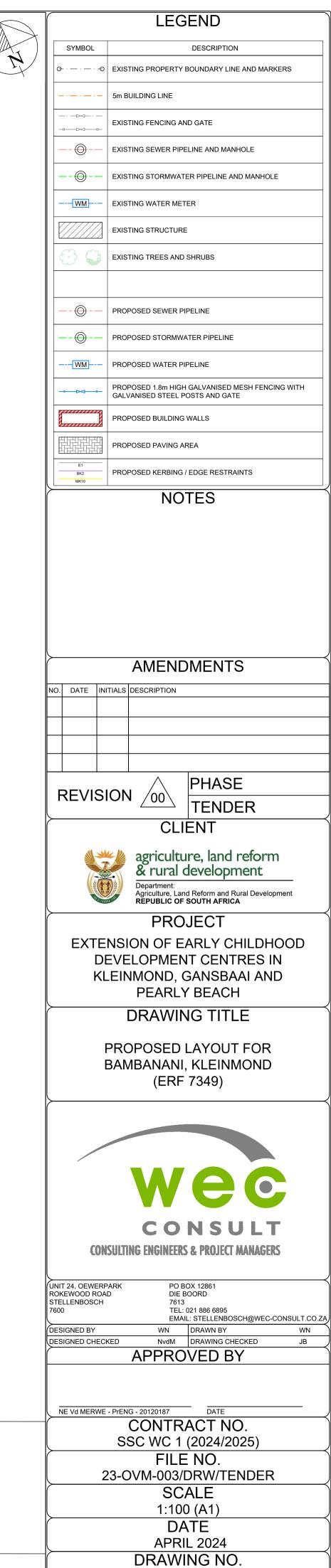
C8: DRAWINGS



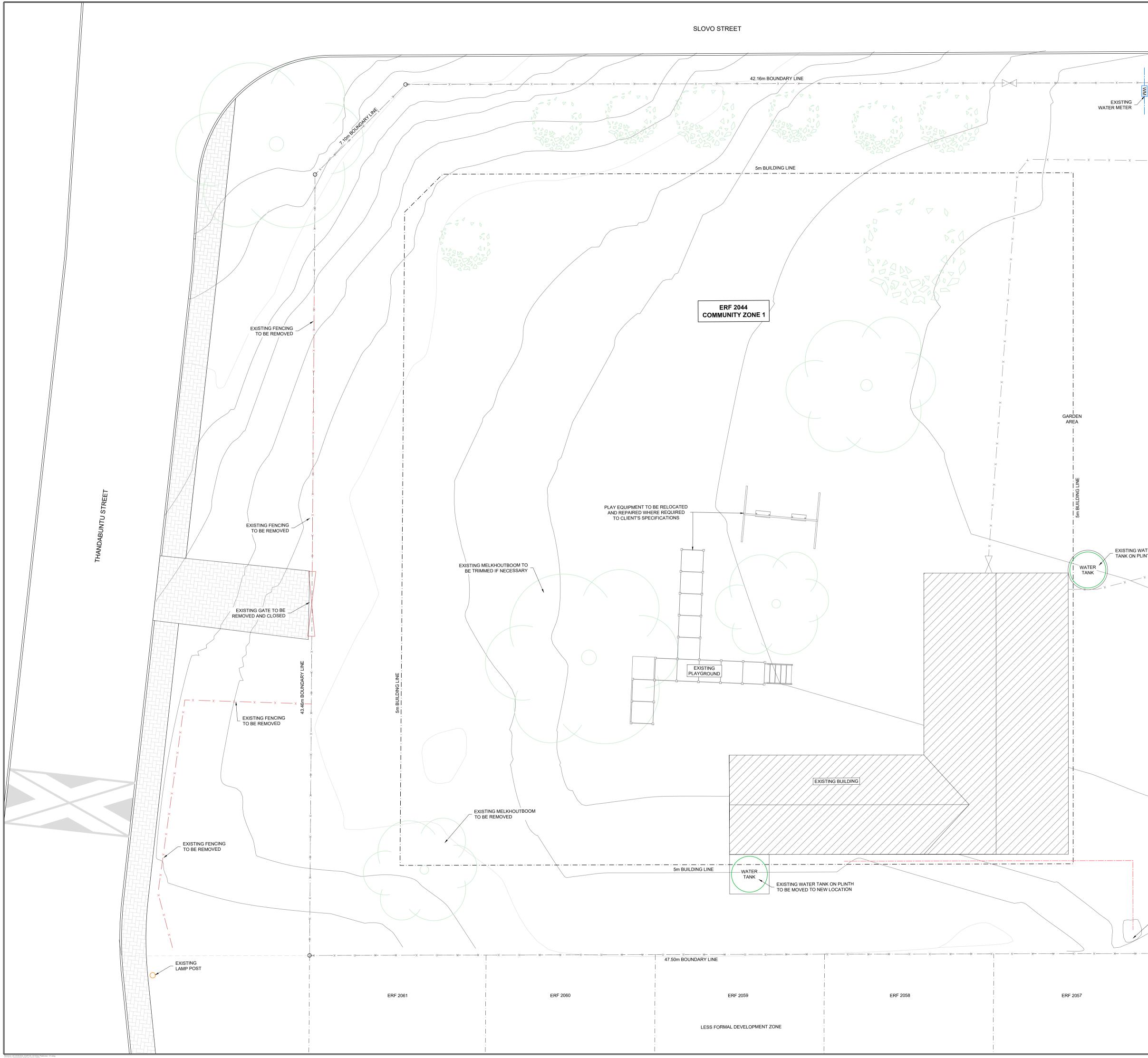


23-0VM-003/SUR101/00

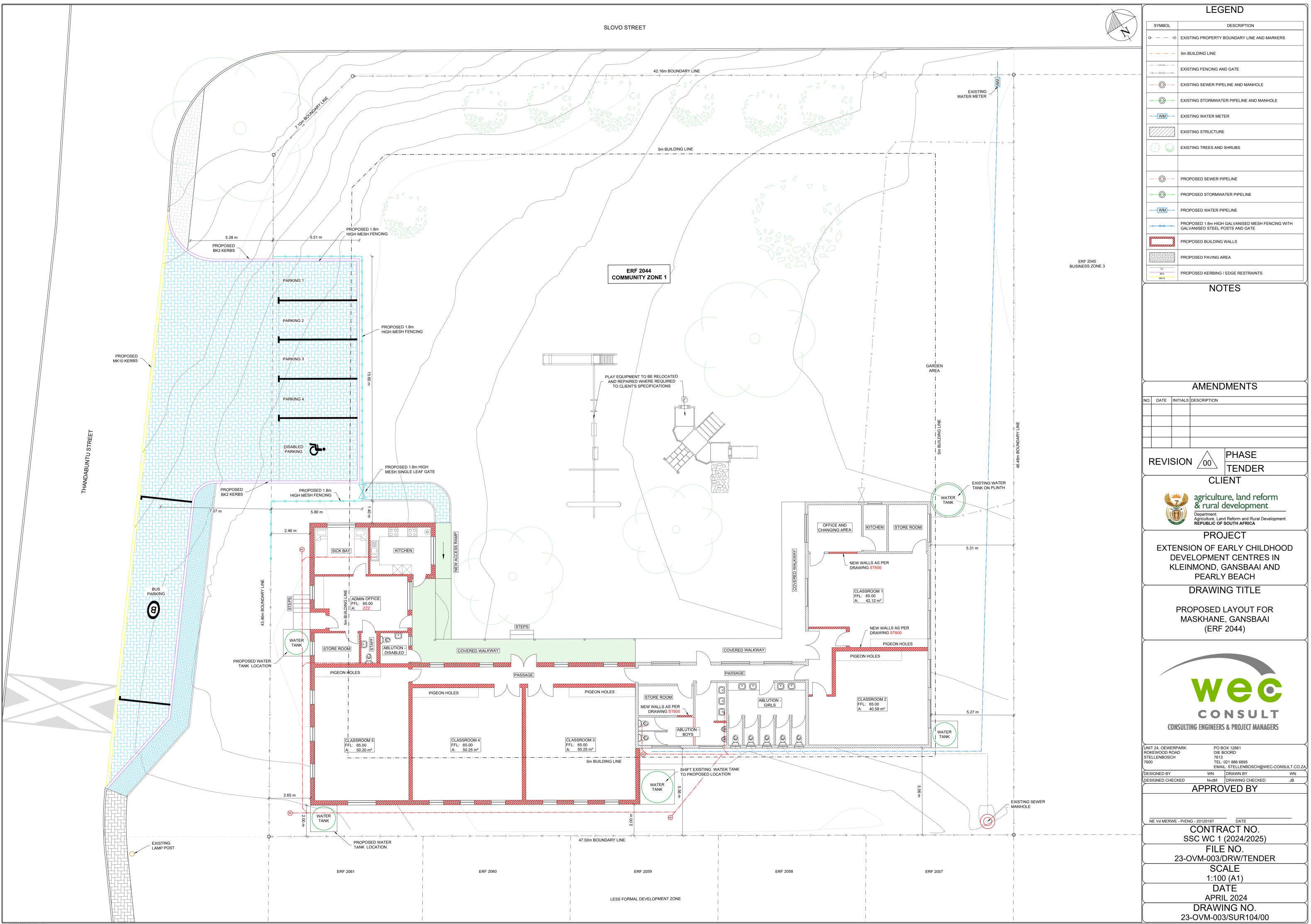


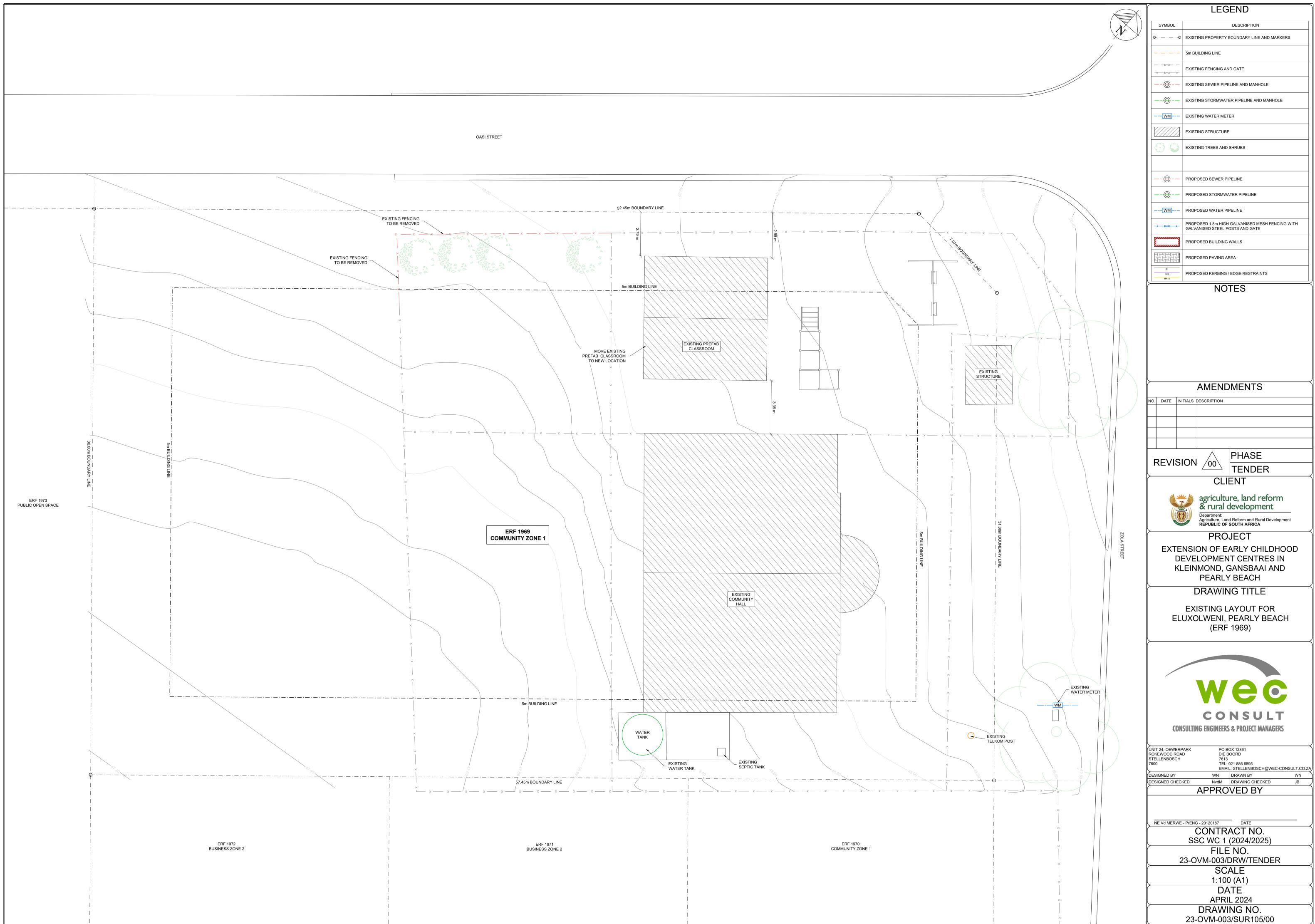


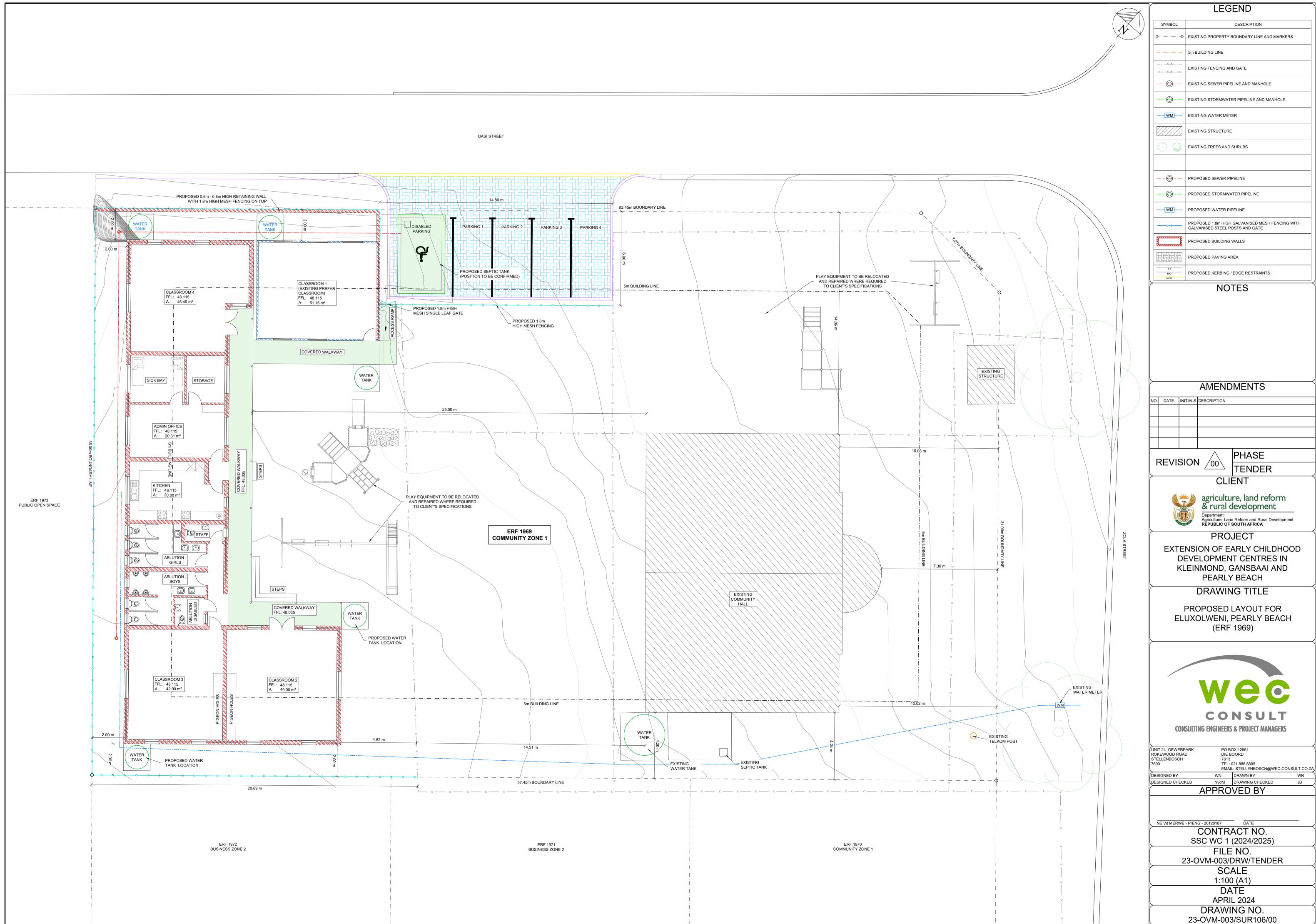
23-OVM-003/SUR102/00

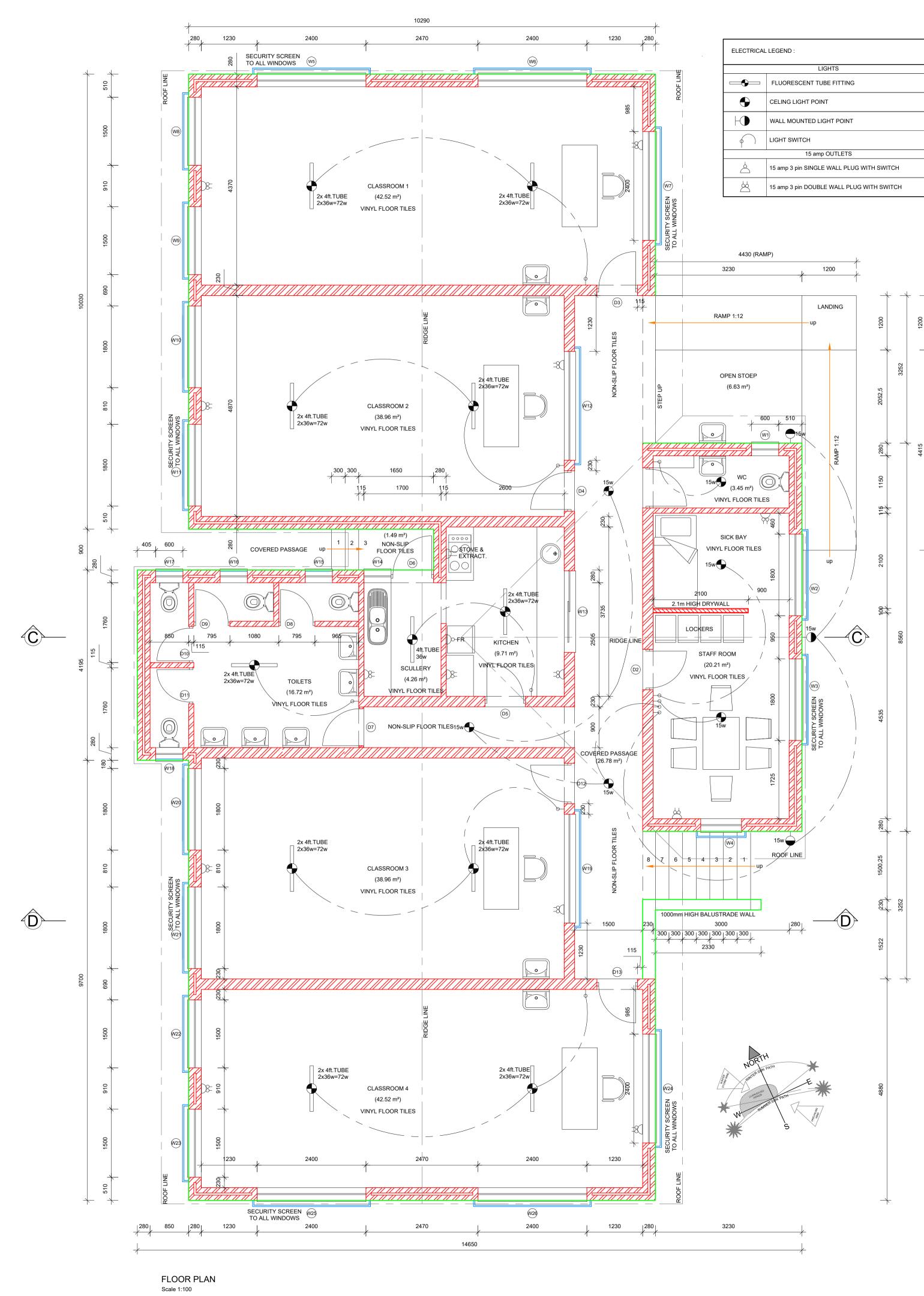


	SYMBOL DESCRIPTION
	$\bigcirc \cdot - \cdot - \cdot - \circ$ EXISTING PROPERTY BOUNDARY LINE AND MARKERS :
	5m BUILDING LINE
	EXISTING FENCING AND GATE
	EXISTING SEWER PIPELINE AND MANHOLE
×	EXISTING STORMWATER PIPELINE AND MANHOLE
	WM EXISTING WATER METER
×	EXISTING STRUCTURE
x*	EXISTING TREES AND SHRUBS
×	
×	
Ť	
 *	WM PROPOSED WATER PIPELINE
	PROPOSED 1.8m HIGH GALVANISED MESH FENCING WITH GALVANISED STEEL POSTS AND GATE
	PROPOSED BUILDING WALLS
×	PROPOSED PAVING AREA
ERF 2045 BUSINESS ZONE 3	
! *	
	NOTES
*	AMENDMENTS
×	NO. DATE INITIALS DESCRIPTION
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INDARY	
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48.4(
	CLIENT
LINTH	agriculture, land reform & rural development
- X	Department:
	Agriculture, Land Reform and Rural Development REPUBLIC OF SOUTH AFRICA
	PROJECT
	EXTENSION OF EARLY CHILDHOOD DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH
, k İ	DRAWING TITLE
	EXISTING LAYOUT FOR MASKHANE, GANSBAAI (ERF 2044)
	wec
*	CONSULTING ENGINEERS & PROJECT MANAGERS
×	UNIT 24, OEWERPARK PO BOX 12861 ROKEWOOD ROAD DIE BOORD STELLENBOSCH 7613 7600 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)
	SSC WC 1 (2024/2025) FILE NO.
	23-OVM-003/DRW/TENDER
	SCALE 1:100 (A1)
	APRIL 2024
	DRAWING NO. 23-0VM-003/SUR103/00
· .	









ELECTRICAL	LEGEND :								
	LIGHTS								
	FLUORESCENT TUBE FITTING								
CELING LIGHT POINT									
HO	WALL MOUNTED LIGHT POINT								
φ)	LIGHT SWITCH								
	15 amp OUTLETS								
15 amp 3 pin SINGLE WALL PLUG WITH SWITCH									
<u></u>	15 amp 3 pin DOUBLE WALL PLUG WITH SWITCH								

SPECIFICATIONS

The main contractor is to supply a "Lump Sum Quote" and must include the following Labour & Sundry Items. Particular attention must be given to the specified material and finishes, as this has a direct bearing on the labour aspect.

- a) All labour for Wetworks, including the columns, beams, first floor balcony. b) All relevant Carpentry work including the following: skirting, architrave's
- doors, cornices, dado rails and window cills. c) All relevant painting.
- d) All relevant costs to repair damage done to brickwork or plaster by the Plumber & Electrician after installing or shifting their piping. e) Labour required to fit Bathroom & Kitchen Accessories, excluding mirrors.
- f) All Wall & Floor Tiling. g) All Tiles at Window reveals to be mitered.
- h) All scaffolding, ladders, concrete mixers, pokers, compactors, grinders and general tools required on the site for the entire project. A chemical Toilet to be provided on site and to be kept neat and clean.
- Removal of rubble from site from time to time.

k) Cleaning of site all round as well as windows.

The following Trades will be separate contracts, but will still fall within the Main Contractor's responsibility and the cost must be included in the overall Tender price. Access to the site must be negotiated with the Main Contractor.

- a) Aluminium Windows as well as Glazing, Silicon Sealing of Aluminium on completion of painting.
- b) Sealing of all roofs. This is to be done by a recognised Derbigum Applicator. c) Laying of carpets.
- d) Bathroom & Kitchen Cupboards. e) Installation Mirrors.
- f) Alarm System.
- q) TV Installation. h) Roll-on Lawn.
- i) Railings.

Compliance to Health & Safety Measures: The role players (The client and his Contractors) have to comply with the following: Occupational Health & Safety Act No.85 of 1993 as amended by the Occupational Health & safety Amendment Act No.181 of 1993; the Construction regulations No.R1010 of 18 July 2003; General Administrative Regulations, 2003, No.R929 of 25 June 2003; General Safety Regulations, 1986 No.R1031 of 30 May 1986; and all other Regulations that might be applicable.

Foundations: • All foundations as per Engineer specifications.

Floor:

- 25mm screed laid on a 75mm concrete base on a 250 Micron Damp
- Proof Membrane. Filling under floor slab compacted in 150mm layers.
- The entire ground floor slab, cast a 10mm Weld-mesh Matting in concrete surface bed.
- Drainage Pipes passing underneath floor and foundations must be cast in a 300mm by 300mm concrete sheath.
- All required drainage pipes must be cast into concrete slab.
- No chasing of 40mm or 110mm pipe work will be permitted in the concrete floor.
- VINYL FLOOR TILES: Supply & fix 2mm 300x300mm Marleyflex Semi-Flexible floor tiles or other similar approved tiles as per manufactures specifications.
- NON-SLIP FLOOR TILES: Supply & install 300x300mm non-slip tiles as per client specifications.

Electrical & Intercom: Allow PC mounts as specified.

Construction & Movement Joints:

 In conjunction with the engineer designing the concrete deck & beams, the contractor must determine the position of any required brickwork, as well as the roof.

Sanitaryware & Taps:

- Plumber is to ensure that all sanitaryware is protected from scratching or damage.
- All taps are to be fitted at appropriate depth and to be level. Supply & install 150L hot water cylinder as per manufacturers specifications. Ensure that hot water cylinder is functioning 100%.

• Drip tray to be installed.

- Bathroom Accessories:
- Main Contractor is to fit all supplied Bathroom Accessories.

Windows:

- Windows to be powder coated Aluminium. All windows to have laminated safety glass.
- Aluminium contractor is to tape all windows with tape and protective plastic where possible and Main Contractor is to ensure that the covers

are kept in good order.

- Door Furniture & Ironmongery:
- See PC amount.
- Ensure that all door furniture and ironmongery is protected and kept free from paint.
- Bathroom & Kitchen Cupboards:
- All cupboards as shown on plan (See PC amount).
- Allow for extractor canopy with a duct to the outside. • Oven & Hob supplied by client.

General:

TOTAL AREA

W15 ALUM. PT66
 W16
 ALUM. PT66

 W17
 ALUM. PT66

TOTAL AREA

ALUM. PT66

5% OF NETT FLOOR AREA 0.836 m² min.

entilation openings provided are more than require

15% OF NETT FLOOR AREA 2.508 m² max.

No energy efficiency calculations required.

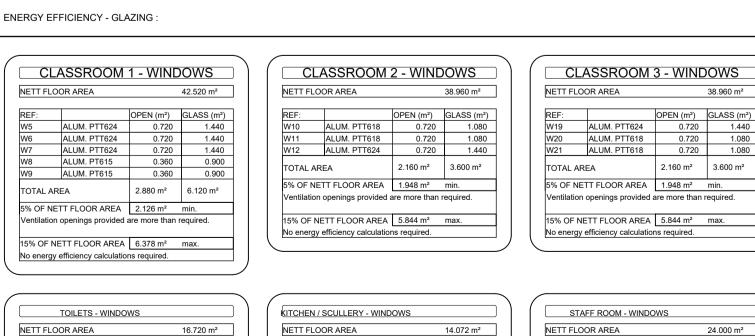
- All fixings are to be rust free e.g. Brass screws, galvanised nails.
- All exposed nails are to be punched and filled, or alternatively a screw
- is to be used.
- Screws and/or nails are to be neatly spaced, and not arbitrarily hammered or screwed into materials.
- Every room is to be fitted with one air-brick. (Position will be advised on site).
- All SABS approved materials and workmanship will be permitted on site. No dimensions are to be scaled. Any variations in sizes and levels must be
- discussed with the project manager.

OPEN / GLASS (m²)

0.360 0.360

0.360

1.440 m²



 REF:
 OPEN (m²)
 GLASS (m²)

 W13
 ALUM. HS1812
 1.080
 2.160

 W14
 ALUM. PT612
 0.360
 0.720

5% OF NETT FLOOR AREA 0.704 m² min.

entilation openings provided are more than required

15% OF NETT FLOOR AREA 2.111 m² max.

Refer to energy efficiency calculations attached.

TOTAL AREA

1.440 m² 2.880 m²

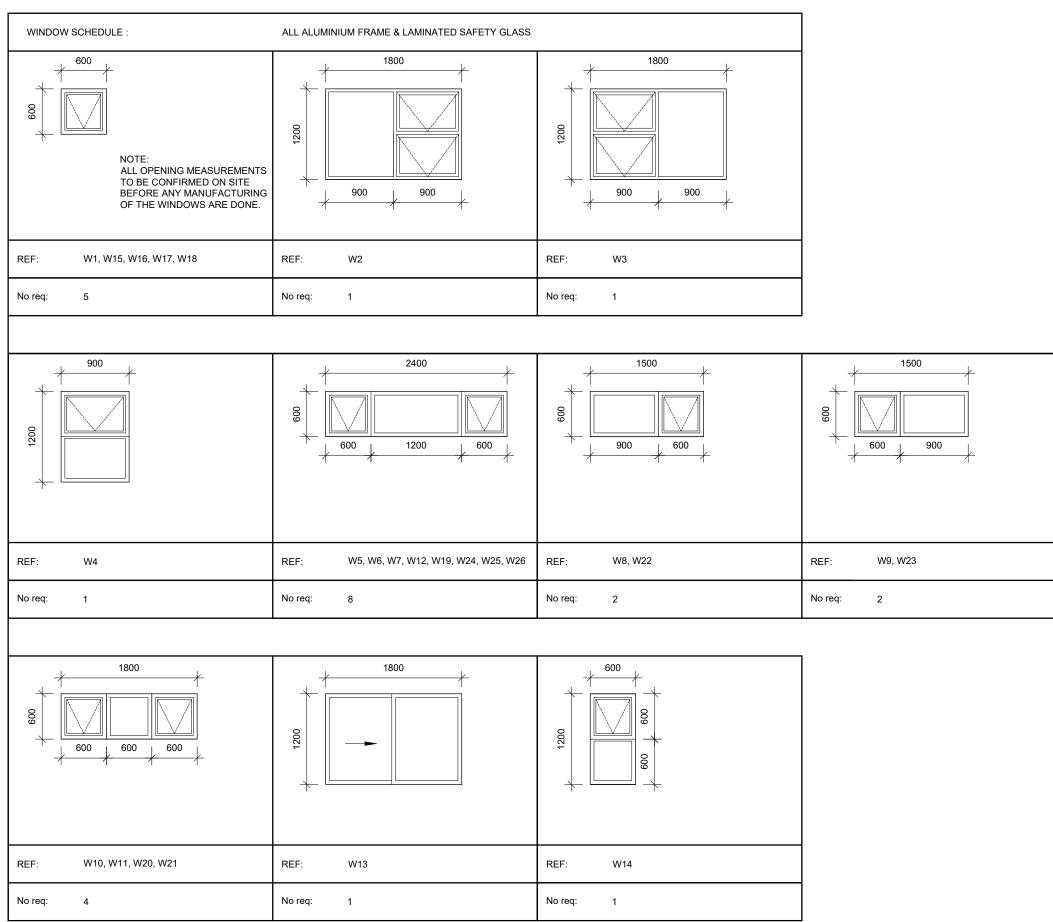
REF:		OPEN (m ²)	GLASS (m ²
W1	ALUM. PT66	0.360	0.36
V2	ALUM. PTT1812	1.080	2.16
W3	ALUM. PTT1812	1.080	2.160
W4	ALUM. PT912	0.540	1.080
TOTAL	AREA	3.060 m ²	5.760 m ²
5% OF	NETT FLOOR AREA	1.200 m ²	min.
Ventilati	on openings provided	are more than	required.
15% OF	NETT FLOOR AREA	3.600 m ²	max.
Pofor to	energy efficiency calc	lations attach	od

- NETT. FLOOR AREA 217.752 m² MAX. PERMITTED x 25 kWh/m².a 5443.8 kWh. Assuming lights are on 5443.8 kWh.a 5 hours per day : / 1820 h.a
- ENERGY EFFICIENCY -

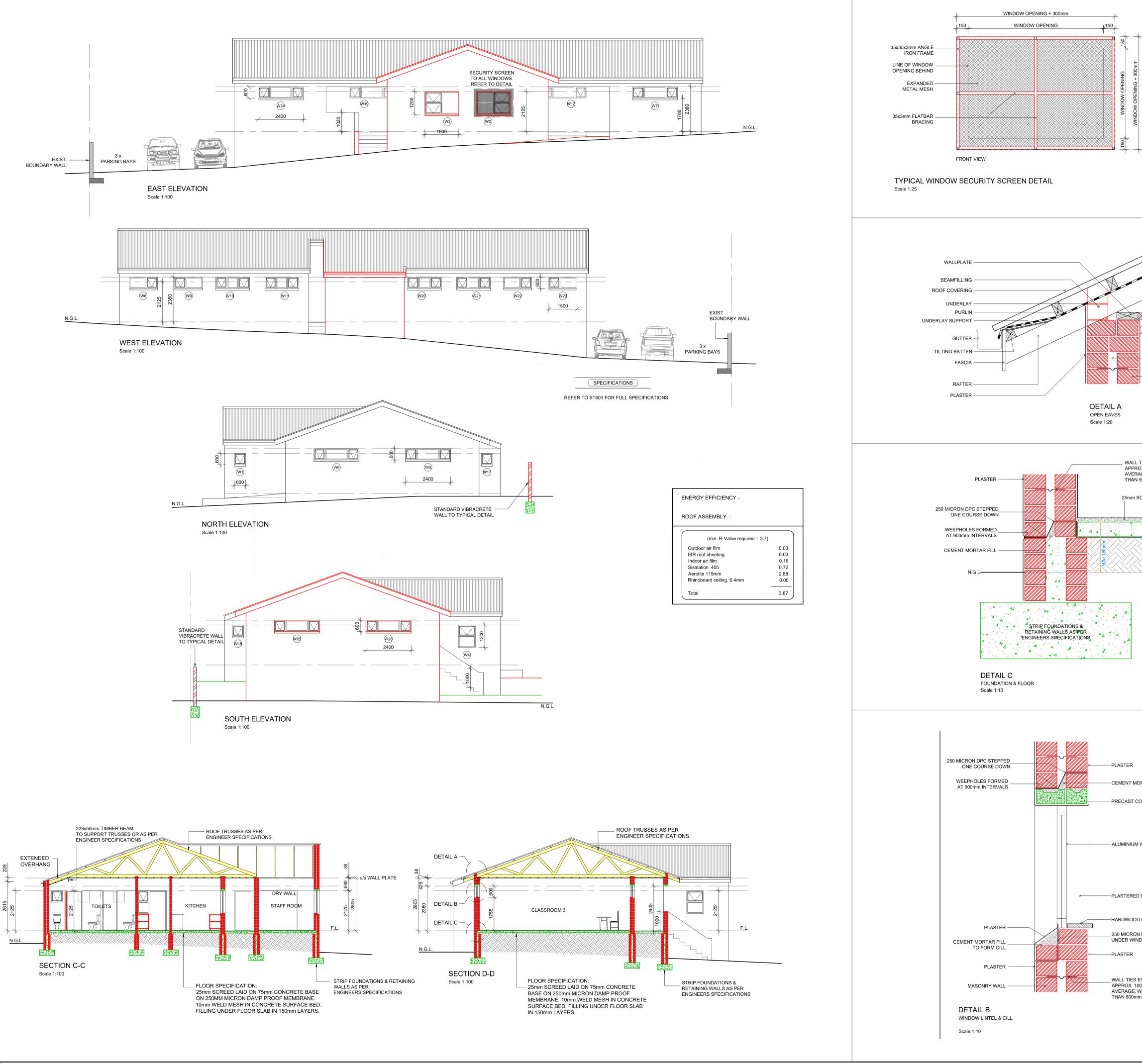
LIGHT FITTINGS :	

	LEGEND
Walls:	SYMBOL DESCRIPTION
 External walls 280mm by Cavity Construction. Internal walls 115mm or 230mm width as indicated. 	
 Walls plastered smooth internally-Steel float finish. Walls plastered externally – Wood float finish. Brickforce every single course below floor and above openings cavity bridged 	
 with butterfly wall ties. 250 Micron DPC around doors, windows & at floor level. 	
 DPC at floor level must be stepped to aid expulsion of excess water cavities. DPC to be stepped in conjunction with wheepholes which should be formed 	
 every 900mm. Precast concrete lintels over all openings. 	
Roof: • IBR roof sheeting fixed on 76x50 purlins on pre-fabricated gang-nail	
trusses.Allow "Sisalation 405" Insulation.	
 Gutters & down pipes required to be determined on site. Facia boards – standard fibre cement. Eaves overhang open as per detail. 	
 Trusses and truss centres as well as brandering spacing to manufacturers specifications. 	
 Trusses fixed on 114x38 wall plate with 1,2x30mm Galv straps built 600mm into brickwork. 	
Ceilings: 6,5mm Skimmed Rhinoboard ceiling, fixed to 38x38 brandering at 300c/c.	
 Cornice – 75mm Gypsum cove cornice all round. 	
Plumbing & Drainage: Sewerage connection point must first be determined before any 	NOTES
 drainage is laid on site. Soil pipes 110mm vented with G.I.Vent valves. Waste pipes 40mm to discharge in gulleys which must be fitted with a 	ALL WINDOW SCHEDULES ARE IN DRAWING ST602
 300mm x300mm manhole cover. Take particular care where pipes exit through walls and endeavour to 	
 obscure pipes as far as possible. Only class 2 Copper piping to be used for hot & cold water system. Plumber to ensure that a balanced water pressure system is installed. 	
Skirtings, Doors & Architraves:	
 22x90 hardwood skirting. Internal wood frames - Meranti timber to be varnished. 	
Paving: Areas indicated on site plan. 	
 Pavers laid on well compacted hardcore. Treat soil underneath pavers with poison against ant and weed. 	
 Form a construction joint approx every 5000mm in both directions and caulk joint with mastic. 	
Edges of paving bedded in concrete.	
	AMENDMENTS
	NO. DATE INITIALS DESCRIPTION
ENERGY EFFICIENCY -	
	PHASE
NETT. FLOOR AREA 217.752 m ² MAX. PERMITTED x 25 kWh/m ² .a	REVISION 00 TENDER
Assuming lights are on 5443.8 kWh.a	CLIENT
5 hours per day : / 1820 h.a 2.991 kW	A A A A A A A A A A A A A A A A A A A
MAX. LIGHT FITTINGS 2991 WATTS	agriculture, land reform & rural development
Location : No. off : W each : W total :	Department: Agriculture, Land Reform and Rural Development REPUBLIC OF SOUTH AFRICA
CLASSROOM 1 4 x 36 W 144 W CLASSROOM 2 4 x 36 W 144 W	PROJECT
CLASSROOM 3 4 x 36 W 144 W CLASSROOM 4 4 x 36 W 144 W TOILETS 2 x 36 W 72 W	EXTENSION OF EARLY CHILDHOOD
KITCHEN / SCULLERY 3 x 36 W 108 W STAFF ROOM 2 x 15 W 30 W	DEVELOPMENT CENTRES IN
STAFF WC 1 x 15 W 15 W PASSAGE 3 x 15 W 45 W	KLEINMOND, GANSBAAI AND
OUTSIDE 3 x 15 W 45 W Total light fittings proposed : 891 WATTS	PEARLY BEACH
	DRAWING TITLE
	BAMBANANI (KLEINMOND)
	PROPOSED BUILDING FLOOR
	PLAN & ELECTRICAL LAYOUT
	Wec
CLASSROOM 3 - WINDOWS NETT FLOOR AREA 38.960 m ² NETT FLOOR AREA 42.520 m ²	CONSULT
REF: OPEN (m²) GLASS (m²) REF: OPEN (m²) GLASS (m²)	CONSULTING ENGINEERS & PROJECT MANAGERS
W19 ALUM. PTT624 0.720 1.440 W20 ALUM. PTT618 0.720 1.080 W21 ALUM. PTT618 0.720 1.080 W21 ALUM. PTT618 0.720 1.080	
TOTAL AREA 2.160 m² 3.600 m² 5% OF NETT ELOOR AREA 1.948 m² min	UNIT 24, OEWERPARK PO BOX 12861 ROKEWOOD ROAD DIE BOORD
Ventilation openings provided are more than required. 5% OF NETT FLOOR AREA 2.126 m ² min.	STELLENBOSCH 7613 7600 TEL: 021 886 6895 EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA
15% OF NETT FLOOR AREA 5.844 m² max. No energy efficiency calculations required. Ventilation openings provided are more than required. 15% OF NETT FLOOR AREA 6.378 m² max.	DESIGNED BY VF DRAWN BY MK DESIGNED CHECKED FH DRAWING CHECKED VF
No energy efficiency calculations required.	APPROVED BY
STAFF ROOM - WINDOWS NOTE: NETT FLOOR AREA 24.000 m ² ALL GLAZING TO BE STANDARD SAFETY GLASS WITH MAX UVALUE OF 5.8 %	FD HARRIS - Pr Tech Eng - 2021300946 DATE
REF: OPEN (m²) GLASS (m²) W1 ALUM. PT66 0.360 0.360	CONTRACT NO.
W2 ALUM. PTT1812 1.080 2.160 W3 ALUM. PTT1812 1.080 2.160 W4 ALUM. PT912 0.540 1.080	SSC WC 1 (2024/2025)
TOTAL AREA 3.060 m² 5.760 m²	FILE NO. 23-0VM-003/DRW/TENDER
5% OF NETT FLOOR AREA 1.200 m ² min. Ventilation openings provided are more than required.	SCALE
15% OF NETT FLOOR AREA 3.600 m ² max. Refer to energy efficiency calculations attached.	AS SHOWN (A1)
	DATE APRIL 2024
	DRAWING NO.
	23-OVM-003/ST601/00

LEGEND

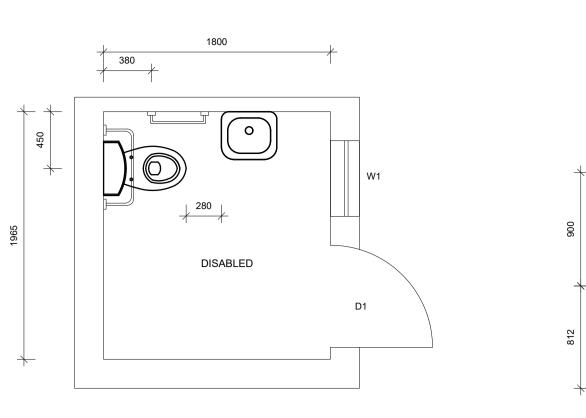


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DRAWING NO. 23-OVM-003/ST602/00												



	SYMBOL DESCRIPTION
32 x 32 x 2.5mm SQUARE TUBE SUPPORTS WELDED ONTO ANGLE FRAME & BUILT 100mm INTO	
BRICKWORK. APPROVED EPOXY TO SECURE FRAME IN PLACE.	
SECTION	NOTES
	_
BATTEN	DRAWING APPROVAL
RHINO CEILING	
CORNICE	
CAVITY	
MASONRY WALL	
	AMENDMENTS
	NO. DATE INITIALS DESCRIPTION
TIES EVERY 5th COURSE HORIZONTALLY & OX. 1000mm APPART VERTICALLY. ON AGE, WALL TIES SHOULD NEVER BE MORE	
500mm APART.	
75mm CONCRETE SLAB	REVISION 00 PHASE
	agriculture, land reform & rural development
	Department: Agriculture, Land Reform and Rural Development REPUBLIC OF SOUTH AFRICA
FILLING UNDER FLOOR SLAB IN 150mm LAYERS	PROJECT
	EXTENSION OF EARLY CHILDHOOD
	DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND
	PEARLY BEACH
	DRAWING TITLE
	BAMBANANI (KLEINMOND)
	PROPOSED BUILDING ELEVATIONS AND DETAILS
ORTAR FILL	Wec
ONCRETE LINTELS	
	CONSULT
	CONSULTING ENGINEERS & PROJECT MANAGERS
I WINDOW FRAME	UNIT 24, OEWERPARK PO BOX 12861
	ROKEWOOD ROAD DIE BOORD STELLENBOSCH 7613 7600 TEL: 021 886 6895 FMAUL: STELL ENBOSCH @WEG CONSULT CO 74
	EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA DESIGNED BY VF DRAWN BY MK DESIGNED CHECKED FH DRAWING CHECKED VF
DREVEAL	APPROVED BY
D CILL	
N DPC TUCKED IDOW FRAME	FD HARRIS - Pr Tech Eng - 2021300946 DATE
	CONTRACT NO. SSC WC 1 (2024/2025)
EVERY 5th COURSE HORIZONTALLY &	FILE NO.
000mm APPART VERTICALLY. ON WALL TIES SHOULD NEVER BE MORE m APART.	23-OVM-003/DRW/TENDER SCALE
	AS SHOWN (A1)
	DATE APRIL 2024
	DRAWING NO.
	23-OVM-003/ST603/00

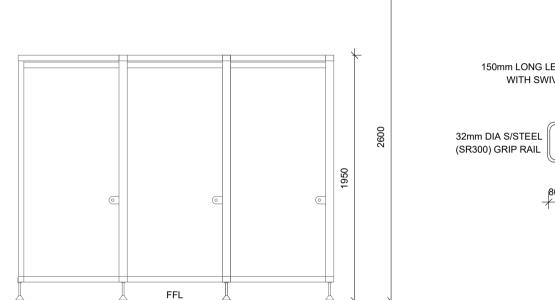




DETAIL PLAN: DISABLED BATHROOM SCALE 1 : 30

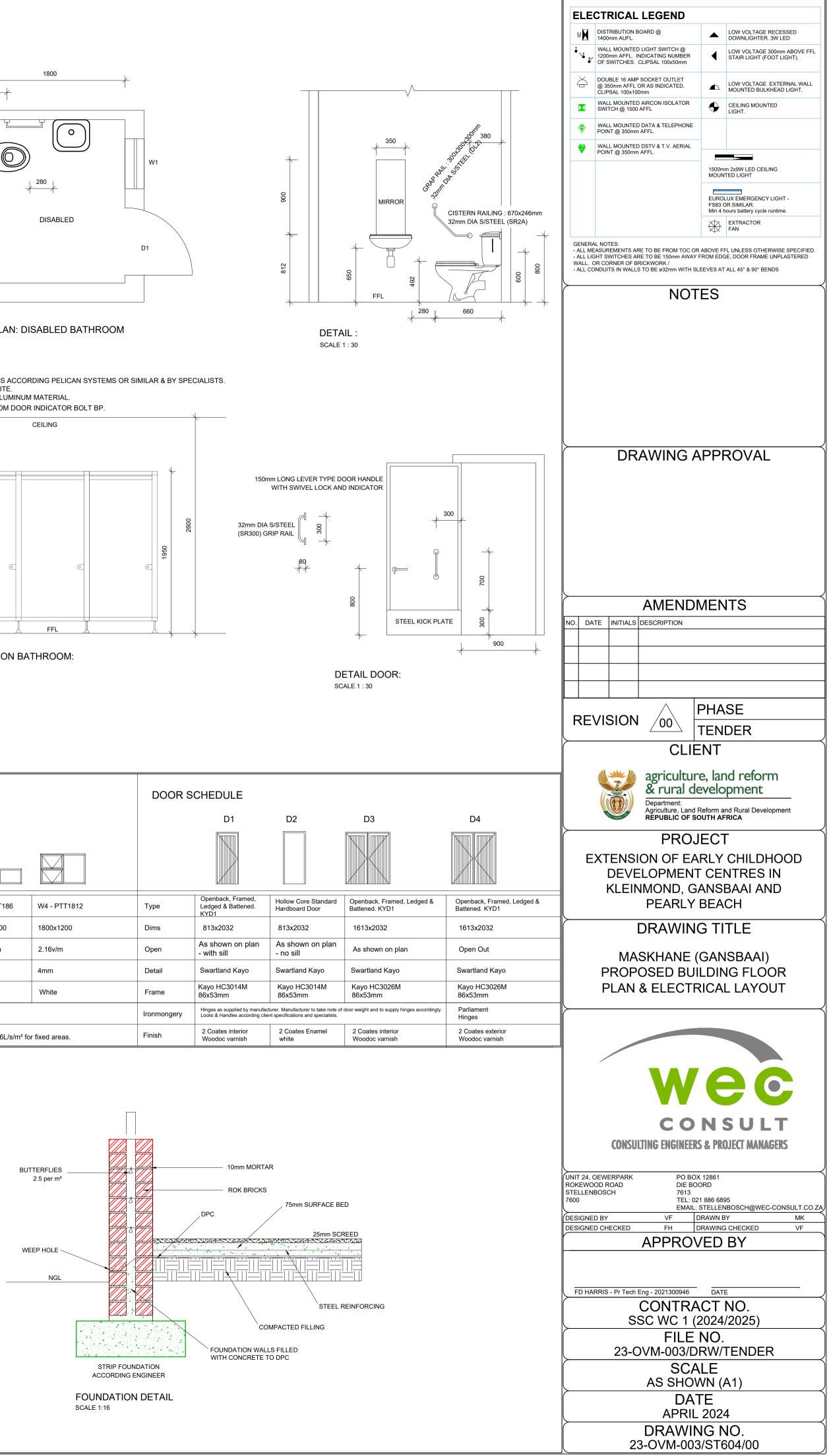
ALUMINUM PARTITIONS ACCORDING PELICAN SYSTEMS OR SIMILAR & BY SPECIALISTS. TO BE CHECKED ON SITE. DOORS ALSO TO BE ALUMINUM MATERIAL.

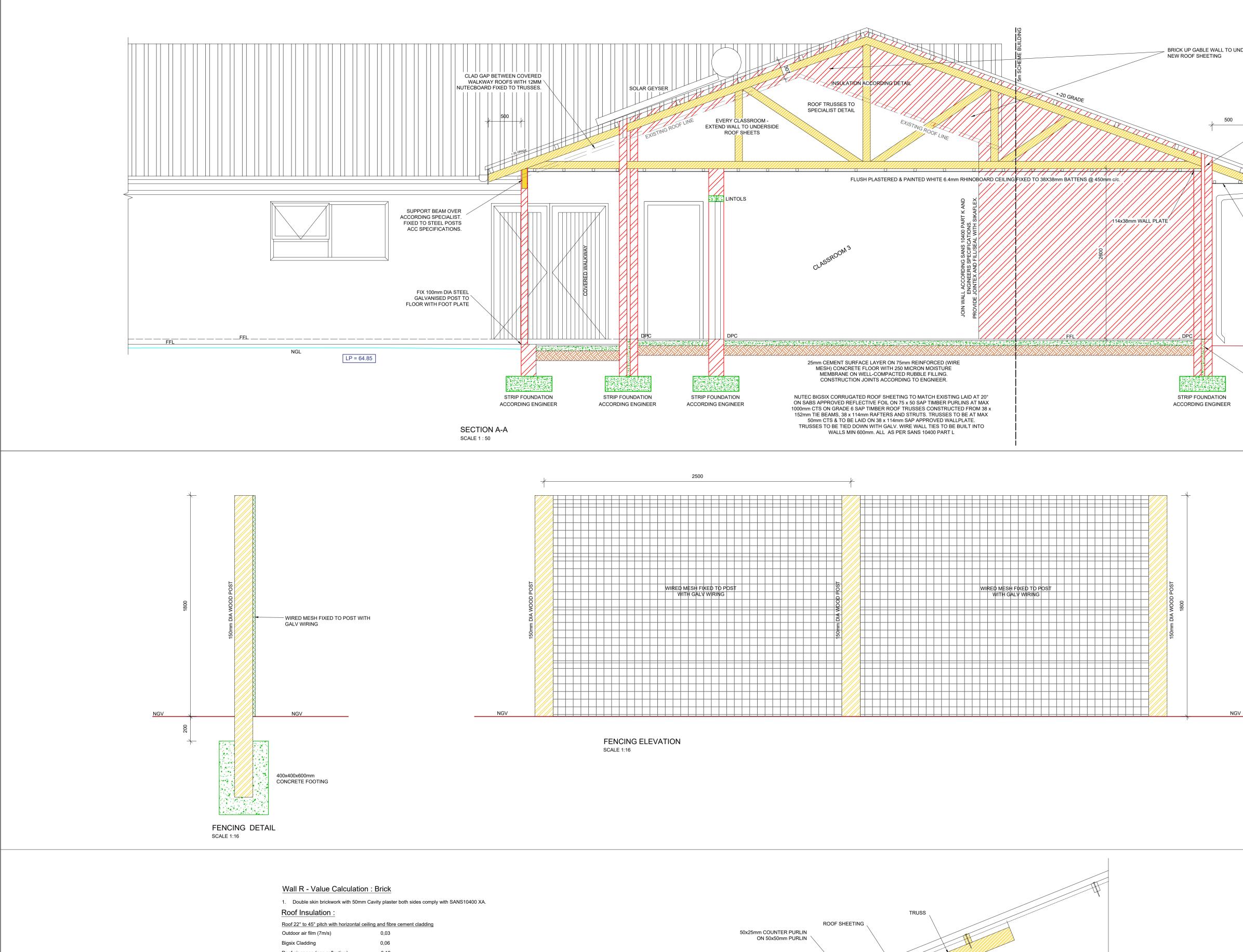
LOCK - YALE BATHROOM DOOR INDICATOR BOLT BP.



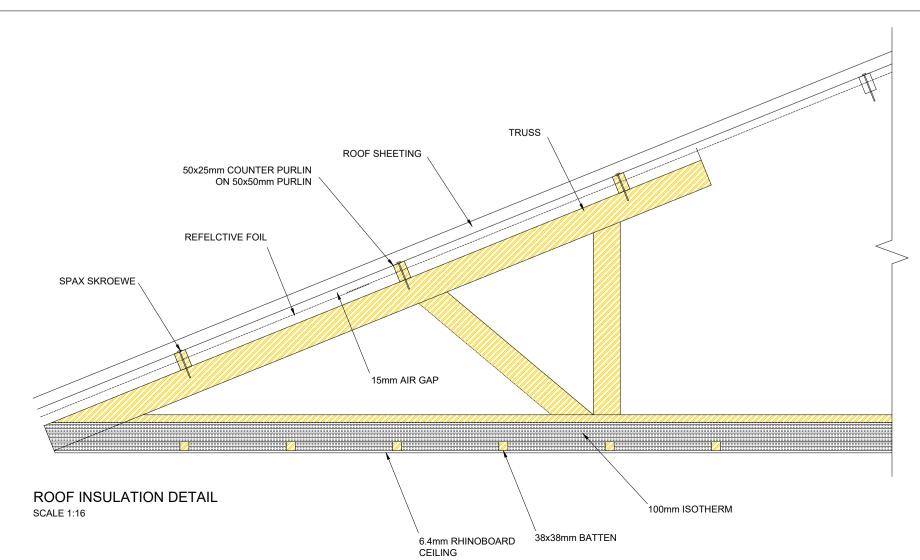
DETAIL PARTITION BATHROOM: SCALE 1 : 30

n.							
WINDOW	/ SCHEDULE				DOORS	CHEDULE	
						D1	D2
Code	W1 - PT66	W2 - PT912	W3 - PT186	W4 - PTT1812	Туре	Openback, Framed, Ledged & Battened. KYD1	Hollow Core Standard Hardboard Door
Dims	600×600	900x1200	1800x600	1800x1200	Dims	813x2032	813x2032
Area	0.36v/m	1.08v/m	1.08v/m	2.16v/m	Open	As shown on plan - with sill	As shown on plan - no sill
Glass	4mm	4mm	4mm	4mm	Detail	Swartland Kayo	Swartland Kayo
Colour	White	White	White	White	Frame	Kayo HC3014M 86x53mm	Kayo HC3014M 86x53mm
Glass type	See attached U-S	Solve XA calcullation	ns!		Ironmongery	Hinges as supplied by manufact Locks & Handles according clie	cturer. Manufacturer to take note ant specifications and specialists
Air Leakage	Max 2L/s/m ² for	openable areas and	d max 0.306L/s/m² fc	or fixed areas.	Finish	2 Coates interior Woodoc varnish	2 Coates Enamel white
<u> </u>	1				1		1



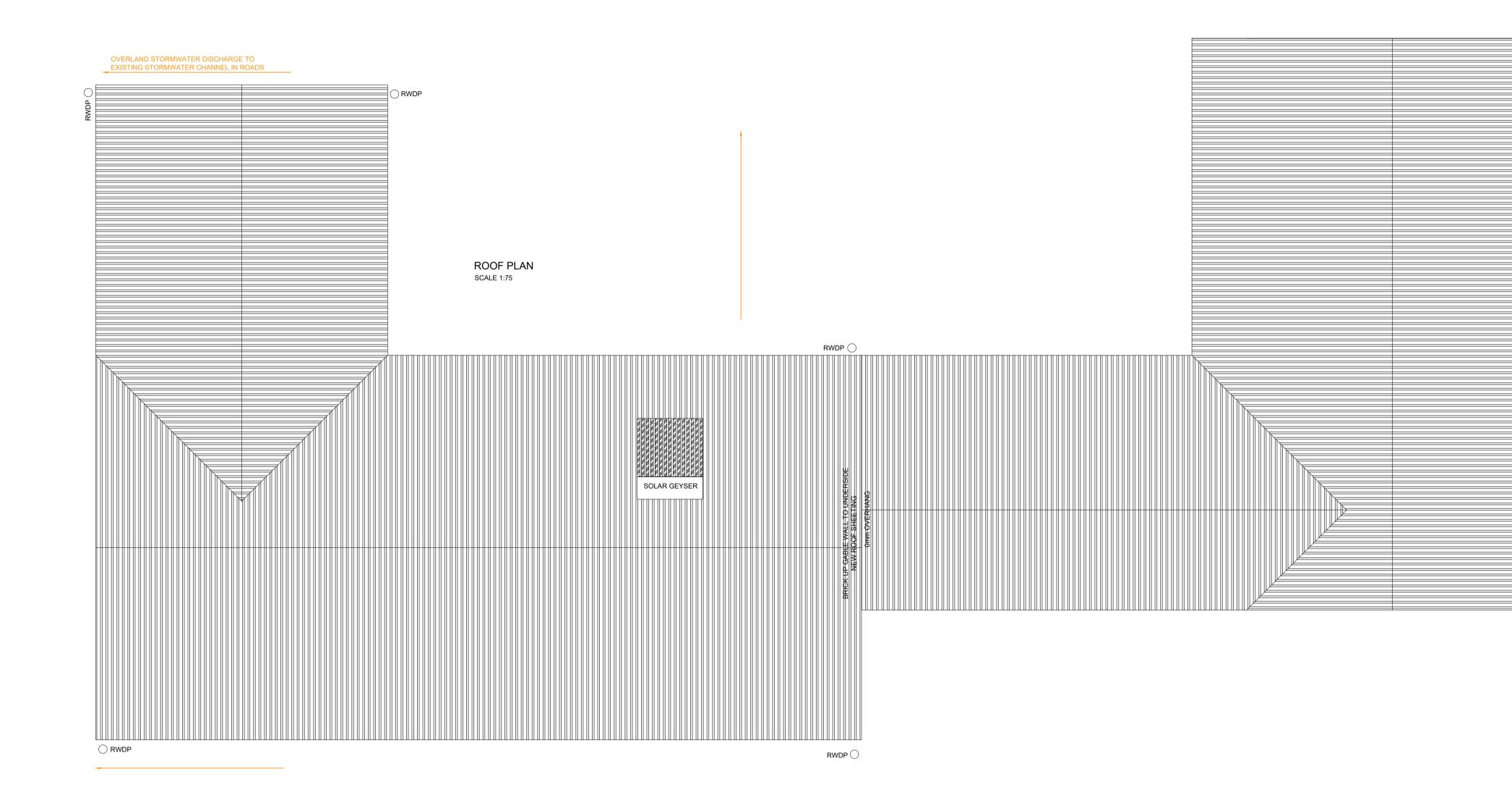


1. Double skin brickwork with 50mm Cavit	ty plaster both sides comply with SAN
Roof Insulation :	
Roof 22° to 45° pitch with horizontal ceiling a	and fibre cement cladding
Outdoor air film (7m/s)	0,03
Bigsix Cladding	0,06
Roof air space (non-reflective)	0,18
Rhinoboard (6.4 mm)	0,04
Indoor air film (still 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	e = 1.36
3.7 - 0.42 - 1.36 = 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 reguin	red.
Pipe Insulation :	
Insulate hotwater pipes : Isover's Glasswool	Geyser Pipe Insulation :
R-value = 1	
Insulate hotwater cillinder : Isover's Glasswo	ool Geyser blanket :
R-value = 1.25	



IDERSIDE	
COVER WITH DPM	
PVC GUTTERS ON	
12x225mm NUTEC FACIA	
SOFITS = 4mm NUTECBOARD FIXED TO	NOTES
38x38mm BATTENS	
NGL	
	DRAWING APPROVAL
FILL CAVITIES WITH CONCRETE TO FFL	
	AMENDMENTS
	🌒 💥 🖉 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
	MASKHANE (GANSBAAI)
	PROPOSED BUILDING SECTION & FENCE DETAILS
	Wec
	CONSULTING ENGINEERS & PROJECT MANAGERS
	UNIT 24, OEWERPARK PO BOX 12861 ROKEWOOD ROAD DIE BOORD
	STELLENBOSCH 7613 7600 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
	SSC WC 1 (2024/2025) FILE NO.
	23-OVM-003/DRW/TENDER SCALE
	AS SHOWN (A1) DATE
	APRIL 2024
	DRAWING NO. 23-0VM-003/ST605/00







NOTES
DRAWING APPROVAL
AMENDMENTS
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
MASKHANE (GANSBAAI) PROPOSED ROOF LAYOUT
Wec
CONSULT
CONSULTING ENGINEERS & PROJECT MANAGERS
UNIT 24, OEWERPARK PO BOX 12861 ROKEWOOD ROAD DIE BOORD STELLENBOSCH 7613 7600 TEL: 021 886 6895
EMAIL: STELLENBOSCH@WEC-CONSULT.CO.Z/ DESIGNED BY VF DRAWN BY MK DESIGNED CHECKED FA DRAWING CHECKED VF
APPROVED BY
FD HARRIS - Pr Tech Eng - 2021300946 DATE
SSC WC 1 (2024/2025) FILE NO.
23-OVM-003/DRW/TENDER SCALE
AS SHOWN (A1) DATE APRIL 2024
DRAWING NO. 23-0VM-003/ST607/00

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

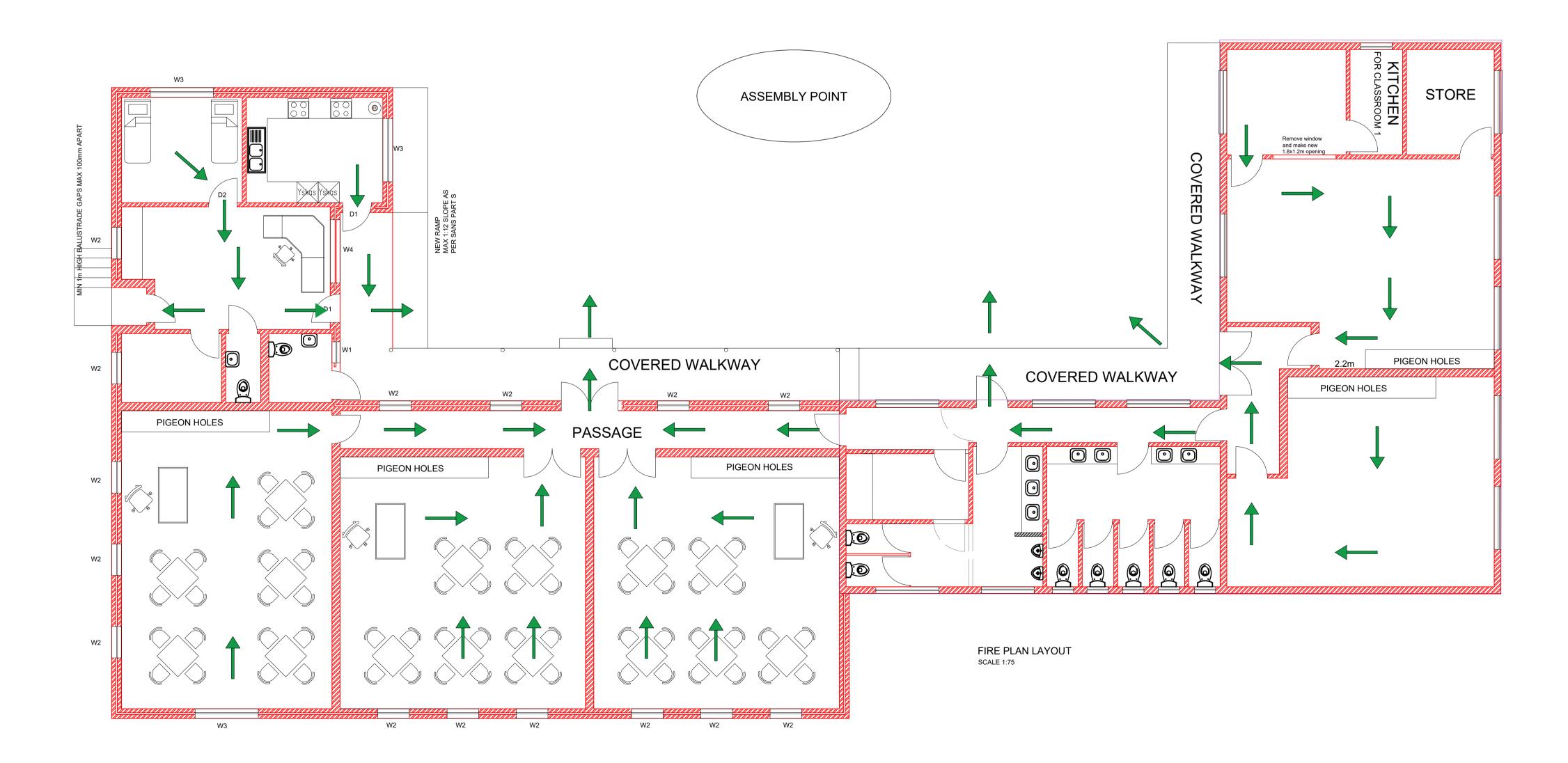
Try and get to a room with a window.

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
- DropRoll

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.

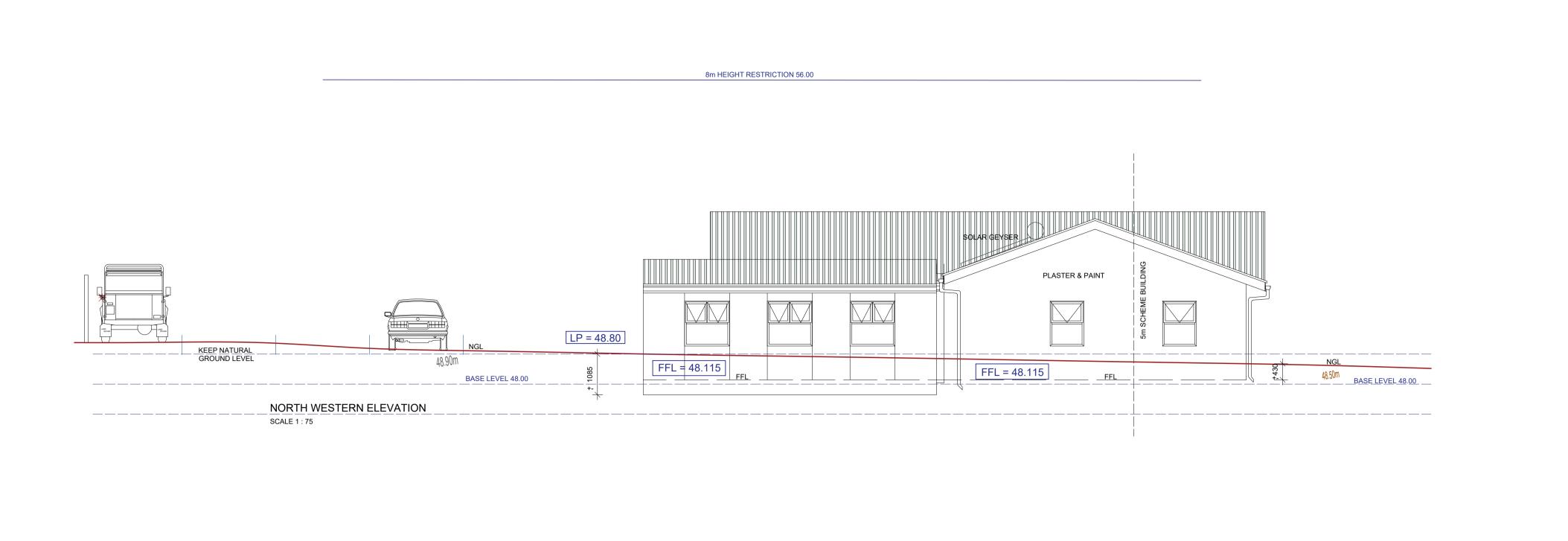
Provide 'Emergency Exit Plan' at the back of each door classrooms.

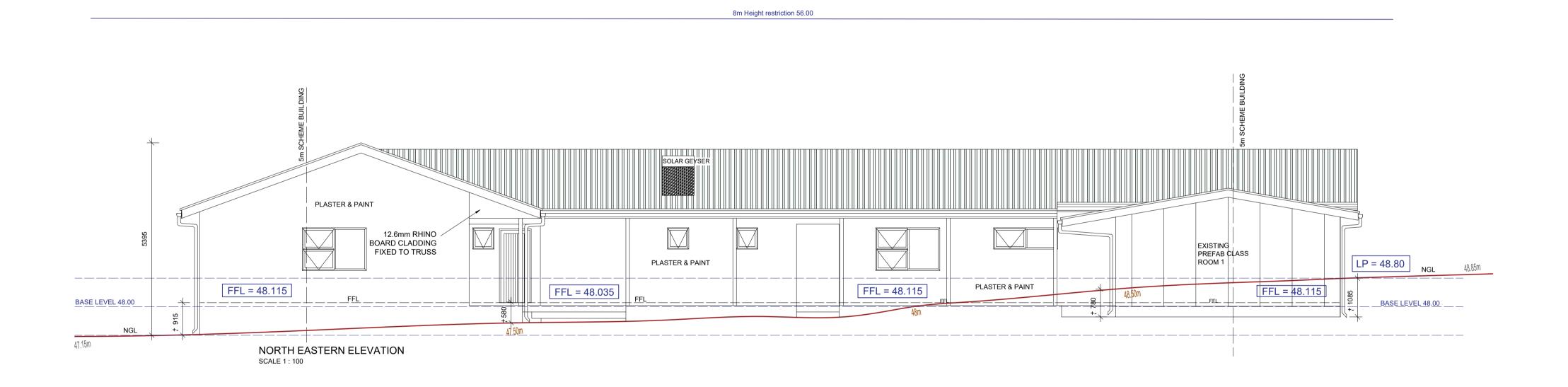
5 x 9Kg Dry Chemical Fire Extinguishers Fixed to wall acc specifications. Fire Requirements: Total - 437.34m² SANS10400 Part T Table 11 1 x 9Kg Dry Chemical Powder Fire extinguishers per 200m² for A3 buildings. Needed 3 Fire Extinguishers. Provide 7 Fire Extinguishers.

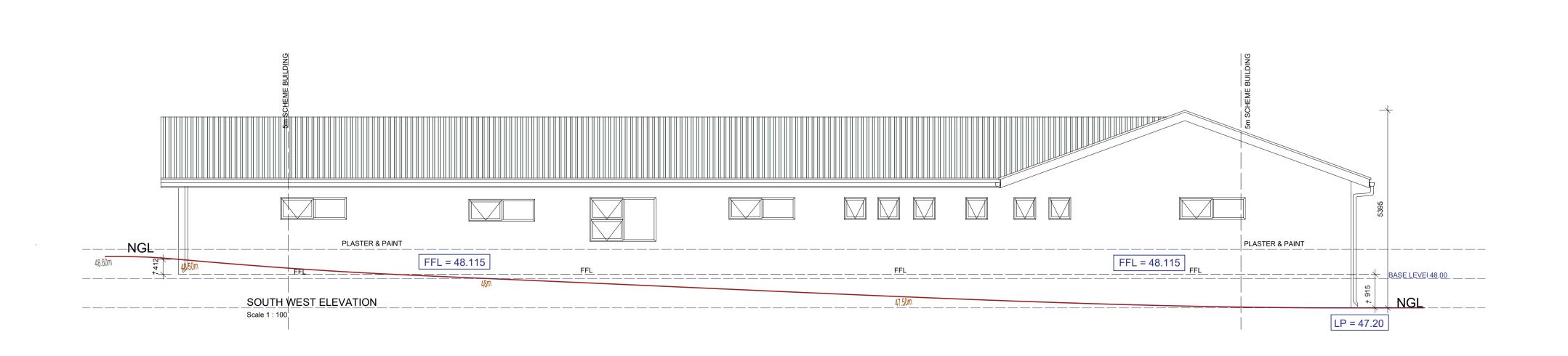
NOTES
DRAWING APPROVAL
AMENDMENTS
REVISION 00 PHASE
agriculture, land reform & rural development Department: Agriculture, Land Reform and Rural Development REPUBLIC OF SOUTH AFRICA
REPUBLIC OF SOUTH AFRICA PROJECT EXTENSION OF EARLY CHILDHOOD
DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND PEARLY BEACH
DRAWING TITLE
MASKHANE (GANSBAAI) PROPOSED FIRE ESCAPE PLAN
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CONSULT
CONSULTING ENGINEERS & PROJECT MANAGERS
STELLENBOSCH 7613 7600 TEL: 021 886 6895 EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA DESIGNED BY VF DESIGNED CHECKED FA
APPROVED BY
FD HARRIS - Pr Tech Eng - 2021300946 DATE
SSC WC 1 (2024/2025) FILE NO. 23-OVM-003/DRW/TENDER
SCALE AS SHOWN (A1) DATE
DATE APRIL 2024 DRAWING NO. 23-OVM-003/ST608/00



lename: 23-0/M-003 - STB12 STB19 Pearly Beach.dwg aved on: 27/03/2024 4:00:56 pm by: Willie







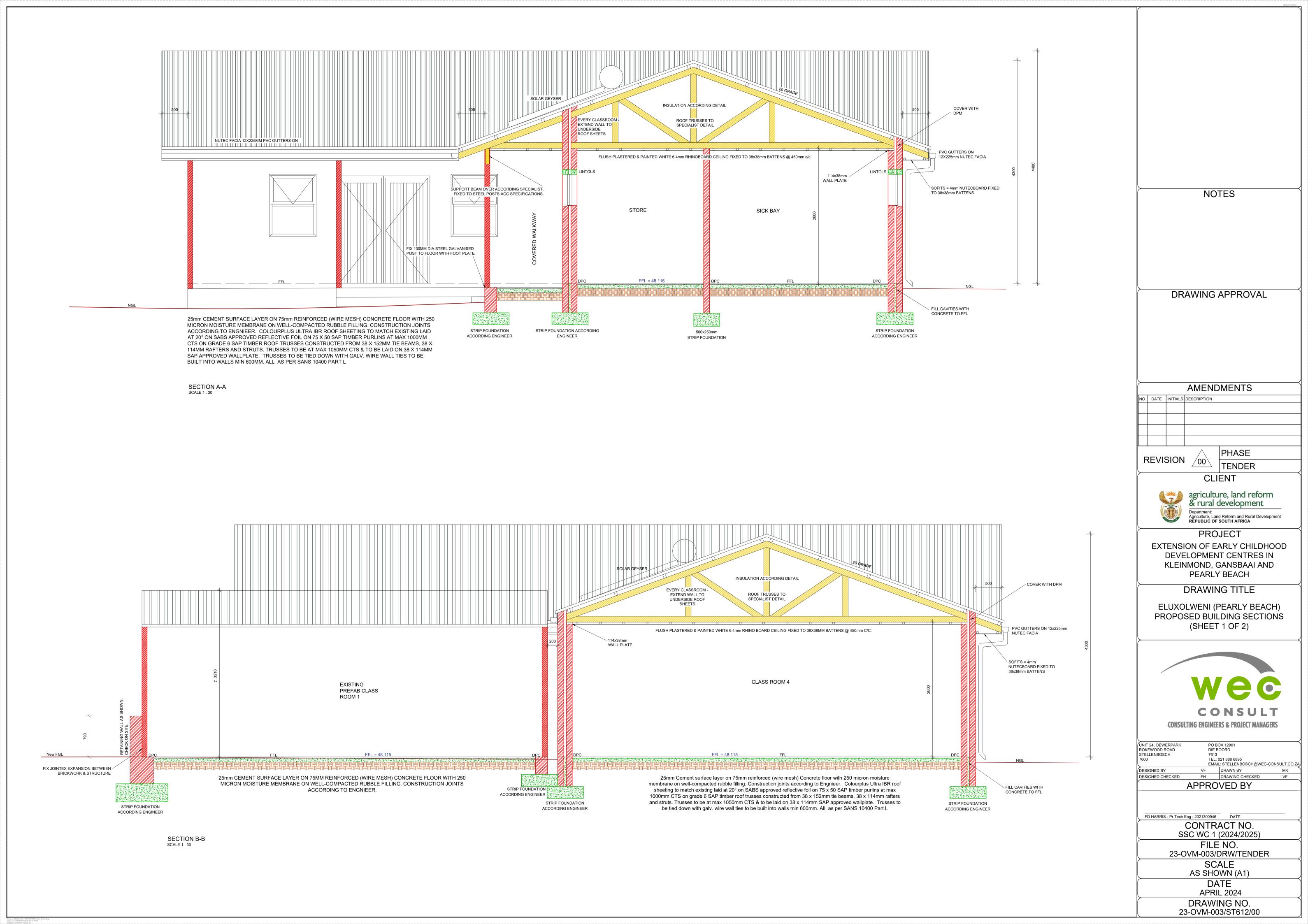
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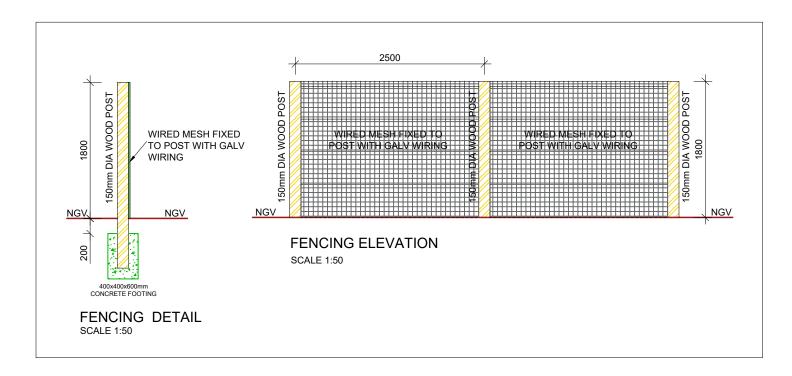
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DRAWING APPROVAL
AMENDMENTS
REVISION 00 TENDER
CLIENT
agriculture, land reform
& rural development Department: Agriculture, Land Reform and Rural Development
Agriculture, Land Reform and Rural Development REPUBLIC OF SOUTH AFRICA
PROJECT EXTENSION OF EARLY CHILDHOOD
DEVELOPMENT CENTRES IN
KLEINMOND, GANSBAAI AND PEARLY BEACH
DRAWING TITLE
ELUXOLWENI (PEARLY BEACH) PROPOSED BUILDING ELEVATIONS
(SHEET 1 OF 2)
Wec
CONSULTING ENGINEERS & PROJECT MANAGERS
UNIT 24, OEWERPARK PO BOX 12861 ROKEWOOD ROAD DIE BOORD STELLENBOSCH 7613 7600 TEL 001 996 6905
7600 TEL: 021 886 6895 EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA DESIGNED BY VF DESIGNED CHECKED FH DRAWN BY MK
APPROVED BY
FD HARRIS - Pr Tech Eng - 2021300946 DATE
SSC WC 1 (2024/2025)
FILE NO. 23-OVM-003/DRW/TENDER
SCALE AS SHOWN (A1)
DATE APRIL 2024
DRAWING NO. 23-0VM-003/ST610/00

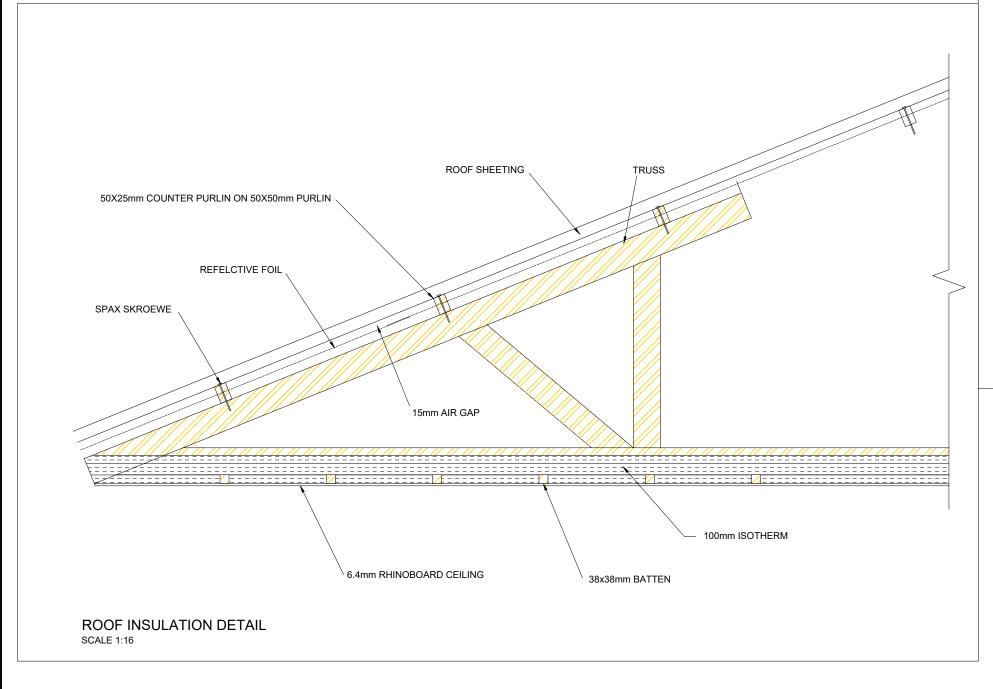


SOUTH EAST ELEVATION SCALE 1 : 100

NOTES
DRAWING APPROVAL
AMENDMENTS
NO. DATE INITIALS DESCRIPTION
REVISION 00 TENDER
CLIENT
agriculture, land reform
& rural development
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)
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CONSULTING ENGINEERS & PROJECT MANAGERS
UNIT 24, OEWERPARK PO BOX 12861 ROKEWOOD ROAD DIE BOORD STELLENBOSCH 7613
STELLENBOSCH 7613 7600 TEL: 021 886 6895 EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA DESIGNED BY VF DRAWN BY MK
DESIGNED CHECKED FH DRAWING CHECKED VF
FD HARRIS - Pr Tech Eng - 2021200046
FD HARRIS - Pr Tech Eng - 2021300946 DATE
SSC WC 1 (2024/2025) FILE NO.
23-OVM-003/DRW/TENDER SCALE
AS SHOWN (A1)
DATE APRIL 2024
DRAWING NO. 23-0VM-003/ST611/00



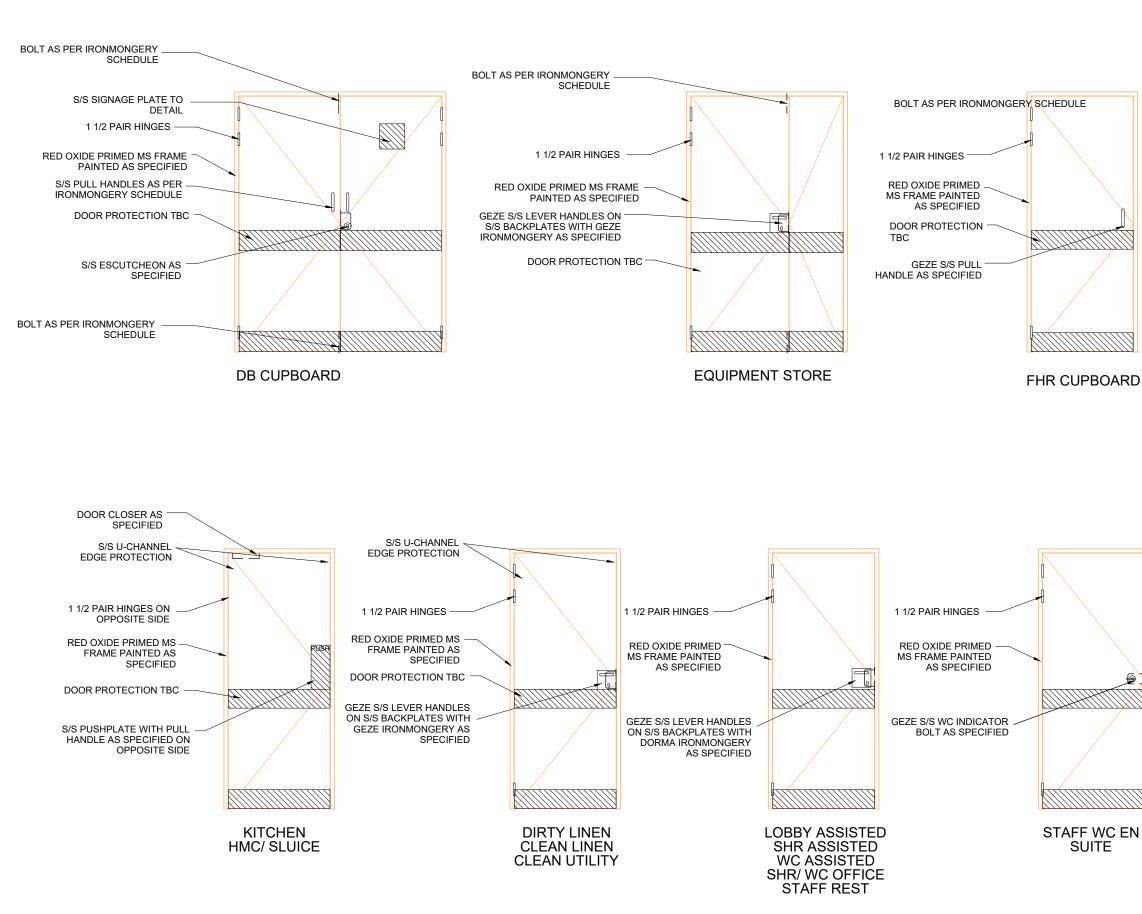




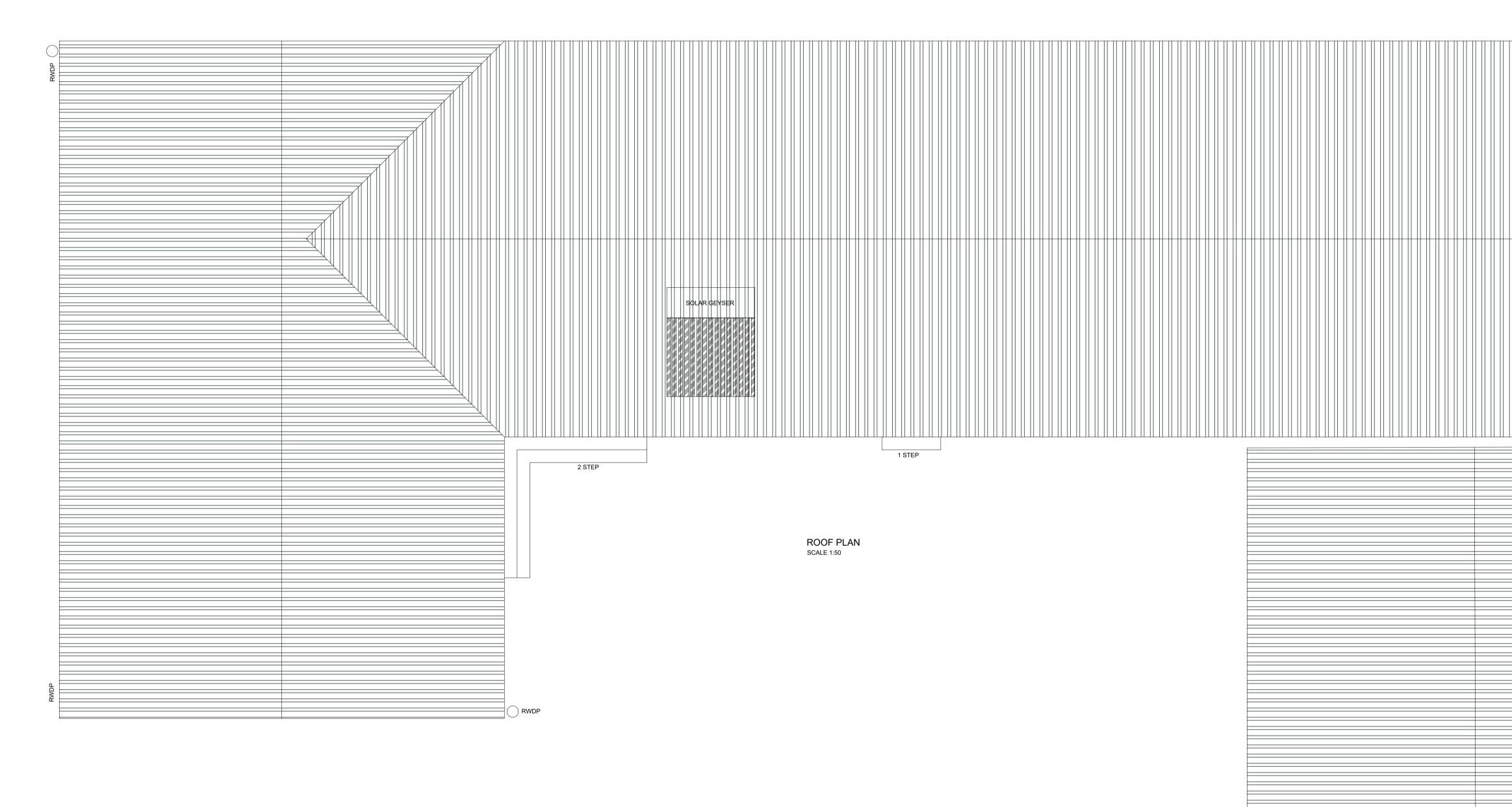
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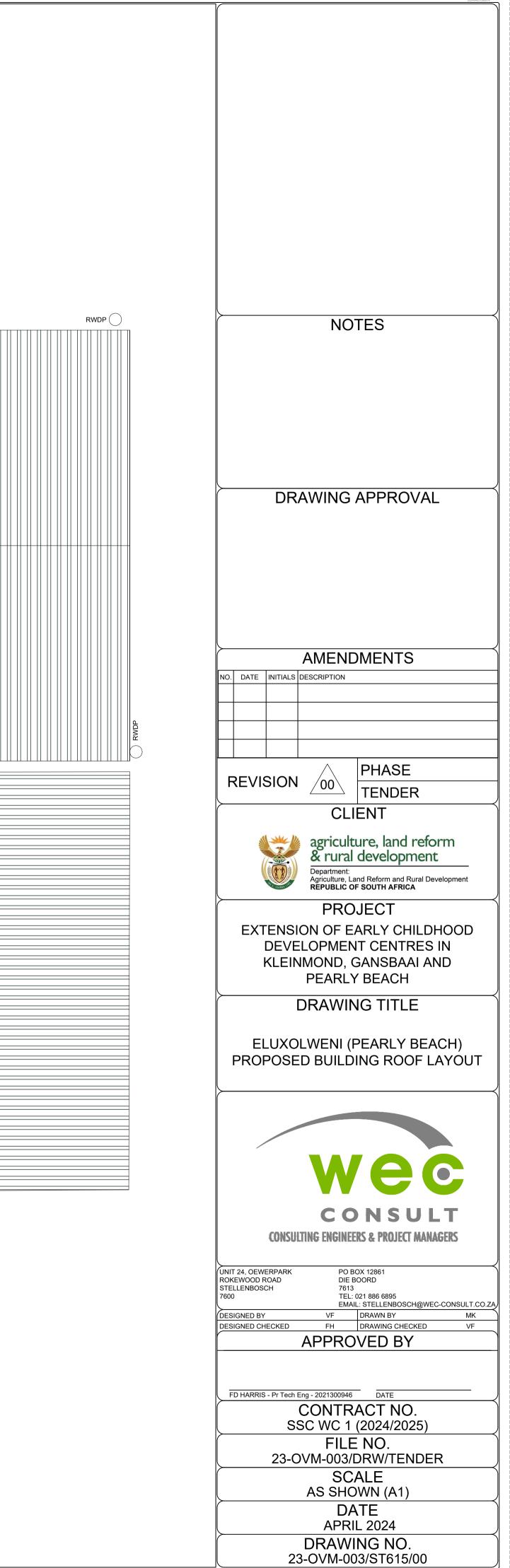
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	NOTES
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	REVIEW FINAL
WALL R - VALUE CALCULATION : BRICK	NO. DATE BY DESCRIPTION
1. DOUBLE SKIN BRICKWORK WITH 50MM CAVITY PLASTER	
BOTH SIDES COMPLY WITH SANS10400 XA.	
ROOF INSULATION :	
ROOF 22° 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	agriculture, land reform & rural development
Direction of flow of heat for zone 4 : Up	Department: Agriculture, Land Reform and Rural Development REPUBLIC OF SOUTH AFRICA
Min R-value needed : 3.7	PROJECT
Roof as above R-value = 0.36	EXTENSION OF EARLY CHILDHOOD
Radenshield reflective foil laminate : R-value = 1.36	DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND
3.7 - 0.36 - 1.36 = 1.98 (insulation needed)	PEARLY BEACH
R value of insulation = 1.98 x 0.046W/m.K (SANS204 Table 10)	
R = 0.091	ELUXOLWENI (PEARLY BEACH) PROPOSED BUILDING SECTIONS
Therefore 100mm Isotherm insulation reguired.	(SHEET 2 OF 2)
	├────────────────────────────────────
PIPE INSULATION :	
Insulate hotwater pipes : Isover's Glasswool Geyser Pipe Insulation :	
R-value = 1	več
Insulate hotwater cillinder : Isover's Glasswool Geyser blanket :	
R-value = 1.25	
DOOR SEALING :	CONSULTING ENGINEERS & PROJECT MANAGERS
	UNIT 24, OEWERPARK ROKEWOOD ROAD
External doors : Provide rubber seals around door frame to prevent air leakage.	STELLENBOSCH 7600
	PO BOX 12861
	DIE BOORD 7613
	TEL: 021 886 6895 EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA
	DESIGNED BY VF DRAWN BY MK
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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.

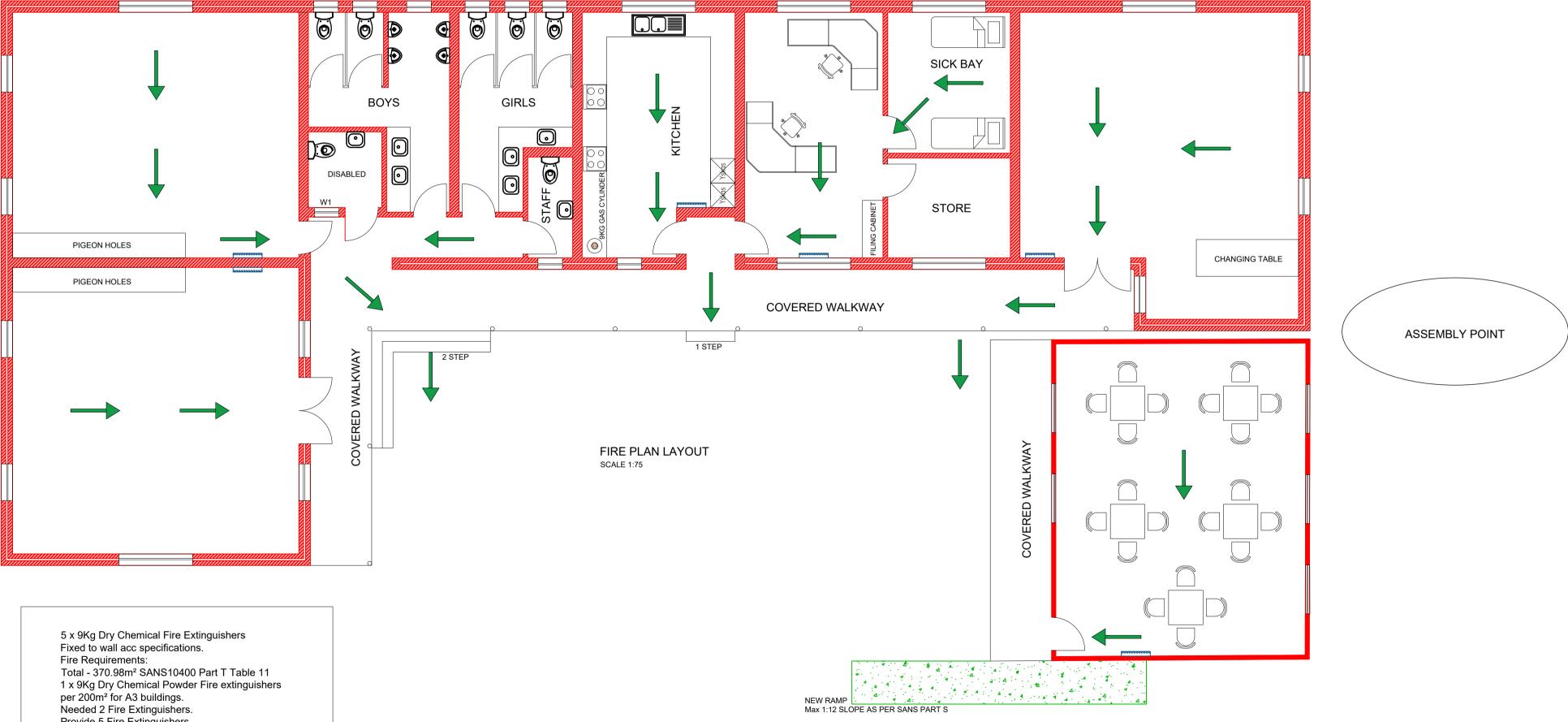
If you're on the first floor, open a window and lower yourself to arm's length, then drop to the floor. Never jump from a window and make sure to first throw down some soft materials onto the ground outside. If you're too high up to attempt this, then use the window to call for help and also call Fire 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.



Needed 2 Fire Extinguishers. Provide 5 Fire Extinguishers.

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.

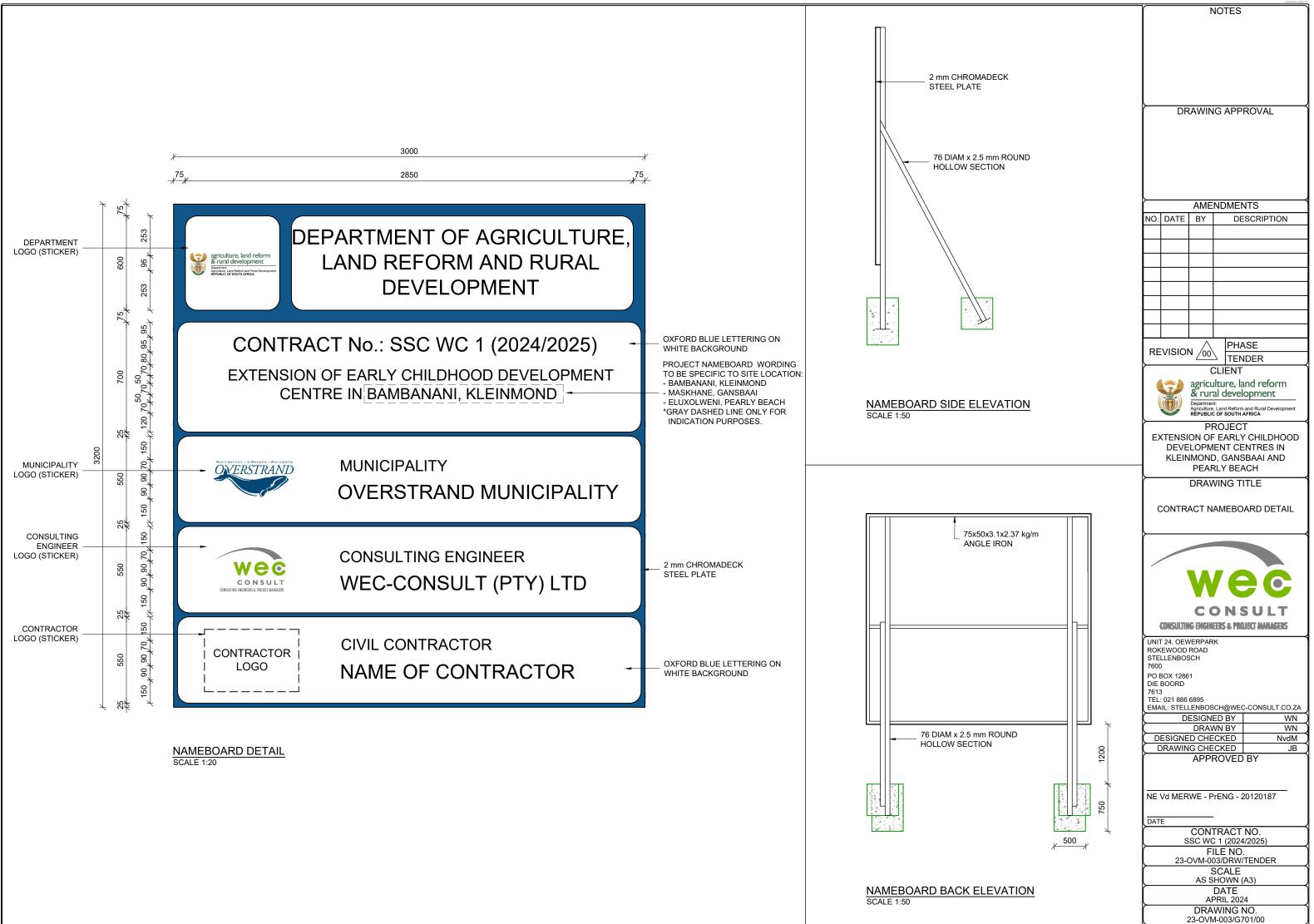
Provide Emergency lighting = Eurolux FS83: 4 hours duration on battery or similar in all classrooms & passages.

Smoke alarm - provides smoke alarm in each classroom, common area and corridors according to EN14604.

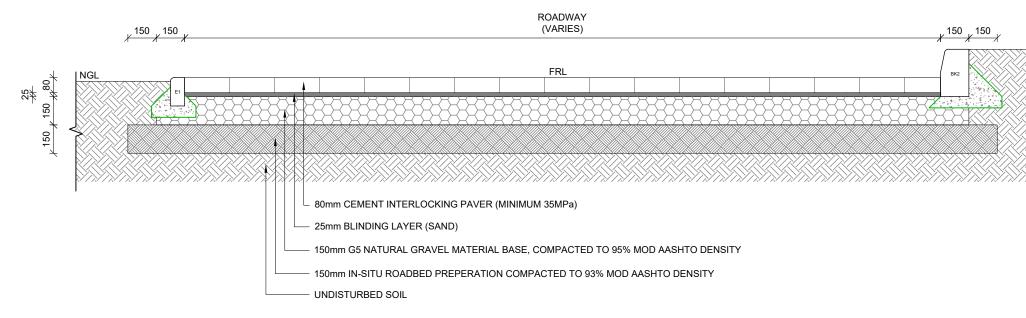
Classroom Exit doors provided with single-turn lock type.

Provide 'Emergency Exit Plan' at the back of each door classrooms.

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agriculture, land reform & rural development
Department: Agriculture, Land Reform and Rural Development REPUBLIC OF SOUTH AFRICA
PROJECT
DEVELOPMENT CENTRES IN KLEINMOND, GANSBAAI AND
PEARLY BEACH
ELUXOLWENI (PEARLY BEACH) PROPOSED FIRE PLAN LAYOUT
CONSULT
CONSULTING ENGINEERS & PROJECT MANAGERS
UNIT 24, OEWERPARK PO BOX 12861 ROKEWOOD ROAD DIE BOORD STELLENBOSCH 7613
7600 TEL: 021 886 6895 EMAIL: STELLENBOSCH@WEC-CONSULT.CO.ZA DESIGNED BY VF DRAWN BY MK
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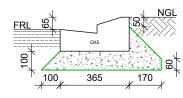


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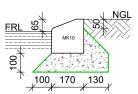




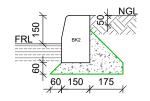
EDGING - E1



COMBINATION KERB - CK5



MOUNTABLE KERB - MK10

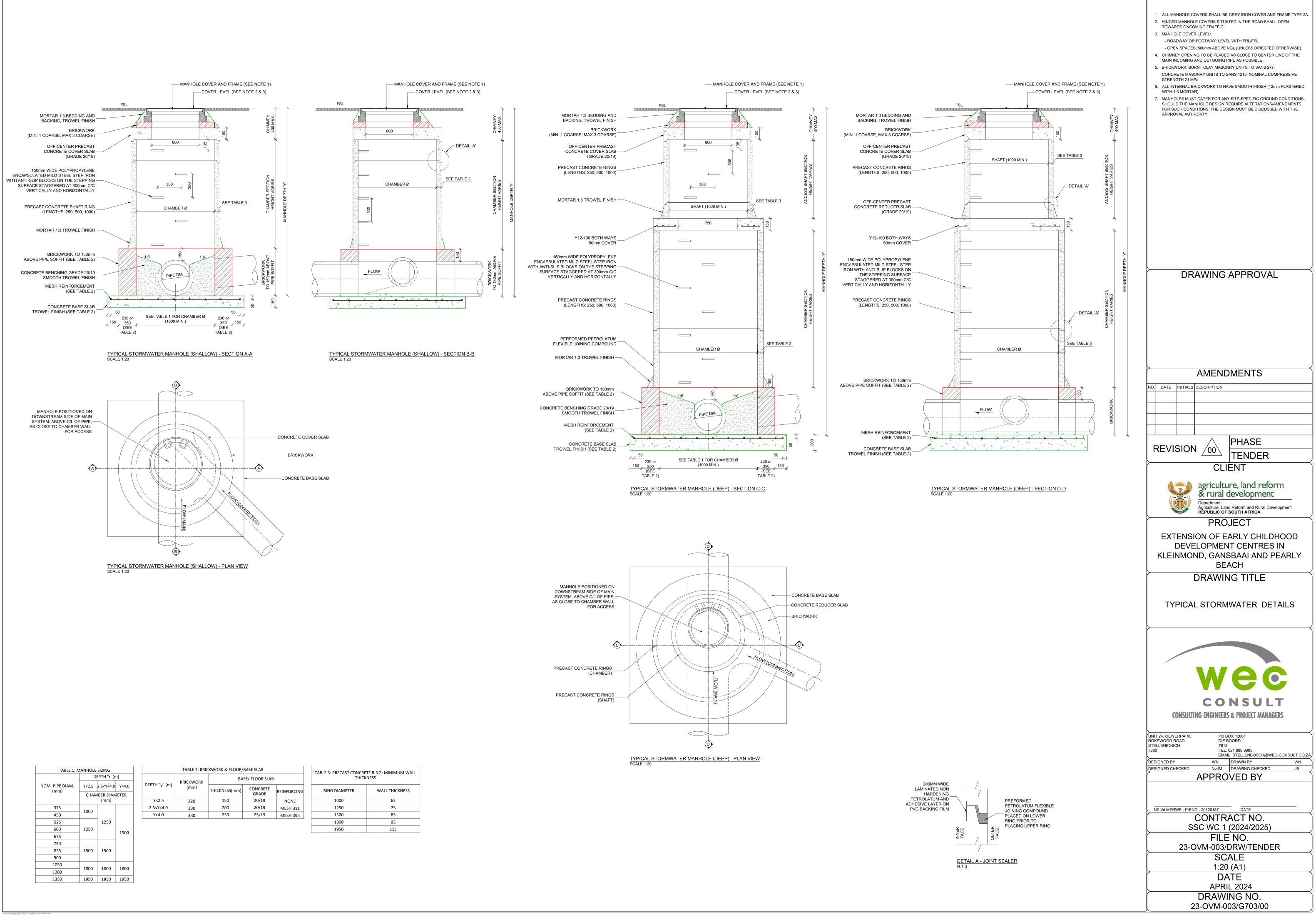


BARRIER KERB - BK2

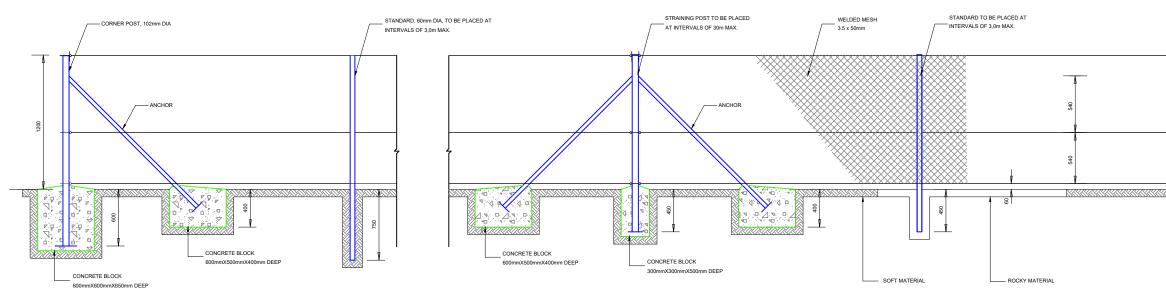
TYPICAL KERB DETAIL SCALE 1:20

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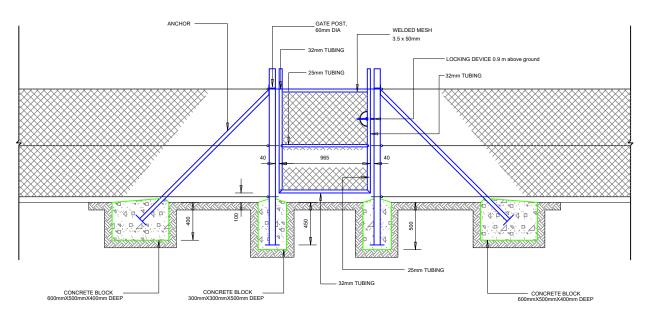




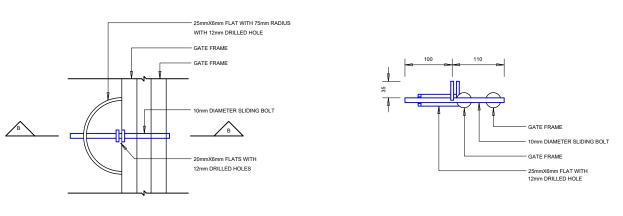
NOTES



1,20m HIGH SECURITY FENCE SCALE 1:14



SINGLE GATE FOR 1,20m HIGH SECURITY FENCE



LOCKING DEVICE FOR SINGLE GATE

SECTION BB

	STANDARD TO BE PLACED AT	
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