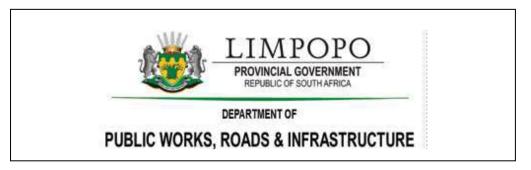
CONTRACT No. LDPWRI-B/20292



### **BID NUMBER: LDPWRI-B/20292**

### APPOINTMENT OF A CONTRACTOR FOR DEMOLITION OF REFURBISHMENT OF 12 CLASSROOMS AND 33 SEATER ENVIROLOO TOILETS, CONSTRUCTION OF 5 CLASSROOMS, MEDIUM ADMINISTRATION BLOCK, NUTRITION CENTRE, GRADE R CLASSROOM BLOCK, GUARD HOUSE, STEEL PALISADE FENCE AND EXTERNAL WORKS AT THABANE PRIMARY SCHOOL IN MABOTSHA VILLAGE, GREATER SEKHUKHUNE DISTRICT

for

### LIMPOPO DEPARTMENT OF EDUCATION (LDOE),

### LIMPOPO PROVINCE

### FRAMEWORK CATEGORY A (7GB AND ABOVE)

Issued by:

Limpopo Department of Public Works, Roads and Infrastructure Works Towers Building 43 Church Street Polokwane 0700

### **Contact Person: General Queries**

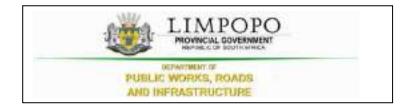
Name: Mr NJ Motsopye,Tel No.: 015 284 7126Email: motsopyen@dpw.limpopo.gov.za

### **Technical: Technical Queries**

Name	: Mr K Modjadji
Tel No.	: 083 673 5436

CONTRACT No. LDPWRI-B/20292 Email : <u>ModjadjiM@dpw.limpopo.gov.za</u>

Name of the Bidder :....



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### THE TENDER

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- C1.1 Form of offer and acceptance
- C1.2 Contract data

Joint Venture Agreement (If Applicable)

#### Part C2: Pricing data

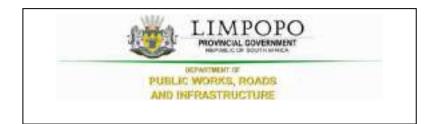
- C2.1 Part 1 Pricing Instructions
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- C3.1 C3.2 Special Notes to Bidders
- OHS Specifications

Part C4 Drawings

#### CONTRACT No. LDPWRI-B/20292



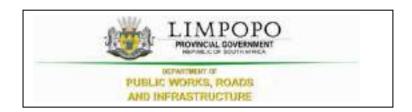
## PART T1: TENDERING PROCEDURE

### **T1.1 Tender Notice and Invitation to Tender**

The Limpopo Department of Public Works, Roads and Infrastructure invites tenderers from contractors appointed on the framework agreement on category A for APPOINTMENT OF A CONTRACTOR FOR DEMOLITION OF REFURBISHMENT OF 12 CLASSROOMS AND 33 SEATER ENVIROLOO TOILETS, CONSTRUCTION OF 5 CLASSROOMS, MEDIUM ADMINISTRATION BLOCK, NUTRITION CENTRE, GRADE R CLASSROOM BLOCK, GUARD HOUSE, STEEL PALISADE FENCE AND EXTERNAL WORKS AT THABANE PRIMARY SCHOOL IN MABOTSHA VILLAGE, GREATER SEKHUKHUNE DISTRICT **FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE)** for a period of 24 months. It is estimated that tenderers must have a CIDB contractor grading designation of **7 GB** or higher.

The conditions of the CIDB Standard for for Indirect Targeting for Enterprise Development through Construction Works Contracts **Gazette Notice No. 36190 of 25 February 2013** will be applicable on this project

Project Name Tender Number	REFURBISHMENT OF 12 ( CONSTRUCTION OF 5 CL MEDIUM ADMINISTRATIO BLOCK, GUARD HOUSE, S PALISADE FENCE AND EX MABOTSHA VILLAGE, GR	N BLOCK, NUTRITION CENTRE, GRADE R CLASSROOM STEEL (TERNAL WORKS AT THABANE PRIMARY SCHOOL IN
Tender documents availability	Limpopo Department c	of Public Works, Roads and Infrastructure website
Address for submission of tenders	DEPARTMENT OF PL	JBLIC WORKS, ROADS & INFRASTRUCTURE.
Clearing data of the	Physical address: Corr As per Tender invite	ner River and Blaauwberg Streets, Ladanna, 0699.
Closing date of the tender	AS per Tender Invite	
Closing time of the tender	As per Tender invite	
Compulsory briefing	Yes 🗆 🛛 N	lo ⊠
<b>meeting (</b> <i>Tenderers must</i> sign the attendance register in the name of the tendering entity. Addenda (if any) will	Meeting venue	As per Tender invite
be issued only to those	Date	As per Tender invite
tendering entities appearing on the attendance register)	Time:	As per Tender invite
Evaluation criteria		th mandatory or compulsory requirements ent on current projects
Mandatory or Compulsory Requirements (failure to submit or comply with these requirements will lead to automatic disqualification)	Construction Industry I higher than a contract the sum tendered, or a (1B) or 25(7A) of the eligible to have their te Completed and signed Priced Bills of Quantitie Record of addenda to Proposed amendments	Form of Offer es tender documents s and qualifications us of Administration compliance e (Valid CIDB)



### T1.2 Tender Data

Clause number	Tender Data
	The conditions of tender are the Standard Conditions of Tender as contained in Annex C of Board Notice 423 of 2019 in Government Gazette No. 42622 of 08 August 2019, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of tenderers as an Annexure to this Tender Data.
	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 contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts Gazette Notice <i>No. 36190 of 25 February 2013.</i> In this case, contractor shall provide a <i>minimum Contract Participation Goal (CPG) of 5%</i> of the total project value and develop targeted enterprises stated under C3 of this document.
	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. Add the following to clauses in Standard Conditions of Tender:
C.1.1	The Employer is the Department of Public Works, Roads and Infrastructure

C.1.2	The Tender Part T1: Tendering procedures T1.1 Tender notice and invitation to tender T1.2 Tender data
	Part T2: Returnable documents T2.1 List of returnable documents T2.2 Returnable schedules
	The Contract Part C1: Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Joint Venture Agreement (If Applicable)
	The Contract Part C2: Pricing data C2.1 Pricing instructions C2.2 Bills of Quantities
	Part 3: Scope of work C3.1 Special Notes to Bidders C3.2 OHS Specifications
	Part 4: Site information C4 Drawings
C.1.4	The employer's representative is:
	Name : Mr K Modjadji Tel No. : 083 673 5436 Email : <u>ModjadjiM@dpw.limpopo.gov.za</u>
	However, all communications related to this bid should be directed to the persons indicated under Enquires on this tender document.
	Attention is also drawn to the fact that verbal information, given by the Employer's agent during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the Employer. Only information issued formally by the Employer in writing to Tenderers will be regarded as amending the Tender Documents.
C.1.5	The employer reserve to cancel the tender prior to the award of the tender.
C1.6.2	A competitive negotiation procedure will not be followed.
C1.6.3	A two-stage system will not be followed.
C.2.1	Eligibility in respect of CIDB grading
	Only tenderers who are appointed on framework agreement category A and registered with the Construction Industry Development Board (CIDB) with designation of 7 GB or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, are eligible to have their tenders evaluated.
C2.2	Cost of tendering
	The tenderer accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

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C.2.7	Compulsory site briefing
	A compulsory briefing meeting will be held as per Tender invite
	Failure to attend the site briefing will result in the bidders not being considered for the project
	Tenderers must sign the attendance list in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance list.
C.2.11	Alterations to the documents
	Bidders are required to 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 offer
	No alternative tender offer is permitted in this tender.
C.2.13.2	<b>Replace sub-clause C.2.13.2 with the following;</b> Return all returnable documents to the employer after completing them in by writing in <b>non-</b> <b>erasable black ink</b> ( <i>Black pen</i> )
C.2.13.3	Parts of each tender offer communicated on paper shall be submitted as an original
C.2.13.4	The tender shall be signed by a person duly authorized to do so.
C.2.13.5	The employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are:
	Location of tender box: DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699 Identification details: Sealed Tender with Tender reference number, Title of Tender and the closing date and time of the tender.
C.2.15.1	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender. Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
C.2.16.1	The tender offer validity period is <b>120 days.</b>
C.2.16.2	The tender accepts 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.2.16.1 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).
C.3.1	<ul> <li>The tenderer is required to indicate how they claim points for each preference point system and attached relevant supporting documents. The specific goals for claiming of preference points include the following: <ul> <li>Persons who had no franchise in national elections prior to 1983 and 1993</li> <li>Women</li> <li>Disabled persons</li> <li>Promotion of SMMEs</li> <li>Enterprises located in Limpopo Province</li> <li>Promotion of youth</li> <li>South African owned enterprises</li> </ul> </li> </ul>

	CIDB Grading Certificate
	Tenders are required to provide proof of registration with the CIDB register of contractors indicating the category of registration, grading as well as the CRS number of the tenderer.
	Letter of Good Standing
	Tenderer's are required to submit, bound with the tender submission, a letter of good standing from the compensation commissioner indicating that the bidder is in good standing.
C3.2	Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.
C.3.4.1	Tenders will <b>not</b> be opened immediately after the closing time for tenders.
C.3.11	The tenderers will be evaluated in four stages(i)Stage 1: Compliance with mandatory requirements as stated in Part T1.1(ii)Stage 2: Risk assessment on current projects(iii)Stage 3: Price(iv)Stage 4: Preference
	The technical capacity (functionality) of the contractors will not be evaluated any further during evaluation of the RFQ. However, the contractors will be required to declare the status of their key staff and any administrative compliance. In cases where there are changes in the key staff, the contractor should provide CVs and qualifications of the new staff to LDPWR&I. The new staff should have similar skills, qualifications and experience as the staff submitted during tender. Similarly, the contractors will be expected to provide an update on any changes in their administrative compliances – and should submit the required SBD document/forms in such cases.
	The award will only be issued to contractors with valid Tax Clearance certificates, active CIDE grading and the contractor who meets all the legislative requirement – this shall be verified by SCM in line with the departmental SCM Policy.
	The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade. <sup>1</sup>
	a) Stage 1: Administrative Compliance: The Compliance or compulsory documents and returnables are detailed in Section T.2.1 of this tender document. Failure to submit complete or comply with these requirements will lead to automatic disqualification.
	b) Stage 2: Risk assessment on current projects
	The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade. Should it exceed, the bidder wi therefore not be appointed.

### Stage 3 and 4:

The procedure for final evaluation of responsive tenders is Method 2 (Financial offer and preference). The total number of tender evaluation points ( $T_{EV}$ ) shall be determined in accordance with the following formula.

$$T_{EV} = N_{FO} + N_P$$

a)  $N_{FO}$  is the number of tender evaluation points awarded for the financial offer made. The score for financial offer is calculated using the following formula:

$$P = A * \% 1 - ("!"")$$

Where:

A is 80 since the estimated financial value of works inclusive of VAT is equals or is less than R 50,000,000.00.

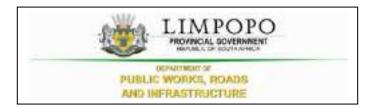
P is the points awarded to the bid under consideration

 $P_m$  is the lowest Comparative bid price

Pois the comparative price under consideration

b) *N*<sub>P</sub> is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

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## **PART T2: RETURNABLE DOCUMENTS**



### **T2.1 : LIST OF RETURNABLE DOCUMENTS**

The following documents will form part of the documents submitted to the Contractors as part of the Request for Proposals:

### A -- MANDATORY REQUIREMENTS

2.1 Fully completed Form of Offer (Fully Completed and Signed Form of Offer)

2.2 Bills of Quantities (P&Gs are allowed to have a lump sum total in the P&Gs Summary Page and the rest of the Bill of Quantities trades must be completed in full (Rates and Amounts))

2.3 Record of Addenda to tender documents (Records of addendum must be captured in full, whether applicable of not)

2.5 Declaration on the status of Administration compliance (Fully completed, circled and signed)

2.6 CIDB grading certificate (Valid CIDB)

2.7 Declaration of current projects (Fully completed, circled and signed)

### **B – NON- MANDATORY REQUIREMENTS**

2.8 SBD 1 (Fully Completed and Signed)

2.9 SBD 4 (Fully Completed and Signed). False declaration by the bidder will render the proposal non-responsive and will not be considered

2.9 SBD 6.1 (Failure on the part of a bidder to complete and submit proof or documentation required in terms of this tender to claim points for specific goals with tender, will be interpreted to mean that preference points for specific goals are not claimed)

SPECIFIC GOALS	REQUIRED ATTACHMENT
Persons who had no franchise in national elections prior to 1983 and 1993	Attach certified copy of South African ID as proof
Women	Attach Director's certified copy of South African ID as proof + company registration documents
Disabled Persons	Bidder with disability must attach medical certificate completed by registered medical practitioner which is registered with Health Professions Council of South Africa (HPCSA) as proof
Promotion of SMMEs	Attach latest financial statement as proof
Enterprises located in Limpopo Province	<ul> <li>N.B: The physical address given in the SBD 1 will be used and it should be consistent or the same as the preferred address in the Central Supplier Database Report</li> <li>a) A Title deed, Letter from a Traditional Authority or Municipal Statement which must not be older than three (3) months; or</li> <li>b) A Formal Lease Agreement together with Lessor's Municipal Account or Letter from Traditional Authority</li> </ul>
Promotion of Youth	Attach Director's certified copy of South African ID as proof
South African owned enterprises	Attach Director's certified copy of South African ID as proof + company registration documents

CONTRACT No. LDPWRI-B/20292

2.10 Attach full CSD Report (For verification of the required attachments above)

2.11 Proposed amendments and qualifications (Proposed amendments and qualifications must be captured in full, whether applicable of not)

Failure by the service provider to submit or complete item 2.1, 2.2, 2.3, 2.5, 2.6, and 2.7 will render their proposal not responsive and will not be considered.

The bidder should also not appear on the National Treasury's list of black listed entities.

### **C -- SPECIAL NOTES TO BIDDERS AND DEPARTMENTAL RIGHTS**

The following special conditions are for compliance and attention to bidders:

I.1 LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.

1.2 LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.

I.3 LDPWR&I reserves the right to appoint the bidder that proves to be fully capable and qualifies to handle and execute the job.

I.4 The proposals submitted must be in line with the detailed specification.

I.5 LDPWR&I reserve the right to cancel or withdraw this bid if:

- i. Due to changed circumstances, there is no longer a need for these services; or
- ii. Funds are no longer available to cover the total envisaged expenditure; or
- iii. No acceptable bods are received; or
- iv. There is a material irregularity in the Bid process.

1.6 In the case of sub-contracting or joint venture agreement, LDPWR&I will enter into a single contract with the principal bidder.

1.7 Bidders who are not registered on Central Supplier Database (CSD) must register before submission of bids.

1.8 Any completion of the bid document in pencil or erasable ink will not be acceptable and will automatically disqualify the submitted bid.

1.9 Successful bidder will be required to sign and enter into a formal contract upon the award.

1.10 Notwithstanding shortcomings and/or inconsistencies, if any, in this specification, which is only a minimum specification, a bidder shall make provision for a complete solution that will deliver the required service efficiently and cost-effectively.

1.11 Bid documents must be submitted physically to the closing address as reflected on the Request for Quotation/Tender.

1.12 Quotations/Tenders received after the closing date and time will not be accepted for consideration.

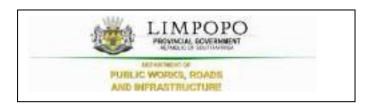
1.13 This request for bid document contains confidential information about LDPWR&I, which has been provided to supply potential bidders with the data necessary to provide a holistic response.

1.14 No part of the contents may be used, copied, disclosed or conveyed in whole or in part to any party, in any manner whatsoever without the prior written permission of LDPWR&I.

1.15 Any reproduction or transmission of information contained in this document except for the sole purpose of responding to this bid is strictly prohibited.

1.16 References to LDPWR&I must not be made in any literature, promotional material, and brochures or sales presentations without the express written consent of LDPWR&I

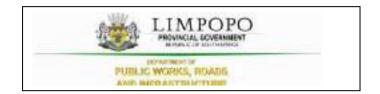
#### CONTRACT No. LDPWRI-B/20292



### T 2.2: RETURNABLE SCHEDULE

	Document Name	Returnable document
1.	Fully completed Form of Offer	□Yes □No
2.	Priced Bills of Quantities	□Yes □No
3.	Record of Addenda to tender documents	□Yes □No
4.	Proposed amendments and qualifications	□Yes □No
5.	Proof of specific goals for award of the preference points	□Yes □No
6.	SBD 1. Invitation to Tender	□Yes □No
7.	SBD 6.1: Reference Points claim form in terms of the Preferential Procurement Regulations 2022 or amended	□Yes □No
8.	Declaration on the status of Administration compliance.	□Yes □No
9.	Proof of CIDB class grading: 7GB or higher.	□Yes □No
10.	Full CSD Report	□Yes □No
11.	Declaration of current projects	□Yes □No

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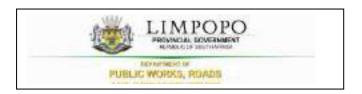
### Declaration on the status of administrative compliance

Please indicate, by circling either **Yes or No**, whether the administrative information submitted with the original framework tender documents have changed or not. If yes, kindly provide the particulars below with any supporting documents.

Signed	Date	
Name	 Position	
Enterprise		

#### CONTRACT No. LDPWRI-B/20292

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### **Record of Addenda to tender documents**

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

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### CONTRACT No. LDPWRI-B/20292

Attach additional pages if more space is required.

Signed	 Date	
Name	 Position	
Tenderer	 	

CONTRACT No. LDPWRI-B/20292

.

Tenderer



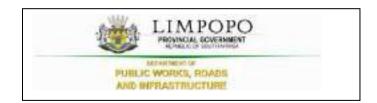
### Proposed amendments and qualifications

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

The Tenderer's attention is drawn to clause 5.8 of SANS 10845-3 regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal
Signe	d	Date
Name	-	Position

CONTRACT No. LDPWRI-B/20292



### SBD 1 PART A: INVITATION TO BID

You are hereby invited to bid for requirements of the limpopo department of public works, roads and infrastructure								
BID NUMBER:	LDPWRI-B/20292		CLOSING D		As per Tender Advert	CLOSI	NG TIME:	As per Tender Advert
DESCRIPTION	REFURBISHMEN							
	DOCUMENTS MAY E				•	RESS)		
	T OF PUBLIC WC							
	EDURE ENQUIRIES N	ŭ		iuanna, oos				
CONTACT PERS	ON	Mr. NJ Motsopye						
TELEPHONE NU		0152847126	E-MAIL AI	DDRESS		motsop	yen@dpw.limpop	o.gov.za
CONTACT PERS	ON (TECHNICAL)	Mr. K Modjadji				I.	/ / / /	
TELEPHONE NU	MBER	083 673 5436	E-MAIL AI	DDRESS		Modjad	jiM@dpw.limpopo	o.gov.za
SUPPLIER INFO	RMATION							
NAME OF BIDDE	R							
POSTAL ADDRES	SS							
STREET ADDRE	SS				1			
TELEPHONE NU	MBER	CODE			NUMBER			
CELLPHONE NU	MBER							
E-MAIL ADDRES	S							
VAT REGISTRAT								
SUPPLIER COMF	PLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No	: MAA	٩A	
ARE YOU THE REPRESENTA	ACCREDITED				A FOREIGN	THF	Yes	□No
SOUTH AFRIC		Yes	No		SERVICES /W		[IF YES, ANSW	
GOODS /SER OFFERED?	VICES /WORKS	[IF YES ENCLOSE	[IF YES ENCLOSE PROOF] OFFERED?			QUESTIONNAI		
QUESTIONNAIRI	e to bidding fore	IGN SUPPLIERS						
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				ES 🗌 NO				
DOES THE ENTITY HAVE A BRANCH IN THE RSA?					ES 🗌 NO			
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?					ES 🗌 NO			
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?					ES 🗌 NO			
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?					ES NO			
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.					ICE STATUS I.			

CONTRACT No. LDPWRI-B/20292

### PART B: TERMS AND CONDITIONS FOR BIDDING

#### 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 GENERAL CONDITIONS OF CONTRACT (GCC) 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.

#### 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 PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

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:	

CONTRACT No. LDPWRI-B/20292

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 interest2 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 institution	State

- 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:

.....

<sup>&</sup>lt;sup>2</sup> the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

### CONTRACT No. LDPWRI-B/20292

- 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**
- 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 consortium3 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

<sup>&</sup>lt;sup>3</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

CONTRACT No. LDPWRI-B/20292

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

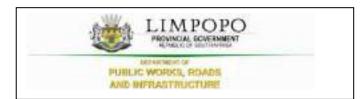
Date

.....

Position

Name of bidder

CONTRACT No. LDPWRI-B/20292



### SBD 6.1

### PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

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

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

### 1. GENERAL CONDITIONS

- 1.1 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
  - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

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

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 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.

CONTRACT No. LDPWRI-B/20292

### 1.4 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

- 1.5 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.
- 1.6 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.

### 2. DEFINITIONS

- (a) "tender" means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) "**price**" means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) "rand value" means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) "tender for income-generating contracts" means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) "the Act" means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

CONTRACT No. LDPWRI-B/20292

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

### 3.1. POINTS AWARDED FOR PRICE

### 3.1.1 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

 $Ps = 80 \& 1 - \frac{Pt + Pmin}{Pmin}$ ) or  $Ps = 90 \& 1 - \frac{Pt + Pmin}{Pmin}$ ) Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

# 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 or 90 points is allocated for price on the following basis:

80/20 or 90/10  $P s = 8 0 \& 1 + \frac{Pt + Pmax}{Pmax})$  or  $P s = 9 0 \& 1 + \frac{Pt + Pmax}{Pmax})$ 

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = 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 table 1 below 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—
- 4.3.
- (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 **t**<sup>26</sup> determine the applicable preference point system; or

CONTRACT No. LDPWRI-B/20292

(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.

### Table 1: Specific goals for the tender and points claimed are indicated per the table below.

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Persons who had no franchise in national elections prior to 1983 and 1993	6	
Women	3	
Disabled persons	2	
Promotion of SMMEs	2	
Enterprises located in Limpopo Province	4	
Promotion of youth	1	
South African owned enterprises	2	

### **DECLARATION WITH REGARD TO COMPANY/FIRM**

> Non-Profit Company State Owned Company [TICK APPLICABLE BOX]

- 4.7. 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:	



### ATION OF CURRENT PROJECTS

alue refers to current value of projects for both General Building (GB) and Civil Engineering (CE).

st the current projects which your company is busy executing in the table below.

ects at the moment the bidder must indicate/write on this table.

sentation of facts will render your bid non-responsive.

### ist of current projects executed by the bidder

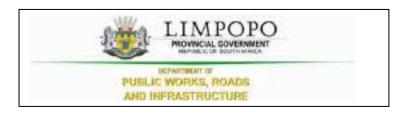
o you have the current projects being executed Yes/No? (circle the correct answer)

ease note that it is compulsory to answer the question above and if the answer is yes, complete the table below. Failure by the service ovider/bidder to answer the question above or complete the table below will render their proposal not responsive and will not be consid

Description	Project Value	Start date	Planned end date	Client Name	Contact Perso

29

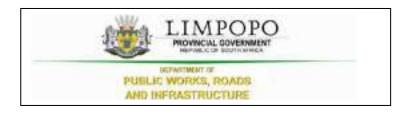
Signed	 Date	
Name	 Position	
Enterprise	 	



# THE CONTRACT



## PART C1: AGREEMENT AND CONTRACT DATA



### C1.1. FORM OF OFFER AND ACCEPTANCE

### Offer

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

## REFURBISHMENT AND ADDITIONS AT THABANE PRIMARY SCHOOL IN MABOTSHA VILLAGE, GREATER SEKHUKHUNE DISTRICT.

The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the tender schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorized, signing this part of the Form of Offer and Acceptance, the tenderer 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 PRICE INCLUSIVE OF VALUE ADDED TAX IS (CONTRACT PRICE)

Rand (in words); R	 	 	

(in figures) R.....

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 tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature(s)	 
Name(s)	 
Capacity	 
For the tenderer:	 
Name & signature of witness	 Date

## Acceptance (To be completed by the employer – not the bidder)

By signing this part of this Form of Offer and Acceptance, the *Employer* identified below accepts the tenderer's Offer. In consideration thereof, the *Employer* shall pay the Consultant the amount due in accordance with the *conditions of contract* identified in the Contract Data. Acceptance of the tenderer's Offer shall form an agreement between the *Employer* and the tenderer 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

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 Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the *Employer* during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The tenderer shall within two weeks of 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 securities, 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 tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the tenderer (now *Consultant*) 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.

### For the Employer

Signature	
Name	
Capacity	

Name and address of organization

#### Signature and Name of Witness

Signature	
Name	
Capacity	

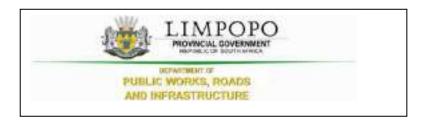
### **Schedule of Deviations**

1 Subject .	
Details	
2 Subject	
2 Subject .	
Details	
3 Subject .	
Details	
4 Subject .	
Details	

By the duly authorised representatives signing this agreement, the *Employer* and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer 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 tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

.....



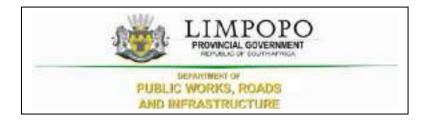
### C2.1 CONTRACT DATA

The Conditions of Contract are clauses 1 to 41 of the JBCC Series 2000 Principal Building Agreement (Edition 4.1 of March 2005) published by the Joint Building Contracts Committee.

Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors (011-3154140), Master Builders Association (011-205-9000; 057- 3526269) South African Association of Consulting Engineers (011-4632022) or South African Institute of Architects (051-4474909; 011-4860684; 053-8312003;)

The JBCC Principal Building Agreement makes several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities, and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the JBCC Principal Building Agreement.

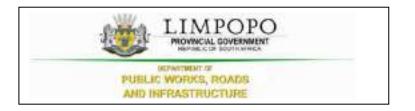
The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts Gazette Notice No. 36190 of 25 February 2013."



# PART C2: PRICING DATA

# C2.1 Pricing instruction

- The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work in accordance with the provisions of the Model Bills of Quantities or Electrical Work, published by the South African Association of Quantity Surveyors, (July, 2005).
- The agreement is under the JBCC N/S Subcontractor Agreement for use with the JBCC PBA (Edition 4.1 code 2101 March 2005) form of contract with Preliminaries (Code 2103 May 2005) incorporating the State Provisions of cl 41.0.
- 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.
- The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the 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. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
- An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
- The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bills of Quantities.
- The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.
- The bidder shall set aside a minimum of 5 % of the project value for sub-contractor/s and determine the amount to be paid for the Contract Participation Goal (CPG).



# PART C2.2: BILLS OF QUANTITIES

# SECTION NO. 1

# **Preliminaries and Generals**

#### Item No

# SECTION NO.1

# BILL NO.1

# MEANING OF TERMS "TENDER / TENDERER"

Any reference to the words "Tender" or Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

# PRELIMINARIES

The JBCC Preliminaries Edition 4.1 Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".

### PRICING OF PRELIMINARIES

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item.

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.

# SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

Carried to Collection

Section No. 1 PRELIMINARIES Bill No. 1 R

1

		TLONG		
	DEFINI	HONS		
1	A1	DEFINITIONS AND INTERPRETATIONS		
	Clause 1.0	) Clause		
	1.1 Defini	ition of "Commencement Date" is added:		
	agreeme	ENCEMENT DATE" means the date that the ent, made in terms of the Form of Offer and ce, comes into effect.		
		Definition of "Construction Period" is amended by it with the following:		
		RUCTION PERIOD" means the period commencing mmencement date and ending on the date of practical n.		
	Clause 1.1 with the fo	Definition of "Interest" is amended by replacing it ollowing:		
	whether s	T means the interest rates applicable on this contract, pecifically indicated in the relevant clauses or not, will ns of the legislation of the Republic of South Africa, rticular.		
	(a)	In respect of interest owed by the employer, the interest rate as determined by the Minister of Justice and Constitutional Development, from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and		
	(b)	in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply.		
	Clause 1.6	0.4 is amended by replacing it with the following:		
		Carried to Collection	R	
	Section	No. 1	1	 
	PRELIM Bill No. 1	IINARIES		

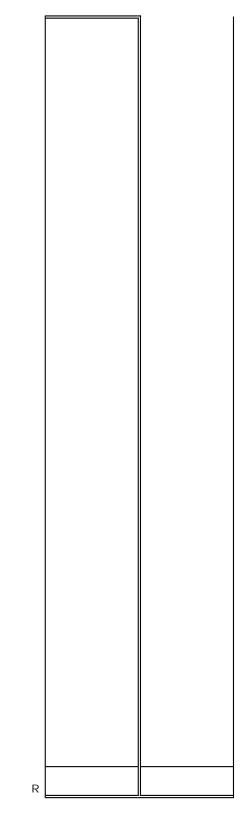
No clause		
	Value related: d:	item
OBJECT	VE AND PREPARATION	
A2	OFFER, ACCEPTANCE AND PERFORMANCE	
Clause 2.0		
	Value related: d:	item
A3	DOCUMENTS	
Clause 3.0		
Clause 3.7 i	is amended by the addition of the following:	
2000 Princi to this cont	ctor shall supply and keep a copy of the JBCC Series pal Building Agreement and Preliminaries applicable ract on the site, to which the employer, principal agents shall have access at all times	
	Value related: d:	item
A4	DESIGN RESPONSIBILITY	
Clause 4.0		
	Value related: d:	item
A5	EMPLOYEES AGENTS	
Clause 5.0		
Clause 5.1.	2 is amended to include clauses 32.6.3,34.3 and 34.4	
	Value related: d:	item
	Carried to Collection	R
Section N PRELIMI	lo. 1	

	I	I	I	I
6	A6 SI TE REPRESENTATI VE			
	Clause 6.0			
	Fixed:Value related:	itom		
	Time related:	item		
7	A7 COMPLIANCE WITH REGULATION			
	Clause 7.0			
	Note: The provisions herein include inter alia, compliance with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor			
	See also clause C10 of Section C - Specific Preliminaries			
	Fixed:Value related: Time related:	item		
8	A8 WORKS RISK			
	Clause 8.0			
	Fixed:Value related: Time related:	item		
9	A9 INDEMNITIES			
	Clause 9.0			
	Fixed:Value related: Time related:	itom		
		item		
10	A10 WORKS I NSURANCES			
	Fixed:Value related:			
	Time related:			
	Clause 10.0			
	Clause 10.0 is amended by the addition of the following clauses:	item		
	Carried to Collection	R		
	Section No. 1			

PRELIMINARIES Bill No. 1

### 10.5 Damage to the Works

- Without in any way limiting the contractors obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary
- (b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair of works
- (c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6
- (d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof



Carried to Collection

10.6 Injury to Persons or loss of or damage to Properties

- (a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable
- (b) The contractor shall be liable for any hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable
- (c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default therefore the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor
- (d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion
- (e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed

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Carried to Collection

(f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works

### 10.7 High risk insurance

In the event of the project being executed in a geological area classified as a High Risk Area, that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

#### 10.7.1 Damage to the works

The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works at the contractor's own costs

10.7.2 Injury to persons or loss of or damage to property

The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

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	<ul> <li>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractors obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</li> <li>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractors default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amount still due under this contract or under any other contract presently or hereafter existing between the employer</li> </ul>		
	and the contractor and for this purpose all these contracts shall be considered one indivisible whole		
	Fixed:Value related: Time related:	item	
11	A11 LIABILITY INSURANCES		
	Clause 11.0		
	Fixed:Value related: Time related:	item	
12	A12 EFFECTING INSURANCES		
	Clause 12.0		
	Fixed :Value related : Time related :	item	
13	A13.0 <i>No clause</i>		
14	A14 SECURITY		
	Clause 14.0		
	Clause 14.1 - 14.8 are amended by replacing them with the following:		
	14.1. In respect of contracts with a contract sum up to R1 million, the security to be submitted by the contractor to the employer will be as a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)		
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14.1.1. The payment reduction of the value certified in a payment certificate shall be *mutatis mutandi* in terms of 31.8(A)

14.1.2. The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employers entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor

14.2. In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have selected.

14.3. Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

14.3.1. The contractor shall furnish the employer with a cash deposit equal in value of ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

14.3.2. Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor

14.3.3. Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor

14.3.4. On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor

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14.3.5. The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employers entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor

14.3.6. The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party

14.4. Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected.

14.4.1. The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten percent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

14.4.2. The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form include in the invitation to tender

14.4.3. The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring

14.4.4. Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee

14.5. Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:

14.5.1. The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)

14.5.2. The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of practical completion

14.5.3. The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring

14.5.4. The payment reduction of the value certified in a payment certificate shall be in terms of 31.8 (A) and 34.8

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14.5.5. Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both

14.6. Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:

14.6.1. The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

14.6.2. Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor

14.6.3. The payment reduction of the value certified in a payment certificate shall be *mutatis mutandi* in terms of 31.8(A)

14.6.4. Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7. Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:

14.7.1. The payment reduction of the value certified in a payment certificate shall be *mutatis mutandi* in terms of 31.8(B)

14.7.2. The employer shall be entitled to recover expenses and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employers entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor

14.8. Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement

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15       A15 PREPARATION FOR AND EXECUTION OF THE WORKS         Clause 15.0       Clause 15.1         Clause 15.1       is amended by replacing it with:         No Clause       Clause 15.1         Clause 15.1       is amended by the addition of the following clause:         15.1.4       An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), with twenty-one (21) calendar days of commencement date         Clause 15.2.1       is amended by replacing it with the following clause:         Give the contractor possession of the site within ten (10)       working days of the contractor complying with the terms of 15.1.2 and 15.1.4         Fixed:		14.9. Should the contractor fail to furnish the security in terms of 14.2, the employer, in his sole discretion and without notification to the contractors selected form the security to that of a ten per cent (10%) payment reduction of the value certificate in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable Fixed:Value related: Time related: EXECUTION	item	
Clause 15.0 Clause 15.1.1 is amended by replacing it with: No Clause Clause 15.1 is amended by the addition of the following clause: 15.1.4. An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), with twenty-one (21) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.2 and 15.1.4 Fixed:Value related: Time related: time related: Fixed:Value related: Time relate	15	A15 PREPARATION FOR AND EXECUTION OF THE WORKS		
Time related: item   16 A16   ACCESS TO THE WORKS   Clause 16.0   Fixed: Value related:   Time related:   Time related:   IT   A17   CONTRACT INSTRUCTIONS   Clause 17.0   Fixed:   Value related:		Clause 15.1.1 is amended by replacing it with: No Clause Clause 15.1 is amended by the addition of the following clause: 15.1.4. An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), with twenty-one (21) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of		
16 A16 ACCESS TO THE WORKS   Clause 16.0 Fixed:Value related:   Fixed:Value related: item   17 A17 CONTRACT INSTRUCTIONS   Clause 17.0 Fixed:Value related:				
Clause 16.0 Fixed:Value related: Time related: 17 A17 CONTRACT INSTRUCTIONS Clause 17.0 Fixed:Value related:			item	
17 A17 CONTRACT INSTRUCTIONS Clause 17.0 Fixed:Value related:	16	Clause 16.0		
Clause 17.0 Fixed:Value related:		Time related:	item	
Fixed:Value related:	17	A17 CONTRACT INSTRUCTIONS		
		Clause 17.0		
			item	
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18	A18 SETTING OUT OF THE WORKS		
	Clause 18.0		
	Fixed:Value related: Time related:	item	
19	A19 ASSI GNMENT		
	Clause 19.0		
	Fixed:Value related: Time related:	item	
20	A20 NOMINATED SUB-CONTRACTORS		
	Clause 20.0		
	Clause 20.1.3 is amended by replacing it with the following:		
	No Clause		
	Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums		
	Fixed :Value related : Time related :	item	
21	A21 SELECTED SUBCONTRACTORS		
	Clause 21.0		
	Clause 21 is amended by replacing with:		
	No Clause		
	Fixed:Value related: Time related:	item	
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22	A22 EMPLOYERS DI RECT CONTRACTORS		
	Clause 22.0		
	Fixed:Value related: Time related:	item	
23	A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS		
	Fixed:Value related: Time related:		
24	A24 PRACTICAL COMPLETION		
	Clause 24.0		
	Fixed:Value related: Time related:		
25	A25 WORK'S COMPLETION		
	Clause 25.0		
	Fixed:Value related: Time related:	item	
26	A26 FINAL COMPLETION		
	Clause 26.0		
	Fixed:Value related:		
07	Time related:	item	
27	A27 LATENT DEFECTS LIABILITY PERIOD		
	Clause 27.0		
	Fixed:Value related: Time related:	item	
28	A27 SECTIONAL COMPLETION		
	Clause 28.0		
	Fixed:Value related: Time related:	item	
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29       A29       REVISION OF DATE FOR PRACTICAL COMPLETION         Clause 29.0       Fired:		1		
Fixed:	29	A29 REVISION OF DATE FOR PRACTICAL COMPLETION		
Time related:       item         30       PENALTY FOR NON-COMPLETION         Fixed:       Value related:         Time related:       item         PAYMENT       item         31       A31       INTERIM PAYMENT TO THE CONTRACTOR         Clause 31.0       Clause 31.0       Clause 31.0         Clause 31.0 iternative clauses:       Atternative clauses:         Atternative A       31.8(A).1 Where a security is selected in terms of 14.1, 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:         31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of final completion         31.8(A).2 Ninety-nine per cent (97%) of such value in interim payment certificates issued on the date of final completion         31.8(A).3 Ninety-nine per cent (97%) of such value in interim payment certificates issued on the date of final completion         31.8(A).3 Ninety-nine per cent (100%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 31.6         31.8(A).3 Ninety-nine per cent (100%) of such value in the final payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6         31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate is the adjustment level		Clause 29.0		
Fixed:       Value related:       Item         PAYMENT       31       INTERIM PAYMENT TO THE CONTRACTOR         Clause 31.0       Clause 31.8 is amended by replacing it with the following two alternative clauses:       Atternative clauses:         Atternative A       31.8(A).1 Where a security is selected in terms of 14.1, 14.5 or 114.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:         31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of final completion         31.8(A).3 Ninety-nine per cent (97%) of such value in interim payment certificates issued on the date of final completion         31.8(A).3 Ninety-nine per cent (97%) of such value in interim payment certificates issued on the date of final completion         31.8(A).4 One hundred per cent (100%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6         31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certificate in terms of 34.6 except where the amount certificate in terms of 34.6 except where the amount certificate in the mayment certificate in the may supplicable to the final payment certificate			item	
Time related:       Item         PAYMENT       31         31       A31       INTERIM PAYMENT TO THE CONTRACTOR         Clause 31.0       Clause 31.0         Clause 31.8 is amended by replacing it with the following two alternative clauses:       Alternative A         31.8(A).1 Where a security is selected in terms of 14.1, 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:         31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion         31.8(A).3 Ninety-nine per cent (97%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6         31.8(A).4 One hundred per cent (100%) of such value in interim payment certificate in terms of 34.6         31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6         31.8(A).4 One hundred per cent (100%) of such value in a event the payment reduction shall remain at the adjustment level applicable to the final payment certificate	30	A30 PENALTY FOR NON-COMPLETION		
31       INTERIM PAYMENT TO THE CONTRACTOR         Clause 31.0       Clause 31.3 is amended by replacing it with the following two alternative clauses:         Atternative A       Alternative A         31.8(A).1 Where a security is selected in terms of 14.1, 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:         31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of final completion         31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6         31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate is infavour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate			item	
Clause 31.0 Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A 31.8(A).1 Where a security is selected in terms of 14.1, 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion 31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6 31.8(A).4 One hundred per cent (100%) of such value in the final payment certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate		PAYMENT		
Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A 31.8(A).1 Where a security is selected in terms of 14.1, 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion 31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6 31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate	31	A31 INTERIM PAYMENT TO THE CONTRACTOR		
alternative clauses:         Alternative A         31.8(A).1 Where a security is selected in terms of 14.1, 14.5 or         14.6, the value of the works in terms of 31.4.1 and materials         and goods in terms of 31.4.2 shall be certified in full. The value         certified shall be subject to the following percentage adjustments:         31.8(A).2 Ninety-seven per cent (97%) of such value in interim         payment certificates issued on the date of practical         completion and up to but excluding the date of final completion         31.8(A).3 Ninety-nine per cent (99%) of such value in interim         payment certificates issued on the date of final completion         31.8(A).3 Ninety-nine per cent (99%) of such value in interim         payment certificates issued on the date of final completion         31.8(A).4 One hundred per cent (100%) of such value in the         final payment certificate in terms of 34.6 except where the         amount certified is in favour of the employer. In such an event         the payment certificate in terms of 34.6 except where the         applicable to the final payment certificate		Clause 31.0		
<ul> <li>31.8(A).1 Where a security is selected in terms of 14.1, 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</li> <li>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion and up to but excluding the date of final completion and up to but excluding the final payment certificate in terms of 34.6</li> <li>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6</li> <li>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</li> </ul>				
<ul> <li>14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</li> <li>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</li> <li>31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion</li> <li>31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</li> <li>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</li> </ul>		Alternative A		
payment certificates issued on the date of practical completion and up to but excluding the date of final completion 31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6 31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate		14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value		
payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6 31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate		payment certificates issued on the date of practical		
final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate		payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms		
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Alternative B 31.8(B) Where security is a payment reduction in terms of 14.7 the value of the works in terms of 31.4.1 and materials and		
goods in terms of 31.4.2 shall be certified in full. The value		
certified shall be subject to the following percentage adjustments:		
31.8(b).1 Ninety per cent (90%) of such value in interim		
payment certificates issued up to the date of practical completion		
Completion		
31.8(B).1 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical		
completion and up to but excluding the date of final completion		
31.8(B).3 Ninety-nine per cent (99%) of such value in interim		
payment certificates issued on the date of final completion		
and up to but excluding the final payment certificate in terms of 34.6		
31.8(B).4 One hundred per cent (100%) of such value in the final		
payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the		
payment reduction shall remain at the adjustment level applicable		
to the final payment certificate		
Clause 31.12 is amended by deleting the following:		
Payment shall be subject to the employer giving the contractor		
a tax invoice for the amount due		
Fixed:Value related:		
Time related:	item	
A32 ADJUSTMENT TO THE CONTRACT VALUE		
Clause 32.0		
Clauses 32.5.1, 32.5.7 are amended by the addition of the		
following at the end of the sentence:		
"due to no fault of the contractor"		
Fixed:Value related:		
Time related:	item	
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33	A33 RECOVERY OF EXPENSE AND LOSS		
	Clause 33.0 Clause 33.2 is amended by adding the following clauses:		
	33.2.9 the contractors failure or neglect to commence with the works on the dates prescribed in the contract		
	33.2.10 the contractors failure or neglect to proceed with the works in terms of the contract		
	33.2.11 the contractors failure or neglect for any reason to complete the works in accordance with the contract		
	33.2.12 the contractors refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract		
	33.2.13 the contractors estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa		
	Fixed:Value related: Time related:	item	
34	A34 FINAL ACCOUNT AND FINAL PAYMENT		
	Clause 34.0		
	Clause 34.13 is amended by replacing seven (7) calendar days with twenty-one (21) calendar days and deleting the words subject to the employer giving the contractor a tax invoice for the amount due		
	Fixed:Value related: Time related:	item	
35	A35 PAYMENT TO OTHER PARTIES	liem	
00	Clause 35.0		
	Fixed:Value related: Time related:	item	
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CANCELLATION			
	ON BY EMPLOYER - CONTRACTORS		
Clause 36.0			
	removing the reference to No clause rincipal agent with employer		
Clause 36.0 is amended by	the addition of the following clause:		
of this agreement either or for any reason whatsoev instruction, discontinue wi withdraw himself from the entitled to refuse to withdr	clause to the contrary, on cancellation by the employer or the contractor; eer, the contractor shall on written h the works on a date stated and site. The contractor shall not be aw from the works on the grounds of in or on the grounds of any other right		
Fixed:Value Time related:Value	elated:	item	
A37 CANCELLATI DAMAGE	ON BY EMPLOYER - LOSS AND		
Clause 37.0			
Clause 37.0 is amended by	the addition of the following clause:		
this agreement either by for any reason whatsoever instruction, discontinue wi withdraw himself from the entitled to refuse to withdr	clause to the contrary, on cancellation of the employer or the contractor; or , the contractor shall on written h the works on a date stated and site. The contractor shall not be aw from the works on the grounds of in or on the grounds of any other right		
Fixed:Value	elated:	item	
A38 CANCELLATI DEFAULT	ON BY CONTRACTOR - EMPLOYERS		
Clause 38.0			
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	Clause 20.0 is amanded by the addition of the following clauses	
	Clause 38.0 is amended by the addition of the following clause: 38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever	
	Fixed:Value related: Time related:	item
38	A39 CESSATION- CANCELLATION OF THE WORKS	
	Clause 39.0	
	Fixed:Value related: Time related:	item
39	A40 DI SPUTE SETTLEMENT	
	Clause 40.0	
	Clause 40.2.2 is amended by replacing one (1) year with three (3) years	
	Clause 40.6 is amended by removing the reference to:	
	No clause	
	Clause 40.7.1 is amended by replacing (10) with (15) and by the additions of the following	
	Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs	
	Fixed:Value related: Time related:	item
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	SUBSTITUTE PROVISIONS		
40	A41 STATE CLAUSES		
	Clause 41.0		
	Fixed:Value related: Time related:	item	
	CONTRACT VARIABLES		
	THE SCHEDULE (DPW04EC)		
41	A42 PRE-TENDER INFORMATION		
	Clause 42.0		
	Tenderers are referred to the document C1.2 Contract Data DPW04(EC) for variables pertaining to this contract		
	Fixed:Value related: Time related:	item	
	SECTION B: JBCC PRELIMINARIES		
	DEFINITIONS AND INTERPRETATION		
42	Definitions and interpretation		
	Fixed:Value related: Time related:	item	
	DOCUMENTS		
43	Checking of documents		
	Fixed:Value related: Time related:	item	
44	Provisional bills of quantities		
	Fixed:Value related: Time related:	item	
	Carried to Collection	R	

Fixed:Value related:		
Time related:	item	
Interests of agents		
Fixed:Value related: Time related:	item	
Priced documents		
Fixed :Value related : Time related :	item	
Tender submission		
Clause 2.6 is amended by replacing JBCC Form of Tend Form of Offer and Acceptance	der with	
Fixed :Value related : Time related :	item	
THE SITE		
Defined works area		
Fixed :Value related : Time related :	item	
Geotechnical investigation		
Fixed:Value related: Time related:	item	
Inspection of the site		
Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the sam tender submission.		
Fixed:Value related: Time related:	item	
Carried to Collec	tion	

Bill No. 1

	1		1
52	Existing premised occupied		
	Fixed:Value related: Time related:	item	
53	Previous work dimensional accuracy		
	Fixed:Value related: Time related:	item	
54	Previous work defects		
	Fixed:Value related: Time related:	item	
55	Services known		
	Fixed:Value related: Time related:	item	
56	Services unknown		
	Fixed:Value related: Time related:	item	
57	Protection of trees		
	Fixed:Value related: Time related:	item	
58	Articles of value		
	Fixed:Value related: Time related:	item	
59	Inspection of adjoining properties		
	Fixed:Value related: Time related:	item	
	Carried to Collection	R	

MANAGEMENT OF CONTRACT		
Management of the works		
Fixed:Value related: Time related:	item	
	item	
Programme for the works		
Fixed:Value related: Time related:	item	
	item	
Progress meetings		
Fixed:Value related: Time related:	item	
	nem	
Technical meetings		
Fixed:Value related:	item	
	nem	
Labour and plant records		
Fixed:Value related:	item	
SAMPLES, SHOP DRAWINGS AND		
MANUFACTURERS' INSTRUCTIONS		
Samples of materials		
Fixed:Value related:		
Time related:	item	
Workmanship samples		
Fixed:Value related:		
Time related:	item	
Shop drawings		
Fixed:Value related:	item	
Carried to Collection	R	

		1	 I
	TEMPORARY WORKS AND PLANT		
69	Deposits and fees		
	Fixed:Value related: Time related:	item	
70	Enclosure of the works		
	Fixed:Value related: Time related:	item	
71	Advertising		
	Fixed:Value related: Time related:	item	
72	Plant, equipment, sheds and offices		
	Fixed:Value related: Time related:	item	
73	Main notice board		
	Fixed:Value related: Time related:	item	
74	Subcontractors notice board		
	Fixed:Value related: Time related:	item	
	TEMPORARY SERVICES		
75	Location		
	Fixed:Value related: Time related:	item	
76	Water		
	Fixed:Value related: Time related:	item	
77	Electricity		
	Fixed:Value related: Time related:	item	
	Carried to Collection	R	

78	Telecommunication facilities		
	Fixed:Value related: Time related:	item	
79	Ablution facilities		
	Fixed:Value related: Time related:	item	
	PRIME COSTS AMOUNTS		
80	Responsibility for prime cost amounts		
	Fixed:Value related: Time related:	item	
	ATTENDANCE ON N/S SUBCONTRACTORS		
81	General attendance		
	The schedule rates providing for attendance on nominated subcontractors and other contractors, will be adjusted only if the scope of the work has changed		
	Fixed:Value related: Time related:	item	
82	Special attendance		
	Fixed:Value related: Time related:	item	
83	Commissioning fuel, water and electricity		
	Fixed:Value related: Time related:	item	
	Carried to Collection	R	

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	FINANCIAL ASPECTS		
84	Statutory taxes, duties and levies		
	Fixed:Value related: Time related:	item	
85	Payment for preliminaries		
	Fixed:Value related: Time related:	item	
86	Adjustment of preliminaries		
	Fixed:Value related: Time related:	item	
87	Payment certificate cash flow		
	Fixed:Value related: Time related:	item	
	GENERAL		
88	Protection of the works		
	Fixed:Value related: Time related:	item	
89	<i>Protection / isolation of existing / sectionally occupied works</i>		
	Fixed:Value related: Time related:	item	
90	Security of the works		
	Fixed:Value related: Time related:	item	
91	Notice before covering work		
	Fixed:Value related: Time related:	item	
	Carried to Collection	R	

92	Disturbance		
	Fixed:Value related: Time related:	item	
93	Environmental disturbance		
	Fixed:Value related: Time related:	item	
94	Works cleaning and clearing		
	Fixed:Value related: Time related:	item	
95	Vermin		
	Fixed:Value related: Time related:	item	
96	Overhand work		
	Fixed:Value related: Time related:	item	
97	Instruction manuals and guarantees		
	Fixed:Value related: Time related:	item	
98			
	Fixed:Value related: Time related:	item	
99	Tenant installations		
	Fixed:Value related: Time related:	item	
	Carried to Collection	R	
	Section No. 1 PRELIMINARIES	ı <u>'</u>	1

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	SCHEDULE OF VARIABLES			
100	Pre-tender information			
	Fixed:Value related: Time related:	item		
	This schedule contains all variables referred to in this document and is divided into pretender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.			
	Spaces requiring information must be filled in, shown as not applicable or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted.			
	Carried to Collection	R		

1	
12.1	PRE-TENDER INFORMATION
12.1.1 <i>[2.2]</i>	Provisional Bills of Quantities The quantities are provisional NO
12.1.2 <i>[2.3]</i>	Availability of construction documentation Construction documentation is complete YES
12.1.3	Interest of agent Details: Employer: Limpopo Department of of Roads & Infrastructure 43 Church Street Private Bag X9490 POLOKWANE, 0700 Tel: [015] 284 7000/1 Cell: 082 460 6271 <b>Acchiece and Principal Agent</b> Ruben Reddy Architects 4 Ismini Office Park, POLOKWANE Tel: [015] 065 0645 Fax: [011] 475 8364 Email: Geshim.Francis@rubenreddyarch.co.za <b>Deutity Surveyor</b> PAhalnan-Hunadi QS 2760 Zone B LEBOWAKGOMO , 0737 Tel: [015] 633 6535 Fax: [015] 633 6477 Email: 'info@phqs.co.za <b>DeutityStructural</b> Muteo Consulting 39 Grobler Street POLOKWANE Tel: [015] 291 4065 Fax: 015 291 4043 Email: vonganim@muteo.co.za <b>Electical/Mechanical Engineers</b> NSKECM 38 Burger Street Polokwane 0700 Tel: 015 295 2104 Fax: 015 295 2104
	Carried to Collection

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I.	
12.1.4	<i>Defined works area</i>
<i>[3.1]</i>	Details:
	Site as per land surveyor
12.1.5	Geotechnical investigation
<i>[3.2</i> ]	Details:
	Refer to Principal Agent
12.1.6	<i>Existing premises occupies</i>
<i>[3.4]</i>	Specific requirements:
	N/A
12.1.7	<i>Previous work - dimensional accuracy</i>
<i>[3.5]</i>	Details
	N/A
12.1.8	<i>Previous work - defects</i>
<i>[3.6]</i>	Details:
	N/A
12.1.9	<i>Services - known</i>
<i>[3.7]</i>	Details:
	N/A
12.1.10	Protection of trees
<i>[3.9]</i>	Specific requirements:
12.1.11	Inspection of adjoining properties
<i>[3.11]</i>	Specific requirements:
12.1.12	<i>Enclosure of the works</i>
<i>6.2]</i>	Specific requirements:
12.1.13 <i>[6.4.3]</i>	<i>Offices</i> Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitable insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.
	Carried to Collection

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12.1.14	Main notice board			
[6.5]	Specific requirements:			
	The contractor shall provide, erect where dir			
	maintain and remove on completion of the we			
	notice board size 3 x 3m as type Drawing GE constructed of suitable boarding with flat sm			
	surface and with edging bead 19mm thick ar			
	edges and projecting 12mm from face of boa			
	rounded on front edge. The board shall be			
	fixed to hoarding, where hoarding is provide			
	to and including a suitable supporting struct			
	or tubular posts and braces. The board is to ivory white and the bead and 12mm wide div			
	dark green. All wording shall be inscribed in			
	as per the coat of arms of SA. All working sha			
	inscribed in dark green painted sans serif let			
12.1.15	Subcontractor's notice board			
[6.6]	Specific requirements:	YES/NO		
12.1.16	Water	120/100		
[7.2]	Option A (by contractor)			
		YES		
	Option B (by employer - free of charge)	NO		
	Option C (by employer - metered)	NO		
	option o (by employer - metered)	NO		
12.1.17	Electricity	-		
[7.3]	Option A (by contractor)			
		YES		
	Option B (by employer - free of charge)	NO		
	Option C (by employer - metered)	NO		
	option o (by employer - metered)	NO		
12.1.18	Telecommunications	-		
[7.4]	Telephone			
		YES		
	Facsimile	VEC		
	E-mail	YES		
	L-man	YES		
12.1.19	Ablution facilities	0		
[7.5]	Option A (by contractor)			
		YES		
	Option B (by employer)	NO		
12.1.20	Protection of avisting (socianally assure	NO		
12.1.20 <i>[11.2]</i>	Protection of existing/sectionally occup Protection is required	NEU WUIKS		
L · ··~J		NO		
			-	
	Carried to Collecti	on	R	

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12.1.21 <i>[9.2]</i>	<i>Special attendance Subcontractor</i> (1) details:					
	Subcontractor (2) details:					
	Subcontractor (3) details:					
	Subcontractor (4) details:					
12.1.22 <i>[11.1]</i>	Protection of works Specific requirements					
12.1.23 <i>[11.5]</i>	Disturbance Specific requirements: The contractor shall keep the site, structures, etc. well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent					
12.1.22 <i>[11.1]</i>	Protection of works Specific requirements					
12.1.23 <i>[11.5]</i>	Disturbance Specific requirements: The contractor shall keep the site, structures, etc. well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent					
12.1.24 <i>[11.6]</i>	<i>Environmental disturbance</i> Specific requirements:					
12.2	POST-TENDER INFORMATION					
12.2.1 <i>[10.2]</i>	Payment of preliminaries Option A (prorated) YES/NO Option B (calculates)					
	YES/NO					
12.2.2 <i>[10.3]</i>	Adjustment of preliminaries Option A (three categories) YES/NO					
	Option B (detailed breakdown) YES/NO					
12.2.3	Additional agreed preliminaries items Details:					

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	SECTION C: SPECIFIC PRELIMINARIES			
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item			
101	C1 CONTRACT DRAWINGS			
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer the acquaint himself with the nature and extend of the works and the manner in which they are to be executed			
	Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent			
	Fixed:Value related: Time related:	item		
102	C2 GENERAL PREAMBLES			
	The document Specification of Materials and Methods to be used (PW371) is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used			
	Fixed:Value related: Time related:	item		
103	C3 TRADE NAMES			
	Wherever a trade name of any product has been described in the bills of quantities, the tenderers attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained to the closing date for submission of tenders			
	If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for			
	Fixed:Value related: Time related:	item		
	Carried to Collection	R		

104	C4 IMPORTED MATERIALS AND EQUIPMENT		
	Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed		
	Nothwistanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)		
	Fixed:Value related: Time related:	item	
105	C5 VIEWING THE SITE IN SECURITY AREAS The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes		
	Fixed:Value related:		
	Time related:	item	
106	C6 COMMENCEMENT OF WORKS IN SECURITY AREAS As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractors account		
	Fixed :Value related : Time related :	item	
	Carried to Collection	R	
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107	C7 ENTRANCE PERMITS TO SECURITY AREAS		
	As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer		
	Fixed:Value related: Time related:	item	
108	C8 SECURITY CHECK OF PERSONNEL		
	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified		
	In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works		
	Fixed:Value related:Time related:	item	
109	C9 PROHIBITION ON TAKING OF PHOTOGRAPHS		
	In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civic works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister.		
	Fixed:Value related: Time related:	item	
	Carried to Collection	R	
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	C10 HIV/AIDS AWARENESS			
	It is required of the contractor to thoroughly study the HIV/AIDS Specification of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items C10.1 TO C10.5 hereafter and it is explicity pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained			
	The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non- compliance, the principal agent, notwithstanding the provisions of Clause A 31 of Section A: Preliminaries (Section A) or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment			
110	C10.1 AWARENESS CHAMPION			
	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification			
	Fixed:Value related: Time related:	item		
111	C10.2 AWARENESS WORKSHOPS			
	Selection and appointment of a completed Services Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification			
	Fixed:Value related: Time related:	item		
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	1	I	 I
112	C10.3 POSTERS, BOOKLETS, VIDEOS, ETC		
	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification		
	Fixed:Value related: Time related:	item	
113	C10.4 ACCESS TO CONDOMS		
	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification		
	Fixed:Value related: Time related:	item	
114	C10.5 MONITORING		
	Monitoring HIV/AIDS awareness of workers, providing the Principal Agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification		
	Fixed:Value related: Time related:	item	
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Section No.1

PRELIMINARIES

Bill No.1

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# SECTION NO. 2

# Alterations and Renovations (12CR, 33Enviro-loo)

					Thaban	ie PS
1		Unit	Quantity	Rate	Amount	1
	SECTION NO. 2					
	Alterations and Renovations (12CR, 33Enviro-loo)					
	BILL NO. 1					
	ALTERATIONS					
	PREAMBLES					
	For preambles see "Specifications and methods to be used - PW371"					
	TEMPORARY BARRICADES, SCREENS, ETC					
	Temporary barricades, screens, roofs, etc including removal					
1	Dust screen 1 800mm high between concrete floor and ceiling, of suitable timber framing with 375 micron					
	polyethylene sheeting stapled on on one side , including					
	corners, ends, etc	m	150			
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc:					
2	10 x 250mm fascia and barge boards	m	370			
3	Take out and remove roof sheeting from roof trusses	m²	968			
4	Take out and remove roof trusses and sheeting from					
	brickwalls	m²	968			
	Taking out and removing sundry joinery work, fittings, etc					
5	Chalk boards size 4800 x 1220mm high from brick wall.	No	12			
6	Pinning boards size 2440 x 1220mm high from brick					
	walls.	No	24			
	Taking out/off and removing glass and mirrors					
7	Glass from steel windows, including cleaning out rebates and preparing for new glass	m²	166			
	Taking down and removing roofs, floors, panelling,					
	<u>ceilings, partitions, etc</u>					
8	Nutec fibre cement ceilings, including cornices, timber brandering, etc	m²	1 290			
	Taking out doors, windows, etc					
9	Timber single door size 813 x 2032mm high overall from					
9	steel frames.	No	21			
10	Steel gate size 813 x 2032mm high overall from steel		10			
	frames.	No	16			
	Carried to Collection			R		
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	Bill No. 1					
	Alterations 42					
	42					

					Thaban	e PS
		Unit	Quantity	Rate	Amount	I
	Breaking up and removing unreinforced concrete		700			
11	100mm Thick surface beds	m²	766			
	Hack up and removing granolithic screeds, plaster , etc from concrete or brickwork and preparing surfaces for new screed, plaster, etc					
12		m²	1 310			
	Taking out and removing fencing, gates, etc					
13	1800mm high steel fence	m	586			
14	Sliding gate size 6000 x 1800mm high	No	1			
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>					
15	Internal plaster from walls	m²	581			
16	External plaster from walls, etc	m²	428			
	Carried to Collection Section No. 2 Bil No. 1 Alterations			R		

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Amount <u>BILL NO. 1</u> **ALTERATIONS COLLECTION** Page No Brought Forward from Page 42 43 Carried To Section Summary R Section No. 2 Bill No. 1 Alterations 44

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	I
	SECTION NO. 2					
	Alterations and Renovations (12CR, 33Enviro-loo)					
	BILL NO. 3					
	EARTHWORKS					
	PREAMBLES					
	For preambles see 'Specification of materials and methods to be used - PW371'					
	COMPACTION OF SURFACES					
	Compaction of surfaces					
1	Compaction of excavated ground surface by wetting and compacting with compactor	m²	766			
	WEED KILLERS, INSECTICIDES, ETC					
	Soil insecticide in accordance with SANS 5859					
2	Under floors etc, including forming and poisoning					
	shallow furrows against foundation walls etc, filling in					
	furrows and ramming	m²	766			
	Carried To Section Summary			R		
	Section No. 2					
	Bill No. 3					
	Earthworks					
	45					

Unit Quantity Amount Rate **SECTION NO. 2** Alterations and Renovations (12CR, 33Enviro-loo) BILL NO. 4 CONCRETE, FORMWORK AND REINFORCEMENT PREAMBLES For preambles see 'Specification of materials and methods to be used - PW371' UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES 15Mpa/19mm concrete Pavings cast in panels 37 m³ 1 Ramps 5 2 m<sup>3</sup> 3 Thickening down the edge of apron 150mm deep, 200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling etc Description Thickening down the edge of apron 150mm deep, 200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling etc 370 m REINFORCED CONCRETE CAST AGAINST **EXCAVATED SURFACES** 25MPa/19mm concrete Surface beds cast in panels 77 4 m³ **TEST CUBES** Test Cubes Making and testing 150 x 150 x 150mm concrete 5 strength test cube (Provisional) No 20 REINFORCEMENT Fabric reinforcement Type 193 fabric reinforcement in concrete surface beds, 6 m² 766 etc Carried To Section Summary R Section No. 2 Bill No. 4 Concrete, Formwork And Reinforcement 46

Unit Quantity Amount Rate **SECTION NO. 2** Alterations and Renovations (12CR, 33Enviro-loo) BILL NO. 5 MASONRY PREAMBLES For preambles see "Specification of materials and methods to be used - PW371" 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. Face bricks: Bricks shall be ordered timeously to obtain uniformity in size and colour. Pointing: Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc. SAMPLES Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site. BRICKWORK IN SUPERSTRUCTURE Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar One brick walls 576 m<sup>2</sup> 2,5mm Brickwork reinforcement 150mm Wide reinforcement built in horizontally 1 918 m FACE BRICKWORK COPINGS, SILLS, ETC. Brick-on-edge header course copings, sills, etc of face bricks prime cost R5500/1000 delivered to site excluding VAT and pointed with recessed joints on all exposed faces: 230mm Wide sill set sloping and slightly projecting. 62 m Carried To Section Summary R Section No. 2 Bill No. 5 Masonry

1

2

3

					Thaban	e PS
		Unit	Quantity	Rate	Amount	1
	SECTION NO. 2					
	Alterations and Renovations (12CR, 33Enviro-loo)					
	<u>BILL NO. 6</u> ROOF COVERINGS					
	<u>KOOL COVERINOS</u>					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW 371					
	General					
	PROFILED METAL SHEETING AND ACCESSORIES					
	0.58mm "Klip-lok light industrial" galvanised troughed sheet steel with "chromadek" finish one side,fixed to 76 x 50mm purlin complete under 5year quarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer					
1	Roof covering with pitch not exceeding 25 degrees.	m²	1 113			
	0.58mm galvanised sheet iron, with "chromadek"					
	one side in:					
2	Standard type FK3 ridge or hip flashing	m	100			
	Carried To Section Summary Section No. 2 Bill No. 6 Roof Coverings 48			R		
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				Thaban	e PS
1	Unit	Quantity	Rate	Amount	1
SECTION NO. 2					
Alterations and Renovations (12CR, 33Enviro-loo)					
BILL NO. 7					
CARPENTRY AND JOINERY					
PREAMBLES					
For preambles see "Specification of materials and					
methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Particle board:					
Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.					
Joinery:					
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.					
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.					
Fixing:					
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.					
Decorative laminate finish:					
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.					
PREFABRICATED ROOF TRUSSES, ETC.					
Plate nailed timber roof truss construction:					
The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantee that the trusses are designed, manufactured, and erected, to support the roof coverings specified. The quarntee shall be valid for 10(ten) years .					
Carried to Collection Section No. 2			R		
Bill No. 7					
Carpentry And Joinery					
49					

Unit Quantity Amount Rate Sawn softwood: Roof construction to double pitched roof with two gable 1 ends approximately 242m2 (three classrooms) on plan overall including trusses, rafters, purlins, permanent bracing, etc (measured flat). Description Roof construction to double pitched roof with two gable ends approximately 370m2 (four classrooms) on plan overall including trusses, rafters, purlins, permanent bracing, etc (measured flat). No 4 **ROOF SUNDRIES** Sundries: Two coats creosote on sawn timbers. 69 2 m<sup>2</sup> EAVES, VERGES, ETC Everite FC77 or equal approved pressed fibrecement: 10 x 250mm Fascias and barge boards including 3 galvanised steel H-profile jointing strips. 370 m Wrought meranti doors: Wrought meranti doors hung to steel frames: 44mm Framed batten door 813 x 2032mm high of 44 x 4 150m top rail and stiles ,16 x 150mm middle ledge and braces and 22 x 220mm bottom rail, filled in with 22mmV-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round. 16 No **DOORS ETC** 40 semi-solid flush doors with veneer 5 40mm Door 813 x 2032mm high No 5 Carried to Collection R Section No. 2 Bill No. 7 Carpentry And Joinery 50

		1	Amount	
BILL NO. 7 CARPENTRY AND JOIN COLLECTION	ERY	Page No		
	Brought Forward from Page	49		
	с с	50		
	Carried To Section Summary	R		
Section No. 2 Bill No. 7	Carned to coolion ourningry	ĸ		
Carpentry And Joinery	51			
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	Alterations and Renovations (12CR, 33Enviro-loo)					
	BILL NO. 8					
	CEILINGS PARTITIONS AND ACCESS FLOORING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.					
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.					
	INSULATION					
	Aerolite insulation:					
1	100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m²	1 290			
	Wrought softwood					
2	19 x 76mm cornices nailed	m	695			
	NAILED UP AND SCREW UP CEILINGS					
	6mm Everite Nutec or equal approved fibre-cement					
	boards with H-type steel cover strips over joints:					
3	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m²	1 290			
4	Extra over ceiling for hinged trap door size 610 x 610mm	No	16			
			10			
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	Carried To Section Summary			R		
	Section No. 2 Bill No. 8					
	Ceilings Partitions And Access Flooring					
	52					
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		Unit	Quantity	Rate	Amount	le P5
	SECTION NO. 2					
	Alterations and Renovations (12CR, 33Enviro-loo)					
	BILL NO. 9					
	IRONMONGERY					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Finishes to ironmongery:					
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.					
	SUNDRIES					
	Brass or equal approved:					
1	Sliding window stay plugged.	No	160			
2	Window handles plugged.	No	160			
	Locks:					
	Solid or equal approved:					
3	CZ6822461 "Gower" Four lever lockset.	No	22			
	CATCHES, CABIN HOOKS, ETC					
	Solid or equal approved					
4	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	17			
	LOCKS					
	Solid or equal approved					
5	'Code 63' or equal approved padlock plugged.	No	17			
	<u>PINNING BOARDS, WRITING BOARDS,</u> PROJECTION SCREENS, ETC					
	Vitrex or equal approved					
6	Pinning board 2400 x 1200mm high plugged.	No	30			
7	White magnetic writing board 2400 x 1200mm high with	N I -				
	anodised alumnium frame plugged.	No	15			
	Carried to Collection			R		
	Section No. 2					
	Bill No. 9					
	Ironmongery 53					
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		Unit	Quantity	Rate	Amount	I
8	Greenfield steel lockers with standard baked enamel finish Double door steel cupboard 914 x 457 x 1828mm high with five shelves bolted to brickwork.	No	12			
	Carried to Collection			R		
	Section No. 2 Bill No. 9 Ironmongery 54			ĸ		

Amount <u>BILL NO. 9</u> **IRONMONGERY COLLECTION** Page No Brought Forward from Page 53 54 Carried To Section Summary R Section No. 2 Bill No. 9 Ironmongery 55

1		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	Alterations and Renovations (12CR, 33Enviro-loo)					
	BILL NO. 10					
	METALWORK					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Descriptions of bolts shall be deemed to include nuts and washers.					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.					
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.					
	MILD STEEL HANDRAILS AND BALUSTRADING					
	Mild steel handrails and balustrades fixed to base plates constructed of two number 6mm steel flat bar cut to profile mounted to wall with 6mm thick steel fixing plate welded to two steel flat bars with 4mm fillet welds chemical anchors (bolts included), 12mm dia. Mild steel round spaced at 150mm centres, pedrilled openning 3No. In each upright, top rail to be 30mm thick x 100mm wide steel					
1	Balustrading and handrails approximately 1000mm high fixed to concrete.	m	75			
	WELDED SCREENS, GATES, ETC.					
	Gates to external doors					
2	Single gate and frame 813 x 2032mm high of 25 x 25x 2mm hollow section frame and 25 x 25x 2mm hollow section horizontal middle rail filled in with 12 x 12mm square section vertical rails at 75mm centres and fitted with a pair of suitable hinges welded to frame and with locking mechanism for padlock all in and including outer frame of 25 x 25 x 2mm hollow section welded frame bolted to brickwork.	No	17			
	REPAIR STEEL DOOR FRAMES					
	Repair mild steel door frame					
3	Repair to existing door frame and including replacing striking plates	No	22			
	Carried To Section Summary			R		
	Section No. 2					
	Bill No. 10					
	Metalwork					
	56					

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1		Unit	Quantity	Rate	Amount	I
	SECTION NO. 2					
	Alterations and Renovations (12CR, 33Enviro-loo)					
	BILL NO. 11					
	PLASTERING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	<u>SCREEDS</u>					
	Screeds on concrete:					
	Screeds of wood floated on concrete to receive					
	ceramic tiles:					
1	30mm Thick on floors and landings.	m²	919			
	GRANOLITHIC					
	Untinted wood floated granolithic on concrete					
2	30mm Thick on floors and landings.	m²	180			
	INTERNAL PLASTER					
	Cement plaster steel trowelled, on brickwork					
3	On walls	m²	1 454			
	EXTERNAL PLASTER					
	Cement plaster wood floated, on brickwork					
4	On walls	m²	1 071			
4			10/1			
	Carried To Section Summary			R		
	Section No. 2			N		
	Bill No. 11					
	Plastering					
	57					
						96

I		Unit	Quantity	Rate	Amount
	SECTION NO. 2				
	Alterations and Renovations (12CR, 33Enviro-loo)				
	BILL NO. 12				
	TILING				
	PREAMBLES				
	For preambles see "Specification of materials and methods to be used - PW371				
	FLOOR TILING				
	300 x 300 x 11.5mm ceramic floor tiles (Prime Cost amount R250.00/m2 delivered excluding vat) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing compound				
1	On floors and landings.	m²	919		
2	Skirting formed of ceramic tile cut to 300 x 75mm high	m	495		
	Carried To Section Summary			R	
	Section No. 2			ĸ	
	Bill No. 12				
	Tiling 58				
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	Unit	Quantity	Rate	Amount
SECTION NO. 2				
Alterations and Renovations (12CR, 33Enviro-loo)				
BILL NO. 13				
PLUMBING AND DRAINAGE				
PREAMBLES				
For preambles see "Specification of materials and methods to be used - PW371				
SUPPLEMENTARY PREAMBLES				
Concrete pipes:				
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.				
uPVC pressure pipes and fittings:				
Pipes for water supply shall be of the class stated.				
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.				
Pipes of 50mm 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.				
Copper pipes:				
Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground.				
Fixing of pipes				
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level				
Carried to Collection Section No. 2			R	
Bill No. 13 Plumbing And Drainage				
59				

				Thaban	e PS
1	Unit	Quantity	Rate	Amount	I
Reducing fittings:					
Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm 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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for					
extra bushes, reducers, etc will be entertained. Wire gratings:					
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.					
Septic tanks:					
Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.					
Exposed concrete surfaces:					
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.					
Excavations:					
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.					
'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.					
Laying, backfilling, bedding, etc of pipes:					
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.					
Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.					
Flush pans:					
Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.					
Carried to Collection Section No. 2 Bill No. 13 Plumbing And Drainage			R		
Plumbing And Drainage 60					
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					Thabane PS
	I	Unit	Quantity	Rate	Amount
	<u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u>				
	Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.				
	Waste unions:				
	Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.				
	RAINWATER DISPOSAL				
	Approved .6mm galvanised sheet iron with "chromadek" finish ,in:				
1	100 x 100mm Eaves gutters	m	370		
2	Extra over eaves gutter for stopped end	No	44		
3	Extra over eaves gutter for outlet for 75mm pipe.	No	64		
4	75mm Diameter rainwater pipes.	m	256		
5	Extra over rainwater pipe for bend.	No	64		
6	Extra over rainwater pipe for shoe.	No	64		
	ENVIRO-LOO SET				
	Enviro-loo set				
7	Enviro-loo set supplied and installed complete.	No	5		
8	Allow for training	Item			5 000 00
	FIRE APPLIANCES ETC.				
	'Chubb' or equal approved:				
9	9kg Dry chemical fire extinguisher plugged.	No	16		
	RAINWATER HARVESTING				
	Rainwater Harvesting				
10	Allow a sum of R15 000.00/each (Fifteen Thousand Rands) for provision of 5000I Jojo or equal approved tank complete with lid, fittings, tap, concrete plinth as per Architect details	No	8		
	Carried to Collection Section No. 2			R	
	Bill No. 13				
	Plumbing And Drainage				
	61				

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1		1	Amount	I
BILL NO. 13				
	AGE			
PLUMBING AND DRAIN	AGE			
COLLECTION				
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Section No. 2 Bill No. 13				
Plumbing And Drainage				
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		Unit	Quantity	Rate	Thaban Amount	e PS
1	SECTION NO. 2 Alterations and Renovations (12CR. 33Enviro-loo) BILL NO. 14 GLAZING PREAMBLES For preambles see "Specification of materials and methods to be used - PW371 GLAZING TO STEEL WITH PUTTY Smm Clear float glass: Panes not exceeding 0,1m2.	m²	122			
	Carried To Section Summary			R		
	Section No. 2 Bill No. 14 Glazing 63					

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	I
	SECTION NO. 2					
	Alterations and Renovations (12CR, 33Enviro-loo)					
	<u>BILL NO. 15</u> PAINTWORK					
	PAINTWORK					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	ON FLOATED PLASTER					
	Prepare , etc as specified and apply two coats of super acrylic paint:					
1	On interior walls.	m²	1 454			
2	On exterior walls.	m²	1 071			
	ON FIBRE-CEMENT, ETC.					
	Prepare , etc as specified and apply two coats of					
	super acrylic Pva paint:					
3	On ceilings and cornices.	m²	1 270			
4	On fascias and barge boards.	m	370			
	ON METAL					
	Prepare, etc as specified and apply two coats of gloss enamel paint on :					
5	Door frames	m²	32			
6	On windows with burglar bars (both sides measured).	m²	210			
7	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area).	m²	56			
8	Palisade Fence (both sides measured over the full flat area).	m²	4 037			
	Inside eaves gutters					
9	Inside eaves gutters with waterproofing paint	m²	130			
	ON WOOD, WOOD BOARD					
	Prepare, etc as specified and apply two coats of polyurethane suede varnish:					
10	On general surfaces of doors.	m²	56			
	Carried to Collection			R		
	Section No. 2					
	Bill No. 15					
	Paintwork 64					
	04					102

I		Unit	Quantity	Rate	Amount	
	ON EXISTING WOOD SURFACES					
	<u>One coat alkyd based universal undercoat and one</u> coat superior quality universal enamel paint					
11	Doors	m²	17			
	Carried to Collection			R		
	Section No. 2 Bill No. 15					
	Paintwork					
	65					

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Amount <u>BILL NO. 15</u> PAINTWORK **COLLECTION** Page No Brought Forward from Page 64 65 Carried To Section Summary R Section No. 2 Bill No. 15 Paintwork 66

		1	Amount	
	SECTION NO. 2			
	Alterations and Renovations (12CR, 33Enviro-loo)			
	SECTION SUMMARY			
Bill No.		Page		
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3	EARTHWORKS	45		
4	CONCRETE, FORMWORK AND REINFORCEMENT	46		
5	MASONRY	47		
6	ROOF COVERINGS	48		
7	CARPENTRY AND JOINERY	51		
8	CEILINGS PARTITIONS AND ACCESS FLOORING	52		
9	IRONMONGERY	55		
10	METALWORK	56		
11	PLASTERING	57		
12	TILING	58		
13	PLUMBING AND DRAINAGE	62		
14	GLAZING	63		
15	PAINTWORK	66		
	Carried to Final Summary	R		
	Section No. 2			
	SECTION SUMMARY			
	67			

# **SECTION NO. 3**

# 1 x 5 Classroom Block

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I	I	Unit	Quantity	Rate	Amount	1
	SECTION NO. 3					
	<u>1 x 5 Classroom Block</u>					
	BILL NO. 2					
	FOUNDATIONS					
	PREAMBLES					
	For preambles see " Specification of materials and methods to be used - PW371"					
	SITE CLEARANCE ETC					
	Site clearance:					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	M²	580			
	REMOVAL OF TREES, ETC.					
	Taking out and removing, grubbing up roots and filling in holes:					
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	1			
	EXCAVATION, FILLING, ETC OTHER THAN BULK					
	Excavation in earth not exceeding 2m deep:					
3	Trenches.	m³	157			
	Extra over trench and hole excavations in earth for excavation:					
4	Soft rock.	m³	15			
5	Hard rock.	m³	8			
	Risk of collapse of excavations:					
6	Sides of trench and hole excavations not exceeding 1,5m deep.	m²	418			
	Keeping excavations free of water:					
7	Keeping excavations free of all water other than subterranean water.	Item				
	Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:					
8	Backfilling to trenches, holes, etc.	m³	72			
9	Under floors, steps, pavings, etc.	m³	62			
	Carried to Collection			R		
	Section No. 3			, in the second se		
	Bill No. 2					
	Foundations					
	69					
						4.00

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		Unit	Quantity	Rate	Amount	
	Earth filling supplied by the Contractor and compacted to 95% Mod AASHTO density):					
10	Under floors, steps, pavings, etc.	m³	103			
	Cart Away					
	Extra over excavation for cart away:					
11	Surplus material from excavations on site to a dumping site be located by the contractor	m³	23			
	Coarse river sand filling supplied by the Contractor:					
12	Under floors etc.	m³	21			
	COMPACTION					
	Compaction of surfaces:					
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90%.Mod AASHTO density.	m²	410			
	Prescribed density tests on filling:					
14	Modified AASHTO Density test.	No	15			
	SOIL POISONING					
	Soil insecticide:					
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	410			
16	To bottoms and sides of trenches etc.	m²	585			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 2					
	Foundations 70					
I			I	I	1	100

Amount <u>BILL NO. 2</u> **FOUNDATIONS COLLECTION** Page No Brought Forward from Page 69 70 Carried To Section Summary R Section No. 3 Bill No. 2 Foundations 71

**SECTION NO. 3** 1 x 5 Classroom Block BILL NO. 3 CONCRETE, FORMWORK AND REINFORCEMENT PREAMBLES For preambles see "Specification of materials and methods to be used - PW371" **UNREINFORCED CONCRETE** 15Mpa/19mm Concrete Aprons cast in panels. 12 m³ Ramps. 3 m³ Thickening down the edge of apron 150mm deep, 200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling etc 119 m **REINFORCED CONCRETE** 25 MPa/19mm Concrete: Footings. m³ 37 Surface beds cast in panels on waterproofing. m³ 48 **TEST BLOCKS** Test blocks: Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional). Sets 10 Paving to falls. m² 120 Ramps to falls. m<sup>2</sup> 4 FINISHING TOP SURFACE OF CONCRETE ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP Work Group No 111) **Rough Formwork to Sides:** Edges and reveals not exceeding 300mm high or wide. 124 m **MOVEMENT JOINTS ETC** Two layers of .5mm galvanised mild steel slip joints between horizontal concrete and brick surfaces including cement mortar bed: Not exceeding 300mm wide. m 60 Carried to Collection R Section No. 3 Bill No. 3

1

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10

Concrete, Formwork And Reinforcement

Unit

Quantity

Rate

Thabane PS

Amount

					Thabar	ie PS
1		Unit	Quantity	Rate	Amount	1
	Expansion joints with bitumen impregnated					
	softboard between vertical concrete and brick					
	surfaces:					
11	12mm Joints not exceeding 300mm high.	m	75			
	Dividing Strips ,etc					
12						
	3x 6mm anchors	m	5			
	REINFORCEMENT(PROVISIONAL)					
	Fabric reinforcement:					
13		m²	410			
	slabs, etc.	n-	410			
	Steel reinforcement to structural concrete work:					
14	Various sizes	Tonnes	6			
						<u> </u>
	Carried to Collection			R		
	Section No. 3					
	Bill No. 3					
	Concrete, Formwork And Reinforcement					
	73					

Amount BILL NO. 3 CONCRETE, FORMWORK AND REINFORCEMENT **COLLECTION** Page No Brought Forward from Page 72 73 Carried To Section Summary R Section No. 3 Bill No. 3 Concrete, Formwork And Reinforcement 74

					Thabar	ne PS
1	1	Unit	Quantity	Rate	Amount	I
	SECTION NO. 3					
	<u>1 x 5 Classroom Block</u>					
	BILL NO. 4					
	MASONRY					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371"					
	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.					
	Face bricks:					
	Bricks shall be ordered timeously to obtain uniformity in size and colour.					
	Pointing:					
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.					
	SAMPLES					
	Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.					
	BRICKWORK IN FOUNDATIONS (PROVISIONAL)					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:					
1	One brick walls	m²	217			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFX bricks (14 MPa nominal					
	compressive strength) in Class I mortar:					
2	One brick walls	m²	671			
	BRICKWORK SUNDRIES					
	Brickwork reinforcement:					
3	150mm Wide reinforcement built in horizontally.	m²	2 930			
-	Turning pieces:					
4		m	FC			
4	220mm Wide turning piece to lintels etc.	m	56			
				_		
	Carried to Collection Section No. 3			R		<u> </u>
	Bill No. 4					
	Masonry					
	75					
I			1	I	I	

I		Unit	Quantity	Rate	Amount	e PS
	Galvanised wire ties etc:					
5	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.(Provisional)	No	120			
	Galvanised hoop iron cramps, ties, etc:					
6	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork.(Provisional)	No	120			
	Prestressed fabricated concrete lintels including necessary temporary supports					
7	115 x 100mm Lintels in lengths not exceeding 3m	m	5			
	FACE BRICKWORK					
	Face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:					
8	Extra over brickwork for face brickwork.	m²	315			
9	Extra over brickwork for face brickwork in foundations (Provisional).	m²	54			
10	Half brick in facings in beamfilling	m²	36			
	FACE BRICKWORK COPINGS, SILLS, ETC.					
	Brick-on-edge header course copings, sills, etc of face bricks (Prime cost R3500/1000 delivered to site excluding VAT) and pointed with recessed joints on all exposed faces:					
11	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit.	m	61			
12	230mm Wide sill set sloping and slightly projecting.	m	56			
13	Coping on top of one brick wall pointed on exposed faces	m	54			
	NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS					
	Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:					
14	12 x 152mm Wide sills set flat and slightly projecting.	m	56			
	Carried to Collection Section No. 3 Bill No. 4 Masonry 76			R		
			. I	I		445

Amount <u>BILL NO. 4</u> MASONRY **COLLECTION** Page No Brought Forward from Page 75 76 Carried To Section Summary R Section No. 3 Bill No. 4 Masonry 77

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	1
	SECTION NO. 3					
	<u>1 x 5 Classroom Block</u>					
	BILL NO. 5					
	WATERPROOFING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:					
1	In walls.	m²	50			
	One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:					
2	Under surface beds.	m²	410			
	JOINT SEALANTS ETC					
	<u>silicone sealing compound including backing cord,</u> bond breaker,primer,etc					
3	12 x 20mm in expansion joints in floors including raking out expansion joint filler as necessary (Provisional)	m	118			
4	12 x 20mm in vertical expansion joints in walls including raking out expansion joint filler as necessary	m	48			
	Carried To Section Summary			R		
	Section No. 3 Bill No. 5 Waterproofing 78					
I	70				1	117

					Thabane	e PS
1		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	<u>1 x 5 Classroom Block</u>					
	BILL NO. 6					
	ROOF COVERINGS					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW 371					
	PROFILED METAL SHEETING AND ACCESSORIES					
	.5mm "Klip-lok light industrial" galvanised troughed sheet steel with "chromadek" finish one side,fixed to 76 x 50mm purlin complete under 5year quarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer					
1	Roof covering with pitch not exceeding 25 degrees.	m²	555			
	<u>.8mm galvanised sheet iron, with "chromadek" one</u> side in:					
2	Standard type FK3 ridge or hip flashing	m	54			
	Carried To Section Summary Section No. 3 Bill No. 6 Roof Coverings 79			R		

				Thabar	ne PS
1	Unit	Quantity	Rate	Amount	1
SECTION NO. 3					
<u>1 x 5 Classroom Block</u>					
BILL NO. 7					
CARPENTRY AND JOINERY					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Particle board:					
Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.					
<u>Joinery:</u>					
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.					
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.					
Fixing:					
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.					
Decorative laminate finish:					
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.					
PREFABRICATED ROOF TRUSSES, ETC.					
Plate nailed timber roof truss construction:					
The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantee that the trusses are designed, manufactured, and erected, to support the roof coverings specified. The quarntee shall be valid for 10(ten) years .					
Carried to Collection Section No. 3 Bill No. 7			R		
Carpentry And Joinery 80					
00				II	

		Unit	Quantity	Rate	Amount	ie PS
		Unit	Quantity	ruto	, ano and	
	Sawn softwood:					
1	Roof construction to double pitched roof with two hipped ends approximately 483m2 (five classrooms) on plan					
	overall including trusses, rafters, purlins, permanent bracing, etc (measured flat).	NI.				
		No	1			
2	<u>Sawn softwood:</u> 114 x 38mm Wall plates.	m	119			
2		m	119			
3	114 x 38mm rafters exceeding 2.4m and not exceeding 3.9m.	m	45			
4	50 x 76mm purlins.	m	240			
5	50 x 220mm support beam.	m	54			
	ROOF SUNDRIES		0-1			
	Sundries:					
6	Two coats creosote on sawn timbers.	m²	41			
	EAVES, VERGES, ETC					
	Everite FC77 or equal approved pressed fibre-					
	cement:					
7	10 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips.	m	119			
	Wrought meranti doors:					
	Wrought meranti doors hung to steel frames:					
8	44mm Framed batten door 914 x 2032mm high of 44 x					
	150m top rail and stiles ,16 x 150mm middle ledge and braces and 22 x 220mm bottom rail, filled in with					
	22mmV-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let					
	into and including rebates all round.	No	5			
	DOORS ETC					
	40mm semi-solid flush doors with veneer					
9	40mm Door 813 x 2032mm high	No	5			
10	Shelving 400mm wide made up of 25mm thick hardwood top					
	and 250 x 250mm high triangular mild steel brackets bolted to					
	wall	m	52			
	FITTINGS					
	Carried to Collection			R		
	Section No. 3			IX.		
	Bill No. 7					
	Carpentry And Joinery 81					
	81				II	

		1	Amount	
BILL NO. 7 CARPENTRY AND JOINE COLLECTION	<u>ERY</u>	Page No		
	Brought Forward from Page	80 81		
Section No. 3 Bill No. 7 Carpentry And Joinery	Carried To Section Summary 82	R		

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	<u>1 x 5 Classroom Block</u>					
	BILL NO. 8					
	CEILINGS PARTITIONS AND ACCESS FLOORING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.					
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.					
	INSULATION					
	Aerolite insulation:					
1	100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m²	410			
	Wrought softwood					
2	19 x 76mm cornices nailed	m	265			
	NAILED UP AND SCREW UP CEILINGS					
	6mm Everite Nutec or equal approved fibre-cement boards with H-type steel cover strips over joints:					
3		m²	410			
4	Extra over ceiling for hinged trap door size 610 x 610mm	No	5			
4		INU	5			
	Contrad To Cootian Outpart			-		
	Carried To Section Summary Section No. 3			R		
	Bill No. 8					
	Ceilings Partitions And Access Flooring					
	83					
						400

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	1 x 5 Classroom Block					
	<u>BILL NO. 9</u> IRONMONGERY					
	IRONMONGERT					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Finishes to ironmongery:					
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.					
	CATCHES, CABIN HOOKS, ETC					
	Solid or equal approved:					
1	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	5			
	LOCKS					
	Solid or equal approved:					
2	"Code 630" or equal approved padlock.	No	5			
	'Solid" or equal approved					
3	CZ6822461 "Gower" Four lever lockset.	No	10			
Ū			10			
	<u>SUNDRIES</u>					
	Solid or equal approved:	NIa	10			
4	38mm Diameter rubber door stop plugged.	No	10			
	<u>PINNING BOARDS, WRITING BOARDS,</u> PROJECTION SCREENS, ETC					
F	<u>Vitrex or equal approved:</u> Pinning board 2400 x 1200mm high plugged.	No	10			
5			_			
6	White magnetic Writing Board 4000mm x 1200mm	No	5			
	Carried to Collection			R		
	Section No. 3			К		<u> </u>
	Bill No. 9					
	Ironmongery					
	84					

					Thabar	ne PS
1		Unit	Quantity	Rate	Amount	I
	SHELVES ETC					
	Proprietary type steel shelving with standard powder					
	coated finish					
7	Heavy duty double slot wall band 1800mm long,					
	plugged	No	87			
8	Heavy duty shelf bracket for 300mm shelf plugged	No	348			
						<u> </u>
	Carried to Collection			R		
	Section No. 3			-		
	Bill No. 9					
	Ironmongery					
	85					

Amount <u>BILL NO. 9</u> **IRONMONGERY COLLECTION** Page No Brought Forward from Page 84 85 Carried To Section Summary R Section No. 3 Bill No. 9 Ironmongery 86

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	1 x 5 Classroom Block					
	<u>BILL NO. 10</u> METALWORK					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Descriptions of bolts shall be deemed to include nuts and washers.					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include					
	nuts, washers and mortices in brickwork or concrete.					
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.					
	STEEL BALUSTRADES AND HANDRAILS					
	Mild steel handrails and balustrades fixed to base plates constructed of two number 6mm steel flat bar cut to profile mounted to wall with 6mm thick steel fixing plate welded to two steel flat bars with 4mm fillet welds chemical anchors (bolts included), 12mm dia. Mild steel round spaced at 150mm centres, pedrilled openning 3No. In each upright, top rail to be 30mm thick x 100mm wide steel					
1	Steel handrails and balustrades 1000mm high	m	10			
	Mild Steel Poles					
2	76 x 76 x 3mm mild steel square tubing columns 3m high secured on top of foundation with 5mm thick fixing plate including 10mm dia 4No. bolts	No	17			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 10					
	Metalwork					
	87					
						106

		1.1	Quantity	Data	Thaban	e PS
		Unit	Quantity	Rate	Amount	
	COMBINATION DOOR FRAME WITH SECURITY GATE					
	Classroom combination door frame with security gate					
3	"Code 914" door frame size 914 x 2032mm high fitted with three (3) parliament hinges, complete with single security gate size 914 x 2032mm high overall formed of 25 x 25 x 2mm tubular section frame mitred and welded at angles and two 25 x 25 x 2mm tubular section horizontal middle rails, gate filled in with 12 x 12 x 12mm square section vertical rails at 100mm centres and fitted with locking bolt for padlock, frame formed of 25 x 38 x 2mm tubular section stiles and top rail mitred and welded at angles and fitted with three hinges welded to gate and frame, frame factory welded at maximum 250mm centres to door frame	No	5			
	PRESSED STEEL DOOR FRAMES					
	1,2mm Rebated frames suitable for one brick walls:					
4	Frame for door 813 x 2032mm high.	No	10			
-	STEEL WINDOWS, DOORS, ETC.					
	Standard residential windows with 12 x 12(B33)					
	solid burglar bars to all sashes:					
5	Window Code 5/2 (NTY or equal approved), 1143 x 1332mm high.	No	45			
6	Window Code 5 (NTY or equal approved), 1143 x 846mm high.	No	6			
	STEEL LOUVRES,ETC					
	Purpose made louvres:					
7	Triangular shaped (on elevation) residential section louvred ventilators 3138 wide (at the horizontal bottom) x 571mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No. 256 galvanised mesh mosquito gauze,fixed with and including 3 x 20mm steel flat section cover strips screwed	No	2			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 10					
	Metalwork 88					
I					1	

Amount <u>BILL NO. 10</u> **METALWORK COLLECTION** Page No Brought Forward from Page 87 88 Carried To Section Summary R Section No. 3 Bill No. 10 Metalwork 89

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	<u>1 x 5 Classroom Block</u>					
	BILL NO. 11					
	PLASTERING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SCREEDS					
	Screeds on concrete:					
	Screeds of wood floated on concrete to receive ceramic tiles:					
1	30mm Thick on floors to receive ceramic tiling.	m²	343			
	GRANOLITHIC					
	Untinted wood floated granolithic on concrete					
2	30mm Thick on floors and landings.	m²	66			
	INTERNAL PLASTER					
	Cement plaster steel trowelled, on brickwork					
3	On walls	m²	657			
4	On narrow widths not exceeding 300mm wide	m²	24			
5	30 x 3mm Flat section brass dividing strips between different floor finishes.	m	5			
	CORNER PROTECTORS, DIVIDING STRIPS, ETC					
	(CPAP Work Group No 136)					
	Carried To Section Summary			R		
	Section No. 3					
	Bill No. 11					
	Plastering					
	90					
						120

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	<u>1 x 5 Classroom Block</u>					
	BILL NO. 12					
	TILING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	FLOOR TILING					
	300 x 300 x 11.5mm ceramic floor tiles (Prime Cost					
	amount R250.00/m2 excluding vat) fixed with adhesive to screed (screed elsewhere) and flush					
	pointed with tinted waterproof jointing compound					
1	On floors and landings.	m²	343			
2	Skirting formed of ceramic tile cut to 300 x 75mm high	m	265			
						<u> </u>
	Carried To Section Summary			R		
	Section No. 3					
	Bill No. 12					
	Tiling					
	91					

				Thabar	ie PS
1	Unit	Quantity	Rate	Amount	1
SECTION NO. 3					
<u>1 x 5 Classroom Block</u>					
BILL NO. 13					
PLUMBING AND DRAINAGE					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Concrete pipes:					
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.					
uPVC pressure pipes and fittings:					
Pipes for water supply shall be of the class stated.					
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.					
Pipes of 50mm 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.					
Copper pipes:					
Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground.					
Fixing of pipes					
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level					
Carried to Collection Section No. 3 Bill No. 13			R		
Plumbing And Drainage					
92					

	Unit	Quantity	Rate	Amount	e PS
	•••••				
Reducing fittings:					
Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm 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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.					
Wire gratings:					
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.					
Septic tanks:					
Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.					
Exposed concrete surfaces:					
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.					
Excavations:					
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.					
'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.					
Laying, backfilling, bedding, etc of pipes:					
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.					
Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.					
Flush pans:					
Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.					
Carried to Collection Section No. 3 Bill No. 13 Plumbing And Drainage			R		
93					
		ı		11	

Unit Quantity Rate Amount Stainless steel basins, sinks, wash troughs, urinals, etc: Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable. Waste unions: Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings. **RAINWATER DISPOSAL** Approved .6mm galvanised sheet iron with "chromadek" finish ,in: 100 x 100mm Eaves gutters 119 1 m 2 Extra over eaves gutter for angle/corner. No 4 3 Extra over eaves gutter for outlet for 75mm pipe. 30 No 75mm Diameter rainwater pipes. 4 m 120 5 Extra over rainwater pipe for bend. No 30 6 Extra over rainwater pipe for shoe. No 30 FIRE APPLIANCES ETC. 'Chubb' or equal approved: 9kg Dry chemical fire extinguisher. 7 No 5 **RAINWATER HARVESTING Rainwater Harvesting** 8 Allow a sum of R15 000.00/each (Fifteen Thousand Rands) for provision of 5000l Jojo or equal approved tank complete with lid, fittings, tap, concrete plinth as per Architect details 2 No Carried to Collection R Section No. 3 Bill No. 13 Plumbing And Drainage 94

			Thaban	e PS
1			Amount	
BILL NO. 13				
PLUMBING AND DRAINAGE				
COLLECTION				
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	Brought Forward from Page	92		
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Carried To Sectio	n Summary	R		
Section No. 3	,			
Bill No. 13				
Plumbing And Drainage				
	95			
1		I	1	I

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	1
	<u>SECTION NO. 3</u> <u>1 x 5 Classroom Block</u> <u>BILL NO. 14</u> <u>GLAZING</u>					
	PREAMBLES For preambles see "Specification of materials and methods to be used - PW371 GLAZING TO STEEL WITH PUTTY					
1	5mm Clear float glass: Panes not exceeding 0,1m2.	m²	55			
'	5mm obscure glass:					
2	Panes not exceeding 0,1m2.	m²	25			
	Carried To Section Summary			R		
	Section No. 3 Bill No. 14 Glazing			ĸ		
	96					
						125

					Thaba	ne PS
I		Unit	Quantity	Rate	Amount	I
	SECTION NO. 3					
	1 x 5 Classroom Block					
	<u>BILL NO. 15</u> <u>PAINTWORK</u>					
	PAINTWORK					
	PREAMBLES					
	Description					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	Description					
	For preambles see "Specification of materials and methods to be used - PW371					
	ON NEW INTERNAL FLOATED PLASTER SURFACES					
	One coat alkali resistant primer and two coats PVA emulsion paint for interior use					
1	Walls	m²	657			
	ON FIBRE-CEMENT, ETC.					
	Prepare , etc as specified and apply two coats of super acrylic Pva paint:					
2	On ceilings and cornices.	m²	410			
3	On fascias and barge boards.	m	119			
	<u>ON METAL</u>					
	Prepare, etc as specified and apply two coats of gloss enamel paint on :					
4	Door frames	m²	6			
5	On windows with burglar bars (both sides measured).	m²	58			
6	On gates, grilles, burglar screens, balustrades, etc (both					
U	sides measured over the full flat area).	m²	17			
7	Steel poles	m	21			
	Eaves Gutter					
8	Inside eaves gutter with waterproofing based paint	m²	42			
	Carried to Collection			R		<u> </u>
	Section No. 3 Bill No. 15					
	Paintwork					
	97					
1			r I	I		136

Unit Quantity Amount Rate Prepare,etc as specified and apply two coats of super acrylic Pva paint on: General surfaces of doors (interior). 7 9 m² ON WOOD, WOOD BOARD Prepare, etc as specified and apply two coats of polyurethane suede varnish: 10 On general surfaces of doors. m² 7 11 On laminated beam. m² 13 m² 57 On shelves. 12 Carried to Collection R Section No. 3 Bill No. 15 Paintwork

Amount <u>BILL NO. 15</u> PAINTWORK **COLLECTION** Page No Brought Forward from Page 97 98 Carried To Section Summary R Section No. 3 Bill No. 15 Paintwork 99

Amount

			Amount
	SECTION NO. 3		
	<u>1 x 5 Classroom Block</u>		
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2	FOUNDATIONS	71	
3	CONCRETE, FORMWORK AND REINFORCEMENT	74	
4	MASONRY	77	
5	WATERPROOFING	78	
6	ROOF COVERINGS	79	
7	CARPENTRY AND JOINERY	82	
8	CEILINGS PARTITIONS AND ACCESS FLOORING	83	
9	IRONMONGERY	86	
10	METALWORK	89	
11	PLASTERING	90	
12	TILING	91	
13	PLUMBING AND DRAINAGE	95	
14	GLAZING	96	
15	PAINTWORK	99	
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	100		

# **SECTION NO. 4**

# 1 x 3 Grade R Classroom Block

I		Unit	Quantity	Rate	Amount	e PS
	SECTION NO. 4					
	1 x 3 Grade R Classroom Block					
	BILL NO. 1					
	FOUNDATIONS					
	PREAMBLES					
	For preambles see " Specification of materials and methods to be used - PW371"					
	SITE CLEARANCE ETC					
	Site clearance:					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m²	410			
	REMOVAL OF TREES, ETC.					
	Taking out and removing, grubbing up roots and filling in holes:					
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	1			
	EXCAVATION, FILLING, ETC OTHER THAN BULK					
	Excavation in earth not exceeding 2m deep:					
3	Trenches.	m³	160			
	Extra over trench and hole excavations in earth for excavation:					
4	Soft rock.	m³	16			
5	Hard rock.	m³	9			
	Risk of collapse of excavations:					
6	Sides of trench and hole excavations not exceeding 1,5m deep.	m²	458			
	Keeping excavations free of water:					
7	Keeping excavations free of all water other than subterranean water.	Item				
	Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:					
8	Backfilling to trenches, holes, etc.	m³	51			
9	Under floors, steps, pavings, etc.	m³	83			
	Carried to Collection			R		
	Section No. 4					
	Bill No. 1					
	Foundations 102					
	102				I	

					Thabar	ie FS
		Unit	Quantity	Rate	Amount	
	Earth filling supplied by the Contractor and compacted to 95% Mod AASHTO density):					
10	Under floors, steps, pavings, etc.	m³	149			
	Cart Away					
	Extra over excavation for cart away:					
11	Surplus material from excavations on site to a dumping site be located by the contractor	m³	26			
	Coarse river sand filling supplied by the Contractor:					
12	Under floors etc.	m³	25			
	COMPACTION					
	Compaction of surfaces:					
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90%.Mod AASHTO density.	m²	342			
	Prescribed density tests on filling:					
14	Modified AASHTO Density test.	No	16			
	SOIL POISONING					
	Soil insecticide:					
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	342			
16	To bottoms and sides of trenches etc.	m²	641			
	Carried to Collection Section No. 4 Bill No. 1 Foundations 103			R		

Amount <u>BILL NO. 1</u> **FOUNDATIONS COLLECTION** Page No Brought Forward from Page 102 103 Carried To Section Summary R Section No. 4 Bill No. 1 Foundations 104

					Thabar	ne PS
1		Unit	Quantity	Rate	Amount	I
	SECTION NO. 4					
	1 x 3 Grade R Classroom Block					
	BILL NO. 2					
	CONCRETE, FORMWORK AND REINFORCEMENT					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371"					
	UNREINFORCED CONCRETE					
	15Mpa/19mm Concrete					
1	Aprons cast in panels.	m³	8			
2	Ramps.	m³	5			
3	Thickening down the edge of apron 150mm deep,					
З	200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling etc	m	84			
	25MPa/19mm Concrete:					
4	Surface beds cast in panels on waterproofing.	m³	34			
5	Footings.	m³	40			
	TEST BLOCKS					
	Test blocks:					
6	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional).	Sets	10			
	FINISHING TOP SURFACE OF CONCRETE					
7	Paving to falls.	m²	89			
	ROUGH FORMWORK (DEGREE OF ACCURACY III)					
	Rough Formwork to Sides:					
8	Edges and reveals not exceeding 300mm high or wide.	m	104			
0			104			
	MOVEMENT JOINTS ETC					
	Two layers of .5mm galvanised mild steel slip joints between horizontal concrete and brick surfaces including cement mortar bed:					
9	Not exceeding 300mm wide.	m	90			
	5					
						<u> </u>
	Carried to Collection			R		
	Section No. 4					
	Bill No. 2					
	Concrete, Formwork And Reinforcement 105					
	105				1	1 1 1

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	I
	Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:					
10	12mm Joints not exceeding 300mm high.	m	90			
	Dividing Strips ,etc					
11		m	9			
	REINFORCEMENT(PROVISIONAL)					
	Mild steel reinforcement to structural concrete work:					
12	10mm Diameter bars.	Tonnes	1.00			
	High tensile steel reinforcement to structural concrete work:					
13	20mm Diameter bars.	Tonnes	1.00			
14	16mm Diameter bars.	Tonnes	3.00			
15	12mm Diameter bars.	Tonnes	1.00			
	Fabric reinforcement:					
16	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m²	342			
	Carried to Collection			-		
	Section No. 4 Bill No. 2 Concrete, Formwork And Reinforcement			R		
	106					

Amount **BILL NO. 2** CONCRETE, FORMWORK AND REINFORCEMENT **COLLECTION** Page No Brought Forward from Page 105 106 Carried To Section Summary R Section No. 4 Bill No. 2 Concrete, Formwork And Reinforcement 107

Unit     Quantity     Rate     Amount       SECTION NO.4     1x3 Grade R Classroom Block     Image: Section No.4     Image: Section No.4       1x3 Grade R Classroom Block     Bill.NO.3     MASONRY     Image: Section No.4       PERAMBLES     For preambles sec "Specification of materials and methods to be used - PW371"     Image: Section No.4       Sizes in descriptions:     Where sizes in descriptions are given in brick units, one brick shall represent the length and 'hall brick' the width of a brick.     Image: Section No.4       Bircks shall proceed timeously to obtain uniformity in size and colour.     Image: Section No.4     Image: Section No.4       Descriptions     Image: Section No.4     Image: Section No.4     Image: Section No.4       Bircks shall be ordered timeously to obtain uniformity in size and colour.     Image: Section No.4     Image: Section No.4       Descriptions     Image: Section No.4     Image: Section No.4     Image: Section No.4       Bircks shall be ordered timeously to obtain uniformity in size and colour.     Image: Section No.4     Image: Section No.4       Bircks shall be ordered to include square recessed, Nolow Processed bearing shall consist of 30 units to be used in walls descripted as 'load bearing's shall consist of 30 units to be used in walls descripted as 'load bearing's shall consist of 30 units from every 30 000 units delivered to size.     Image: Section No.4       Birckwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:     Image: Section No.4     <						Thabar	ne PS	
1 x 3 Grade R Classroom Block         BiLLN0.3         MASONRY         PREAMBLES         For preambles see "Specification of materials and methods to be used - PW371"         BRICKWORK         Sizes in descriptions;         Where sizes in descriptions are given in brick units, 'one brick' shall be ordered timeously to obtain uniformity in size and colour.         Brick Shall be ordered timeously to obtain uniformity in size and colour.         Descriptions of recessed, weathered pointing, etc.         Samples of all masonry building units, except those for wells described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.         BRICKWORK IN FOUNDATIONS (PROVISIONAL) BRICKWORK IN FOUNDATIONS (PROVISIONAL) BRICKWORK IN FOUNDATIONS (PROVISIONAL) BRICKWORK IN POUNDATIONS (PROVISIONAL) BRICKWORK INS DEPERSTRUCTURE Brickwork of MFX bricks (14 MPa nominal compressive strength) in Class I mortar: 3 Half brick walls       m <sup>2</sup> 2 One brick walls       m <sup>2</sup> 3 Half brick walls       m <sup>2</sup> 4 Ore brick walls       m <sup>2</sup> 5 RICKWORK SUNDRIES BRICKWORK A BALL       R	I		Unit	Quantity	Rate	Amount		
1 x 3 Grade R Classroom Block         BiLLN0.3         MASONRY         PREAMBLES         For preambles see "Specification of materials and methods to be used - PW371"         BRICKWORK         Sizes in descriptions;         Where sizes in descriptions are given in brick units, 'one brick' shall be ordered timeously to obtain uniformity in size and colour.         Brick Shall be ordered timeously to obtain uniformity in size and colour.         Descriptions of recessed, weathered pointing, etc.         Samples of all masonry building units, except those for wells described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.         BRICKWORK IN FOUNDATIONS (PROVISIONAL) BRICKWORK IN FOUNDATIONS (PROVISIONAL) BRICKWORK IN FOUNDATIONS (PROVISIONAL) BRICKWORK IN POUNDATIONS (PROVISIONAL) BRICKWORK INS DEPERSTRUCTURE Brickwork of MFX bricks (14 MPa nominal compressive strength) in Class I mortar: 3 Half brick walls       m <sup>2</sup> 2 One brick walls       m <sup>2</sup> 3 Half brick walls       m <sup>2</sup> 4 Ore brick walls       m <sup>2</sup> 5 RICKWORK SUNDRIES BRICKWORK A BALL       R								
Bill No.3 MASONRY       PREAMBLES         For preambles see "Specification of materials and methods to be used - PW371"         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.         Face bricks:         Bricks shall be ordered timeously to obtain uniformity in size and colour.         Pointing: Descriptions of recessed pointing to fair face brickwork and face brickwork shall be ordered to include square recessed, hollow recessed, weathered pointing, etc.         SAMPLES         Samples of all masonny building units, sexept those for walls described as 'load bearing' shall consist of 3 units from every 30 000 units delivered to site.         BRICKWORK IN FOUNDATIONS (FROVISIONAL) Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar: compressive strength) in		SECTION NO. 4						
MASONRY       Image: Comparison of the image: Comparison		1 x 3 Grade R Classroom Block						
PREAMLESS         For preambles see "Specification of materials and methods to be used - PW371"         BRICKWORK         States 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.         Face bricks:         Bricks shall be ordered timeously to obtain uniformity in size and colour.         Pointing:         Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.         SAMPLES         Samples of all masonry building units, except those for walls described as 'load bearing' shall consist of a minimum of 6 units. Samples of building units deversed to site.         BRICKWORK IN FOUNDATIONS (PROVISIONAL)         Brickwork of MX bricks (14 MPa nominal compressive strength) in Class I montar: and compressive strength) in Class I montari compressive		BILL NO. 3						
For preambles see "Specification of materials and methods to be used - PW371"         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.         Face bricks:         Bricks shall be ordered timeously to obtain uniformity in size and colour.         Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.         Samples of all masonry building units, except those for walls described as load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as load bearing all consist of 30 units from every 30 000 units delivered to site.         BRICKWORK IN FOUNDATIONS (PROVISIONAL)         Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:         1       Half brick walls       m²         2       One brick walls       m²         3       Half brick walls       m²         4       Half brick walls       m²         5       Frickwork reinforcement:       5         75mm Wide reinforcement:       Tarried to Collection         Section No. 4 Bill No. 3 Masonry       K		MASONRY						
methods to be used - PW371"         BRICKWORK         Sizes in descriptions:         Where sizes in descriptions:         Where 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.         Face bricks:         Bricks shall be ordered timeously to obtain uniformity in size and colour.         Pointing:         Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathreed pointing, etc.         SAMPLES         Samples of all masonry building units, except those for walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.         Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:         1         Half brick walls       m²         2       One brick walls         Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:         3       Half brick walls         Brickwork subsci 11 MPa nominal compressive strength) in Class I mortar:         3       Half brick walls         Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:         3       Half brick walls         Brickwork Nulls       m²         Brickwork einforcement:		PREAMBLES						
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.       Image: Constraint of the length and 'half brick' the width of a brick.         Face bricks:       Bricks shall be ordered timeously to obtain uniformity in size and colour.       Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.         SAMPLES       Samples of all masony building units, except those for walls described as 'load bearing' shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units flow revery 30 000 units diverset to site.         BRICKWORK IN FOUNDATIONS (PROVISIONAL)       Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:         1       Half brick walls       m <sup>2</sup> 2       One brick walls       m <sup>2</sup> 3       Half brick walls       m <sup>2</sup> 4       One brick walls       m <sup>2</sup> 5       BRICKWORK IN SUPERSTRUCTURE       BRICkWORK SUNDRIES         BRICKWORK SUNDRIES       BRICkWORK SUNDRIES       BRICkWORK SUNDRIES         5       BRICkWORK reinforcement:       Carried to Collection       R         6       Carried to Collection       R       Image: Carried to Collection		BRICKWORK						
brick' shall represent the length and 'half brick' the width of a brick.       Face bricks:         Face bricks:       Bricks shall be ordered timeously to obtain uniformity in size and colour.         Pointing:       Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.         SAMPLES       Samples of all masonry building units, except those for walls described as 'load bearing' shall consist of a minimum of 6 units. Samples of building units to be used tim walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.         BRICKWORK IN FOUNDATIONS (PROVISIONAL) Brickwork of MFX bricks (14 MPa nominal compressive strength) in Class I mortar:       m²         1       Half brick walls       m²         2       One brick walls       m²         3       Half brick walls       m²         4       One brick walls       m²         5       Törkwork reinforcement       m²         5       Törkwork subNDRIES       m²         Brickwork subNDRIES       Brickwork subNDRIES       m²         Brickwork subNDRIES       Brickwork subNDRIES       m²         Brickwork reinforcement:       5       75mm Wide reinforcements:       392         5       Tome were sublit in horizontally.       m       398		Sizes in descriptions:						
Bricks shall be ordered timeously to obtain uniformity in size and colour.       Bricks shall be ordered timeously to obtain uniformity in size and colour.         Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.       SAMPLES         Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.       BRICKWORK IN FOUNDATIONS (PROVISIONAL)         Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       nm²       31         1       Half brick walls       m²       200         BRICKWORK IN SUPERSTRUCTURE       Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       31         3       Half brick walls       m²       92         4       One brick walls       m²       92         5       Frickwork finforcement:       5       5         5       Tom Wide reinforcement built in horizontally.       m       398         Carried to Collection         R         Carried to Collection         R         Carried to Collection         R <td colspa<="" td=""><td></td><td>brick' shall represent the length and 'half brick' the width</td><td></td><td></td><td></td><td></td><td></td></td>	<td></td> <td>brick' shall represent the length and 'half brick' the width</td> <td></td> <td></td> <td></td> <td></td> <td></td>		brick' shall represent the length and 'half brick' the width					
size and colour.       Pointing:         Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.       SAMPLES         Samples of all masonry building units, except those for walls described as load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as load bearing' shall consist of 30 units from every 30 000 units delivered to site.       BRICKWORK IN FOUNDATIONS (PROVISIONAL)         Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       nm²       31         1       Half brick walls       m²       31         2       One brick walls       m²       200         BRICKWORK IN SUPERSTRUCTURE       Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       31         3       Half brick walls       m²       92         4       One brick walls       m²       92         5       75mm Wide reinforcement built in horizontally.       m       398         Carried to Collection         R         Carried to Collection         R         Carried to Collection         R         Section No. 4         Bill No. 3       Masonry		Face bricks:						
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.       SAMPLES         Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.       BRICKWORK IN FOUNDATIONS (PROVISIONAL)         Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       1         1       Half brick walls.       m <sup>2</sup> 2       One brick walls       m <sup>2</sup> 3       Half brick walls.       m <sup>2</sup> 4       One brick walls       m <sup>2</sup> 5       Torm of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       3         3       Half brick walls       m <sup>2</sup> 4       One brick walls       m <sup>2</sup> 5       Torm Wide reinforcement:       5         5       75mm Wide reinforcement built in horizontally.       m       398         Carried to Collection         R         Carried to Collection         R         Carried to Collection         R         Carried to Collection								
and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.       SAMPLES         Samples of all masonry building units, except those for walls described as 'load bearing' shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.       BRICKWORK IN FOUNDATIONS (PROVISIONAL)         Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:		Pointing:						
Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.       Image: Constraint of Amage: Constrater of Amage: Constraint of Amage: Constraint of Amage		and face brickwork shall be deemed to include square						
walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.       Image: Constraint of Constraint o		SAMPLES						
Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       m²       31         1       Half brick walls.       m²       31         2       One brick walls       m²       200         BRICKWORK IN SUPERSTRUCTURE       Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:		walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30						
icompressive strength) in Class I mortar:       m <sup>2</sup> 31         1       Half brick walls.       m <sup>2</sup> 31         2       One brick walls       m <sup>2</sup> 200         BRICKWORK IN SUPERSTRUCTURE       Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:		BRICKWORK IN FOUNDATIONS (PROVISIONAL)						
2       One brick walls       m²       200         BRICKWORK IN SUPERSTRUCTURE       Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:								
BRICKWORK IN SUPERSTRUCTURE       Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       m²       92         3       Half brick walls       m²       92         4       One brick walls       m²       453         BRICKWORK SUNDRIES       Brickwork reinforcement:       m²       398         5       75mm Wide reinforcement built in horizontally.       m       398         Carried to Collection       R	1	Half brick walls.	m²	31				
Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:       m2       92         Half brick walls       m2       92         One brick walls       m2       453         BRICKWORK SUNDRIES       m2       453         Brickwork reinforcement:       nm2       398         75mm Wide reinforcement built in horizontally.       m       398         Section No. 4       Bill No. 3       Masonry       Image: Carried to Collection of the strength of the strengt of the strength of the strength of the strength of the strength	2	One brick walls	m²	200				
compressive strength) in Class I mortar:       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m       m <td></td> <td>BRICKWORK IN SUPERSTRUCTURE</td> <td></td> <td></td> <td></td> <td></td> <td></td>		BRICKWORK IN SUPERSTRUCTURE						
4       One brick walls       m²       453         BRICKWORK SUNDRIES       m²       453         Brickwork reinforcement:       m³       398         5       75mm Wide reinforcement built in horizontally.       m³       398         Carried to Collection       R								
BRICKWORK SUNDRIES       m       398       m       398         5       Brickwork reinforcement:       m       398       m       100         5       75mm Wide reinforcement built in horizontally.       m       398       m       100       m	3	Half brick walls	m²	92				
Brickwork reinforcement:       m       398	4	One brick walls	M²	453				
5       75mm Wide reinforcement built in horizontally.       m       398		BRICKWORK SUNDRIES						
Carried to Collection       Section No. 4       Bill No. 3       Masonry		Brickwork reinforcement:						
Section No. 4 Bill No. 3 Masonry	5	75mm Wide reinforcement built in horizontally.	m	398				
Bill No. 3 Masonry		Carried to Collection			R			
Masonry								
		-						

					Thabar	ie PS
1		Unit	Quantity	Rate	Amount	1
6	150mm Wide reinforcement built in horizontally.	m	2 532			
	Prestressed fabricated lintels:					
7	110 x 75mm Lintels in lengths not exceeding 3m.	m	22			
	Turning pieces:					
8	220mm Wide turning piece to lintels etc.	m	27			
	Galvanised wire ties etc:					
9	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.(Provisional)	No	84			
	Galvanised hoop iron cramps, ties, etc:					
10	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork.(Provisional)	No	84			
	FACE BRICKWORK					
	Face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:					
11	Extra over brickwork for face brickwork.	m²	257			
12	Extra over brickwork for face brickwork in foundations (Provisional).	m²	38			
13	Half brick in facings in beamfilling	m²	25			
	FACE BRICKWORK COPINGS, SILLS, ETC.					
	Brick-on-edge header course copings, sills, etc of					
	face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) and pointed with recessed joints on all exposed faces:					
14	Extra over brickwork for brick-on-edge header course					
	lintel pointed on face and 110mm soffit.	m	37			
15	230mm Wide sill set sloping and slightly projecting.	m	28			
16	Coping on top of one brick wall pointed on exposed faces	m	43			
	NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS					
	Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:					
17	12 x 152mm Wide sills set flat and slightly projecting.	m	28			
	Carried to Collection			R		
	Section No. 4			N		
	Bill No. 3					
	Masonry					
	109					1 4 9

Amount <u>BILL NO. 3</u> MASONRY **COLLECTION** Page No Brought Forward from Page 108 109 Carried To Section Summary R Section No. 4 Bill No. 3 Masonry 110

					Thabar	ie PS
		Unit	Quantity	Rate	Amount	1
	SECTION NO. 4					
	1 x 3 Grade R Classroom Block					
	BILL NO. 4					
	WATERPROOFING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:					
1	In walls.	m²	41			
	One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:					
2	Under surface beds.	m²	342			
	JOINT SEALANTS ETC					
	Silicone sealing compound including backing cord,					
	bond breaker,primer,etc					
3	12 x 20mm in expansion joints in floors including raking out expansion joint filler as necessary (Provisional)	m	84			
4	12 x 20mm in vertical expansion joints in walls including raking out expansion joint filler as necessary	m	80			
	Corriad To Contian Outpart			_		
	Carried To Section Summary Section No. 4			R		<u> </u>
	Bill No. 4					
	Waterproofing					
	111					
				ľ	-	450

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I		Unit	Quantity	Rate	Amount	1
	SECTION NO. 4					
	1 x 3 Grade R Classroom Block					
	<u>BILL NO. 5</u>					
	ROOF COVERINGS					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW 371					
	General					
	PROFILED METAL SHEETING AND ACCESSORIES					
	0.58mm "Klip-lok light industrial" galvanised					
	troughed sheet steel with "chromadek" finish one side,fixed to 76 x 50mm purlin complete under 5year guarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer					
1	Roof covering with pitch not exceeding 25 degrees.	m²	404			
-						
	0.58mm galvanised sheet iron, with "chromadek" one side in:					
2	Standard type FK3 ridge or hip flashing	m	42			
-						
						<u> </u>
	Carried To Section Summary Section No. 4 Bill No. 5			R		
	Roof Coverings					
	112					

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				Thabar	ie PS
1	Unit	Quantity	Rate	Amount	1
SECTION NO. 4					
<u>1 x 3 Grade R Classroom Block</u>					
BILL NO. 6					
CARPENTRY AND JOINERY					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Particle board:					
Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.					
Joinery:					
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.					
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.					
Fixing:					
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.					
Decorative laminate finish:					
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.					
PREFABRICATED ROOF TRUSSES, ETC.					
Plate nailed timber roof truss construction:					
The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantee that the trusses are designed, manufactured, and erected, to support the roof coverings specified. The quarntee shall be valid for 10(ten) years .					
Carried to Collection Section No. 4 Bill No. 6 Carpentry And Joinery			R		
113					
		I		11	I

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	Sawn softwood:					
1	Roof construction to double pitched roof with two hipped ends approximately 342m2 (Grade R 4 Classroom) on plan including trusses, hipped ends, jack rafters, purlins, permanent bracing, etc (measured flat).	No	1			
	ROOF CONSTRUCTION					
	Sawn softwood :					
2	114 x 38mm Wall plates.	m	120			
2	50 x 228mm support beam		51			
3		m	51			
	ROOF SUNDRIES					
	Sundries:	2	07			
4	Two coats creosote on sawn timbers.	m²	37			
	EAVES, VERGES, ETC					
	Everite FC77 or equal approved pressed fibre- cement:					
5	10 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips.	m	95			
	DOORS ETC					
	Wrought meranti doors hung to steel frames:					
6	44mm Framed batten door 914 x 2032mm high of 44 x 150m top rail and stiles ,16 x 150mm middle ledge and braces and 22 x 220mm bottom rail, filled in with 22mmV-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round.	No	6			
	SEMI SOLID CORE FLUSH DOORS					
	44 semi-solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames:					
7	40mm Door 813 x 2032mm high.	No	16			
	Carried to Collection			-		
	Section No. 4			R		
	Bill No. 6					
	Carpentry And Joinery					
	114					
						152

		I	Amount	
BILL NO. 6 CARPENTRY AND JOIN COLLECTION	ERY	Page No		
	Brought Forward from Page	113		
		114		
Section No. 4	Carried To Section Summary	R		
Bill No. 6 Carpentry And Joinery				
	115			

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	1
	SECTION NO. 4					
	<u>1 x 3 Grade R Classroom Block</u>					
	BILL NO. 7					
	CEILINGS PARTITIONS AND ACCESS FLOORING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.					
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.					
	INSULATION					
	Aerolite insulation:					
1	100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m²	342			
	Wrought softwood					
2	19 x 76mm cornices nailed	m	290			
	NAILED UP AND SCREW UP CEILINGS					
	6mm Everite Nutec or equal approved fibre-cement					
	boards with H-type steel cover strips over joints:					
3	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m²	342			
4	Extra over ceiling for hinged trap door size 610 x 610mm	No	3			
				_		
	Carried To Section Summary Section No. 4			R		<u> </u>
	Bill No. 7					
	Ceilings Partitions And Access Flooring					
	116					
	· · · · · · · · · · · · · · · · · · ·		. 1	I		

					Thabar	ne PS
I	I	Unit	Quantity	Rate	Amount	
	SECTION NO. 4					
	<u>1 x 3 Grade R Classroom Block</u>					
	BILL NO. 8					
	IRONMONGERY					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Finishes to ironmongery:					
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.					
	HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC					
	<u>"Solid" or equal approved:</u>					
1	CZ 80941 or equal approved WC indicator bolt with keep fixed to metal.	No	7			
	CATCHES, CABIN HOOKS, ETC					
	Solid or equal approved:					
2	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	7			
	LOCKS					
	Solid or equal approved:					
3	"Code 630" or equal approved padlock.	No	7			
	'Solid" or equal approved					
4	CZ6822461 "Gower" Four lever lockset.	No	22			
-						
	DOOR CLOSERS					
	<u>"Yale" or equal approved</u>					
5	Y202RC Door closer with cover fixed to metal	No	5			
	BATHROOM FITTINGS					
	Kimberley-Clark or equal approved:					
6	19mm Diameter chromium plated towel rail 900mm long including flanged end brackets.	No	9			
				_		<u> </u>
	Carried to Collection			R		<b> </b>
	Section No. 4 Bill No. 8					
	Ironmongery					
	117					
I			ı		11	1

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	I
7	Lockable toilet roll holder plugged.	No	9			
	<u>SUNDRIES</u>					
	Solid or equal approved:					
8	38mm Diameter rubber door stop plugged.	No	23			
0			20			
	<u>PINNING BOARDS, WRITING BOARDS,</u> <u>PROJECTION SCREENS, ETC</u>					
	Vitrex or equal approved:					
9	Pinning board 2400 x 1200mm high plugged.	No	3			
10	White magnetic Writing Board 4000mm x 1200mm	No	3			
				_		
	Carried to Collection Section No. 4			R		<u> </u>
	Bill No. 8					
	Ironmongery					
	118					

Amount <u>BILL NO. 8</u> **IRONMONGERY COLLECTION** Page No Brought Forward from Page 117 118 Carried To Section Summary R Section No. 4 Bill No. 8 Ironmongery 119

		Unit	Quantity	Rate	I habane	e PS
		Unit	Quantity	Nale	Amount	
	SECTION NO. 4					
	<u>1 x 3 Grade R Classroom Block</u>					
	BILL NO. 9					
	METALWORK					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Descriptions of bolts shall be deemed to include nuts and washers.					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.					
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.					
	Mild steel handrails and balustrades fixed to base plates constructed of two number 6mm steel flat bar cut to profile mounted to wall with 6mm thick steel fixing plate welded to two steel flat bars with 4mm fillet welds chemical anchors (bolts included), 12mm diameter mild steel round spaced at 150mm centres, predrilled openning 3no in each upright, top rail to					
	be 30mm thick x 100mm wide steel					
1	Balustrades including steel handrails approximately 1000mm high fixed to concrete.	m	22			
	Mild steel poles					
2	76 x 76 x 3mm mild steel square tubing columns 3m high secured on top of foundation with 5mm thick fixing plate including 10mm dia 4No. bolts	No	17			
	WELDED SCREENS, GATES, ETC.					
	Gates to external doors					
3	Single gate and frame 813 x 2032mm high of 25 x 25x 2mm hollow section frame and 25 x 25x 2mm hollow section horizontal middle rail filled in with 12 x 12mm square section vertical rails at 75mm centres and fitted with a pair of suitable hinges welded to frame and with locking mechanism for padlock all in and including outer frame of 25 x 25 x 2mm hollow section welded frame bolted to brickwork.					
		No	1			
	Carried to Collection			R		
	Section No. 4			ĸ		
	Bill No. 9					
	Metalwork					
	120					<b>4 -</b> -

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	I
	COMBINATION DOOR FRAME WITH SECURITY					
	GATE					
	Classroom combination door frame with security gate					
4	"Code 914" door frame size 914 x 2032mm high fitted					
-	with three (3) parliament hinges, complete with single					
	security gate size 914 x 2032mm high overall formed of $25 \times 25 \times 2mm$ tubular section frame mitred and welded					
	at angles and two 25 x 25 x 2mm tubular section					
	horizontal middle rails, gate filled in with 12 x 12 x 12mm square section vertical rails at 100mm centres and fitted					
	with locking bolt for padlock, frame formed of 25 x 38 x					
	2mm tubular section stiles and top rail mitred and welded at angles and fitted with three hinges welded to gate and					
	frame, frame factory welded at maximum 250mm					
	centres to door frame.	No	6			
	PRESSED STEEL DOOR FRAMES					
	1,2mm Rebated frames suitable for half brick walls:					
5	Frame for door 813 x 2032mm high.	No	8			
6	Frame for door 914 x 2032mm high.	No	2			
	1,2mm Rebated frames suitable for one brick walls:					
7	Frame for door 813 x 2032mm high.	No	14			
	STEEL WINDOWS, DOORS, ETC.					
	Standard residential windows with 12 x 12(B33)					
	solid burglar bars to all sashes:					
8	Window type NC5F, size 533 X 949mm high.	No	13			
9	Window type NC2F, 1022 x 949mm high.	No	3			
10	Window type 5/8, 1143 x 1272mm high.	No	14			
	STEEL LOUVRES,ETC					
	Purpose made louvres:					
11	Ditto but approximately 3700 x 1000mm high overall	No	2			
	Carried to Collection			R		
	Section No. 4			N		
	Bill No. 9					
	Metalwork					
	121					

Amount <u>BILL NO. 9</u> **METALWORK COLLECTION** Page No Brought Forward from Page 120 121 Carried To Section Summary R Section No. 4 Bill No. 9 Metalwork 122

					Thabane	e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 4					
	<u>1 x 3 Grade R Classroom Block</u> BILL NO. 10					
	PLASTERING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	<u>SCREEDS</u>					
	Screeds on concrete:					
	Screeds of wood floated on concrete to receive ceramic tiles:					
1	30mm Thick on floors and landings.	m²	251			
	GRANOLITHIC					
	Untinted wood floated granolithic on concrete					
2	30mm Thick on floors and landings.	m²	74			
	INTERNAL PLASTER					
	<u>Cement plaster on brickwork:</u>					
3	On walls.	m²	886			
4	On narrow widths.	m²	16			
			10			
5	30 x 3mm Flat section brass dividing strips between different floor finishes.	m	9			
	CORNER PROTECTORS, DIVIDING STRIPS, ETC					
	Carried To Section Summary			R		
	Section No. 4					
	Bill No. 10					
	Plastering					
	123					
						162

					Thabane	e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 4					
	<u>1 x 3 Grade R Classroom Block</u>					
	BILL NO. 11					
	TILING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	WALL TILING					
	200 x 200 x 10mm White glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere):					
1	On walls in isolated panels, splashbacks, etc.	m²	150			
2	On narrow widths.	m²	1			
2						
	FLOOR TILING 300 x 300 x 11.5mm ceramic floor tiles (Prime Cost amount R250.00/m2 delivered excluding vat) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof jointing					
	compound					
3	On floors and landings.	m²	251			
4	Skirting formed of ceramic tile cut to 300 x 75mm high	m	290			
	Carried To Section Summary Section No. 4 Bill No. 11 Tiling 124			R		

				Thabane PS	;
	Unit	Quantity	Rate	Amount	
SECTION NO. 4					
<u>1 x 3 Grade R Classroom Block</u>					
BILL NO. 12					
PLUMBING AND DRAINAGE					
PREAMBLES					
For preambles see "Specification of materials and					
methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Concrete pipes:					
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.					
uPVC pressure pipes and fittings:					
Pipes for water supply shall be of the class stated.					
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.					
Pipes of 50mm 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.					
Copper pipes:					
Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground.					
Fixing of pipes					
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level					
Carried to Collection Section No. 4 Bill No. 12			R		_
Plumbing And Drainage					
125					•

	11.2	0		I habar	ie PS
	Unit	Quantity	Rate	Amount	
Reducing fittings:					
Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm 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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.					
Wire gratings:					
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.					
Septic tanks:					
Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.					
Exposed concrete surfaces:					
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.					
Excavations:					
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.					
'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.					
Laying, backfilling, bedding, etc of pipes:					
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.					
Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.					
Flush pans:					
Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.					
Carried to Collection			R		
Section No. 4					
Bill No. 12 Plumbing And Drainage					
Plumbing And Drainage 126					
.20				II	1

Unit Amount Quantity Rate Stainless steel basins, sinks, wash troughs, urinals, etc: Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable. Waste unions: Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings. RAINWATER DISPOSAL Approved .6mm galvanised sheet iron with "chromadek" finish ,in: 100 x 100mm Eaves gutters 94 1 m 2 Extra over eaves gutter for angle/corner. No 4 3 Extra over eaves gutter for stopped end No 4 4 Extra over eaves gutter for outlet for 75mm pipe. No 20 5 75mm Diameter rainwater pipes. m 80 6 Extra over rainwater pipe for bend. No 20 7 Extra over rainwater pipe for shoe. 20 No SANITARY FITTINGS 'Citimetal' stainless steel or equal approved: 8 Series single end bowl overlay sink, size 1200 x 535mm fitted to top of cabinet. No 3 "Vaal" or equal approved 510 x 405mm "Hibiscus" (code 7050) white vitreous 9 china rounded lavatory basin with two tapholes supported on and including two bolts(code 84467Z0) No 15 White vitreous china "Daisy" semi-close coupled 10 90degree outlet open rim washdown pan (code 774000) and matching 9litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat 6 No Protea 750246 or equal approved wall hung paraplegic 11 WC pan with cradle bracket and legs and Kestrel double flap or equal approved white epoxy painted wooden seat (flush valve elsewhere) 3 No WASTE UNIONS ETC 'Cobra Watertech" or equal approved 38mm "Cobra 316" unslotted waste and plug with chain 12 No 15 Carried to Collection R Section No. 4 Bill No. 12 Plumbing And Drainage

					Thaban	e PS
	1	Unit	Quantity	Rate	Amount	
	TRAPS ETC					
	<u>"Marley' or equal approved</u>					
13	40mm Flexi butyl rubber trap with reseal "P" trap	No	3			
	"Cobra Watertech" or equal approved					
14	"Cobra Ref. 365/40" CP Bottle trap.	No	2			
	TAPS, VALVES, ETC					
	<u>'Cobra Watertech' or equal approved:</u>					
15	15mm basin mixer plugged	No	15			
16	15mm Gate valves plugged	No	28			
17	"Cobra Ref. 232/350' Angle regulating valve	No	15			
18	"Cobra Ref. 166/041 wall type "Star" sink mixer with					
	overarm swivel outlet	No	3			
	SANITARY PLUMBING					
	uPVC pipes:					
19	50mm Pipes	m	120			
20	110m Pipes.	m	85			
21	50mm Pipes laid in and including trenches not exceeding		50			
	1m deep.	m	50			
22	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	55			
	Extra over uPVC pipes for fittings:					
23	50mm Bend.	No	20			
24	100mm Bend.	No	18			
25	110mm Junction.	No	9			
26	50mm Junction.	No	24			
27	110mm Reducing junction.	No	9			
28	110mm Double junction.	No	18			
29	110mm Pan connector	No	9			
30	110mm "G1 Two-way " vent valve	No	9			
	Sundries:					
31	Testing waste pipe system.	Item				
	Carried to Collection			-		
	Section No. 4			R		
	Bill No. 12					
	Plumbing And Drainage					
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						167

					Thabar	ie PS
		Unit	Quantity	Rate	Amount	
22	Class 9 uPVC pressure pipes:					
32	63mm Pipes laid in and including trenches not exceeding 1000mmm deep	m	120			
	Extra over uPVC pressure pipes for solvent welded					
	pressure fittings:					
33	63mm Elbow	No	15			
34	63mm Tee	No	8			
35	63mm Reducer.	No	4			
36	<u>Class o copper pipes:</u> 15mm Pipes	m	120			
		m				
37	22mm Pipes.	m	100			
	Extra over class o copper pipes for capillary fittings:					
38	15mm Fittings.	No	40			
39	22mm Fittings.	No	35			
	Copper overflow and service pipes:					
40	15mm Service pipe 300mm girth.	No	1			
	Sundries:					
41	450 x 450m cast iron stopcock box including brick					
	chamber below not exceeding 750mm deep internally.	No	1			
42	'ZIP Hydroboil code 3800' or equal approved 25 litre					
	white powder coated water boiler as manufactured by Franke Kitchen Systems, plugged and screwed to wall.	No	1			
	ELECTRICAL WATER HEATERS	110				
	"Kwikot" or equal approved					
43	150 litre Horizontally floor mounted electric water heater	No	1			
43		NO	1			
	<u>Testing:</u>	11				
44	Testing water pipe system.	Item				
	FIRE APPLIANCES ETC.					
	<u>'Chubb' or equal approved:</u>					
45	'Everyway' hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall					
	bracket.	No	2			
46	9kg Dry chemical fire extinguisher.	No	3			
						<u> </u>
	Carried to Collection			R		
	Section No. 4					
	Bill No. 12					
	Plumbing And Drainage 129					
I	123				1	1

					Thabane	e PS
1		Unit	Quantity	Rate	Amount	
47	RAINWATER HARVESTING Rainwater Harvesting Allow a sum of R15 000.00/each (Fifteen Thousand Rands) for provision of 5000I Jojo or equal approved tank complete with lid, fittings, tap, concrete plinth as per Architect details	No	2			
	Carried to Collection			R		
	Section No. 4 Bill No. 12 Plumbing And Drainage					
	130					

			Thaban	ne PS
I			Amount	I
BILL NO. 12				
PLUMBING AND DRAIN	AGE			
<b>COLLECTION</b>				
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					Thabane PS	3
		Unit	Quantity	Rate	Amount	
	SECTION NO. 4					
	<u>1 x 3 Grade R Classroom Block</u> BILL NO. 13					
	<u>GLAZING</u>					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	GLAZING TO STEEL WITH PUTTY					
	5mm Clear float glass:					
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	23			
			20			
	5mm Rough cast glass:	2	0			
2	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	6			
	TOPS, SHELVES, DOORS, MIRRORS, ETC.					
	6mm Silvered float glass copper backed mirrors with polished edges fixed with double sided adhesive					
	tape:					
3	Mirror 450 x 600 mm high.	No	13			
						_
	Carried To Section Summary			R		
	Section No. 4					-
	Bill No. 13					
	Glazing					
	132					
					4	7

		Unit	Quantity	Rate	Amount
		Onit	Quantity	Rate	
	SECTION NO. 4				
	1 x 3 Grade R Classroom Block				
	BILL NO. 14				
	<u>PAINTWORK</u>				
	PREAMBLES				
	For preambles see "Specification of materials and methods to be used - PW371				
	ON FLOATED PLASTER				
	Prepare , etc as specified and apply two coats of super acrylic paint:				
1	On interior walls.	m²	886		
	ON FIBRE-CEMENT, ETC.				
	<u>Prepare , etc as specified and apply two coats of super acrylic Pva paint:</u>				
2	On ceilings and cornices.	m²	325		
3	On fascias and barge boards.	m	84		
	ON METAL				
	Prepare, etc as specified and apply two coats of gloss enamel paint on :				
4	Door frames	m²	33		
5	On windows with burglar bars (both sides measured).	m²	67		
6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area).	m²	20		
7	On steel poles	m	51		
	Inside eaves gutters				
8	Inside eaves gutters	m²	35		
	Prepare,etc as specified and apply two coats of super acrylic Pva paint on:				
9	General surfaces of doors (interior).	m²	53		
	ON WOOD, WOOD BOARD				
	Prepare, etc as specified and apply two coats of polyurethane suede varnish:				
10	On doors	m²	23		
11	On laminated beam.	m²	9		
	Carried To Section Summary			R	
	Section No. 4 Bill No. 14				
	Paintwork				
	133				
					470

Amount

		I	Amount
	SECTION NO. 4		
	<u>1 x 3 Grade R Classroom Block</u>		
	SECTION SUMMARY		
Bill No.		Page	
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2	CONCRETE, FORMWORK AND REINFORCEMENT	107	
3	MASONRY	110	
4	WATERPROOFING	111	
5	ROOF COVERINGS	112	
6	CARPENTRY AND JOINERY	115	
7	CEILINGS PARTITIONS AND ACCESS FLOORING	116	
8	IRONMONGERY	119	
9	METALWORK	122	
10	PLASTERING	123	
11	TILING	124	
12	PLUMBING AND DRAINAGE	131	
13	GLAZING	132	
14	PAINTWORK	133	
	Carried to Final Summary	R	
	Section No. 4 SECTION SUMMARY		
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# **SECTION NO. 5**

## **Medium Administration Block**

			•		Thaban	ie PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 5					
	Medium Administration Block					
	BILL NO. 1					
	FOUNDATIONS					
	PREAMBLES					
	For preambles see " Specification of materials and methods to be used - PW371"					
	SITE CLEARANCE ETC					
	Site clearance:					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m²	537			
	REMOVAL OF TREES, ETC.					
	Taking out and removing, grubbing up roots and filling in holes:					
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	1			
	EXCAVATION, FILLING, ETC OTHER THAN BULK					
	Excavation in earth not exceeding 2m deep:					
3	Trenches.	m³	134			
	Extra over trench and hole excavations in earth for excavation:					
4	Soft rock.	m³	9			
5	Hard rock.	m³	5			
	Risk of collapse of excavations:					
6	Sides of trench and hole excavations not exceeding 1,5m deep.	m²	312			
	Keeping excavations free of water:					
7	Keeping excavations free of all water other than					
	subterranean water.	Item				
	Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:					
8	Backfilling to trenches, holes, etc.	m³	23			
9	Under floors, steps, pavings, etc.	m³	42			
						<u> </u>
	Carried to Collection			R		
	Section No. 5					
	Bill No. 1					
	Foundations 136					
	130				I	

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	Earth filling supplied by the Contractor and compacted to 95% Mod AASHTO density):					
10	Under floors, steps, pavings, etc.	m³	173			
	Cart Away					
	Extra over excavation for cart away:					
11	Surplus material from excavations on site to a dumping site be located by the contractor	m³	28			
	Coarse river sand filling supplied by the Contractor:					
12	Under floors etc.	m³	15			
	COMPACTION					
	Compaction of surfaces:					
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90%. Mod AASHTO density.	m²	297			
	Dressriked density tosts on filling.					
	Prescribed density tests on filling:	Na	16			
14	Modified AASHTO Density test.	No	10			
	SOIL POISONING					
	Soil insecticide:					
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	297			
16	To bottoms and sides of trenches etc.	m²	445			
	Carried to Collection			R		
	Section No. 5					
	Bill No. 1					
	Foundations					
	137					470

Amount <u>BILL NO. 1</u> **FOUNDATIONS COLLECTION** Page No Brought Forward from Page 136 137 Carried To Section Summary R Section No. 5 Bill No. 1 Foundations 138

Unit Quantity Amount Rate **SECTION NO. 5** Medium Administration Block **BILL NO. 2** CONCRETE, FORMWORK AND REINFORCEMENT PREAMBLES For preambles see "Specification of materials and methods to be used - PW371" UNREINFORCED CONCRETE 15Mpa/19mm Concrete Aprons cast in panels. 11 1 m³ Ramps. 4 2 m³ 3 Thickening down the edge of apron 150mm deep, 200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling etc 79 m **REINFORCED CONCRETE** 25MPa/19mm Concrete: Surface beds cast in panels on waterproofing. m³ 27 4 27 5 Footings. m³ 6 Slabs. m³ 2 **TEST BLOCKS** Test blocks: Making and testing set of three 150 x 150 x 150mm 7 concrete strength test cubes (Provisional). Sets 20 FINISHING TOP SURFACE OF CONCRETE 79 8 Paving to falls. m² **ROUGH FORMWORK (DEGREE OF ACCURACY III) Rough Formwork to Sides:** Edges and reveals not exceeding 300mm high or wide. 25 9 m **Rough Formwork to Soffits:** 10 Slabs propped up exceeding 1.5 and not exceeding 3.5m high. m² 10 Carried to Collection R Section No. 5 Bill No. 2 Concrete, Formwork And Reinforcement

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	I
	MOVEMENT JOINTS ETC					
	Two layers of .5mm galvanised mild steel slip joints					
	between horizontal concrete and brick surfaces					
	including cement mortar bed:					
11	Not exceeding 300mm wide.	m	70			
	Expansion joints with bitumen impregnated					
	softboard between vertical concrete and brick surfaces:					
12	12mm Joints not exceeding 300mm high.	m	75			
12			75			
	Dividing Strips ,etc					
13	6 x 38mm Angle iron step guard cast into concrete with 3x 6mm anchors		0			
	SX OITITI AIICHOIS	m	8			
	REINFORCEMENT(PROVISIONAL)					
	Fabric reinforcement:					
14	Type 193 fabric reinforcement in concrete surface beds,					
	slabs, etc.	m²	297			
15						
	slabs, etc.	m²	10			
	Mild steel reinforcement to structural concrete work:					
16	10mm Diameter bars.	Tonnes	1.00			
	High tensile steel reinforcement to structural					
	concrete work:					
17	20mm Diameter bars.	Tonnes	1.00			
10	16mm Diameter bars.					
18		Tonnes	2.00			
19	12mm Diameter bars.	Tonnes	1.00			
	Carried to Collection			-		
	Section No. 5			R		
	Bill No. 2					
	Concrete, Formwork And Reinforcement					
	140					
1			. 1	I		170

Amount **BILL NO. 2** CONCRETE, FORMWORK AND REINFORCEMENT **COLLECTION** Page No Brought Forward from Page 139 140 Carried To Section Summary R Section No. 5 Bill No. 2 Concrete, Formwork And Reinforcement 141

					Thabar	ne PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 5					
	Medium Administration Block					
	BILL NO. 3					
	MASONRY					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371"					
	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.					
	Face bricks:					
	Bricks shall be ordered timeously to obtain uniformity in size and colour.					
	Pointing:					
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.					
	SAMPLES					
	Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.					
	BRICKWORK IN FOUNDATIONS (PROVISIONAL)					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:					
1	Half brick walls.	m²	36			
2	One brick walls	m²	130			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:					
3	Piers	m³	3			
4	Half brick walls	m²	138			
5	Half brick walls in beam filling.	m²	28			
6	One brick walls	m²	357			
	Carried to Collection			R		
	Section No. 5			ĸ		<u> </u>
	Bill No. 3					
	Masonry					
	142					

I		Unit	Quantity	Rate	Amount	
	BRICKWORK SUNDRIES					
	Brickwork reinforcement:					
7	75mm Wide reinforcement built in horizontally.	m	749			
8	150mm Wide reinforcement built in horizontally.	m	3 125			
	Prestressed fabricated lintels:					
9	110 x 75mm Lintels in lengths not exceeding 3m.	m	55			
	Turning pieces:					
10	110mm Wide turning piece to lintels etc.	m	55			
11	220mm Wide turning piece to lintels etc.	m	20			
	Galvanised wire ties etc:					
12	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork (Provisional)	No	125			
	Galvanised hoop iron cramps, ties, etc:					
13	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork (Provisional)	No	125			
	FACE BRICKWORK					
	Face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:					
14	Extra over brickwork for face brickwork.	m²	297			
15	Extra over brickwork for face brickwork in foundations (Provisional).	m²	51			
16	Extra over brickwork for face brickwork to piers.	m²	4			
17	Half brick in facings in beamfilling	m²	27			
	FACE BRICKWORK COPINGS, SILLS, ETC.					
18	Brick-on-edge header course copings, sills, etc of face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) and pointed with recessed joints on all exposed faces: Extra over brickwork for brick-on-edge header course					
10	lintel pointed on face and 110mm soffit.	m	54			
19	Extra over brickwork for brick-on-edge header course lintel pointed on face and 220mm soffit	m	17			
20	110mm cut brick Wide sills set flat	m	14			
	Carried to Collection Section No. 5 Bill No. 3 Masonry 143			R		
I			1	I	1	182

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	l
21	230mm Wide sill set sloping and slightly projecting.	m	10			
22	Coping on top of one brick wall pointed on exposed faces	m	14			
	NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS					
	Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:					
23	12 x 152mm Wide sills set flat and slightly projecting.	m	8			
	Carried to Collection			R		
	Section No. 5			ĸ		
	Bill No. 3					
	Masonry					
	144					102

Amount <u>BILL NO. 3</u> MASONRY **COLLECTION** Page No Brought Forward from Page 142 143 144 Carried To Section Summary R Section No. 5 Bill No. 3 Masonry 145

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	I
	SECTION NO. 5					
	Medium Administration Block					
	BILL NO. 4					
	WATERPROOFING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:					
1	In walls.	m²	38			
	One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:					
2	Under surface beds.	m²	297			
	JOINT SEALANTS ETC					
	Silicone sealing compound including backing cord, bond breaker,primer,etc					
3	12 x 20mm in expansion joints in floors including raking out expansion joint filler as necessary (Provisional).	m	46			
4	12 x 20mm in vertical expansion joints in walls including					
	raking out expansion joint filler as necessary.	m	40			
	Carried To Section Summary			R		<u> </u>
	Section No. 5 Bill No. 4					
	Waterproofing					
	146					
1			и I	I		195

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I		Unit	Quantity	Rate	Amount	I
	SECTION NO. 5					
	Medium Administration Block					
	BILL NO. 5					
	ROOF COVERINGS					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW 371					
	General					
	PROFILED METAL SHEETING AND ACCESSORIES					
	0.58mm "Klip-lok light industrial" galvanised troughed sheet steel with "Globalcoat" finish one side (colour Traffic Green), fixed to 76 x 50mm purlin complete under 5year quarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer					
1	Roof covering with pitch not exceeding 25 degrees.	m²	376			
	0.58mm galvanised sheet iron, with "chromadek" one side in:					
2	Standard type FK3 ridge or hip flashing	m	26			
3	Standard valley flashing	m	16			
	Carried To Section Summary Section No. 5 Bill No. 5 Roof Coverings 147			R		

				Thabar	ie PS
1	Unit	Quantity	Rate	Amount	1
SECTION NO. 5					
Medium Administration Block					
BILL NO. 6					
CARPENTRY AND JOINERY					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Particle board:					
Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.					
<u>Joinery:</u>					
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.					
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.					
Fixing:					
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.					
Decorative laminate finish:					
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.					
PREFABRICATED ROOF TRUSSES, ETC.					
Plate nailed timber roof truss construction:					
The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantee that the trusses are designed, manufactured, and erected, to support the roof coverings specified. The quarntee shall be valid for 10(ten) years .					
Carried to Collection Section No. 5 Bill No. 6 Carpentry And Joinery			R		
148					
•					

		1.1	Overstitu	Data	I haban	e PS
		Unit	Quantity	Rate	Amount	
	Sawn softwood:					
1	Roof construction to double pitched roof with two hipped					
	ends approximately 297m2 (Administration Block) on plan including trusses, hipped ends, jack rafters, purlins,					
	permanent bracing, etc (measured flat).	No	1			
	ROOF CONSTRUCTION					
	Sawn softwood :					
2	114 x 38mm Wall plates.	m	134			
3	50 x 228mm support beam	m	50			
	ROOF SUNDRIES					
	Sundries:					
4	Two coats creosote on sawn timbers.	m²	52			
	EAVES, VERGES, ETC					
	Everite FC77 or equal approved pressed fibre- cement:					
5	10 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips.	m	86			
	JOINERY SUNDRIES					
	Wrought Meranti					
6	450mm wide slatted seats, etc of 76 x 38mm thick					
	(50mm centres) screwed under and including steel 50 x 50 x 3mm L section steel holed to concrete fixed with					
	bolts	m²	10			
	SEMI SOLID CORE FLUSH DOORS					
	44 semi-solid flush doors with 3,2mm standard					
	hardboard covering on both sides hung to steel frames:					
7	40mm Door 813 x 2032mm high.	No	11			
	Carried to Collection Section No. 5			R		
	Bill No. 6					
	Carpentry And Joinery					
	149					
						100

		I	Amount	
BILL NO. 6				
CARPENTRY AND JOIN	ERY			
COLLECTION		Page No		
		1 ago 110		
	Brought Forward from Page	148		
	Drought Formate Horn Page	149		
	Carried To Section Summary	R		
Section No. 5 Bill No. 6				
Carpentry And Joinery	450			
	150			

					Thaban	ie PS
		Unit	Quantity	Rate	Amount	1
	SECTION NO. 5					
	Medium Administration Block					
	BILL NO. 7					
	CEILINGS PARTITIONS AND ACCESS FLOORING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.					
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.					
	INSULATION					
	Aerolite insulation:					
1	100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m²	297			
	Wrought softwood					
2	19 x 76mm cornices nailed	m	482			
	NAILED UP AND SCREW UP CEILINGS					
	6mm Everite Nutec or equal approved fibre-cement boards with H-type steel cover strips over joints:					
3		m²	297			
4	Extra over ceiling for hinged trap door size 610 x 610mm	No	2			
		110	-			
						<u> </u>
	Carried To Section Summary			R		
	Section No. 5					<u> </u>
	Bill No. 7					
	Ceilings Partitions And Access Flooring					
	151					

Unit     Quantity     Rate     Amount       SECTION NO.5     Medium Administration Block     Bill. No.8     Medium Administration Block       Bill. No.8     IRONMONGERX     PREAMBLES     Image: Control of materials and methods to be used - PW371       SUPPLEMENTARY PREAMBLES     Enishes to ironmongery are indicated by suffices in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Sat				- ·	_	I haban	le PS
Medium Administration Block         BILLNO.3         RONMONGERY         PREAMBLES         For preambles see "Specification of materials and methods to be used - PW371         SUPPLEMENTARY PREAMBLES         Enishes to ironmongery:         Where applicable finishes to ironmongery are indicated by suffixes in accordrance with the following list: BS Satin bronze lacquered: CH Chromium plated : SC Satin chromium plated : SE Siter enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ALL Anodised black: PB Polished brass : PL Polished and lacquered : PT Epoxy coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANC BOLTS, ETC         "Solid" or equal approved:         1       150mm 8052-150 Brass flush bolt with keep lixed to metal.         No       2         2 150mm 8052-150 Brass flush bolt with keep lixed to metal.       No         2 2 150mm 8052-150 Brass flush bolt with keep lixed to metal.       No         3 C2 80941 WC indicator bolt with keep lixed to metal.       No         4 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         5 "Code 630" padlock.       No       2         5 Solid or equal approved: 1 Carried to Collection       No       2         7 Y002RC Door closer with cover fixed to metal       No       2         Carried to Collection       R			Unit	Quantity	Rate	Amount	
Medium Administration Block         BILLNO.3         RONMONGERY         PREAMBLES         For preambles see "Specification of materials and methods to be used - PW371         SUPPLEMENTARY PREAMBLES         Enishes to ironmongery:         Where applicable finishes to ironmongery are indicated by suffixes in accordrance with the following list: BS Satin bronze lacquered: CH Chromium plated : SC Satin chromium plated : SE Siter enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ALL Anodised black: PB Polished brass : PL Polished and lacquered : PT Epoxy coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANC BOLTS, ETC         "Solid" or equal approved:         1       150mm 8052-150 Brass flush bolt with keep lixed to metal.         No       2         2 150mm 8052-150 Brass flush bolt with keep lixed to metal.       No         2 2 150mm 8052-150 Brass flush bolt with keep lixed to metal.       No         3 C2 80941 WC indicator bolt with keep lixed to metal.       No         4 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         5 "Code 630" padlock.       No       2         5 Solid or equal approved: 1 Carried to Collection       No       2         7 Y002RC Door closer with cover fixed to metal       No       2         Carried to Collection       R							
Medium Administration Block         BILLNO.3         RONMONGERY         PREAMBLES         For preambles see "Specification of materials and methods to be used - PW371         SUPPLEMENTARY PREAMBLES         Enishes to ironmongery:         Where applicable finishes to ironmongery are indicated by suffixes in accordrance with the following list: BS Satin bronze lacquered: CH Chromium plated : SC Satin chromium plated : SE Siter enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ALL Anodised black: PB Polished brass : PL Polished and lacquered : PT Epoxy coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANC BOLTS, ETC         "Solid" or equal approved:         1       150mm 8052-150 Brass flush bolt with keep lixed to metal.         No       2         2 150mm 8052-150 Brass flush bolt with keep lixed to metal.       No         2 2 150mm 8052-150 Brass flush bolt with keep lixed to metal.       No         3 C2 80941 WC indicator bolt with keep lixed to metal.       No         4 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         5 "Code 630" padlock.       No       2         5 Solid or equal approved: 1 Carried to Collection       No       2         7 Y002RC Door closer with cover fixed to metal       No       2         Carried to Collection       R		SECTION NO. 5					
BILL NO. 3       IRONMONGERY         PREAMBLES       For preambles see "Spacification of materials and methods to be used - PW371         SUPPLEMENTARY PREAMBLES       Finishes to ironmongery:         Vibre applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze leadured : CF Chronium plated : SC Satin chromium plated : SC Satin chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : SS Andised Silver : AB Anodised bronze : AG Anodised policy : PT Epoxy coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC       No         Solid or equal approved:       1         1 form 8052-150 Brass flush bolt with keep let into concretet.       No         2       ISOmm 8052-150 Brass flush bolt with keep let into concretet.       No         3       CZ 809411WC indicator bolt with keep lixed to metal.       No         4       100mm cabin hooks, ETC       Solid or equal approved;         5       Toche Ga0" padrock, twice oiled and plugged.       No         6       CZ882-24-95SC 'Gower' two lever lockset.       No       11         DOR CLOSERS       Image: Preamelled in the collection       No       2         7       Y202RC Door closer with cover fixed to metal       No       2         6       Carried to Collection       No       2         7       Y202RC Door closer with co							
IRONMONGERY       Image: set "Specification of materials and methods to be used - PW371         SUPPLEMENTARY PREAMBLES       Image: set "Specification of materials and methods to be used - PW371         SUPPLEMENTARY PREAMBLES       Image: set and contance with the following list: BS Satin bronze lacquered : CH Chromium plated : SE C Satin chromatic acquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH Chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromitim plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bronze lacquered : CH chromium plated : SE Satin bromium plated : SE Sa							
For preambles see "Specification of materials and methods to be used - PW371         SUPPLEMENTARY PREAMBLES         Einishes to ironmongery:         Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin chromium plated : SE Sliver enamelled : SE Grey enamelled : AS Anodised balck : PB Polished brass : PL Polished and lacquered : CP TE Popy coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANIC DOITS, ETC         "Solid" or equal approved:         1         150mm 8052-150 Brass flush bolt with keep fixed to metal.         No       2         2       150mm 8052-150 Brass flush bolt with keep fixed to metal.         CARCHES, CABIN HOOKS, ETC Solid or equal approved:       No         2       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No         4       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No         5       "Code 630" padlock.       No       2         5       "Code 630" padlock.       No       1         0OOR CLOSERS "Yale" or equal approved       No       2         7       Y202/RC Door closer with cover fixed to metal       No       2         Carried to Collection Section No. 5       S       8       Immonogery							
For preambles see "Specification of materials and methods to be used - PW371         SUPPLEMENTARY PREAMBLES         Einishes to ironmongery:         Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin chromium plated : SE Sliver enamelled : SE Grey enamelled : AS Anodised balck : PB Polished brass : PL Polished and lacquered : CP TE Popy coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANIC DOITS, ETC         "Solid" or equal approved:         1         150mm 8052-150 Brass flush bolt with keep fixed to metal.         No       2         2       150mm 8052-150 Brass flush bolt with keep fixed to metal.         CARCHES, CABIN HOOKS, ETC Solid or equal approved:       No         2       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No         4       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No         5       "Code 630" padlock.       No       2         5       "Code 630" padlock.       No       1         0OOR CLOSERS "Yale" or equal approved       No       2         7       Y202/RC Door closer with cover fixed to metal       No       2         Carried to Collection Section No. 5       S       8       Immonogery							
SUPPLEMENTARY PREAMBLES       Finishes to ironmongery:         Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised block : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC         "Solid" or equal approved:         1       150mm 8052-150 Brass flush bolt with keep let into concretet.         No       2         2       150mm 8052-150 Brass flush bolt with keep let into concretet.         No       2         3       CZ 80941WC indicator bolt with keep fixed to metal.         No       2         Solid or equal approved:       No         4       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No         4       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No         5       "Code 630" padlock.       No       2         5       "Code 630" padlock.       No       11         DOOR CLOSERS       "Yale" or equal approved       No       2         7       Y202RC Door closer with cover fixed to metal       No       2         Bil No. 8 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Finishes to ironmongery:         Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: SS Satin bronze lacquered : CH Chromium plated : SC Satin thronze lacquered : CH Chromium plated : SC Satin bronze lacquered : AB Anodised bronze : AB Anodised bronze : AG Anodised gold : ABL Anodised bronze : PT Eposyco coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC         Solid" or equal approved:         1       150mm 8052-150 Brass flush bolt with keep fixed to metal.         No       2         2       150mm 8052-150 Brass flush bolt with keep lixed to metal.         No       2         3       CZ 80941WC indicator bolt with keep fixed to metal.         No       2         Solid or equal approved:       No         4       100mm cabin hook and eye including 70 x 70 x 20mm chamic davelowed block twice oiled and plugged.       No         4       100mm cabin hook and eye including 70 x 70 x 20mm chamic davelowed block twice oiled and plugged.       No         5       'Code 630' padlock.       No       2         5       'Code 630' padlock.       No       11         DOOR CLOSERS       'Yale" or equal approved       No       2         7       Y202RC Door closer with cover fixed to metal       No       2         Section No. 5       Bil NO. 8       Ironmongery <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered: CH Chromium plated : SE Silver enameliked : GE Grey enameliked : SB Anodised biack : PB Polished braze : AG Anodised gold : ABL Anodised biack : PB Polished braze : DE Polished and lacquered : PT Epoxy coated.         HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, FTC         "Solid" or equal approved:         1       150mm 8052-150 Brass flush bolt with keep fixed to metal.         No       2         2       150mm 8052-150 Brass flush bolt with keep fixed to metal.         No       2         3       CZ 80941WC indicator bolt with keep fixed to metal.         No       2         Solid or equal approved:       No         4       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No         4       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block.       No         5       "Code 630" padlock.       No         6       CZ682-24-95SC"Gower' two lever lockset.       No         7       Y202RC Door closer with cover fixed to metal       No       2         Carried to Collection         R         Carried to Collection         R							
by suffixes in accordance with the following list: BS Satin bronze lacquered: CH Chromium plated : SG Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold: ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated. HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC "Solid" or equal approved: 1 150mm 8052-150 Brass flush bolt with keep fixed to metal. No 2 2 150mm 8052-150 Brass flush bolt with keep let into concretet. No 2 3 CZ 80941WC indicator bolt with keep fixed to metal. No 2 CATCHES, CABIN HOOKS, ETC Solid or equal approved: 4 100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged. No 4 LOCKS Solid or equal approved: 5 "Code 630" padlock. No 2 5 "Code 630" padlock. No 2 6 C2682-24-95SC"Gower" two lever lockset. No 111 DOOR CLOSERS "Yale" or equal approved 7 Y202RC Door closer with cover fixed to metal No 2 Carried to Collection R = Carried to Collection R = Bill No. 3 Ironmongery							
BOLTS, ETC       "Solid" or equal approved:         1       150mm 8052-150 Brass flush bolt with keep fixed to metal.       No       2         2       150mm 8052-150 Brass flush bolt with keep let into concretet.       No       2         3       CZ 80941WC indicator bolt with keep fixed to metal.       No       2         4       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         4       100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         5       "Code 630" padlock.       No       2         5       "Code 630" padlock.       No       11         7       Y202RC Door closer with cover fixed to metal       No       2         Carried to Collection       Carried to Collection       R		by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished					
1       150mm 8052-150 Brass flush bolt with keep fixed to metal.       No       2         2       150mm 8052-150 Brass flush bolt with keep let into concretet.       No       2         3       CZ 80941WC indicator bolt with keep fixed to metal.       No       2         4       CATCHES, CABIN HOOKS, ETC Solid or equal approved:       No       4         100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         LOCKS       Solid or equal approved:       No       2         5       "Code 630" padlock.       No       2         6       CZ682-24-95SC"Gower" two lever lockset.       No       11         DOOR CLOSERS       "Yale" or equal approved       No       2         "Yale" or equal approved       No       2							
1       150mm 8052-150 Brass flush bolt with keep fixed to metal.       No       2         2       150mm 8052-150 Brass flush bolt with keep let into concretet.       No       2         3       CZ 80941WC indicator bolt with keep fixed to metal.       No       2         4       CATCHES, CABIN HOOKS, ETC Solid or equal approved:       No       4         100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         LOCKS       Solid or equal approved:       No       2         5       "Code 630" padlock.       No       2         6       CZ682-24-95SC"Gower" two lever lockset.       No       11         DOOR CLOSERS       "Yale" or equal approved       No       2         "Yale" or equal approved       No       2							
concretet.       No       2         3       CZ 80941WC indicator bolt with keep fixed to metal.       No       2         4       CATCHES, CABIN HOOKS, ETC Solid or equal approved:       No       4         100mm cabin hook and eye including 70 x 70 x 20mm charmfered hardwood block twice oiled and plugged.       No       4         LOCKS Solid or equal approved:       No       4         'Code 630" padlock.       No       2         'Solid' or equal approved       No       11         CZ682-24-95SC"Gower" two lever lockset.       No       11         DOOR CLOSERS       'Yale" or equal approved       No       2         'Yale" or equal approved       No       2       R         Carried to Collection       R	1	150mm 8052-150 Brass flush bolt with keep fixed to	No	2			
CATCHES, CABIN HOOKS, ETC       Solid or equal approved:       No       4         100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         LOCKS       Solid or equal approved:       No       4         5       Solid or equal approved:       No       2         7       'Solid' or equal approved       No       11         DOR CLOSERS       'Yale" or equal approved       No       2         "Yale" or equal approved       No       2         Y202RC Door closer with cover fixed to metal       No       2         Section No. 5       Sill No. 8       Ironmongery       R	2	•	No	2			
Solid or equal approved:       No       4         100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         LOCKS       Solid or equal approved:       No       4         5       Solid or equal approved:       No       2         5       "Code 630" padlock.       No       2         6       CZ682-24-95SC"Gower" two lever lockset.       No       11         DOOR CLOSERS       "Yale" or equal approved       No       2         Y202RC Door closer with cover fixed to metal       No       2	3	CZ 80941WC indicator bolt with keep fixed to metal.	No	2			
100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.       No       4         LOCKS       Solid or equal approved:		CATCHES, CABIN HOOKS, ETC					
chamfered hardwood block twice oiled and plugged.       No       4         LOCKS       Solid or equal approved:       -         5       "Code 630" padlock.       No       2         'Solid" or equal approved       No       11         CZ682-24-95SC"Gower" two lever lockset.       No       11         DOOR CLOSERS       "Yale" or equal approved       No       2         'Yale" or equal approved       No       2         Y202RC Door closer with cover fixed to metal       No       2         Section No. 5       Bill No. 8       Ironmongery       R		Solid or equal approved:					
Solid or equal approved:       No       2         "Code 630" padlock.       No       2         'Solid" or equal approved       No       11         CZ682-24-95SC"Gower" two lever lockset.       No       11         DOOR CLOSERS       "Yale" or equal approved       -         'Yale" or equal approved       No       2         Y202RC Door closer with cover fixed to metal       No       2         Carried to Collection       R       -         Section No. 5       Bill No. 8       -         Ironmongery       Ironmongery       -	4		No	4			
**Code 630" padlock.       No       2         *Solid" or equal approved       No       11         CZ682-24-95SC"Gower" two lever lockset.       No       11         DOOR CLOSERS       "Yale" or equal approved       No       2         *Y202RC Door closer with cover fixed to metal       No       2       R         Carried to Collection       Section No. 5       Sell No. 8       Inonmongery		LOCKS					
'Solid" or equal approved       No       11         CZ682-24-95SC"Gower" two lever lockset.       No       11         DOOR CLOSERS       "Yale" or equal approved       No       2         Y202RC Door closer with cover fixed to metal       No       2       R         Carried to Collection       Section No. 5       Bill No. 8       Informongery		Solid or equal approved:					
6       CZ682-24-95SC"Gower" two lever lockset.       No       11 <b>DOOR CLOSERS</b> "Yale" or equal approved       No       2         "Y202RC Door closer with cover fixed to metal       No       2         Carried to Collection       R	5	"Code 630" padlock.	No	2			
DOOR CLOSERS "Yale" or equal approved       No       2       Image: section loss of the section loss of		'Solid" or equal approved					
"Yale" or equal approved       No       2       Image: constraint of the section of the sectin of the section of the section of the section of the sectin of t	6		No	11			
"Yale" or equal approved       No       2       Image: constraint of the section of the sectin of the section of the section of the section of the sectin of t							
7       Y202RC Door closer with cover fixed to metal       No       2       Image: constraint of the section of the sec							
Carried to Collection       Section No. 5       Bill No. 8       Ironmongery	7		No	2			
Section No. 5 Bill No. 8 Ironmongery				_			
Section No. 5 Bill No. 8 Ironmongery							
Section No. 5 Bill No. 8 Ironmongery		Carried to Collection			R		
Bill No. 8 Ironmongery					IX IX		
152							
		152					

			- ·	_	Thaban	e PS
		Unit	Quantity	Rate	Amount	
	BATHROOM FITTINGS					
	Kimberley-Clark or equal approved:					
8	19mm Diameter chromium plated towel rail 900mm long including flanged end brackets.	No	2			
9	Vandal proof lockable toilet roll holder plugged.	No	2			
	SUNDRIES					
	Solid or equal approved:					
10	38mm Diameter rubber door stop plugged.	No	15			
	MATS					
	Squeegee or equal approved					
11	1500 x 800 x 17mm Door mat laid loose in mat surround fixed with 25 x 25mm aluminium angle plugged to concrete (Provisional).	No	2			
	VERTICAL AND ROLLER BLINDS					
	<u>127mm wide non-fade material vertical blinds as per</u> <u>"Windowvert" or similar approved ,fitted as per</u> <u>manufacturere's instructions</u>					
12	To fit window 2 044 x 954mm high.	No	1			
13	To fit window 1 511 x 1 245mm high.	No	14			
14	To fit window 1 022 x 1 224mm high.	No	3			
15	To fit window 533 x 949mm high.	No	5			
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC					
	Vitrex or equal approved:					
16	Pinning board 2400 x 1200mm high plugged.	No	1			
17	Pinning board 3000 x 1200mm high plugged.	No	4			
	STEEL LOCKERS					
	Greenfield steel lockers with standard baked enamel finish					
18	Double door steel cupboard 914 x 457 x 1828mm high					
	with five shelves bolted to brickwork.	No	4			
	Carried to Collection			R		
	Section No. 5			ĸ		
	Bill No. 8					
	Ironmongery					
	153					102

Amount <u>BILL NO. 8</u> **IRONMONGERY COLLECTION** Page No Brought Forward from Page 152 153 Carried To Section Summary R Section No. 5 Bill No. 8 Ironmongery 154

					Thabar	ie PS
		Unit	Quantity	Rate	Amount	1
	SECTION NO. 5 Madium Administration Block					
	Medium Administration Block					
	<u>BILL NO. 9</u> METALWORK					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Descriptions of bolts shall be deemed to include nuts and washers.					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.					
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.					
	Mild steel handrails and balustrades fixed to base plates constructed of two number 6mm steel flat bar cut to profile mounted to wall with 6mm thick steel fixing plate welded to two steel flat bars with 4mm fillet welds chemical anchors (bolts included), 12mm diameter mild steel round spaced at 150mm centres, predrilled openning 3no in each upright, top rail to be 30mm thick x 100mm wide steel					
1	Balustrades including steel handrails approximately 1000mm high fixed to concrete.	m	16			
	WELDED SCREENS, GATES, ETC.					
	Gates to external doors					
2	Ditto, double gate and frame 1613 x 2032mm high overall as per Architectural drawing	No	2			
	PRESSED STEEL DOOR FRAMES					
	1,2mm Rebated frames suitable for half brick walls:					
3	Frame for door 813 x 2032mm high.	No	10			
	1,2mm Rebated frames suitable for one brick walls:					
4	Frame for door 813 x 2032mm high.	No	1			
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	Carried to Collection			R		
	Section No. 5			IX.		<u> </u>
	Bill No. 9					
	Metalwork					
	155					

					Thaban	ie PS
		Unit	Quantity	Rate	Amount	
	STEEL WINDOWS, DOORS, ETC.					
	Standard residential windows with 12 x 12(B33) solid burglar bars to all sashes:					
5	Window type SWE37S/SWE37S, size 2044 x 954mm high.	No	1			
6	Window type SWE418, size 1511 x 1245mm high.	No	14			
7	Window type SW37, size 1022 x 1224mm high.	No	3			
8	Window type SWE31S, size 533 x 949mm high.	No	5			
9	Composite window type NG9/D4HS, size 1511 x 1623mm high.	No	1			
	STEEL STRONGROOM DOORS, VENTILATORS, ETC.					
	Strongroom doors etc. suitable for 220mm walls fixed to brickwork or concrete					
10	Double ended strongroom ventilator.	No	1			
11	Record room door and frame 1030 x 2010mm high overall with a mass of 324kg, including one 7lever security lock and wall mounted door stop	No	1			
	ALUMINIUM DOORS AND WINDOWS, ETC					
	Purpose made natural anodised aluminium windows glazed with 6mm thick laminated safety glass and plugged to brickwall or concrete					
12	Window 1525 x 1300mm high overall in clear panes.	No	3			
13	Window 2400 x 1300mm high overall in clear panes.	No	1			
	Purpose made natural anodised aluminium doors glazed with 6mm thick laminated safety glass and plugged to brickwall or concrete					
14	Double door size 1575 x 2125mm high in four panes with each leaf side hung and one pair type TS550 satin chromium plated double action floor spring hinges with standard open feature, including adjustable top centre and box let into concrete, two double cylinder lockset, and two pairs of AL5512-300BB ABL aluminium pull handles fixing back to back.	No	2			
	SECURITY BARRIERS					
15	Trellidoor 1600 x 2125mm high plugged.	No	2			
	Carried to Collection			R		
	Section No. 5					
	Bill No. 9 Metalwork					
	156					
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Thabane PS Unit Quantity Amount Rate STEEL LOUVRES, ETC Purpose made louvres: Triangular shaped (on elevation) residential section 16 louvred ventilators 3138 wide (at the horizontal bottom) x 571mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No. 256 galvanised mesh mosquito gauze, fixed with and including 3 x 20mm steel flat section cover strips screwed No 2 Ditto but approximately 3700 x 1000mm high overall No 2 17 Carried to Collection R Section No. 5 Bill No. 9 Metalwork 157

Amount <u>BILL NO. 9</u> **METALWORK COLLECTION** Page No Brought Forward from Page 155 156 157 Carried To Section Summary R Section No. 5 Bill No. 9 Metalwork 158

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 5 Medium Administration Block					
	BILL NO. 10					
	PLASTERING					
	PREAMBLES					
	FREAMBLES For preambles see "Specification of materials and methods to be used - PW371					
	SCREEDS					
	Screeds on concrete:					
	Screeds of wood floated on concrete to receive					
	ceramic tiles:					
1	30mm Thick on floors and landings.	m²	297			
	GRANOLITHIC					
	Untinted wood floated granolithic on concrete					
2	30mm Thick on floors and landings.	m²	4			
	INTERNAL PLASTER					
	Cement plaster on brickwork:					
3	On walls.	m²	658			
4	On narrow widths.	m²	6			
5	On concrete soffit.	m²	6			
6	CORNER PROTECTORS, DIVIDING STRIPS, ETC 30 x 3mm Flat section brass dividing strips between					
0	different floor finishes.	m	7			
	Carried To Section Summary			R		
	Section No. 5					
	Bill No. 10					
	Plastering 159					
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					Thaban	e PS
		Unit	Quantity	Rate	Amount	I
	SECTION NO. 5					
	Medium Administration Block					
	<u>BILL NO. 11</u> <u>TILING</u>					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	WALL TILING					
	200 x 200 x 10mm White glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere):					
1	On walls in isolated panels, splashbacks, etc.	m²	32			
2	On narrow widths.	m²	1			
-	FLOOR TILING					
	<u>300 x 300 x 11.5mm ceramic floor tiles (Prime Cost</u>					
	amount R250.00/m2 excluding vat) fixed with					
	adhesive to screed (screed elsewhere) and flush					
3	pointed with tinted waterproof jointing compound On floors and landings.	m²	297			
	-					
4	Skirting formed of ceramic tile cut to 300 x 75mm high	m	211			
	Carried To Section Summary			R		
	Section No. 5 Bill No. 11					
	Tiling					
	160					
						400

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	Unit	Quantity	Rate	Amount	
SECTION NO. 5					
SECTION NO. 5 Medium Administration Block					
BILL NO. 12					
PLUMBING AND DRAINAGE					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Concrete pipes:					
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.					
uPVC pressure pipes and fittings:					
Pipes for water supply shall be of the class stated.					
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.					
Pipes of 50mm 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.					
Copper pipes:					
Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground.					
Fixing of pipes					
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level					
Carried to Collection			R		
Section No. 5 Bill No. 12					
Plumbing And Drainage					
161					

				Ihabar	le PS
	Unit	Quantity	Rate	Amount	
Reducing fittings:					
Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm 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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.					
Wire gratings:					
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.					
Septic tanks:					
Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.					
Exposed concrete surfaces:					
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.					
Excavations:					
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.					
'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.					
Laying, backfilling, bedding, etc of pipes:					
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.					
Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.					
Flush pans:					
Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.					
Carried to Collection Section No. 5			R		
Bill No. 12					
Plumbing And Drainage					
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Unit Amount Quantity Rate Stainless steel basins, sinks, wash troughs, urinals, etc: Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable. Waste unions: Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings. RAINWATER DISPOSAL Approved .6mm galvanised sheet iron with "chromadek" finish ,in: 100 x 100mm Eaves gutters 79 1 m 2 Extra over eaves gutter for angle/corner. No 12 6 3 Extra over eaves gutter for stopped end No 4 Extra over eaves gutter for outlet for 75mm pipe. No 12 5 75mm Diameter rainwater pipes. m 48 6 Extra over rainwater pipe for bend. No 12 7 Extra over rainwater pipe for shoe. 12 No SANITARY FITTINGS 'Citimetal' stainless steel or equal approved: 8 Series single end bowl overlay sink, size 1200 x 535mm fitted to top of cabinet. No 1 "Vaal" or equal approved 510 x 405mm "Hibiscus" (code 7050) white vitreous 9 china rounded lavatory basin with two tapholes supported on and including two bolts(code 84467Z0) No 3 White vitreous china "Daisy" semi-close coupled 10 90degree outlet open rim washdown pan (code 774000) and matching 9litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat 2 No WASTE UNIONS ETC 'Cobra Watertech" or equal approved 38mm "Cobra 316" unslotted waste and plug with chain No 11 1 **TRAPS ETC** "Marley' or equal approved 12 40mm Flexi butyl rubber trap with reseal "P" trap No 1 Carried to Collection R Section No. 5 Bill No. 12 Plumbing And Drainage

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		Unit	Quantity	Rate	Amount	
	"Cobra Watertech" or equal approved					
13	"Cobra Ref. 365/40" CP Bottle trap.	No	2			
	TAPS, VALVES, ETC					
	'Cobra Watertech' or equal approved					
14	"Cobra Rf. 107EC-15" Bib tap plugged	No	3			
15	15mm Gate valves plugged	No	6			
16	"Cobra Ref. 232/350' Angle regulating valve	No	2			
17	"Cobra Ref. 166/041 wall type "Star" sink mixer with overarm swivel outlet	No	1			
	SANITARY PLUMBING					
	uPVC pipes:					
18	50mm Pipes	m	60			
19	110m Pipes.	m	55			
20	50mm Pipes laid in and including trenches not exceeding 1m deep.	m	25			
21	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	25			
	Extra over uPVC pipes for fittings:					
22	50mm Bend.	No	10			
23	100mm Bend.	No	8			
24	110mm Junction.	No	6			
25	50mm Junction.	No	12			
26	110mm Reducing junction.	No	6			
27	110mm Double junction.	No	5			
28	110mm Pan connector	No	2			
29	110mm "G1 Two-way " vent valve	No	2			
	Sundries:					
30	Testing waste pipe system.	Item				
	WATER SUPPLIES					
	Class 9 uPVC pressure pipes:					
31	63mm Pipes laid in and including trenches not exceeding 1000mmm deep	m	60			
	Carried to Collection			R		
	Section No. 5					
	Bill No. 12 Plumbing And Drainage					
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					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	Extra over uPVC pressure pipes for solvent welded pressure fittings:					
32	63mm Elbow	No	6			
33	63mm Tee	No	4			
34	63mm Reducer.	No	4			
	Class o copper pipes:					
35	15mm Pipes	m	30			
36	22mm Pipes.	m	40			
	Extra over class o copper pipes for capillary fittings:					
37	15mm Fittings.	No	20			
38	22mm Fittings.	No	15			
	Copper overflow and service pipes:					
39	15mm Service pipe 300mm girth.	No	1			
	Sundries:					
40	450 x 450m cast iron stopcock box including brick chamber below not exceeding 750mm deep internally.	No	1			
41	'ZIP Hydroboil code 3800' 25 litre white powder coated water boiler as manufactured by Franke Kitchen Systems, plugged and screwed to wall.	No	1			
	ELECTRICAL WATER HEATERS					
	"Kwikot" or equal approved					
42	150 litre Horizontally floor mounted electric water heater	No	1			
	Testing:					
43	Testing water pipe system.	Item				
	FIRE APPLIANCES ETC.					
	'Chubb' or equal approved:					
44	'Everyway' hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall					
	bracket.	No	1			
45	9kg Dry chemical fire extinguisher.	No	2			
	Carried to Collection			R		
	Section No. 5					
	Bill No. 12					
	Plumbing And Drainage 165					
I		I	I I	I	I	204

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	
46	RAINWATER HARVESTING Rainwater harvesting Allow a sum of R15 000.00/each (Fifteen Thousand Rands) for provision of 5000l Jojo or equal approved tank complete with lid, fittings, tap, concrete plinth as per Architect details		Quantity 2	Rate		e PS
	Carried to Collection			R		
	Section No. 5					
	Bill No. 12					
	Plumbing And Drainage					
	166					

		Thaban	e PS
		Amount	I
BILL NO. 12			
PLUMBING AND DRAINAGE			
COLLECTION			
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			<u> </u>
Carried To Section Summary	R		
Section No. 5 Bill No. 12			
Plumbing And Drainage			
167			

					Thabane PS
		Unit	Quantity	Rate	Amount
	SECTION NO. 5				
	Medium Administration Block				
	BILL NO. 13				
	<u>GLAZING</u>				
	PREAMBLES				
	For preambles see "Specification of materials and methods to be used - PW371				
	GLAZING TO STEEL WITH PUTTY				
	5mm Clear float glass:				
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	43		
	5mm Rough cast glass:				
2	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	2		
	TOPS, SHELVES, DOORS, MIRRORS, ETC.				
	6mm Silvered float glass copper backed mirrors with				
	polished edges fixed with double sided adhesive tape:				
3	Mirror 450 x 600 mm high.	No	3		
Ŭ		110	Ũ		
	Carried To Section Summary			R	
	Section No. 5				
	Bill No. 13				
	Glazing 168				
	108				

		Unit	Quantity	Rate	Amount
		Onit	Quantity	rate	
	SECTION NO. 5				
	Medium Administration Block				
	<u>BILL NO. 14</u> PAINTWORK				
	PREAMBLES				
	For preambles see "Specification of materials and methods to be used - PW371				
	ON FLOATED PLASTER				
	Prepare , etc as specified and apply two coats of super acrylic paint:				
1	On interior walls.	m²	658		
	ON FIBRE-CEMENT, ETC.				
	Prepare , etc as specified and apply two coats of super acrylic Pva paint:				
2	On ceilings and cornices.	m²	297		
3	On fascias and barge boards.	m	172		
	ON METAL				
	Prepare, etc as specified and apply two coats of gloss enamel paint on :				
4	Door frames	m²	16		
5	On windows with burglar bars (both sides measured).	m²	74		
6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area).	m²	21		
	Inside eaves gutter				
7	Inside eaves gutter with waterproofing paint	m²	60		
	ON WOOD, WOOD BOARD				
	Prepare,etc as specified and apply two coats of super acrylic Pva paint on:				
8	General surfaces of doors (interior).	m²	36		
	Prepare, etc as specified and apply two coats of polyurethane suede varnish:				
9	On open slatted seating.	m²	9		
10	On laminated beam.	m²	3		
	Carried To Section Summary Section No. 5			R	
	Bill No. 14				
	Paintwork				
	169				
					200

Amount

			Amount
	SECTION NO. 5		
	Medium Administration Block		
	SECTION SUMMARY		
Bill No.		Page	
1	FOUNDATIONS	138	
2	CONCRETE, FORMWORK AND REINFORCEMENT	141	
3	MASONRY	145	
4	WATERPROOFING	146	
5	ROOF COVERINGS	147	
6	CARPENTRY AND JOINERY	150	
7	CEILINGS PARTITIONS AND ACCESS FLOORING	151	
8	IRONMONGERY	154	
9	METALWORK	158	
10	PLASTERING	159	
11	TILING	160	
12	PLUMBING AND DRAINAGE	167	
13	GLAZING	168	
14	PAINTWORK	169	
	Carried to Final Summary	R	
	Section No. 5 SECTION SUMMARY		
	170		

# **SECTION NO. 6**

# **Nutritional Centre**

					Thabar	ie PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 6					
	<u>Nutritional Centre</u>					
	BILL NO. 1					
	FOUNDATIONS					
	PREAMBLES					
	For preambles see " Specification of materials and methods to be used - PW371"					
	SITE CLEARANCE ETC					
	Site clearance:					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m²	221			
	REMOVAL OF TREES, ETC.					
	Taking out and removing, grubbing up roots and filling in holes:					
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	1			
	EXCAVATION, FILLING, ETC OTHER THAN BULK					
	Excavation in earth not exceeding 2m deep:					
3	Trenches.	m³	152			
	Extra over trench and hole excavations in earth for excavation:					
4	Soft rock.	m³	8			
5	Hard rock.	m³	4			
	Risk of collapse of excavations:					
6	Sides of trench and hole excavations not exceeding 1,5m deep.	m²	230			
	Keeping excavations free of water:					
7	Keeping excavations free of all water other than subterranean water.	Item				
	Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:					
8	Backfilling to trenches, holes, etc.	m³	40			
9	Under floors, steps, pavings, etc.	m³	26			
	Carried to Collection			R		
	Section No. 6					
	Bill No. 1 Foundations					
	Foundations 172					
1			ı I			

					Thaban	le PS
		Unit	Quantity	Rate	Amount	
	Earth filling supplied by the Contractor and compacted to 95% Mod AASHTO density):					
10	Under floors, steps, pavings, etc.	m³	72			
	Cart Away					
	Extra over excavation for cart away:					
11		m³	14			
	Coarse river sand filling supplied by the Contractor:					
12	Under floors etc.	m³	9			
	COMPACTION					
	Compaction of surfaces:					
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90%.Mod AASHTO density.	m²	184			
	Prescribed density tests on filling:					
14	Modified AASHTO Density test.	No	16			
	SOIL POISONING					
	Soil insecticide:					
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	184			
16	To bottoms and sides of trenches etc.	m²	347			
	Carried to Collection Section No. 6 Bill No. 1 Foundations 173			R		

Amount <u>BILL NO. 1</u> **FOUNDATIONS COLLECTION** Page No Brought Forward from Page 172 173 Carried To Section Summary R Section No. 6 Bill No. 1 Foundations 174

Unit Quantity Amount Rate **SECTION NO. 6** Nutritional Centre **BILL NO. 2** CONCRETE, FORMWORK AND REINFORCEMENT PREAMBLES For preambles see "Specification of materials and methods to be used - PW371" **UNREINFORCED CONCRETE** 15Mpa/19mm Concrete Aprons cast in panels. 8 1 m³ Ramps. 5 2 m³ 3 Thickening down the edge of apron 150mm deep, 200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling etc 79 m **REINFORCED CONCRETE** 25MPa/19mm Concrete: Footings. m³ 20 4 5 Surface beds cast in panels on waterproofing. m³ 18 6 Slabs. m³ 1 **TEST BLOCKS** Test blocks: Making and testing set of three 150 x 150 x 150mm 7 concrete strength test cubes (Provisional). Sets 10 FINISHING TOP SURFACE OF CONCRETE 99 8 Paving to falls. m² **ROUGH FORMWORK (DEGREE OF ACCURACY III) Rough Formwork to Sides:** Edges and reveals not exceeding 300mm high or wide. 9 99 m Soffits 10 m² 4 **MOVEMENT JOINTS ETC** Two layers of .5mm galvanised mild steel slip joints between horizontal concrete and brick surfaces including cement mortar bed: Not exceeding 300mm wide. 70 11 m Carried to Collection R Section No. 6 Bill No. 2 Concrete, Formwork And Reinforcement 175

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:					
12	12mm Joints not exceeding 300mm high.	m	75			
	Dividing Strips ,etc					
13		m	35			
	REINFORCEMENT(PROVISIONAL)					
	Fabric reinforcement:					
14	Type 395 fabric reinforcement in concrete surface beds, slabs, etc.	m²	184			
	Mild steel reinforcement to structural concrete work:					
15	10mm Diameter bars.	Tonnes	1.00			
	High tensile steel reinforcement to structural concrete work:					
16	20mm Diameter bars.	Tonnes	1.00			
17	16mm Diameter bars.	Tonnes	3.00			
18	12mm Diameter bars.	Tonnes	1.00			
				_		
	Carried to Collection Section No. 6			R		
	Bill No. 2					
	Concrete, Formwork And Reinforcement					
	176					

Amount **BILL NO. 2** CONCRETE, FORMWORK AND REINFORCEMENT **COLLECTION** Page No Brought Forward from Page 175 176 Carried To Section Summary R Section No. 6 Bill No. 2 Concrete, Formwork And Reinforcement 177

					Thabar	ne PS
I		Unit	Quantity	Rate	Amount	1
	SECTION NO. 6					
	Nutritional Centre					
	<u>BILL NO. 3</u> MASONRY					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371"					
	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.					
	Face bricks:					
	Bricks shall be ordered timeously to obtain uniformity in size and colour.					
	Pointing:					
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.					
	SAMPLES					
	Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.					
	BRICKWORK IN FOUNDATIONS (PROVISIONAL)					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:					
1	Half brick walls.	m²	28			
2	One brick walls	m²	118			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:					
3	Half brick walls	m²	86			
4	One brick walls	m²	269			
	BRICKWORK SUNDRIES					
	Brickwork reinforcement:					
5	75mm Wide reinforcement built in horizontally.	m	376			
	Carried to Collection			R		
	Section No. 6					
	Bill No. 3					
	Masonry 178					
I	170				I	

			<b>O</b>	5	Ihaban	e PS
		Unit	Quantity	Rate	Amount	
6	150mm Wide reinforcement built in horizontally.	m	1 179			
	Prestressed fabricated lintels:					
7	110 x 75mm Lintels in lengths not exceeding 3m.	m	5			
	Turning pieces:					
8	220mm Wide turning piece to lintels etc.	m	72			
	Galvanised wire ties etc:					
9	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.(Provisional)	No	79			
	Galvanised hoop iron cramps, ties, etc:					
10	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork.(Provisional)	No	79			
	FACE BRICKWORK					
	Face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:					
11	Extra over brickwork for face brickwork.	m²	242			
12	Extra over brickwork for face brickwork in foundations (Provisional).	m²	56			
13	Half brick in facings in beamfilling	m²	24			
	FACE BRICKWORK COPINGS, SILLS, ETC.					
	Brick-on-edge header course copings, sills, etc of face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) and pointed with recessed joints on all exposed faces:					
14	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit.	m	72			
15	230mm Wide sill set sloping and slightly projecting.	m	30			
16	Coping on top of one brick wall pointed on exposed faces	m	18			
	NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:					
17	12 x 152mm Wide sills set flat and slightly projecting.	m	30			
	Carried to Collection Section No. 6 Bill No. 3			R		
	Masonry					
	179					

Amount <u>BILL NO. 3</u> MASONRY **COLLECTION** Page No Brought Forward from Page 178 179 Carried To Section Summary R Section No. 6 Bill No. 3 Masonry 180

					Thabane P	PS
I		Unit	Quantity	Rate	Amount	
	SECTION NO. 6					
	Nutritional Centre					
	BILL NO. 4					
	WATERPROOFING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:					
1	In walls.	m²	27			
	One lower of 250 mission Concel Plastics Cumples					
	One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:					
2	Under surface beds.	m²	184			
	JOINT SEALANTS ETC					
	Silicone sealing compound including backing cord,					
	bond breaker, primer, etc					
3	12 x 20mm in expansion joints in floors including raking out expansion joint filler as necessary (Provisional)	m	44			
4	12 x 20mm in vertical expansion joints in walls including raking out expansion joint filler as necessary	m	40			
				_		
	Carried To Section Summary			R		
	Section No. 6 Bill No. 4					
	Waterproofing					
	181					
I			I I	I	· · ·	220

					Thabar	e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 6					
	Nutritional Centre					
	BILL NO. 5 ROOF COVERINGS					
	ROOF COVERINGS					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW 371					
	PROFILED METAL SHEETING AND ACCESSORIES					
	0.58mm "Klip-lok light industrial" galvanised troughed sheet steel with "Globalcoat" finish one side (Colour Traffic Green), fixed to 76 x 50mm purlin complete under 5year quarantee by an approved firm of specialists, all in accordance with the materials supplied and methods employed by the manufacturer					
1	Roof covering with pitch not exceeding 25 degrees.	m²	212			
	0.58mm galvanised sheet iron, with "chromadek" one side in:					
2	Standard type FK3 ridge or hip flashing	m	28			
	Carried To Section Summary Section No. 6 Bill No. 5 Roof Coverings 182			R		

				Thaban	e PS
1	Unit	Quantity	Rate	Amount	
SECTION NO. 6					
Nutritional Centre					
BILL NO. 6 CARPENTRY AND JOINERY					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Particle board:					
Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.					
Joinery:					
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.					
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.					
Fixing:					
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.					
Decorative laminate finish:					
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.					
PREFABRICATED ROOF TRUSSES, ETC.					
Plate nailed timber roof truss construction:					
The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantee that the trusses are designed, manufactured, and erected, to support the roof coverings specified. The quarntee shall be valid for 10(ten) years .					
Carried to Collection Section No. 6 Bill No. 6			R		
Carpentry And Joinery 183					
163				11	

		Unit	Quantity	Rate	Amount	e PS
		Unit	Quantity	Nato	Amount	
	Sawn softwood:					
1	Roof construction to double pitched roof with two hipped ends approximately 184m2 (Nutritional centre) on plan including trusses, hipped ends, jack rafters, purlins, permanent bracing, etc (measured flat).	No	1			
	ROOF CONSTRUCTION					
	Sawn softwood :					
2	114 x 38mm Wall plates.	m	120			
3	50 x 228mm support beam	m	18			
	ROOF SUNDRIES					
	Sundries:					
4	Two coats creosote on sawn timbers.	m²	42			
	EAVES, VERGES, ETC					
	Everite FC77 pressed fibre-cement:					
5	10 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips.	m	79			
	DOORS ETC					
	Wrought meranti doors hung to steel frames:					
6	44mm Framed batten door 914 x 2032mm high of 44 x 150m top rail and stiles ,16 x 150mm middle ledge and braces and 22 x 220mm bottom rail, filled in with 22mmV-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round.	No	3			
7	44mm Framed batten double door size 3 380 x 4 128mm high of 44 x 150m top rail and stiles ,16 x 150mm middle ledge and braces and 22 x 220mm bottom rail, filled in with 22mmV-jointed one side boarding and covered on other side with 4mm plywood with veneer to match door, let into and including rebates all round.	No	1			
	SEMI SOLID CORE FLUSH DOORS					
	44 semi-solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames:					
8	40mm Door 813 x 2032mm high.	No	3			
	Carried to Collection			R		
	Section No. 6 Bill No. 6					
	Carpentry And Joinery					
	184					

		1	Amount	
BILL NO. 6				
CARPENTRY AND JOIN COLLECTION				
COLLEGNON		Page No		
		i ago i to		
	Brought Forward from Page	183		
		184		
Caption No. C	Carried To Section Summary	R		
Section No. 6 Bill No. 6				
Carpentry And Joinery	405			
	185			

					Thaban	e PS
		Unit	Quantity	Rate	Amount	I
	SECTION NO. 6					
	Nutritional Centre					
	BILL NO. 7					
	CEILINGS PARTITIONS AND ACCESS FLOORING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.					
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.					
	INSULATION					
	Aerolite insulation:					
1	100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m²	184			
	Wrought softwood					
2	19 x 76mm cornices nailed	m	153			
	NAILED UP AND SCREW UP CEILINGS					
	6mm Everite Nutec fibre-cement boards with H-type					
	steel cover strips over joints:					
3	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m²	184			
4	Extra over ceiling for hinged trap door size 610 x 610mm	No	2			
	Carried To Section Summary			R		
	Section No. 6			ĸ		
	Bill No. 7					
	Ceilings Partitions And Access Flooring					
	186					

					Thabar	ne PS
[		Unit	Quantity	Rate	Amount	
	SECTION NO. 6					
	Nutritional Centre					
	BILL NO. 8					
	IRONMONGERY					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Finishes to ironmongery:					
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.					
	HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC					
	<u>"Solid":</u>					
1	150mm 8052-150 Brass flush bolt with keep fixed to metal.	No	3			
2	150mm 8052-150 Brass flush bolt with keep let into concretet.	No	3			
3	CZ 80941WC indicator bolt with keep fixed to metal.	No	2			
	CATCHES, CABIN HOOKS, ETC					
	Solid:					
4	100mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	6			
	LOCKS					
	<u>Solid:</u>					
5	"Code 630" padlock.	No	3			
	<u>'Solid"</u>					
6	CZ6822461 "Gower" Four lever lockset.	No	9			
	DOOR CLOSERS					
	<u>"Yale"</u>					
7	Y202RC Door closer with cover fixed to metal	No	3			
	Carried to Collection Section No. 6			R		<u> </u>
	Bill No. 8					
	Ironmongery					
	187					
						22

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	
	BATHROOM FITTINGS Kimberley-Clark:					
8	19mm Diameter chromium plated towel rail 900mm long					
Ū	including flanged end brackets.	No	2			
9	Lockable toilet roll holder plugged.	No	2			
	SUNDRIES					
	Solid:					
10	38mm Diameter rubber door stop plugged.	No	9			
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC					
	<u>Vitrex:</u>					
11	Pinning board 2400 x 1200mm high plugged.	No	1			
						<u> </u>
	Carried to Collection			R		
	Section No. 6					
	Bill No. 8 Ironmongery					
	188					
						່ວວວ

Amount <u>BILL NO. 8</u> **IRONMONGERY COLLECTION** Page No Brought Forward from Page 187 188 Carried To Section Summary R Section No. 6 Bill No. 8 Ironmongery 189

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	I
	SECTION NO. 6					
	Nutritional Centre					
	<u>BILL NO. 9</u> METALWORK					
	METALWORK					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Descriptions of bolts shall be deemed to include nuts and washers.					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.					
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.					
	Mild steel handrails and balustrades fixed to base plates constructed of two number 6mm steel flat bar cut to profile mounted to wall with 6mm thick steel fixing plate welded to two steel flat bars with 4mm fillet welds chemical anchors (bolts included), 12mm diameter mild steel round spaced at 150mm centres, predrilled openning 3no in each upright, top rail to be 30mm thick x 100mm wide steel					
1	Balustrades including steel handrails approximately 1000mm high fixed to concrete.	m	4			
	Mild steel poles					
2	76 x 76 x 3mm mild steel square tubing columns 3m high secured on top of foundation with 5mm thick fixing plate including 10mm dia 4No. bolts	No	4			
	PRESSED STEEL DOOR FRAMES					
	1,2mm Rebated frames suitable for half brick walls:					
3	Frame for door 813 x 2032mm high.	No	5			
	1,2mm Rebated frames suitable for one brick walls:					
4	Frame for door 813 x 2032mm high.	No	1			
5	C C	-	1			
5	Frame for door 3 380 x 4 128mm high.	No	ļ			
	Carried to Collection Section No. 6 Bill No. 9			R		
	Metalwork					
	190					

					Thabar	ie PS
		Unit	Quantity	Rate	Amount	1
	STEEL WINDOWS DOODS ETC					
	STEEL WINDOWS, DOORS, ETC.					
	Standard residential windows with 12 x 12(B33) solid burglar bars to all sashes:					
6	Window type NE1, size 1 066 x 1 302mm high.	No	4			
7	Window type W1, SS41/SS41, size 2 604 x 1 956mm					
	high.	No	6			
8	Window type W2, SS42, size 2 604 x 1 956mm high.	No	4			
	WELDED SCREENS, GATES, ETC.					
	Mild steel frame out of 50 x 25 x 1.6mm rectangular tubing mitre 45 degrees at corner before welded and secured in opening with brackets welded to gate and bolted to wall.					
9	Frame including double steel gate size 1 710 x 4 370mm high (D6).	No	1			
10	Frame size 4 000 $\times$ 4 370mm high with and including double steel gates 2No. x 2 000 x 4 320mm high (D7)	No	1			
	STEEL ROLLER SHUTTERS ETC					
	Galvanised steel roller shutters with 76mm slats, fixed to brickwork or concrete					
11	Manual push-up slatted roller shutter for 2 185 x 2 400mm high opening	No	1			
12	Manual push-up slatted roller shutter for 4 800 x 4 370mm high opening	No	6			
	STEEL LOUVRES,ETC					
	Purpose made louvres:					
13	Ditto but approximately 3700 x 1000mm high overall	No	2			
	Carried to Collection Section No. 6 Bill No. 9 Metalwork 191			R		230

Amount <u>BILL NO. 9</u> **METALWORK COLLECTION** Page No Brought Forward from Page 190 191 Carried To Section Summary R Section No. 6 Bill No. 9 Metalwork 192

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 6					
	Nutritional Centre					
	<u>BILL NO. 10</u>					
	PLASTERING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SCREEDS					
	Screeds on concrete:					
	Screeds of wood floated on concrete to receive ceramic tiles:					
1	30mm Thick on floors and landings.	m²	152			
	GRANOLITHIC					
	Untinted wood floated granolithic on concrete					
2	30mm Thick on floors and landings.	m²	32			
	INTERNAL PLASTER					
	Cement plaster on brickwork:					
3	On walls.	m²	468			
4	On narrow widths.	m²	6			
	CORNER PROTECTORS, DIVIDING STRIPS, ETC					
5	30 x 3mm Flat section brass dividing strips between					
	different floor finishes.	m	34			
	Carried To Section Summary			R		
	Section No. 6					
	Bill No. 10					
	Plastering 193					
	193					

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	1
	SECTION NO. 6					
	Nutritional Centre					
	BILL NO. 11					
	TILING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	WALL TILING					
	200 x 200 x 5mm White glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere):					
1	On walls in isolated panels, splashbacks, etc.	m²	40			
2	On narrow widths.	m²	1			
	FLOOR TILING					
	300 x 300 x 11.5mm glazed floor tiles (Prime Cost amount R250.00/m2 excluding vat) fixed with adhesive to screed (screed elsewhere) and flush					
	pointed with tinted waterproof jointing compound					
3	On floors and landings.	m²	152			
4	Skirting formed of ceramic tile cut to 300 x 75mm high	m	153			
	Carried To Section Summary Section No. 6 Bill No. 11 Tiling 194			R		

				Thaban	e PS
1	Unit	Quantity	Rate	Amount	
SECTION NO. 6					
Nutritional Centre BILL NO. 12					
DILL NO. 12 PLUMBING AND DRAINAGE					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Concrete pipes:					
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.					
uPVC pressure pipes and fittings:					
Pipes for water supply shall be of the class stated.					
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.					
Pipes of 50mm 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.					
Copper pipes:					
Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground.					
Fixing of pipes					
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level					
Carried to Collection Section No. 6 Bill No. 12			R		
Plumbing And Drainage					
195					

Unit     Cuantity     Rate     Amount       Reducing fittings:     Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters net exceeding 60mm 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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given and no claim for exceeding 60mm all sizes are given analysis.     Image: Contractor with the manufacturer's instructors.       Exposed surfaces of concrete stormwater channels, cover shals, inspection on example, inspection on the analysis, utility of post clanks;     Image: Contractor has timeously notified the quantity survey of there of prior to backfilling.       Where end for to backfilling.     Contractor has timeously notified the quantity survey of there of prior backfilling.     Image: Contractor has timeously notified the quantity survey of there of prior backfilling.       Strape shall be laid and bedded and trenches shall be carefully backfilled in accordance with clauses 3, 5, 5, 5, 5, 7, and 7 of SAB.     Image: Contractor as the post re					Ihaban	ie PS
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Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.       R         Carried to Collection       R         Section No. 6       Bill No. 12         Plumbing And Drainage       Image	be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5,					
'S' traps as necessary.  Carried to Collection  R  R  Plumbing And Drainage	Flush pans:					
Section No. 6 Bill No. 12 Plumbing And Drainage						
Section No. 6 Bill No. 12 Plumbing And Drainage						
Bill No. 12 Plumbing And Drainage				R		
196	Plumbing And Drainage					
	196					

Unit Quantity Amount Rate Stainless steel basins, sinks, wash troughs, urinals, etc: Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable. Waste unions: Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings. RAINWATER DISPOSAL Approved .6mm galvanised sheet iron with "chromadek" finish ,in: 100 x 100mm Eaves gutters 79 1 m 2 Extra over eaves gutter for angle/corner. No 6 Extra over eaves gutter for stopped end 6 3 No 4 Extra over eaves gutter for outlet for 75mm pipe. No 6 5 75mm Diameter rainwater pipes. m 24 6 Extra over rainwater pipe for bend. No 6 7 Extra over rainwater pipe for shoe. 6 No SANITARY FITTINGS 'Citimetal' stainless steel: 8 Series single end bowl overlay sink, size 1200 x 535mm fitted to top of cabinet. No 1 "Vaal" 510 x 405mm "Hibiscus" (code 7050) white vitreous 9 china rounded lavatory basin with two tapholes supported on and including two bolts(code 84467Z0) No 3 White vitreous china "Daisy" semi-close coupled 10 90degree outlet open rim washdown pan (code 774000) and matching 9litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat 2 No Precast concrete Double precast concrete wash trough size 1000 x 600 x 11 320mm, (bowl size 430 x 320 x 320mm deep) complete with pair of PCC stand size 508mm high x 390mm wide including fittings fixed to walls. No 1 Carried to Collection R Section No. 6 Bill No. 12 Plumbing And Drainage

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	WASTE UNIONS ETC					
	<u>'Cobra Watertech"</u>					
12	38mm "Cobra 316" unslotted waste and plug with chain	No	1			
	TRAPS ETC					
	<u>"Marley'</u>					
13	40mm Flexi butyl rubber trap with reseal "P" trap	No	1			
	<u>"Cobra Watertech"</u>					
14	"Cobra Ref. 365/40" CP Bottle trap.	No	2			
	TAPS, VALVES, ETC					
15	<u>'Cobra Watertech':</u> "Cobra Rf. 107EC-15" Bib tap	No	5			
15	15mm Gate valves	No	6			
17	"Cobra Ref. 232/350' Angle regulating valve	No	2			
18	"Cobra Ref. 166/041 wall type "Star" sink mixer with overarm swivel outlet	No	1			
	SANITARY PLUMBING					
	uPVC pipes:					
19	50mm Pipes	m	60			
20	110m Pipes.	m	55			
21	50mm Pipes laid in and including trenches not exceeding 1m deep.	m	25			
22	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	25			
	Extra over uPVC pipes for fittings:					
23	50mm Bend.	No	10			
24	100mm Bend.	No	8			
25	110mm Junction.	No	6			
26	50mm Junction.	No	12			
27	110mm Reducing junction.	No	6			
28	110mm Double junction.	No	5			
29	110mm Pan connector	No	2			
30	110mm "G1 Two-way " vent valve	No	2			
	Carried to Collection			R		
	Section No. 6					
	Bill No. 12 Plumbing And Drainage					
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					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	Sundries:					
31	Testing waste pipe system.	Item				
51		Item				
	WATER SUPPLIES					
	Class 9 uPVC pressure pipes:					
32	63mm Pipes laid in and including trenches not exceeding 1000mmm deep	m	60			
	Extra over uPVC pressure pipes for solvent welded pressure fittings:					
33	63mm Elbow	No	6			
34	63mm Tee	No	4			
35	63mm Reducer.	-	4			
35		No	4			
	<u>Class o copper pipes:</u>					
36	15mm Pipes	m	30			
37	22mm Pipes.	m	40			
	Extra over class o copper pipes for capillary fittings:					
38	15mm Fittings.	No	20			
39	22mm Fittings.	No	15			
	Copper overflow and service pipes:					
40	15mm Service pipe 300mm girth.	No	1			
	Sundries:					
41	450 x 450m cast iron stopcock box including brick chamber below not exceeding 750mm deep internally.	No	1			
42	'ZIP Hydroboil code 3800' 25 litre white powder coated					
	water boiler as manufactured by Franke Kitchen Systems, plugged and screwed to wall.					
	Systems, plugged and screwed to wall.	No	1			
	ELECTRICAL WATER HEATERS					
	<u>"Kwikot"</u>					
43	150 litre Horizontally floor mounted electric water heater	No	1			
	Testing:					
44	Testing water pipe system.	Item				
	Carried to Collection			R		
	Section No. 6					
	Bill No. 12					
	Plumbing And Drainage					
	199					
						220

					Thabar	ne PS
		Unit	Quantity	Rate	Amount	
	FIRE APPLIANCES ETC.					
	<u>'Chubb':</u>					
5	'Everyway' hose reel complete with 30m plastic hose,					
	chromium plated stopcock, shut-off nozzle and wall bracket.	No	1			
6	9kg Dry chemical fire extinguisher.	No	2			
	Rainwater Harvesting					
7	5000 litre 'JOJO' tank complete with lid and including,					
	fittings, tap, concrete plinth as per Architect details.	No	2			
	Carried to Collection			R		
	Section No. 6					
	Bill No. 12 Plumbing And Drainage					
	Plumbing And Drainage 200					
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			Thaban	e PS
1			Amount	
BILL NO. 12				
PLUMBING AND DRAIN	AGE			
<b>COLLECTION</b>				
		Page No		
	Brought Forward from Page	195		
		196		
		197		
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		199		
		200		
		200		
	Carried To Section Summary	R		
Section No. 6				
Bill No. 12 Plumbing And Drainage				
	201			
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					Thabane PS
		Unit	Quantity	Rate	Amount
	SECTION NO. 6				
	Nutritional Centre				
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	For preambles see "Specification of materials and methods to be used - PW371				
	GLAZING TO STEEL WITH PUTTY				
	<u>5 mm Clear float glass:</u>				
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	51		
	5 mm Rough cast glass:				
2	<u>5 mm Rough cast glass:</u> Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	6		
2		m-	0		
	TOPS, SHELVES, DOORS, MIRRORS, ETC.				
	6 mm Silvered float glass copper backed mirrors with polished edges fixed with double sided adhesive tape:				
3	 Mirror 450 x 600 mm high.	No	2		
	-				
	Carried To Section Summary			R	
	Section No. 6				
	Bill No. 13				
	Glazing				
	202				

						e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 6					
	Nutritional Centre					
	BILL NO. 14					
	PAINTWORK					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	All work are to be executed in strict accordance with the paint specifications of Dulux Coating Systems. The coating systems have a 5-star (6 years) durability rating, unless otherwise specified. Full specifications are available on request from Ansie Mangelsdorf Tel.: (011) 861-1000 Cell.: 082 801 9336).					
	Primer (first) coats may be thinned in accordance with the specifications of Dulux Coating Systems to aid the absorption of the paint.					
	All surfaces must be sound, clean and have a moisture content of less than 12%.					
	Where surfaces of plaster, etc. are sandy the first coat must be replaced with 'Dulux Durabond Bonding Liquid'.					
	ON FLOATED PLASTER					
	Prepare , etc as specified and apply two coats of super acrylic paint:					
1	On interior walls.	m²	468			
	ON FIBRE-CEMENT, ETC.					
	Prepare , etc as specified and apply two coats of super acrylic Pva paint:					
2	On ceilings and cornices.	m²	173			
3	On fascias and barge boards.	m	79			
	ON METAL					
	Prepare, etc as specified and apply two coats of gloss enamel paint on :					
4	Door frames	m²	11			
5	On windows with burglar bars (both sides measured).	m²	113			
6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area).	m²	52			
7	On steel poles	m	12			
	Carried to Collection Section No. 6 Bill No. 14			R		
	Paintwork					

					Thabane PS	
		Unit	Quantity	Rate	Amount	
	Inside eaves gutters					
8	Inside eaves gutters	m²	28			
U	Prepare,etc as specified and apply two coats of super acrylic Pva paint on:		20			
9	General surfaces of doors (interior).	m²	17			
9		111	17			
	ON WOOD, WOOD BOARD					
	Prepare, etc as specified and apply two coats of polyurethane suede varnish:					
10	On open slatted seating.	m²	9			
11	On doors	m²	31			
12	On laminated beam.	m²	16			
						-
	Carried to Collection Section No. 6			R		-
	Bill No. 14					
	Paintwork					
	204					

Amount <u>BILL NO. 14</u> PAINTWORK **COLLECTION** Page No Brought Forward from Page 203 204 Carried To Section Summary R Section No. 6 Bill No. 14 Paintwork 205

Amount

			Amount
	SECTION NO. 6		
	Nutritional Centre		
	SECTION SUMMARY		
Bill No.		Page	
1	FOUNDATIONS	174	
2	CONCRETE, FORMWORK AND REINFORCEMENT	177	
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	Carried to Final Summary	R	
	Section No. 6 SECTION SUMMARY		
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# SECTION NO. 7

# **Guard House**

Unit     Cuantity     Rate     Amount       SECTION NO. 7 Suard House Survey and the set of specification of materials and methods to be used - PW371" SITE CLEARANCE ETC Site clearance:     Image: Sec Specification of materials and methods to be used - PW371" SITE CLEARANCE ETC Site clearance:     Image: Sec Specification of materials and methods to be used - PW371" SITE CLEARANCE ETC Site clearance:     Image: Sec Specification of materials and methods to be used - PW371" SITE CLEARANCE ETC Site clearance:     Image: Sec Specification of materials and methods to be used - PW371" SITE clearance:     Image: Sec Specification of materials and methods to be used - PW371" SITE clearance:     Image: Sec Specification of materials and methods to be used - PW371" Site clearance:     Image: Sec Specification of materials and methods to be used - PW371" Site clearance:     Image: Sec Specification of materials and methods to be used - PW371" Site clearance:     Image: Specification of materials and methods to be used - PW371"       2     Tree stump exceeding 200mm and not exceeding Soomm girth.     Image: Specification of materials and material state of trench and hole excewations in earth for excewation in earth not exceeding material Sides of fornch and hole excavations not exceeding 1.5m deep.     Image: Specification of materials and/or prescribed stoch piles on site compacted to S322 Med AASHTO:     Image: Specification of materials and/or prescribed stoch piles on site compacted to S322 Med AASHTO:     Image: Specification of materials and/or prescribed stoch piles on site compacted to S322 Med AASHTO:     Image: Specification of materials and/or prescribed stoch piles on site compacted to S322 Med AASHTO:     Image: Specification Specification S322 Method AASHTO:     Image: Sp						Thaban	e PS
Suard House       BiLLNO.1         FOUNDATIONS       PREAMBLES         For preambles see * Specification of materials and methods to be used - PW371*       main of the second seco			Unit	Quantity	Rate	Amount	1
Suard House       BiLLNO.1         FOUNDATIONS       PREAMBLES         For preambles see * Specification of materials and methods to be used - PW371*       main of the second seco							
Suard House       BiLLNO.1         FOUNDATIONS       PREAMBLES         For preambles see * Specification of materials and methods to be used - PW371*       main of the second seco							
BiLL NO. 1       FOUNDATIONS         PREAMBLES       For preambles see "Specification of materials and methods to be used - FW371"         SITE CLEARANCE ETC       Site clearance:         1       Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.       m²         11       REMOVAL OF TREES, ETC.       m²         12king out and removing, grubbing up roots and filling in holes:       m²         2       Tree stump exceeding 200mm and not exceeding No       1         EXCAVATION, FILLING, ETC OTHER THAN BULK       Excavation in earth not exceeding 2m deep:         3       Trenches.       m³         3       Trenches.       m³         4       Soft rock.       m³         5       Sides of trench and hole excavations not exceeding m²       25         5       Keeping excavations free of all water other than subterframent water.       Item         6       Sides of trench and hole excavations and/or prescribed stock pilles on site compacted to 33% pilling to trenches, holes, etc.       m²         9       Under floors, steps, pavings, etc.       m²       9         11       Carried to Collection       R							
FOUNDATIONS       Image: set of the s							
PREAMBLES         For preambles see " Specification of materials and methods to be used - FW371"         SITE CLEARANCE ETC         Site clearance:         1       Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.         raking out and removing, grubbing up roots and filling in holes:         2       Tree stump exceeding 200mm and not exceeding 500mm girth.         Excavation in earth not exceeding 2m deep:         3       Trenches.         main in earth not exceeding 2m deep:         3       Trenches.         Extra over trench and hole excavations in earth for excavation:         Stide of trench and hole excavations not exceeding m <sup>3</sup> 2       Hard rock.         6       Sides of trench and hole excavations and/or prescribed stock piles on site compacted to 33% Mod AASHTO:         8       Backfilling to trenches, holes, etc.         9       Under floors, steps, pavings, etc.         Carried to Collection       R							
For preambles see " Specification of materials and methods to be used - PW371"         SITE CLEARANCE ETC Site clearance:         1       Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.       m <sup>2</sup> 11         REMOXAL OF TREES, ETC. Taking out and removing, grubbing up roots and filling in holes:       m <sup>2</sup> 11         2       Tree stump exceeding 200mm and not exceeding 500mm girth.       No       1         EXCAVATION, FILLING, ETC OTHER THAN BULK Excavation in earth not exceeding 2m deep:       m <sup>3</sup> 18         3       Trenches.       m <sup>3</sup> 18         Extra over trench and hole excavations in earth for excavation:       m <sup>3</sup> 2         4       Soft rock.       m <sup>3</sup> 1         6       Sides of trench and hole excavations not exceeding 1.5m deep.       m <sup>2</sup> 25         7       Keeping excavations free of all water other than subterranean water.       Item       1         8       Backfilling obtained from excavations and/or prescribed stock piles on site compacted to 33% Mod AASHTO:       m <sup>3</sup> 3         8       Backfilling to trenches, holes, etc.       m <sup>3</sup> 3       1         8       Backfilling obtained from excavations and/or prescribed stock piles on site compacted to 33% Mod AASHTO:       Keeping excavations free of all water other than subter		FOUNDATIONS					
methods to be used - PW371*         Site CLEARANCE ETC         Site clearance:         1         Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.         m**       11         REMOVAL OF TREES, ETC.         Taking out and removing, grubbing up roots and filling in holes:         21       Tree stump exceeding 200mm and not exceeding soom girth.         Softmap exceeding 200mm and not exceeding soom girth.         Excavation in earth not exceeding 2m deep:         3       Trenches.         m**       18         Extra over trench and hole excavations in earth for excavation; not exceeding 1,5m deep.         4       Soft rock.         5       Hard rock.         6       Sides of trench and hole excavations not exceeding 1,5m deep.         7       Keeping excavations free of water:         7       Keeping excavations free of all water other than subterranean water.         8       Backfilling obtained from excavations and/or prescribed stock piles on site compacted to 33% Mod AASHTO:         8       Backfilling to trenches, holes, etc.       m**         9       Under floors, steps, pavings, etc.       m**         8       Backfilling to trenches, holes, etc.       m**         9       Und		PREAMBLES					
Site clearance:       Digging up and removing rubbish, debris, vegetation, headqes, shrubs and trees not exceeding 200mm girth, bush, etc.       m²       11         REMOVAL OF TREES, ETC.       Taking out and removing, grubbing up roots and filling in holes:       nn²       11         2       Tree stump exceeding 200mm and not exceeding S00mm girth.       No       1         EXCAVATION, FILLING, ETC OTHER THAN BULK       Excavation in earth not exceeding 2m deep:       n³       18         3       Trenches.       m³       18       1         4       Soft rock.       m³       1         5       Had rock.       m³       1         6       Sides of trench and hole excavations not exceeding m²       25         7       Keeping excavations free of water:       n²       25         7       Keeping excavations free of all water other than subtermaen water.       Item       1         8       Backfilling to trenches, holes, etc.       m³       3       1         8       Backfilling to trenches, holes, etc.       m³       3       1         8       Backfilling to trenches, holes, etc.       m³       3       1         8       Backfilling to trenches, holes, etc.       m³       3       1         9       Under floors, steps, pavin							
1       Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.       m²       11         REMOVAL OF TREES, ETC.       Taking out and removing, grubbing up roots and filling in holes:       n²       11         2       Tree stump exceeding 200mm and not exceeding 500mm girth.       No       1         Excavation in earth not exceeding 2m deep:       n²       18         3       Trenches.       m²       18         Excavation:       a       2         4       Soft rock.       m²       2         5       Hard rock.       m²       1         Risk of collapse of excavations in earth for excavations in earth for excavations:       soft rock.       m²       25         5       Hard rock.       m²       1       1         6       Sides of trench and hole excavations not exceeding 1,5m deep.       m²       25         7       Keeping excavations free of all water other than subternamean water.       item       1         8       Backfilling to trenches, holes, etc.       m³       9       9         9       Under floors, steps, pavings, etc.       m³       3		SITE CLEARANCE ETC					
hedges, shrubs and trees not exceeding 200mm girth, bush, etc.       m²       11         REMOVAL OF TREES, ETC       Taking out and removing, grubbing up roots and filling in holes:       1         2       Tree stump exceeding 200mm and not exceeding 500mm girth.       No       1         2       Tree stump exceeding 200mm and not exceeding 500mm girth.       No       1         3       Trenches.       m³       18         Extra over trench and hole excavations in earth for excavation:       m³       1         4       Soft rock.       m³       1         5       Hard rock.       m³       1         6       Sides of trench and hole excavations not exceeding 1.5m deep.       m²       25         7       Keeping excavations free of water:       m²       25         7       Keeping excavations free of all water other than subterranean water.       Item       1         8       Backfilling to trenches, holes, etc.       m³       3       1         8       Backfilling to trenches, holes, etc.       m³       3       1         8       Backfilling to trenches, holes, etc.       m³       3       1         8       Backfilling to trenches, holes, etc.       m³       3       1         9       Under floo		Site clearance:					
Taking out and removing, grubbing up roots and filling in holes:       No       1         2       Tree stump exceeding 200mm and not exceeding S00mm girth.       No       1         EXCAVATION, FILLING, ETC OTHER THAN BULK Excavation in earth not exceeding 2m deep:       m <sup>3</sup> 18         Trenches.       m <sup>3</sup> 18         Extra over trench and hole excavations in earth for excavation:       m <sup>3</sup> 2         5       Hard rock.       m <sup>3</sup> 1         4       Soft rock.       m <sup>3</sup> 1         5       Hard rock.       m <sup>3</sup> 1         6       Sides of trench and hole excavations not exceeding m <sup>2</sup> 25         7       Keeping excavations free of water:       respective of the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:       m <sup>3</sup> 9         8       Backfilling to trenches, holes, etc.       m <sup>3</sup> 9       1         9       Under floors, steps, pavings, etc.       m <sup>3</sup> 3       1         Carried to Collection         8       Section No. 7       Tend to Collection       Tend       1         9       Under floors, steps, pavings, etc.       m <sup>3</sup> 3       1	1	hedges, shrubs and trees not exceeding 200mm girth,	m²	11			
filling in holes:       No       1         2       Tree stump exceeding 200mm and not exceeding 300mm girth.       No       1         EXCAVATION, FILLING, ETC OTHER THAN BULK Excavation in earth not exceeding 2m deep:       na       18         3       Trenches.       m³       18         Extra over trench and hole excavations in earth for excavation:       m³       2         4       Soft rock.       m³       1         5       Hard rock.       m³       1         6       Sides of trench and hole excavations not exceeding 1,5m deep.       m²       25         7       Keeping excavations free of water:       m²       25         8       Keeping excavations free of all water other than subterranean water.       Item       1         8       Backfilling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:       m³       9         9       Under floors, steps, pavings, etc.       m³       3       1         Carried to Collection No. 7 Bill No. 1 Foundations		REMOVAL OF TREES, ETC.					
500mm girth.       No       1         EXCAVATION, FILLING, ETC OTHER THAN BULK       Excavation in earth not exceeding 2m deep:       n         3       Trenches.       m³       18         Extra over trench and hole excavations in earth for excavation:       n³       2         5       Hard rock.       m³       1         Risk of collapse of excavations:       6       Sides of trench and hole excavations not exceeding 1,5m deep.       m²       25         Keeping excavations free of water:       r       Keeping excavations free of water:       r         7       Keeping excavations free of all water other than subterranean water.       Item       Item         Backfilling to trenches, holes, etc.       m³       9       Under floors, steps, pavings, etc.       m³       9         9       Under floors, steps, pavings, etc.       m³       3       Item       Item         Carried to Collection       R       Item       Item <tdi< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tdi<>							
Excavation in earth not exceeding 2m deep:       m <sup>3</sup> 18         Trenches.       m <sup>3</sup> 18         Extra over trench and hole excavations in earth for excavation:       m <sup>3</sup> 2         4       Soft rock.       m <sup>3</sup> 2         5       Hard rock.       m <sup>3</sup> 1         6       Sides of trench and hole excavations not exceeding 1,5m deep.       m <sup>2</sup> 25         7       Keeping excavations free of water:       m <sup>2</sup> 25         7       Keeping excavations free of water:       nem       1         8       Backfilling to trenches, holes, etc.       m <sup>3</sup> 9         9       Under floors, steps, pavings, etc.       m <sup>3</sup> 3         6       Section No. 7       Section No. 7       m <sup>3</sup> 3	2		No	1			
Excavation in earth not exceeding 2m deep:       m <sup>3</sup> 18         Trenches.       m <sup>3</sup> 18         Extra over trench and hole excavations in earth for excavation:       m <sup>3</sup> 2         4       Soft rock.       m <sup>3</sup> 2         5       Hard rock.       m <sup>3</sup> 1         6       Sides of trench and hole excavations not exceeding 1,5m deep.       m <sup>2</sup> 25         7       Keeping excavations free of water:       m <sup>2</sup> 25         7       Keeping excavations free of all water other than subterranean water.       Item       1         8       Backfilling to trenches, holes, etc.       m <sup>3</sup> 9         9       Under floors, steps, pavings, etc.       m <sup>3</sup> 3         6       Section No. 7       Section No. 7       m <sup>3</sup> 3         8       Section No. 7       Section No. 7       Item       Keeping excavations       Item		EXCAVATION, FILLING, ETC OTHER THAN BULK					
3       Trenches.       m³       18         4       Soft rock.       m³       2         5       Hard rock.       m³       1         6       Sides of trench and hole excavations not exceeding 1,5m deep.       m²       25         7       Keeping excavations free of water: number of means and/or prescribed stock piles on site compacted to 93% Mod AASHTO:       m³       9         8       Backfilling to trenches, holes, etc.       m³       9       1         9       Under floors, steps, pavings, etc.       m³       3       7         Reriot No. 7 Bill No. 1 Foundations       Carried to Collection       m³       8       1							
excavation:       main       main <td>3</td> <td></td> <td>m³</td> <td>18</td> <td></td> <td></td> <td></td>	3		m³	18			
4       Soft rock.       m³       2         5       Hard rock.       m³       1         6       Risk of collapse of excavations: Sides of trench and hole excavations not exceeding 1,5m deep.       m²       25         7       Keeping excavations free of water: Keeping excavations free of all water other than subterranean water.       Item							
5       Hard rock.       m³       1         6       Risk of collapse of excavations: Sides of trench and hole excavations not exceeding 1,5m deep.       m²       25         7       Keeping excavations free of water: Keeping excavations free of all water other than subterranean water.       Item       1         8       Backfilling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:       m³       9         9       Under floors, steps, pavings, etc.       m³       9         9       Under floors, steps, pavings, etc.       m³       9         Section No. 7 Bill No. 1 Foundations       Carried to Collection       K       K	4		m³	2			
Risk of collapse of excavations:       m²       25         Sides of trench and hole excavations not exceeding 1,5m deep.       m²       25         Keeping excavations free of water:       Item       Item         Keeping excavations free of all water other than subterranean water.       Item       Item         Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:       m³       9         Backfilling to trenches, holes, etc.       m³       9       Inder floors, steps, pavings, etc.       m³         Carried to Collection       m³       3       R	-						
6       Sides of trench and hole excavations not exceeding 1,5m deep.       m²       25         7       Keeping excavations free of water: Keeping excavations free of all water other than subterranean water.       Item       Item         7       Keeping excavations free of all water other than subterranean water.       Item       Item         8       Backfilling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:       m³       9         9       Under floors, steps, pavings, etc.       m³       3         6       Section No. 7 Bill No. 1 Foundations       Carried to Collection       R	э		m	1			
1,5m deep.       m²       25         Keeping excavations free of water:       Item         Keeping excavations free of all water other than subterranean water.       Item         Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:       m³       9         Backfilling to trenches, holes, etc.       m³       9         Under floors, steps, pavings, etc.       m³       3         Section No. 7       Bill No. 1       Foundations							
7       Keeping excavations free of all water other than subterranean water.       Item	6	5	m²	25			
subterranean water.       Item         Earth filling obtained from excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO:       m³       9         8       Backfilling to trenches, holes, etc.       m³       9         9       Under floors, steps, pavings, etc.       m³       3         Carried to Collection       R		Keeping excavations free of water:					
prescribed stock piles on site compacted to 93%       m3       g         8       Backfilling to trenches, holes, etc.       m3       g         9       Under floors, steps, pavings, etc.       m3       3         Carried to Collection       R	7		Item				
9 Under floors, steps, pavings, etc. m <sup>3</sup> 3 R		prescribed stock piles on site compacted to 93%					
Carried to Collection       R       Section No. 7       Bill No. 1       Foundations	8	Backfilling to trenches, holes, etc.	m³	9			
Carried to Collection       R       Section No. 7       Bill No. 1       Foundations	9	Under floors, steps, pavings, etc.	m³	3			
Section No. 7 Bill No. 1 Foundations							
Section No. 7 Bill No. 1 Foundations							
Section No. 7 Bill No. 1 Foundations		Carried to Collection			R		
Bill No. 1 Foundations					, iv		<u> </u>
208							
		208					

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	I
	Earth filling supplied by the Contractor and					
10	compacted to 95% Mod AASHTO density):					
10	Under floors, steps, pavings, etc.	m³	3			
	Cart Away					
	Extra over excavation for cart away:					
11	Surplus material from excavations on site to a dumping site be located by the contractor	m³	4			
	Coarse river sand filling supplied by the Contractor:					
12	Under floors etc.	m³	1			
	COMPACTION					
	Compaction of surfaces:					
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90%.Mod AASHTO density.	m²	9			
	Proscribed density tests on filling:					
14	Prescribed density tests on filling: Modified AASHTO Density test.	No	2			
14		NO	2			
	SOIL POISONING					
	Soil insecticide:					
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m²	9			
16	To bottoms and sides of trenches etc.	m²	70			
	Carried to Collection			R		
	Section No. 7					
	Bill No. 1					
	Foundations					
	209					

1		1	Amount	
BILL NO. 1 FOUNDATIONS COLLECTION		Page No		
	Brought Forward from Page	208 209		
Section No. 7 Bill No. 1 Foundations	Carried To Section Summary	R		
	210			

Unit Quantity Amount Rate SECTION NO. 7 **Guard House BILL NO. 2** CONCRETE, FORMWORK AND REINFORCEMENT PREAMBLES For preambles see "Specification of materials and methods to be used - PW371" **UNREINFORCED CONCRETE** 15Mpa/19mm Concrete Aprons cast in panels. 1 1 m³ Ramps. 2 m<sup>3</sup> 1 3 Thickening down the edge of apron 150mm deep, 200mm top and tapering to 100mm at bottom including all excavations, formwork, backfilling etc 11 m 4 Footings. m³ 4 **REINFORCED CONCRETE** 25MPa/19mm Concrete: Surface beds cast in panels on waterproofing. 5 m³ 1 TEST BLOCKS Test blocks: Making and testing set of three 150 x 150 x 150mm 6 concrete strength test cubes (Provisional). Sets 2 7 m² Paving to falls. 11 FINISHING TOP SURFACE OF CONCRETE **ROUGH FORMWORK (DEGREE OF ACCURACY III) Rough Formwork to Sides:** 8 Edges and reveals not exceeding 300mm high or wide. 11 m **MOVEMENT JOINTS ETC** Two layers of .5mm galvanised mild steel slip joints between horizontal concrete and brick surfaces including cement mortar bed: 9 Not exceeding 300mm wide. 5 m Carried to Collection R Section No. 7 Bill No. 2 Concrete, Formwork And Reinforcement 211

				Thaban	e PS
	Unit	Quantity	Rate	Amount	
Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:					
12mm Joints not exceeding 300mm high.	m	4			
Dividing Strips ,etc					
6 x 38mm Angle iron step guard cast into concrete with 3x 6mm anchors	m	1			
REINFORCEMENT(PROVISIONAL) Fabric reinforcement:					
Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m²	9			
Carried to Collection Section No. 7 Bill No. 2			R		
Concrete, Formwork And Reinforcement					
212					

Amount **BILL NO. 2** CONCRETE, FORMWORK AND REINFORCEMENT **COLLECTION** Page No Brought Forward from Page 211 212 Carried To Section Summary R Section No. 7 Bill No. 2 Concrete, Formwork And Reinforcement 213

					Thabar	ne PS
I	I	Unit	Quantity	Rate	Amount	1
	SECTION NO. 7					
	<u>SECTION NO. 7</u> Guard House					
	BILL NO. 3					
	MASONRY					
	PREAMBLES For preambles see "Specification of materials and					
	methods to be used - PW371"					
	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.					
	Face bricks:					
	Bricks shall be ordered timeously to obtain uniformity in size and colour.					
	Pointing:					
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.					
	SAMPLES					
	Samples of all masonry building units, except those for walls described as 'load bearing', shall consist of a minimum of 6 units. Samples of building units to be used in walls described as 'load bearing' shall consist of 30 units from every 30 000 units delivered to site.					
	BRICKWORK IN FOUNDATIONS (PROVISIONAL)					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:					
1	Half brick walls.	m²	3			
2	One brick walls	m²	11			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:					
3	Piers	m³	1			
4	Half brick walls	m²	9			
5	One brick walls	m²	34			
	Carried to Collection			R		
	Section No. 7					
	Bill No. 3 Masonry					
	Masonry 214					
I			I I	I	I	

		Unit	Quantity	Rate	er3
	BRICKWORK SUNDRIES				
	Brickwork reinforcement:		200		
6	75mm Wide reinforcement built in horizontally.	m	36		
7	150mm Wide reinforcement built in horizontally.	m	149		
	Prestressed fabricated lintels:				
8	110 x 75mm Lintels in lengths not exceeding 3m.	m	1		
	Turning pieces:				
9	220mm Wide turning piece to lintels etc.	m	6		
	Galvanised wire ties etc:				
10	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.(Provisional)	No	11		
		NO			
	Galvanised hoop iron cramps, ties, etc:				
11	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork.(Provisional)	No	11		
	FACE BRICKWORK				
	Face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints:				
12	Extra over brickwork for face brickwork.	m²	34		
13	Extra over brickwork for face brickwork in foundations (Provisional).	۲°	5		
14	Extra over brickwork for face brickwork to piers.	m²	12		
15	Half brick in facings in beamfilling	m²	5		
	FACE BRICKWORK COPINGS, SILLS, ETC.				
	Brick-on-edge header course copings, sills, etc of face bricks (Prime cost R5 500/1000 delivered to site excluding VAT) and pointed with recessed joints on all exposed faces:				
16	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit.	m	7		
17	230mm Wide sill set sloping and slightly projecting.	m	5		
18	Coping on top of one brick wall pointed on exposed faces	m	1		
	Carried to Collection Section No. 7 Bill No. 3 Masonry			R	
	215				

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	I
19	NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc: 12 x 152mm Wide sills set flat and slightly projecting.	m	5			
	Carried to Collection			R		
	Section No. 7 Bill No. 3					
	Masonry 216					
I	210	1	1		1	1

Amount

BILL NO. 3 MASONRY COLLECTION		Page No	
	Brought Forward from Page	214 215 216	
Section No. 7 Bill No. 3 Masonry	217	R	

					Thaban	e PS
		Unit	Quantity	Rate	Amount	I
	SECTION NO. 7					
	Guard House					
	BILL NO. 4					
	WATERPROOFING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer of 375 micron Consol Plastics Brikgrip DPC embossed damp proof course:					
1	In walls.	m²	6			
	One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:					
2	Under surface beds.	m²	9			
	JOINT SEALANTS ETC					
	Silicone sealing compound including backing cord,					
	bond breaker, primer, etc					
3	12 x 20mm in expansion joints in floors including raking out expansion joint filler as necessary (Provisional)	m	2			
4	12 x 20mm in vertical expansion joints in walls including raking out expansion joint filler as necessary	m	2			
	Carried To Section Summary Section No. 7 Bill No. 4 Waterproofing			R		
	218					
			,			257

					Thaban	e PS
I		Unit	Quantity	Rate	Amount	I
	SECTION NO. 7					
	Guard House					
	BILL NO. 5					
	ROOF COVERINGS					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW 371					
	General					
	PROFILED METAL SHEETING AND ACCESSORIES					
	<u>.5mm "Klip-lok light industrial" galvanised troughed</u> <u>sheet steel with "chromadek" finish one side,fixed to</u> <u>76 x 50mm purlin complete under 5year quarantee</u> <u>by an approved firm of specialists, all in accordance</u> <u>with the materials supplied and methods employed</u> <u>by the manufacturer</u>					
1	Roof covering with pitch not exceeding 25 degrees.	m²	12			
	.8mm galvanised sheet iron, with "chromadek" one side in:					
2	Standard type FK3 ridge or hip flashing	m	10			
	Carried To Section Summary Section No. 7 Bill No. 5 Roof Coverings			R		
	219					
1			. 1	I		

				Thaban	e PS
1	Unit	Quantity	Rate	Amount	
SECTION NO. 7					
Guard House					
BILL NO. 6					
CARPENTRY AND JOINERY					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Particle board:					
Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type.					
Joinery:					
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.					
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.					
Fixing:					
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.					
Decorative laminate finish:					
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.					
PREFABRICATED ROOF TRUSSES, ETC.					
Plate nailed timber roof truss construction:					
The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres Roof covering is 'Klip-lok' roof sheeting on 76 x 50mm purlins. Ceilings are 6mm sheeting on 38 x 50mm brandering .Refer to drawings at the end of these bills of quantities for full details. All trusses are fabricated in a factory by specialists approved by the Architect. All trusses shall be designed by a Registered Professional Engineer(in accordance with the draft SABS Code of Practice for Design of Timber Trusses). The manufacturer of trusses shall supply a written quarantee that the trusses are designed, manufactured, and erected, to support the roof coverings specified. The quarntee shall be valid for 10(ten) years .					
Carried to Collection Section No. 7 Bill No. 6			R		
Carpentry And Joinery 220					
220		1		11	

		Unit	Quantity	Rate		
		Onit	Quantity	Nate		
	Sawn softwood:					
1	Roof construction to double pitched roof with two hipped ends approximately 9m2 (Guard House) on plan including trusses, hipped ends, jack rafters, purlins, permanent bracing, etc (measured flat).	No	1			
	POOF CONSTRUCTION					
	ROOF CONSTRUCTION Sawn softwood :					
2	114 x 38mm Wall plates.	m	11			
2		m				
	ROOF SUNDRIES					
	Sundries:					
3	Two coats creosote on sawn timbers.	m²	2			
	EAVES, VERGES, ETC					
	Everite FC77 pressed fibre-cement:					
4	10 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips.	m	16			
	JOINERY SUNDRIES					
	Wrought Meranti					
5	450mm wide slatted seats, etc of 76 x 38mm thick (50mm centres) screwed under and including steel 50 x 50 x 3mm L section steel holed to concrete fixed with bolts	m²	1			
	SEMI SOLID CORE FLUSH DOORS					
	44 semi-solid flush doors with 3,2mm standard					
	hardboard covering on both sides hung to steel frames:					
6	40mm Door 813 x 2032mm high.	No	1			
	Carried to Collection			R		
	Section No. 7					
	Bill No. 6					
	Carpentry And Joinery					
	221					

ELL NO. 5 CARPENTRY AND JOINERY DOLLECTION Brought Forward from Page 220 231 24				Amount	
221         Carried To Section Summary         R         Image: Section No. 7         Bill No. 6         Carpentry And Joinery	CARPENTRY AND JOIN	ERY	Page No		
Section No. 7 Bill No. 6 Carpentry And Joinery		Brought Forward from Page			
Section No. 7 Bill No. 6 Carpentry And Joinery					
Section No. 7 Bill No. 6 Carpentry And Joinery					
Section No. 7 Bill No. 6 Carpentry And Joinery					
Section No. 7 Bill No. 6 Carpentry And Joinery					
Section No. 7 Bill No. 6 Carpentry And Joinery					
	Bill No. 6	Carried To Section Summary 222	R		

					Thaban	e PS
		Unit	Quantity	Rate	Amount	
	SECTION NO. 7					
	Guard House					
	BILL NO. 7					
	CEILINGS PARTITIONS AND ACCESS FLOORING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.					
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.					
	INSULATION					
	Aerolite insulation:					
1	100mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m²	9			
	Wrought softwood					
2	19 x 76mm cornices nailed	m	16			
	NAILED UP AND SCREW UP CEILINGS					
	6mm Everite Nutec fibre-cement boards with H-type					
	steel cover strips over joints:					
3	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres.	m²	9			
4	Extra over ceiling for hinged trap door size 610 x 610mm	No	1			
	Carried To Section Summary			R		
	Section No. 7			ĸ		
	Bill No. 7					
	Ceilings Partitions And Access Flooring					
	223					

					Thaban	ers
		Unit	Quantity	Rate	Amount	
	SECTION NO. 7					
	Guard House					
	BILL NO. 8					
	IRONMONGERY					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Finishes to ironmongery:					
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.					
	<u>HINGES, FLOOR SPRING HINGES, BOLTS, PANIC</u> BOLTS, ETC					
	<u>"Solid":</u>					
1	CZ 80941WC indicator bolt with keep fixed to metal.	No	1			
	LOCKS					
2	<u>'Solid"</u> CZ6822461 "Gower" Four lever lockset.	No	2			
2		NO	2			
	DOOR CLOSERS					
3	<u>"Yale"</u> Y202RC Door closer with cover fixed to metal	No	1			
		110				
	BATHROOM FITTINGS Kimberley-Clark:					
4	19mm Diameter chromium plated towel rail 900mm long					
4	including flanged end brackets.	No	1			
5	Lockable toilet roll holder plugged.	No	1			
	SUNDRIES					
	Solid:					
6	38mm Diameter rubber door stop plugged.	No	2			
	Carried To Section Summary			R		
	Section No. 7					
	Bill No. 8					
	Ironmongery					
	224					26

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	1
	SECTION NO. 7					
	<u>SECTION NO. 7</u> Guard House					
	BILL NO. 9					
	METALWORK					
	PREAMBLES For preambles see "Specification of materials and					
	methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Descriptions of bolts shall be deemed to include nuts and washers.					
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.					
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.					
	PRESSED STEEL DOOR FRAMES					
	1,2mm Rebated frames suitable for half brick walls:					
1	Frame for door 813 x 2032mm high.	No	1			
	1,2mm Rebated frames suitable for one brick walls:					
2	Frame for door 813 x 2032mm high.	No	1			
	STEEL WINDOWS, DOORS, ETC.					
	Standard residential windows with 12 x 12(B33) solid burglar bars to all sashes:					
3	Window type NCTX7S, size 1022 x 944mm high.	No	2			
4	Window type NCTX7S, size 1022 x 949mm high.	No	2			
5	Window type NCTX7S5, size 1511 x 949mm high.	No	1			
	STEEL LOUVRES,ETC					
	Purpose made louvres:					
6	Triangular shaped (on elevation) residential section louvred ventilators 3138 wide (at the horizontal bottom) x 571mm high overall, filled in with type LC fixed horizontal louvre blades fixed to surround and covered at back with No. 256 galvanised mesh mosquito gauze,fixed with and including 3 x 20mm steel flat section cover strips					
	screwed	No	2			
	Carried To Section Summary Section No. 7 Bill No. 9 Metalwork			R		
	225					

					Thabar	ne PS
		Unit	Quantity	Rate	Amount	I
	SECTION NO. 7					
	<u>Guard House</u> BILL NO. 10					
	PLASTERING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	GRANOLITHIC					
	Untinted wood floated granolithic on concrete					
1	30mm Thick on floors and landings.	m²	9			
2	75mm thick high grano skirting	m	14			
	INTERNAL PLASTER					
	Cement plaster on brickwork:					
3	On walls.	m²	43			
4	On narrow widths.	m²	2			
5	30 x 3mm Flat section brass dividing strips between different floor finishes.	m	1			
	CORNER PROTECTORS, DIVIDING STRIPS, ETC					
						<u> </u>
	Carried To Section Summary			R		
	Section No. 7					
	Bill No. 10					
	Plastering 226					
I	220	I	1		I	) 265

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	1
	SECTION NO. 7					
	Guard House					
	BILL NO. 11					
	<u>TILING</u>					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	WALL TILING					
	200 x 200 x 5mm White glazed ceramic tiles fixed					
	with adhesive to plaster (plaster elsewhere):					
1	On walls in isolated panels, splashbacks, etc.	m²	1			
•						
						<u> </u>
	Carried To Section Summary			R		
	Section No. 7					
	Bill No. 11					
	Tiling					
	227					

				Thaban	e PS
1	Unit	Quantity	Rate	Amount	I
SECTION NO. 7					
Guard House					
<u>BILL NO. 12</u>					
PLUMBING AND DRAINAGE					
PREAMBLES					
For preambles see "Specification of materials and methods to be used - PW371					
SUPPLEMENTARY PREAMBLES					
Concrete pipes:					
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.					
uPVC pressure pipes and fittings:					
Pipes for water supply shall be of the class stated.					
Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.					
Pipes of 50mm 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.					
Copper pipes:					
Pipes shall be hard drawn and half-hard pipes of the class stated. 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. Only compression fittings shall be used in walls or in ground.					
Fixing of pipes					
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level					
Carried to Collection			R		
Section No. 7					
Bill No. 12					
Plumbing And Drainage					
228					

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	Unit	Quantity	Rate	Amount	
Reducing fittings:					
Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm 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. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.					
Wire gratings:					
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings.					
Septic tanks:					
Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions.					
Exposed concrete surfaces:					
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.					
Excavations:					
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.					
'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.					
Laying, backfilling, bedding, etc of pipes:					
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.					
Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SAB.					
Flush pans:					
Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.					
Carried to Collection Section No. 7 Bill No. 12			R		
Plumbing And Drainage					
229					

Unit Quantity Amount Rate Stainless steel basins, sinks, wash troughs, urinals, etc: Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable. Waste unions: Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings. RAINWATER DISPOSAL Approved .6mm galvanised sheet iron with "chromadek" finish ,in: 100 x 100mm Eaves gutters 16 1 m 2 Extra over eaves gutter for angle/corner. No 4 Extra over eaves gutter for outlet for 75mm pipe. 2 3 No 4 75mm Diameter rainwater pipes. m 8 5 Extra over rainwater pipe for bend. No 2 6 Extra over rainwater pipe for shoe. No 2 **SANITARY FITTINGS** <u>"Vaal"</u> 510 x 405mm "Hibiscus" (code 7050) white vitreous 7 china rounded lavatory basin with two tapholes supported on and including two bolts(code 84467Z0) No 1 White vitreous china "Daisy" semi-close coupled 8 90degree outlet open rim washdown pan (code 774000) and matching 9litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat No 1 WASTE UNIONS ETC 'Cobra Watertech" 38mm "Cobra 316" unslotted waste and plug with chain 9 No 1 **TRAPS ETC** "Marley' 40mm Flexi butyl rubber trap with reseal "P" trap No 1 10 TAPS, VALVES, ETC 'Cobra Watertech': "Cobra Rf. 107EC-15" Bib tap 1 11 No Carried to Collection R Section No. 7 Bill No. 12 Plumbing And Drainage 230

					Thabar	ne PS
		Unit	Quantity	Rate	Amount	1
12	15mm Gate valves	No	2			
12			2			
10	<u>uPVC pipes:</u> 50mm Pipes	~	10			
13		m	10			
14	110m Pipes.	m	15			
15	50mm Pipes laid in and including trenches not exceeding 1m deep.	m	7			
16	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds.	m	20			
	Extra over uPVC pipes for fittings:					
17	50mm Bend.	No	4			
18	100mm Bend.	No	4			
19	110mm Junction.	No	2			
20	50mm Junction.	No	2			
21	110mm Reducing junction.	No	2			
22	110mm Double junction.	No	2			
23	110mm Pan connector	No	1			
24	110mm "G1 Two-way " vent valve	No	1			
	Sundries:					
25	Testing waste pipe system.	Item				
	WATER SUPPLIES					
	Class 9 uPVC pressure pipes:					
26	63mm Pipes laid in and including trenches not exceeding 1000mmm deep	m	30			
	Extra over uPVC pressure pipes for solvent welded pressure fittings:					
27	63mm Elbow	No	2			
28	63mm Tee	No	2			
29	63mm Reducer.	No	1			
	Class o copper pipes:					
30	15mm Pipes	m	15			
31	22mm Pipes.	m	10			
	Carried to Collection			R		
	Section No. 7					
	Bill No. 12 Plumbing And Drainage					
	Plumbing And Drainage 231					
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		Unit	Quantity	Rate	Amount	
	Extra over class o copper pipes for capillary fittings:					
32	15mm Fittings.	No	5			
33	22mm Fittings.	No	5			
55		NO	5			
34	Copper overflow and service pipes: 15mm Service pipe 300mm girth.	No	1			
34		INU	1			
25	Sundries:					
35	450 x 450m cast iron stopcock box including brick chamber below not exceeding 750mm deep internally.	No	1			
	Testing:					
36	Testing water pipe system.	Item				
	FIRE APPLIANCES ETC.					
	<u>'Chubb':</u>					
37	9kg Dry chemical fire extinguisher.	No	1			
						<u> </u>
	Carried to Collection			R		
	Section No. 7 Bill No. 12					
	Plumbing And Drainage					
	232					
						~ ~ ~

			Thaban	e PS
			Amount	
BILL NO. 12				
PLUMBING AND DRAINAGE				
COLLECTION				
		Page No		
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		252		
		_		
Carri Section No. 7	ed To Section Summary	R		
Bill No. 12				
Plumbing And Drainage				
	233			

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					Thaban	e PS
		Unit	Quantity	Rate	Amount	I
	SECTION NO. 7					
	Guard House					
	BILL NO. 13					
	GLAZING					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	GLAZING TO STEEL WITH PUTTY					
	<u>5 mm Clear float glass:</u>					
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	4			
	5 mm Rough cast glass:					
2	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m²	1			
	TOPS, SHELVES, DOORS, MIRRORS, ETC.					
	6 mm Silvered float glass copper backed mirrors with polished edges fixed with double sided adhesive tape:					
3	 Mirror 450 x 600 mm high.	No	1			
	Carried To Section Summary			R		
	Section No. 7					
	Bill No. 13 Glazing					
	234					
I	201		I		I	

					Thaban	e PS
I	I	Unit	Quantity	Rate	Amount	
	SECTION NO. 7					
	Guard House					
	BILL NO. 14					
	PAINTWORK					
	PREAMBLES					
	For preambles see "Specification of materials and methods to be used - PW371					
	SUPPLEMENTARY PREAMBLES					
	All work are to be executed in strict accordance with the paint specifications of Dulux Coating Systems. The coating systems have a 5-star (6 years) durability rating, unless otherwise specified. Full specifications are available on request from Ansie Mangelsdorf Tel.: (011) 861-1000 Cell.: 082 801 9336).					
	Primer (first) coats may be thinned in accordance with the specifications of Dulux Coating Systems to aid the absorption of the paint.					
	All surfaces must be sound, clean and have a moisture content of less than 12%.					
	Where surfaces of plaster, etc. are sandy the first coat must be replaced with 'Dulux Durabond Bonding Liquid'.					
	ON FLOATED PLASTER					
	Prepare , etc as specified and apply two coats of super acrylic paint:					
1	On interior walls.	m²	43			
	ON FIBRE-CEMENT, ETC.					
	Prepare , etc as specified and apply two coats of super acrylic Pva paint:					
2	On ceilings and cornices.	m²	9			
3	On fascias and barge boards.	m	16			
	ON METAL					
	Prepare, etc as specified and apply two coats of gloss enamel paint on :					
4	Door frames	m²	3			
5	On windows with burglar bars (both sides measured).	m²	10			
	Inside eaves gutter					
6	Inside eaves gutter with waterproofing based paint	m²	6			
	Carried to Collection Section No. 7 Bill No. 14 Paintwork			R		
	235					
						~ 7

					Thaban	e PS
1		Unit	Quantity	Rate	Amount	I
	Prepare,etc as specified and apply two coats of super acrylic Pva paint on:					
7	General surfaces of doors (interior).	m²	3			
	ON WOOD, WOOD BOARD					
	Prepare, etc as specified and apply two coats of					
	polyurethane suede varnish:					
8	On doors	m²	3			
	Carried to Collection			R		
	Section No. 7					
	Bill No. 14					
	Paintwork					
	236					
						275

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Amount <u>BILL NO. 14</u> PAINTWORK **COLLECTION** Page No Brought Forward from Page 235 236 Carried To Section Summary R Section No. 7 Bill No. 14 Paintwork 237

Amount

			Amount
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	Guard House		
	SECTION SUMMARY		
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2	CONCRETE, FORMWORK AND REINFORCEMENT	213	
3	MASONRY	217	
4	WATERPROOFING	218	
5	ROOF COVERINGS	219	
6	CARPENTRY AND JOINERY	222	
7	CEILINGS PARTITIONS AND ACCESS FLOORING	223	
8	IRONMONGERY	224	
9	METALWORK	225	
10	PLASTERING	226	
11	TILING	227	
12	PLUMBING AND DRAINAGE	233	
13	GLAZING	234	
14	PAINTWORK	237	
	Carried to Final Summary	R	
	Section No. 7 SECTION SUMMARY		
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# **SECTION NO. 8**

# **Provisional Sum**

			Thabane	PS
			Amount	
	SECTION NO. 8			
	Provisional Sum			
1	Attendance	Item		
2	Profit	ltem	250,000 (	20
3	Social Facilitator Attendance	ltem	250 000 0	00
4	Profit	ltem		
5 6	Occupational Health and Safety Consultant	Item Item	350 000 0	0
7	Attendance	ltem	350 000 0	0
' 8	Social Facilitator	ltem	250 000 0	חר
0	NOTE: All provisional sums are nett	nem	230 000 0	50
	The Client reserves the right to omit any or all provisional sums allowed in his tender without claim for loss of profit by the Contractor			
	Flags, Flag Poles & Plaque			
9	Provide the amount of R30 000.00 (Thirty Thousand Rands) for flags and plaque by a specialist	Item	30 000 0	00
10	Profit on above item.	Item		
11	Attendance on ditto.	Item		
	Signage			
12	Provide the sum of R20 000.00 (Twenty Thousand Rands) for signage	Item	20 000 0	00
13	Profit	Item		
14	Attendance	Item		
4.5	School furniture			
15	Provide the sum of R980 000.00 (Nine Hundred and Eighty Thousand Rands) for supply of school furniture	Item	980 000 0	00
16	Profit	Item		
17	Attendance	Item		
	Office equipments and furniture			
18	Provide the sum of R350 000.00 (Three Hundred and Fifty Thousand Rands) for supply of Office equipments, furniture, first aid kit and sick bed in the administration block by specialist.	ltem	350 000 0	00
		item		
	Carried To Section Summary	R		
	Section No. 8			
	Bill No. 1 Provisional Sums			
	240			

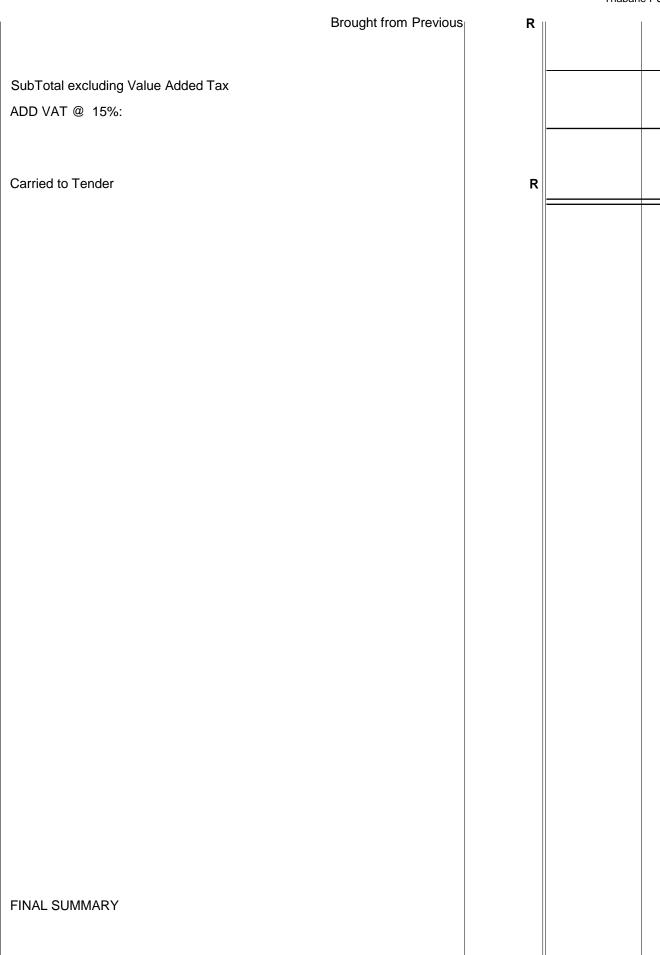
Thahane PS

			Thabane PS
			Amount
19	Profit	Item	
20	Attendance	Item	
20	Community liason officer	nom	
21	Provide the budgedary allowance of R150 000.00 (One Hundred and Fifty Thousand Rands) for employement of a community liason officer for labour requirements by the contractor and deducted in whole or part if not required.	ltem	150 000 00
22	Profit	Item	
23	Attendance	Item	
20	Project Steering Committee (PSC)	nom	
24	Provide the budgetary allowance of R12 000.00 (Twelve Thousand Rands) for employement of a PSC for labour requirements by the contractor and deducted in whole or part if not required.	ltem	12 000 00
25	Profit	Item	
26	Attendance	Item	
	Joinery fittings	Rom	
27	Provide the sum of R310 000 (Three Hundred and Ten Thousand Rands) for joinery fittings by specialist	ltem	310 000 00
28	Profit	Item	
29	Attendance	Item	
	Occupational Health and Safety Consultancy Provisions		
30	Provide the sum of R500 000.00 (Five Hundred Thousand Rands) for occupational health and safety provisions to be instituted by the appointed OHS consultant	ltem	500 000 00
31	Profit	Item	
32	Attendance	Item	
	WORK EXECUTED BY SEPARATE DIRECT CONTRACTORS (OHS)		
	The following work will be executed by contractors under direct agreement with the employer. The contractor is to accommodate these direct contractors and allow them to execute their work unhindered and allow them the use of water and toilet facilities. Damage caused by these contractors to work completed by the principal contractor is to be recorded in detail to enable the employer to counter-charge the direct contractors the cost of making good such damages.		
33	Occupational Health and Safety Consultant	Item	350 000 00
34	Profit	Item	
	Carried To Section Summary Section No. 8 Bill No. 1	R	
	Provisional Sums 241		
	241		

			Thabane	e PS
I			Amount	
35	Attendance	Item		
	WORK EXECUTED BY SEPARATE DIRECT CONTRACTORS (SF)			
	The following work will be executed by contractors under direct agreement with the employer. The contractor is to accommodate these direct contractors and allow them to execute their work unhindered and allow them the use of water and toilet facilities. Damage caused by these contractors to work completed by the principal contractor is to be recorded in detail to enable the employer to counter-charge the direct contractors the cost of making good such damages.			
36	Social Facilitator	Item	250 000	00
37	Profit	Item		
38	Attendance	Item		
50		nom		
	Carried To Section Summary	R		
	Section No. 8 Bill No. 1			
	Provisional Sums			
	242			

1		l	Amount
SECTION NO. 8			
Provisional Sum			
SECTION SUMMARY		_	
		Page	
	Brought forward from page	240	
	Brought forward from page	241	
	Brought forward from page	242	
	Carried to Final Summary	R	
Section No. 8			
SECTION SUMMARY			
	243		
I	240		

Section No.	FINAL SUMMARY	Page		
1	Preliminaries and Generals	40		
2	Alterations and Renovations (12CR, 33Enviro-loo)	67		
3	1 x 5 Classroom Block	100		
4	1 x 3 Grade R Classroom Block	134		
5	Medium Administration Block	170		
6	Nutritional Centre	206		
7	Guard House	238		
8	Provisional Sum	243		
	ADD: CONTINGENCIES Allow the Amount of R1 000 000 (One Million Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement. ADD: CPAP ALLOWANCE Allow the amount of R1 000 000 (One Million Rands) for CPAP (Contract Price Adjustment Provisions) as Item 38.5.3 of the Schedule in the Preliminaries Bill No.1, to be used in terms of Clause 28.11 of the Principal Building Agreement. ADD: PART B & PART C ELECTRICAL INSTALLATION AND CIVIL WORKS		1 000 000	
	Carried to Next FINAL SUMMARY 244	R		



### **REPUBLIC OF SOUTH AFRICA**

LIMPOPO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE

**THABANE PRIMARY SCHOOL** 

LDPWRI-B/20292

# PART B ELECTRICAL INSTALLATIONS BILLS OF QUANTITIES

Summary- Thabane School					
BILL	DESCRIPTION	AMOUNT			
1A and 1B	Preliminary and General and Transport				
2	Internal Installation				
3	Site Reticulation				
4	PVC Sleeves for Electric Installation				
5	HVAC				
6	Prov Sum for Eskom Bulk Power Supply	R 700 000,00			
7	Prov Sum for CCTV	R 100 000,00			
SUB TOTAL	A				
SUB TOTAL					
TOTAL FOR	THE WORKS				
New Rate Iter	ms:				
Mark-up perc	Mark-up percentage on New Rate Items%. Labour cost shall be based on the bill of rates.				
CONTRACTOR:					
SIGNATURE:					
DATE:					

Internal Installations Bill- Thabane School				
ITEM	DESCRIPTION	UNIT	Scheduled Qty	TOTAL
	BILL 2			
	CONDUIT WORK			
	Flush in walls, floors and concrete slabs against wooden and steel structures and walls in ceiling void, indoor and outdoor, chasing of floors and walls where necessary, etc.			
2	CONDUIT			
	20 mm dia PVC			
2,1	Material	m	4000	0,00
2,2	Installation	m	4000	0,00
	50 mm dia PVC			
2,3	Material	m	2000	0,00
2,4	Installation	m	2000	0,00
3	STEEL BOXES AND COVER PLATES			
	20mm PVC Round conduit boxes			
3,1	Material	No	170	0,00
3,2	Installation	No	170	0,00
	Galvanized Steel wall boxes with cover plates			
	100 x 50 x 50 mm			
3,3	Material	No	92	0,00
3,4	Installation	No	92	0,00
	TOTAL CARRIED FORWARD			0,00

NB. EXECUTION METHOD: L = LABOUR USE, M = MACHINERY USE

			Scheduled	
ITEM	DESCRIPTION	UNIT	Qty	TOTAL
	TOTAL BROUGHT FORWARD			0,00
4	CONDUCTORS			
	PVC Insulated copper conductors			
	1,5sq mm			
4,1	Material	m	0	
4,2	Installation	m	0	
	2,5sq mm			
4,3	Material	m	8000	0,00
4,4	Installation	m	8000	0,00
	4sq mm			
	Material	m	4000	0,00
4,6	Installation	m	4000	0,00
	6sq mm			
	Material	m	0	0,00
4,8	Installation	m	0	0,00
	TOTAL CARRIED FORWARD			0,00

			Scheduled	
ITEM	DESCRIPTION	UNIT	Qty	TOTAL
	TOTAL BROUGHT FORWARD			0,00
	Stranded Bare Copper Earth Wire			
	2,5sq mm			
4,11	Material			
4,12	Installation	m	4000	0,00
		m	4000	0,00
	4,0sq mm			
4,13	Material	m	2000	0,00
4,14	Installation	m	2000	0,00
	Galvanized Draw wire			
	1,5sq mm			
4,15	Material	m	2000	0,00
4,16	Installation	m	2000	0,00
5	SWITCHES, SOCKET OUTLETS AND ISOLATORS FOR FLUSH INSTALLATION INCLUDING COVERPLATES			
	Switches			
	16 A Single Lever 1 way			
5,1	Material	No	62	0,00
5,2	Installation	No	62	0,00
	16A 1 Lever 2 way			
5,3	Material			
5,4	Installation			

	Socket Outlets with switch			
	16A 3 pin Double 100 x 100			
5,5	Material	No	68	0,00
5,6	Installation	No	68	0,00
	Isolators			
	20A 2 pole, 100 x 100			
5,6	Material	No	23	0,00
5,7	Installation	No	23	0,00
	40A 2 pole, 100 x 100			
5,8	Material	No	24	0,00
5,9	Installation	No	24	0,00
	TOTAL CARRIED FORWARD			0,00

			Scheduled	
ITEM	DESCRIPTION	UNIT	Qty	TOTAL
	TOTAL BROUGHT FORWARD			0,00
6	SQUARE TUBING			
	<b>POWER SKIRTING</b> Supply and installation of power skirting complete with covers and end caps. Tenderers shall make provision for			
6,1	Material			
6,2	Installation			
7	PHOTOCELL / DAYLIGHT SWITCH Royce Thompson type Oasis 2000, Min lamp Load of 10A or equal			
7,1	Material	No	6	0,00
7,2	Installation	No	6	0,00
8	BONDING OF DISTRIBUTION BOARDS TO WATER AND ROOF			
	Installation	lot	6	0,00
9	EARTHING AND LIGHTING PROTECTION			
	Supply, install and test a complete class 2 lightning protection installation, including alu and cu conductors, test joints, steel conduits, earth electrodes etc.			
9,1	Material	lot	6	0,00
9,2	Installation	lot	6	0,00
10	TESTS OF THE COMPLETE ELECTRICAL INSTALLATION AND ISSUING OF COC'S			
10,1	Installation	lot	6	0,00
	Total for Bill 2 carried to summary sheet			0,00

			Scheduled	
ITEM	DESCRIPTION	UNIT	Qty	TOTAL
11	BILL 3 LIGHT FITTINGS Tenderer shall include tubes or lamps and 5A unswitched			
	plug in his tender rates. The light fittings shall be installed complete with lamps. Colour to be advised where not specified Light Fittings samples shall be submitted for approval before final order is made			
	TYPE 1 - (Surface mounted LED Open Channel, IP20, fitted with 2 x 18W LED tubes, minimum 2320lm output per tube, colour temp 4000k)			
	Material	No	154	0,00
	Installation	No	154	0,00
11,2	TYPE 2 - IP65, vapour proof, open channel with 2 x 24W T8 LED tubes with lumen output of 1720Im per tube.			
	Material	No	4	0,00
	Installation	No	4	0,00
11,3	TYPE B1 - IP65 Wall and ceiling mounted mounted bulkhead complete with 1 x 30W LED bulb .			
	Material	No	76	0,00
	Installation	No	76	0,00
11,4	Type 3 - Open Channel complete with 2 x 24W T8 LED tubes .Each tube to have a lumen output of 2315lm.			
	Material	No	0	0,00
	Installation	No	0	0,00
	Total for Bill 3 carried to summary sheet			0,00

			Scheduled	
ITEM	DESCRIPTION	UNIT	Qty	TOTAL
	BILL 4			
12	DISTRIBUTION BOARDS AND KIOSKS			
	Site Kiosk. Refer to the Kiosk Schematics			
	Material	No	1	0,00
12,2	Installation, including Kiosk plinth	No	1	0,00
	Block DBs, Refer to Schematics			
12,3	Material	No	6	0,00
12,4	Installation	No	6	0,00
	Telephone and Computer Distribution Board			
	500 x 500 x 250 mm surface type distribution board installed flush			
12,5	Material	No	1	0,00
	Installation	No	1	0,00
	Telephone point	No		
12,7	Material	No	5	0,00
	Installation	No	5	0,00
	Computer point			
12,9	Material	No	5	0,00
12,10	Installation	No	5	0,00
	Total for Bill 4 carried to summary sheet			0,00
ITEM	DESCRIPTION	UNIT	Scheduled Qty	TOTAL

#### SUMMARY OF QUANTITIES

BILL	DESCRIPTION	Scheduled Value
2	Conduit Work	0,00
3	Light Fittings	0,00
4	Distribution Board	0,00
	SUB TOTAL	0,00

TEM	DESCRIPTION	UNIT	Scheduled Qty	Rate	TOTAL
	BILL 5				
13	LOW VOLTAGE CABLES				
	Low Voltage cables 600 to 1000 PVC insulated steel wire armoured, copper cables underground cable				
	Cable in trenches, sleeves and building duct also in ceiling void if necessary				
	70 mm sq x 4 core				
	25mm sq x 2 core				
13,1	Material	m	100		0,00
13,2	Installation	m	100		0,00
	16mm sq x 2 core				
13,3	Material	m	300		0,00
13,4	Installation	m	300		0,00
	TERMINATIONS				
	25mm sq x 2 core				
13,5	Material	No	2		0,00
13,6	Installation	No	2		0,00
	16mm sq x 2 core				
13,7	Material	No	12		0,00
13,8	Installation	No	12		0,00
	TOTAL CARRIED FORWARD				0,00

### NB. EXECUTION METHOD: L = LABOUR USE, M = MACHINERY USE

ITEM	DESCRIPTION	UNIT	Scheduled Qty	TOTAL
	TOTAL BROUGHT FORWARD			0,00
14	COPPER EARTH WIRE			
	25mm sq			
14,1	Material	m	100	0,00
14,2	Installation	m	100	0,00
	16mm sq			
14,3	Material	m	300	0,00
14,40	Installation	m	300	0,00
15	Yellow Cable Marker / Danger Tape			
15,1	Material	m	25	0,00
	Installation	m	25	0,00
	TOTAL CARRIED FORWARD TO SUMMARY			0,00

#### SUMMARY OF QUANTITIES

BILL	DESCRIPTION	Scheduled Value
5	LOW VOLTAGE CABLES	0,00
	SUB TOTAL	0,00

ТЕМ	DESCRIPTION	UNIT	Scheduled Qty	Rate	TOTAL
	BILL 6				
16	PVC SLEEVES FOR ELECTRIC AND COMMUNICATION				
	PVC SLEEVES complete with bends				
	100mm dim				
16,1	Material	m	0		0,00
16,2	Installation	m	0		0,00
	50mm dim				
16,3	Material	m	200		0,00
16,4	Installation	m	200		0,00
	Excavation				
16,5	Soft Rock and Earth	m3	100		0,00
16,6	Hard Rock	m3	80		0,00
16,7	Very Hard Rock	m3	0		0,00
	Sifted Soil Bedding and Cover				
16,8	Material	m3	50		0,00
16,9	Labour	m3	50		0,00
17	Prepare As Built Drawings for all Layouts				
	As Built Drawings	lot	1		0,00
18	Manholes 600 x 600mm with Heavy duty Steel cover				
18,1	Material	No	3		0,00
18,2	Labour	No	3		0,00
19	Concrete Cable Markers				
19,1	Material	Lot	1		0,00
19,2	Labour	Lot	1		0,00

ITEM	DESCRIPTION	UNIT	Qty	TOTAL
	BILL 7			
	HVAC			
20	HVAC: Supply, delivery, installation, commissioning and testing of a 2.4 kW cooling capacity high wall split units complete with insulated refrigerant piping, condensate drains, trunking, electric wiring and connection and controls (heat pump), RECOMMENDED BRANDS are GREE, CARRIER, YORK AND LG			
20,1	High-wall split units, 2.4 kW cooling capacity/ 9000 BTU (heat pump) unit. Material Installation	No. No.	6	0,00 0,00
		NO.	0	0,00
20,2	Refrigerant piping pair (liquid and gas)	m		
,_	Material	m	100	0,00
	Installation	m	100	0,00
20,3	Drain piping			
20,0	Material	m	100	0,00
	Installation	m	100	0,00
	Hand Dryers			
21,1	Hand drier (XLERATOR or equivalent) at toilets (1400W high speed air jet, motor speed of at least 20000 RPM)			
21,2				
	Material	No	2	0,00
23	Installation	No	2	0,00
	TOTAL CARRIED FORWARD TO SUMMARY			0,00

#### SUMMARY OF QUANTITIES

BILL	DESCRIPTION	Scheduled Value
6	PVC SLEEVES FOR ELECTRIC AND COMMUNICATION	0,00
7	HVAC	0,00
	SUB TOTAL	0,00

# **REPUBLIC OF SOUTH AFRICA**

LIMPOPO DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE

**THABANE PRIMARY SCHOOL** 

LDPWRI-B/20292

# PART C CIVIL WORKS BILLS OF QUANTITIES

Item	Payment Reference	Description	Unit	Qty	Rate	Amount
	SABS 1200 D	SCHEDULE 1: EARTHWORKS				
		SITE CLEARANCE				
Alternative see	8.3.1	Clear and grub area for				
1200C 1200DM		Buildings	m²	1483.5		
Alternative		PREPARATION AND STRIPPING OF SITE				
1200DB 1200DM	8.3.1	Remove topsoil to a depth of 150mm and				
12000101		Stockpile on site within freehaul distance and maintain	m³	222.53		
		Spoil at designated spoil site	m³	89.01		
		EXCAVATION				
	8.3.2	Excavate in all materials and use as fill, compacted to 90% mod AASHTO density for:				
		Platforms	m³	267.03		
	8.3.2	Extra over item 8.3.2 (a) for				
		Intermediate excavation	m³	80.11		
		Hard rock excavation	m³	53.41		
		Boulder excavation class A	m³	5.34		
		Boulder excavation class B	m³	5.34		
		COMMERCIAL MATERIAL				
	8.3.4	Extra over item 8.3.2 (a) for importation of materials from:				
		Commercial sources selected by the Contractor	m³	178.02		
			тот/	AL CARRIE	D FORWARD	

Item	Payment Reference	Description	Unit	Qty	Rate	Amount
ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		TOTAL BROUGHT FORWARD				
		DESIGNATED BORROW PIT (ARRANGED BY EMPLOYER)				
	8.3.4	Extra over item 8.3.2 (a) for importation of materials from				
		Designated borrow pits	m³	890.10		
	8.3.4	Opening up and closing down of designated borrow pit	sum	1.00		
		OVERHAUL				
	8.3.6	Overhaul (Provisional)				
		Limited overhaul	m³	267.03		
		Long overhaul	m³.km	178.02		
		COMPACTION OF BACKFILLING				
	8.3.9	Selected material compacted to 93% mod AASHTO density	m³	1,068.12		
		Mod AASHTO Tests	No.	22.00		
Carried forw	ard to Summa	I ary of Schedules		<u> </u>		
Carried forw	vard to Summa	iry of Schedules				

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		SCHEDULE 2: EARTHWORKS (ROADS AND SUBGRADE)				
1	SANS	EARTHWORKS				
1.2		TREATMENT OF ROAD-BED				
1.2.1	8.3.3(a)	Road-bed preparation and compaction of material compacted to 93% MOD AASHTO maximum density	m <sup>3</sup>	330.60		
1.2.2	8.3.3(b)	In-place treatment of road-bed in intermediate or hard material				
		Ripping	m <sup>3</sup>	66.12		
1.3		EARTHWORKS				
1.3.1	8.3.4	Cut to fill				
		Compact to 90 % mod. AASHTO maximum density	m <sup>3</sup>	165.30		
		Selected layer compacted to 93 % mod. AASHTO maximum density	m <sup>3</sup>	165.30		
1.3.2	8.3.6	Extra-over items 1.3.1 inclusive for excavating and breaking down material in:				
		Intermediate excavation	m <sup>3</sup>	33.06		
		Hard excavation	m <sup>3</sup>	16.53		
1.3.3	8.3.7	Cut to spoil from				
		Soft excavation	m³	330.60		
		Intermediate excavation	m³	66.12		
		Hard excavation	m <sup>3</sup>	9.92		
1.3.4	8.3.8	Removal of oversize material	m³	4.96		
		TOTAL	CARRIED	FORWARD		

#### SCHEDULE 2: EARTHWORKS (ROADS AND SUBGRADE)

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			ΤΟΤΑ	L BROUGHT	FORWARD	
1.4	SABS 1200 DM	SUNDRIES				
	8.3.10	Materials bladed to windrow	m <sup>3</sup>	0.00		
	8.3.11	Extra-over items 8.3.7 and 8.3.8 for temporary stockpiling of material	m <sup>3</sup>	30.00		
		Construction of storm water berm allong the designated areas by engineer	m³	0.00		
1.5	SABS 1200 ME	SECTION : SUBBASE				
	8.3.1	Construct gravel wearing course with material from borrow pits in all materials				
		150mm to main carriageways	m³	330.60		
	8.3.4	Extra over items .1 to .2 inclusive for class of				
		Intermediate excavation	m³	66.12		
		Hard rock excavation	m <sup>3</sup>	49.59		
1.6	SANS 1200 MFL	BASE				
	8.3.1	Construct base with material from borrow pit				
		Stabilized base using material from borrow 150mm to 95% mod AASHTO	m³	330.60		
1.7	8.3.4	Stabilizing Agent				
		(b) Portland Cement	m³	9.92		
1.8		SEGMENTED BLOCK PAVING TO THE ACCESS ROAD				
	8.2.2	80mm Type S-A 35mPa for roadway (Grey	m²	0.00		
	8.2.2	60mm Type S-A 35mPa for roadway (Grey	m²	2,204.00		
	8.2.1	The construction of edge restraints	m	97.96		
			тот	AL CARRIED	FORWARD	

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
			ΤΟΤΑ	L BROUGHT	FORWARD	
1.8	SANS 1200 MK	KERBING AND CHANNELLING				
	8.2.2	Supply, bed, lay, & joint concrete sections:				
1.8.1		400X200 Concrete edge strip (Class 20/19 Concrete Strenath).				
		a) 1m Length on straight	m	120.00		
		b) 330mm Length on curves	m	20.00		
1.8.2		300X150 Barrier Kerb (SABS 927 Fig 3).	m	513.00		
1.8.3		Mountable Kerb (SABS 927 Fig 3).	m	102.60		
9	1200 DK	SUBSOIL DRAINS				
9.1	1200 DK 8.2	Supply and install A4 <b>Bidim</b> Geosynthetic materials to the <b>subsoil drains</b> , as per drawings.	m²	40.00		
9.2	1200 DK 8.2	Supply and install 110mm Class 6 HDPE perforated pipe to the <b>subsoil drains</b> outlet, as per drawings.	m	50.00		
9.3	1200 DK 8.2	Supply and install 1,5mm smooth <b>HDPE</b> Geomembrane as the liner to the channel, as per	m²	44.00		
9.4	1200 DK 8.2	Supply and install A7 <b>Bidim</b> Geosynthetic <b>proetction</b> layer to channel liner, as per drawings.	m²	60.00		
9.5	SANS 1200 AH	CONCRETE				
9.5.1	8.4.3	Supply, place and shape 25MPa c <b>oncrete in hyson</b> <b>cells</b> on the A10 <b>Bidim</b> Geosynthetic proetction laver , as per drawings.	m³	50.03		
9.5.2	8.4.3	Supply, place and shape 25MPa <b>concrete in hyson</b> <b>cells</b> in the <b>leachate outlet channel,</b> as per	m³	12.51		
			тот	AL CARRIED	FORWARD	
L						

#### SCHEDULE 2: EARTHWORKS (ROADS AND SUBGRADE)

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		TOTAL BROUGHT FORWARD				
10		STORMWATER MANAGEMENT				
	SANS	EARTHWORKS				
10.1		EXCAVATIONS				
10.1.1	1200 D 8.3.2	Excavate and prepare all cut off trenches and berms around the site as shown on the drawings and as directed by the Engineer.	m³	7.50		
10.1.2		Disposal of unsuitable or surplus material off site	m³	2.25		
10.2	SANS 1200 G	Concrete				
10.2.1	8.4.1	Mass concrete backfilling to replace unsuitable material, prescribed mix, Grade 10MPa/20 mm	m³	2.25		
10.2.2	8.4.2	Blinding layer, 50 mm minimum, prescribed mix, Grade 15MPa/20 mm	m²	2.50		
10.2.3	8.4.3	Strength concrete Grade 25 MPa/20 mm for:				
10.3		Concrete Channels	m³	11.25		
10.3.1	8.1.1	Formwork				
10.3.2	8.2.5	Rough, vertical, circular, maximum height 300 mm.	m	90.00		
10.3.3	8.2.5	Smooth, circular, vertical, 175 mm high to outer edge of base footing, (including forming of drainage lips with 110 mm dia drips)	m	20.00		
10.3.4	PSA8-11	Forming of drainage lips with 110 mm dia drips as per detail, Drawing	No	4.00		
10.3.5	8.4.4	Unformed surface finishes				
10.3.6		Steel float finish	m²	50.00		
			TOTAL (		SUMMARY	

ltem No.	Payment Refers	Short Description	Unit	Quantity	Rate	Amount
2	SABS 1200A	SCHEDULE 3 - STEEL PALISADE FENCING				
2.1	PCC-4.1	School Yard - Steel palisade fencingn 2,4m high according to specification including excavations, foundation concreting, posts, pales and ground beams. All as per drawing.	m	672.00		
2.2	PCC-4.1	Grdae R - Steel palisade fencingn 2,4m high according to specification including excavations, foundation concreting, posts, pales and ground beams. All as per drawing.	m	163.00		
2.3	PCC-4.1	Supply and install according to specification a 6m wide vehicular gate	No	1.00		
2.4	PCC-4.1	Supply and install according to specification 1.5m wide pedestrian gate as per drawing	No	1.00		
2.5	PCC-4.1	Grdae R - Supply and install according to specification 1.5m wide pedestrian gate as per drawing	No	1.00		
2.6	PCC-4.1	Repainting of the existing fence	m²	0.00		
SUB - T	TOTAL CA	RRIED TO SUMMARY				R 0.00

NO.	PAYMENI REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	4	AMOUNT
		SCHEDULE 4 : WATER SUPPLY PIPELINES AND WATER SOURCE					
	SABS 1200DB	EARTHWORKS : PIPE TRENCHES					
3.1		SITE CLEARANCE					
3.1.1	8.3.1(a)	Clear 2m wide vegetation and trees of girth up to 1m	m	1,820.00			
3.1.2	8.3.1(b)	Remove trees over 1 m and up to 2 m girth	No.	0.00			
3.2	PSDB12	EXCAVATION					
3.2.1		Excavate in all materials for trenches for pipes with a diameter between 20 mm and 100 mm, backfill compact and dispose of surplus/unsuitable material					
		Up to 1,5m in depth	m³	1,360.00			
3.2.1.1	8.3.2(b)	Extra-over item 3.2.1 incl. for excavation (provisional) in :					
		a) Intermediate material b) Hard rock material	m³ m³	304.00 228.00			
3.2.1.2		Extra over Item 3.2.1					
		a) Backfill and compact by means of labour intensive construction methods in layers of 200mm compacted to 90% mod AASHTO	m³	1,520.00			
3.2.2		EXCAVATION ANCILLARIES					
3.2.2.1	8.3.3.1(a)	Imported backfill materials from designated borrow pits (Only if approved by Engineer)	m³	532.00			
3.2.2.2	8.3.3.2	Opening up and closing down of designated borrow pit	P.Sum	1.00	22,000.00	R	22,000.00
3.2.2.3	8.3.3.3	Compaction in road reserves	m³	0.00			
3.2.2.4	8.3.3.4	Overhaul :					
		a) Short haul b) Truck haul	m³ m³/km	-			
<b>3.2.4</b> 3.2.4.1	SABS1200LB 8.2.1	PROVISION OF BEDDING (PIPES) Provision of bedding material from trench excavations					
		a) Selected granular material b) Selected fill material	m³ m³	228.00 532.00			
3.2.4.2		Provision of bedding material by importation from other necessary excavations (freehaul within the village boundaries)					
		a) Selected granular material b) Selected fill material	m³ m³	273.60 638.40			
TOTAL	CARRIED FOR	VARD					
						L	

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
	BROUGHT FOR	WARD				
3.2.4.4	8.2.3	Concrete bedding	m³	5.00		
3.2.4.5	8.2.4	Encasing of pipes in Class 19/20 concrete	m³	5.00		
3.2.4.6	8.2.5	Overhaul of material for bedding cradle and selected fill blanket	m³km	0.00		
3.2.5	1200L	PIPEWORK				
	8.2.1	Supply, lay, joint, bed, test and disinfect the following pipes complete with couplings and fittings to the relevant SABS standards including short lengths (all uPVC pipes to comply with DWS1160)				
3.2.5.1		uPVC pipes				
		a) 75 Class 12 b) 75 Class 9	m m	-		
3.2.5.2		HDPE pipes Type IV				
		a) 20 mm class 6 b) 50 mm class 6 c) 75 mm class 10	m m m	80.00 350.00 100.00		
3.2.5.3		GMS pipes (medium duty)				
		a) 15 mm Ø b) 20 mm Ø c) 25 mm Ø	m m m	- - -		
3.2.6		VALVES				
3.2.6.1		Line valve assemblies.				
		Extra over item F.6 for supplying, installing, bedding and testing line valve assemblies as per Drawing complete cutting of pipes and couplings included (all valves to comply with DWS 2510)				
		a) 50 mm b) 75 mm	No. No.	4.00 0.00		
3.2.6.2		Scour valve assemblies				
		Extra over item F.6 for supplying, installing, bedding and testing scour valve assemblies as per Drawing complete. Scour tee, cutting of pipes and couplings included.				
		a) On 50 mm dia main	No.	5.00		
3.2.6.3		Ditto for 40 Ø and smaller pipes as detailed in Drawing for the following diameters				
		a) 25 Ø b) 32 Ø c) 40 Ø	No. No. No.	- - -		
3.2.6.4		Air valve assemblies				
		Extra over item D.6 for supplying, installing and testing air valve assemblies as per Drawing complete				
		a) On 50 mm and 64 mm Ø main	No.	1.00		
		l VARD				

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
	ROUGHT FOR	WARD				
3.2.10		FITTINGS FOR HDPE PIPES				
3.2.11		SUNDRIES				
.2.11.3		Thrust blocks as per typical details on specification Drawing				
		a) Concrete Class 15/19 b) Rough formwork	m³ m²	3.00 3.00		
3.2.14		BOREHOLE DEVELOPMENT				
		Geohydrological Servies				
		Sitting of drilling sites. Alowance to be made for desk study, site assessment, drilling supervision, testing supervision, and reporting.	No	1.00		
		Borehole Drilling				
		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to include inter-borehole moves and de-establishment from site of the drilling batch.	No	2.00		
		Drilling				
		Drilling of 165mm diameter borehole in non-collapsible material.	m	240.00		
		Odex drilling in collapsible material and where ordered by the Geohydrologist of 254mm diameter borehole. Rate to include supply, delivery and installation of at least 6mm sidewall Odex casing.	No	240.00		
		Steel casing (plain), 165 mm (state wall thickness here as 3 mm)	m	70.00		
		Steel casing (slotted), 165 mm (state wall thickness here as 4 mm)	m	170.00		
		Pump testing of borehole.				
		Rate to include the following:installation of pump testing equipment and remove after, calibration testing, 24hr constant testing, recovery measurements, data recording and reporting.	No	2.00		
		Sampling for water quality testing	No	2.00		
		Site finishing				
		Borehole finishing, rate to include borehole disinfection, concrete collar in Grade 20Mpa concrete, normal saintary seal, borehole making. Reporting	No	2.00		
		Complete Geohydrology report signed by a registered personnel	No	1.00		
3.2.15		BOREHOLE REHABILITATION - (PROVISIONAL)				
		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to include inter-borehole moves and de-establishment from site	No	1.00		
		Removal of existing pumphouse	No	1.00		
		Removal of existing pump	No	1.00		
		Positive displacement pump				
		Removal using cable-tool (jumper) drilling rig of columns instalations diameter, 25mm-100mm upto 120m. Rate to include all pipe work and fittings	No	1.00		
				I		

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
OTAL E	BROUGHT FOR	RWARD				
		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to including inter-borehole moves and de-estalishment from Site, of the given drilling batch	No	1.00		
		Pump testing of borehole.				
		Rate to include the following:installation of pump testing equipment and remove after, calibration testing, 24hr constant testing, recovery measurements, data recording and reporting.	No	1.00		
		Sampling for water quality testing	No	1.00		
		BOREHOLE PUMPS AND APPURTENANCES				
3.2.16		<b>NEW BOREHOLE INSTALLATION</b> Supply and commissioning and testing of New Borehole complete with electric wiring and connection and controls. All units are to be made good and neat in accodance to manufactures and Engineers' specification.				
		Submersible pumpsets and fittings				
		Supply and install new submersible pump - Grundfos or similar Quality. All internals of wet-end shall be 316 stainless steel/brass. Electrical motor will be 316 stainless steel. Complete with corrosion protection. Engineer to approve prior to installation.				
		Pump Installation, Head & Flow fas per borehole test report	No	2.00		
		Electric Motor installation, as per pump size requirements determined in item above.	No	2.00		
		Pump Protection				
		Mechanical pressure switch, PN16, Complete with cabling to panel : Limits between 160m and 80m, WIKA PSM-550 or Equivalent	No	2.00		
		Mechanical flow switch, PN16, Complete with cabling to panel	No	2.00		
		Float Switch for Switching off Pump on Low Level, c/w wiring to panel's liquid level control relay.	No	2.00		
		Electric Motor Control Panel				
		Supply and install control panel with all fittings required to operate pumps and motors efficiently, including 0-20 second delay timer and0-24 hour timer.	No	2.00		
		<b>Pipework</b> Supply and install borehole discharge pipework complete with flow meter, non return and pressure valves on the following pipework.				
		Submersed pipe: Ø 63mm HDPE, Class 12, 7,1mm Wall thickness, SANS 4427, Borehole to Surface	m	220.00		
		Metal Base plate - Double choke	No.	2.00		
		65 NB Schedule 40 pipe discharge Galvanised Steel pipe, Incl Elbows and fittings	m	5.00		
		65 NB Threaded Brass Type Isolation valve, PN10	No.	2.00		

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
FOTAL E	BROUGHT FOR	RWARD				
		65 NB Flanged Non Return Valve,tilted disc type, PN 10	No.	2.00		
		65 NB Flanged Mechanical flow meter, PN 10	No.	2.00		
		M16 galvanised bolts and nuts	No.	96.00		
		65 NB Gaskets, Incl Consumables	No.	24.00		
		Mechanical Pressure Gauge, Wika (100mm dial and filled with glycerine),with a range from 400 kPa to 1600 kPa, complete with ball isolating valve and piping	No.	2.00		
		T-Pieces and Bushes to mount Pressure gauge, Pressure Switch and Flow Switch <b>Submersible pump steel cage</b>	No.	3.00		
		Supply and install borehole discharge pipework complete as per	No	2.00		
3.2.18		TESTING AND COMMISSIONING				
		Testing and commission borehole installation includibg pumps, motrs, control system and verify discharge and head characteristics	No	2.00		
		Eletricity Supply				
		Supply material and erect a three phase electricity power line to the new borehole	No	1.00		
		Mark-up on item 4.2.1				
		Supply all material and install a 25kVa transformer	No	1.00		
		WATER TREATMENT (PROVISIONAL)				
		10kl PVC pre-treatment tank	No.	1		
		Supply, installation, connections, testing and handing over in working order of a 20m <sup>3</sup> /hr package water treatment plant	Prov. Sum	1	350,000.00	R 350,000.00
		Overheads, charges and profit.	%	#########		
OTAL (	CARRIED FOR	WARD				

NO.       REFRES       Description         OTAL BROUGHT FORWARD       WATER STORAGE       Water Tanks       5 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.         10 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.         Strands/Anchor.       10 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.	No No Sum	1		
<ul> <li>Water Tanks</li> <li>5 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.</li> <li>10 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.</li> </ul>	No			
<ul> <li>5 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.</li> <li>10 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.</li> </ul>	No			
Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.		3		
	Sum			
Elevated 4.5m Steel Stand Tankstand Refurbishment including, modification to concrete foundations, pipe work, brackets, surface preparation and re-painting		4		
Elevated 4.5m Steel Stand Refurbishment (Provisional) Refurbish existing steel stand - including repainintg, rust protection and replacing corroded purlins	P.Sum	1		
Outlet and overflow Pipe Schedule for items below:         a) 1½" to 50mm MALE ELBOW (Plasson)	Sum	4		
b) 50mm Ø HDPE PIPE CLASS 10	m	4	Included	
c) 50mm Ø PLASSON ELBOW	No	4	Included	
d) 50mm Ø MALE ADAPTER (Plasson)	No	4	Included	
e) 50GMS bend F/F	No	4	Included	
f) 50mm Ø x 3000 GMS STAND PIPE	No	4	Included	
g) 50mm Ø BRASS BALL VALVE (COBRA)	No	4	Included	
h) 50mm Ø GMS NIPPLE	No	4	Included	
i) 50mm Ø GMS UNION	No	4	Included	
k) 50mm Ø GMS PIPE 6000 LONG	No	4	Included	
I) 50mm Ø GMS ELBOW F/F	No	4	Included	
<ul> <li>m) 50mm Ø GMS STAND PIPE 300 LONG (400 long in sandy conditions)</li> </ul>	No	4	Included	
n) 50mm Ø GMS STAND PIPE 700 LONG	No	4	Included	
o) 50mm Ø GMS SOCKET	No	4	Included	
p) 50mm Ø GMS STAND PIPE 150mm	No	4	Included	
OTAL CARRIED FORWARD				

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
FOTAL E	BROUGHT FOR	WARD				
		Inlet Pipe Schedule (From Pump)	Sum	4		
		a) 1½ "TO 40mm MALE ELBOW (Plasson)	No	4	Included	
		b) 40mm Ø HDPE PIPE CLASS 10	m	4	Included	
		c) 40mm Ø PLASSON ELBOW	No	4	Included	
		d) 40mm Ø MALE ADAPTER (Plasson)	No	4	Included	
		k) 40mm Ø GMS PIPE 6000 LONG	No	4	Included	
		I) 40mm Ø GMS ELBOW F/F	No	4	Included	
		m) 40mm Ø GMS STAND PIPE 300 LONG (400 long in	No	4	Included	
		sandy conditions)				
		n) 40mm Ø GMS STAND PIPE 700 LONG	No	4	Included	
		o) 40mm Ø Galvanised socket	No	4	Included	
		p) 40mm Ø Galvanised standpipe 150 mm long	No	4	Included	
3.2.7		DRAW-OFFS				
3.2.7.1		Complete supply, install and test single rudimentary domestic drawoff standard type as detailed in Drawing with :				
		i) 2 Taps	No.	3.00		
		ii) 4 Taps	No.	0.00		
3.2.7.3		Complete supply, install and test garden standpipe as detailed in Drawing	No.	1.00		
		DECOMMISSIONING OF OLD SERVICES				
		Removal of old water supply equipment including old tanks, tank				
		stands, and pumps etc.	No	2		
OTAL	L CARRIED TO S	UMMARY		I I		

ltem	Description	Unit	Qty	Rate	Amount
	SCHEDULE 5 : EXTERNAL SEWER RETICULATION				
4.1	EARTHWORKS (PIPE TRENCHES)				
4.1.1	Excavation				
	Excavate in all material for trenches, backfill, compact and dispose of surplus material for pipes over 25mm dia up to 400mm dia for depths:				
	a) Exceeding 0,0m but not more than 1,0m	m³	175.00		
	b) Exceeding 1,0m but not exceeding 2.0m	m³	35.00		
4.2	Extra-over all excavations in pickable material irrespective of depth. for excavating in:-				
4.2.1	Intermediate excavation	m³	27.00		
4.2.2	Hard rock excavation	m³	20.25		
4.3	Excavation Ancilliaries				
4.3.1	Excavate and dispose of unsuitable material from trench bottom (provisional)	m³	6.75		
4.3.2	Make deficiency in backfill material (Provisional)				
	a) from other necessary excavation on Site	m³	6.75		
	b) by importation designated borrow pits	m³	6.75		
	c) Compaction in platform reserves	m³	6.75		
4.4	Existing services				
	a) Services that adjoin a trench	m	12.00		
	b) Services that intersect a trench	No	5.00		
Amount	Carried Forward		1		

#### SCHEDULE 5 : EXTERNAL SEWER RETICULATION

ltem	Description	Unit	Qty	Rate	Amount
Amount	Brought Forward				
4.5	BEDDING (PIPES)				
4.5.1	Provision of Bedding from Trench Excavation				
	a) Selected granular material	m³	20.25		
	b) Selected fill material	m³	56.70		
4.5.2	Supply only of Bedding by Importation From Commercial Sources (provisional)				
	a) Selected granular material	m³	20.25		
	b) Selected fill material	m³	56.70		
4.6	SEWERS PIPELINES				
4.6.1	Supply, Lay, Joint and Bed PVC Heavy Duty Class 34 solid wall pipe (conforming to SABS 891), complete with fittings				
	a) 110mm dia	m	220.00		
	b) 150mm diameter	m	-		
	c) 225mm diameter	m	-		
	d) 375mm diameter	m	-		
4.6.2	Extra over items 11.3.1 for specials				
	a) 110mm Access bends	No	12.00		
	b) 110mm Access junctions	No	6.00		
	c) 160mm Bends	No			
	d) 160mm Access bends	No	-		
	e) 160mm Access Junctions	No	-		

#### SCHEDULE 5 : EXTERNAL SEWER RETICULATION

Item	Description	Unit	Qty	Rate	Amount
Amount	Brought Forward				
4.7	Sundries				
4.7.1	Breaking into and connecting into existing manhole	No	6.00		
4.8	MANHOLES				
4.8.1	Supply and install manholes & slabs (SABS 1294)				
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 750mm and not exceeding 1m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	2.00		
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 1000mm and not exceeding 1250m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	2.00		
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 1250mm and not exceeding 1500m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	2.00		
4.9	PIPE ANCILLARIES				
4.9.1	Encasing around pipe				
4.9.1.1 4.9.1.2	Anchor blocks in strength concrete 25Mpa /19mm including all formwork. reinforcement, reinforcement, etc. Anchor block size 600 x 600mm	No	10.00		
4.10	EXISTING SERVICES				
4.10.1	Connection to existing sewer				
4.10.1.1	200mm Diameter pipe to existing manhole	No	1.00		
4.10.2	Raising or lowering of existing manholes	No	1.00		
4.10.2.1	Remove cover and frame then lower the manhole to required level, complete with all necessary accessories.	No	1.00		
Amount	Carried to Forward			1	
-					

#### SCHEDULE 5 : EXTERNAL SEWER RETICULATION

ltem	Description	Unit	Qty	Rate	Amount
Amount	Brought Forward				
4.11	SEPTIC TANK				
4.11.1	Septic tank:				
	Excavate in soft material exceeding 2m deep.	m³	73.017		
	Extra over septic tank excavations for carting away surplus material from excavations or stock piles to a dumping site to be located by the Contractor.	m³	10.95		
	Risk of collapse to sides septic tank excavations not exceeding 1,5m deep.	m²	49.09		
	Earthfilling obtained from the excavations or stock piles compacted to 93% in septic tank.	m³	10.95		
	Modified AASHTO density tests	No	2		
	Extra over excavation in soft material for pipe trenches, chambers, etc. for excavation in intermediate material.	Item	1.5		
	25 MPa Reinforced concrete top slab.	m³	5.48		
	25 MPa Reinforced concrete base.	m³	5.48		
	Backfilling to sides of septic tank.	m³	7.30		
	Type 395 fabric reinforcement in concrete surface beds, floor slabs, etc.	m²	40		
	Rough formwork to soffit of slab.	m²	36.51		
	Plaster to vertical surfaces.	m²	49.09		
	One brick wall in commons including wire ties for septic tank walls.	m²	6.588		
	Two brick wall in commons including wire ties for septic tank walls.	m²	49.09		
	Lintels as permanent shatters	m	73.017		
	600 x 600mm Cast iron manhole covers	No	2		
	Pipework				
	Extra over excavation in soft material for pipe trenches, chambers, etc. for excavation in intermediate material.	m³	35		
	Connecting 110mm uPVC pipe including 110mm channel junction and making good concrete benching.	No	2		
	Connecting 160mm pipe including inserting 160mm channel junction and making good concrete benching.	No	2		
	Allow for testing the complete drainage installation by visual and Air Pressure test to the satisfaction of the Employer. (All defective work to be replaced at the Contractor's expense).	Item	1		
	160mm uPVC slotted drainage pipe laid in and including trench not exceeding 1,00m deep with 500 x 500mm washed 25mm stone casing wrapped in u24 non-woven, spun-bonded, punched continuous polyester fabric, including fill, ram, carting away, etc.				
		m	35		

Item	Description	Unit	Qty	Rate	Amount				
Amount	Amount Brought Forward								
	<b>Soakaway:</b> Excavate in earth for and build French drain size as indicated on drawings, fill in with 20mm crushed stone to within 0,2m of top, enclose stone with geofabric u 24 and fill in with earth filling.	m	35						
	Extra over soakaway excavations for carting away surplus material from excavations to a dumping site to be located by the Contractor.	m³	35						
	Risk of collapse to sides of soakaway excavations exceeding 1,5m and not exc. 2m deep.	m²	28						
	One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape laid over soak away	m²	35						
	0,6mm IBR sheeting laid across walls.	m²	35						
	Lintels laid above soakaway	m	35						
Amount	I Carried to Final Summary								

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
	SABS 1200 GB	SCHEDULE 6 : CARPORTS				
5.1		FORMWORK				
5.1.1	8.2.1(b)	Normal formwork to				
		c) Column Foundations	m³	131.20		
5.2		REINFORCEMENT				
5.2.1	8.2.4	Mild steel bars of nominal diameter				
5.2.1.1		12mm	t	5.25		
5.2.2		High-tensile steel bars of nominal diameter				
5.2.2.1		16mm	t	7.87		
5.2.3		High-tensile welded mesh of nominal mass				
5.2.3.1		a) 3.95 ko/m <sup>2</sup>	m²	0.00		
5.3		CONCRETE				
5.3.1	8.2.5	Strength concrete, Grade 25MPa/19 mm in Column Footings	m³	13.12		
5.3.2		Blinding layer, Grade 10/19,0 mm	m³	1.64		
5.3.4	8.2.6	Unformed surface finishes				
5.3.4.1		Wood-float to all floors except	m²	32.80		
	SABS 1200 AH	SECTION : STRUCTURAL STEELWORK				
5.5	8.3.1	PRELIMINARY AND GENERAL				
5.5.1	8.3.1	SUPPLY AND FABRICATION				
5.5.1.1	8.3.1.1	Preparation of shop detail drawings	Sum	1.00		
5.5.2	8.3.1.2	Supply, delivery and installation of steelwork (see Drawings) complete with all the necessary cleats, brackets. oussets. backs. bolts & nuts etc. as follows :				
		a) Using steel to SABS 1431 Grade 350WA for walkways				
5.5.2.1		Simple Square Tubing - columns (welded)	t	1.40		
5.5.2.2		Square Tubing Beams - beams (welded)	t	0.48		
5.5.2.3		Square Tubing purlins	t	1.42		
5.5.2.4		Unequal Angle rafter bracing	t	1.64		
5.5.2.5		200 x 200 x 6mm Base Plates	No.	79.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	237.00		
		Sika Non-shrink grout or Similar	m³	0.63		
		M12 Holding Down Bolta - Grade 8.8 hexhead bolts	No.	316.00		
		b) Using steel to SABS 1431 Grade 350WA for assembly				
		Simple Square Tubing - columns (welded)	t	2.04		
		Square Tubing Beams - beams (welded)	t	1.84		
		Square Tubing purlins	t	2.14		

Unequal Angle rafter bracing	t	2.19	
200 x 200 x 6mm Base Plates	No.	100.00	
Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	300.00	
Sika Non-shrink grout or Similar	m³	0.80	
M12 Holding Down Bolta - Grade 8.8 hexhead bolts	No.	400.00	
c) Using steel to SABS 1431 Grade 350WA for carports			
Simple Square Tubing - columns (welded)	t	0.95	
Square Tubing Beams - beams (welded)	t	0.60	
Square Tubing purlins	t	3.21	
Unequal Angle rafter bracing	t	2.45	
Steel Fascia beams	t	1.54	
200 x 200 x 6mm Base Plates	No.	26.00	
Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	78.00	
Sika Non-shrink grout or Similar	m <sup>3</sup>	0.21	
M12 Holding Down Bolta - Grade 8.8 hexhead bolts	No.	104.00	
OTAL CARRIED FORWARD			

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL	BROUGHT	FORWARD				
5.5.5	8.3.5	SITE WELDING				
5.5.5.1		Site weld items inclusive	m	61.50		
0.0.0.1				01.00		
5.6						
		Supply, deliver to Site, erect and fix green chromedeck sheeting/cladding etc, including the supply of all necessary fasteners etc. and cutting and notching: (See Drawings)	m²	1,013.80		
5.6.2	8.2.3	Approved troughed profile-sheeting to roofs, 0,6mm				
5.0.2	0.2.3	Ridge flashing 450-600mm girth x 1mm - 3 bends, baked enamel external finish	m	45.00		
	8.3.1	GUTTERS AND RAINWATER PIPES				
		Galvanized mild steel				
		3mm Thick box gutter, 100mm girth 6 times bent along length to detail, including straps, stiffeners,etc as per drawing	m	223.00		
		Extra for stopped end	no	6.00		
		Extra for 150mm diameter outlet	no	26.25		
			110	20.20		
		1mm Thick 150mm diameter rainwater pipe including straps. fixed to steel columns	m	68.25		
		Extra for 45° bend	no	26.25		
	SABS 1200 HC	CORROSION PROTECTION OF STRUCTURAL STEELWORK				
		Steelwork included under Items 1 to 7inclusive, of Section 1200H (Supply. Fabrication and Erection)	t	13.14		
5.7	8.2.1	SURFACE DRESSING AND REPAIRS AT PLACE OF FABRICATION				
		Remove slag and weld spatter, grind welds to smooth profile. radius sharp edges as specified.	t	13.14		
5.7.1	8.2.3	SURFACE PREPARATION AND COATING APPLICATION				
5.7.1.1		Shopwork. Prepare surface and apply coat(s) as specified.	t	13.14		
5.7.2		Sitework. Clean down surfaces, touch up damaged shop coats and apply finish coats as specified	t	13.14		
5.7.2.1		Cold-formed sections				
		Tonnage shall be gross quantities inclusive of unpainted steel (e.g. embedded portions and underside of baseplate,etc.				
			t	13.14		
TOTAL	CARRIED T	O SUMMARY				

DEPARTMENT OF EDUCATION : LIMPOPO				
STORM DAMAGED SCHOOL: THABANE PRIMARY SCHOOL				
PRELIMINARY COSTS ESTIMATE FOR CIVIL ENGINEERINGS SI	ERVICES			
SUMMARY OF BILL OF QUANTITIES				
SCHEDULE 1: EARTHWORKS				
SCHEDULE 2: EARTHWORKS (ROADS AND SUBGRADE)				
SCHEDULE 3: STEEL PALISADE FENCE				
SCHEDULE 4: WATER SUPPLY PIPELINES AND WATER SOURCE				
SCHEDULE 5: EXTERNAL SEWER RETICULATION				
SCHEDULE 6: COVERED PARKING				
TENDER (CONTRACT) SUM (CIVIL AND STRUCTURAL WORKS)				

# PART C3 SCOPE OF WORKS

## **SCOPE OF WORKS**

### BID NUMBER: LDPWRI-B/20292

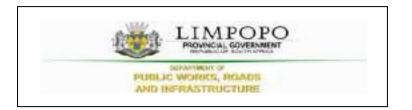
APPOINTMENT OF A CONTRACTOR FOR DEMOLITION OF REFURBISHMENT OF 12 CLASSROOMS AND 33 SEATER ENVIROLOO TOILETS, CONSTRUCTION OF 5 CLASSROOMS, MEDIUM ADMINISTRATION BLOCK, NUTRITION CENTRE, GRADE R CLASSROOM BLOCK, GUARD HOUSE, STEEL PALISADE FENCE AND EXTERNAL WORKS AT THABANE PRIMARY SCHOOL IN MABOTSHA VILLAGE, GREATER SEKHUKHUNE DISTRICT



## PART C3.1: SPECIAL NOTES TO BIDDERS

The following special conditions are for compliance and attention to bidders:

- 1.1. LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.
- 1.2. LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.
- 1.3. LDPWR&I reserve the right to appoint the bidder that proves to be fully capable and qualified to handle and execute the job.
- 1.4. The proposals submitted must be in line with the detailed specification.
- 1.5. LDPWR&I reserve the right to cancel or withdraw this bid if:
  - i. Due to changed circumstances, there is no longer a need for this services; or
  - ii. Funds are no longer available to cover the total envisaged expenditure; or
  - iii. No acceptable bids are received; or
  - iv. There is a material irregularity in the Bid process.
- 1.6. In the case of sub-contracting or joint venture agreement, LDPWR&I will enter into a single contract with the principal bidder.
- 1.7. Bidders who are not registered on Central Supplier Database (CSD) must register before submission of bids.
- 1.8. Any completion of the bid document in pencil or erasable ink will not be acceptable and will automatically disqualify the submitted bid.
- 1.9. Successful bidder will be required to sign and enter into a formal contract upon the award.
- 1.10. Notwithstanding shortcomings and/or inconsistencies, if any, in this specification, which is only a minimum specification, a bidder shall make provision for a complete solution that will deliver the required service efficiently and cost-effectively.
- 1.11. Bid documents must be submitted physically to the closing address as reflected on the Request for Quotations/Tender.
- 1.12. Quotations received after the closing date and time will not be accepted for consideration.
- 1.13. This request for bid document contains confidential information about LDPWR&I, which has been provided to supply potential bidders with the data necessary to provide a holistic response.
- 1.14. No part of the contents may be used, copied, disclosed or conveyed in whole or in part to any party, in any manner whatsoever without the prior written permission of LDPWR&I.
- 1.15. Any reproduction or transmission of information contained in this document except for the sole purpose of responding to this bid is strictly prohibited.
- 1.16. References to LDPWR&I must not be made in any literature, promotional material, and brochures or sales presentations without the express written consent of LDPWR&I.



## PART C3.2: OHS SPECIFICATIONS



# PART C4 SITE INFORMATION

#### SITE INFORMATION

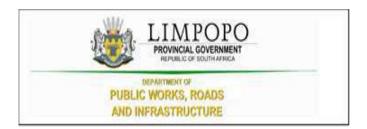
#### BID NUMBER: LDPWRI-B/20292

## REFURBISHMENT AND ADDITIONS AT THABANE PRIMARY SCHOOL IN MABOTSHA VILLAGE, GREATER SEKHUKHUNE DISTRICT LIMPOPO PROVINCE.

#### **CO-ORDINDATES**

.

24°32'28.60" S 30°17'29.49" E



## C4.1 DRAWINGS





LOCALITY MAP

NO.	Building Usage	(sqm)	QUANTITY
01			
02			
03			
04			
05			
06			
07			
ТА	BLE 2B: RENOVATION/REFURBRISHMEN	NT WORKS	
NO.	Building Usage	(sqm)	QUANTITY
01	BLOCK A 3 CLASSROOM BLOCK	220	1
02	BLOCK B 3 CLASSROOM BLOCK	220	1
03	BLOCK C 3 CLASSROOM BLOCK	220	1
04	BLOCK D 3 CLASSROOM BLOCK	220	1
05	10 SEATS ENVIROLOOS BLOCK F	65	1
06	23 SEATS ENVIRO LOOS BLOCK G	90	1
07			
	BLE 2C: NEW WORKS		
NO.	Building Usage	(sqm)	QUANTITY
01	MEDIUM ADMIN BLOCK L	325	1
02	5 CLASSROOM BLOCK K	500	1
03	GRADE R 3 CLASSROOM BLOCK H	420	1
04	ASSEMBLY AREA	200	1
05	17 PARKING BAYS ( 8 COVERED)		
06		185	1
07	GUARD HOUSE BLOCK I	15	1
08	NEW PALISADE FENCING		
ΤA	BLE 2D: FUTURE PROPOSAL		
NO.	Building Usage	(sqm)	QUANTITY
01	MULTIPURPOSE HALL BLOCK N	865	1
02	MULTIPURPOSE CLASSRM BLOCK P	220	1
03	P/SCIENCE LAB BLOCK O	250	1
04	COMPUTER LAB BLOCK O	250	1
05	FUTURE SPORTS FIELD		
06			

TABLE 01: SUMMARY FOR HUMAN CAPITAL TABLE 1A: Grade Enrolment Figures For:

'	ADEL IA. Olade LI	iloiment i gules i o						
	Number Of Pupils:							
GRADES	BOYS	GIRLS	TOTAL					
GRADE R	0	0	60					
GRADE 1	0	0	77					
GRADE 2	0	0	67					
GRADE 3	0	0	80					
GRADE 4	0	0	67					
GRADE 5	0	0	74					
GRADE 6	0	0	83					
GRADE 7	0	0	67					
TOTAL	0	0	575					
TEACHERS			0					

## LEGEND

	NEW BUILDING BLOCKS - NOTE: 2 JOJO tanks on each block
	EXISTING BUILDING BLOCKS TO BE RENOVATED- NOTE: 2 JOJO tanks on each block
	FUTURE BUILDING BLOCKS - NOTE: 2 JOJO tanks on each block
	EXISTING BUILDING TO REMAIN UNCHANGED
	EXISTING BUILDING BLOCKS TO BE DEMOLISHED
	DRIVE WAYS TO BE PAVED
	NEW WALK WAYS
	FUTURE WALKWAY
	EXISTING WALKWAY
	WATER SUPPLY PIPES - HDPE CLASS 6
	SEWER PIPES - PVC CLASS 6
	ELEVATED WATER TANKS
內	ISOLATION VALVE
	STANDPIPE
0	BOREHOLE

### ELECTRICAL NOTES

- 2 core XLPE copper cable to be used for site reticulation buried at 1200mm below surface ground level
   Cables installation to be 800mm away from road edge and at least 3000mm away from nearest building wall.
   manholes to be used at road crossing and at cable bends of 90 degrees.
   PVC sleeves to be used to connect manholes
   Switching station to be finalised once ESKOM has defined the bulk power supply philosophy.

# ELECTRICAL LEGEND

IBOL	DESCRIPTION
Ø	16kVA Dedicated transformer with an associated Meter Box
	25mm <sup>2</sup> PVC Cu Cable
_	16mm <sup>2</sup> PVC Cu Cable
	10mm <sup>2</sup> PVC Cu Cable
	Kiosk

## **GENERAL DRAWING NOTES**

1) RKMANSHIP TO COMPLY WITH STANDARD SPECIFICATION OF MATERIALS AND METHODS TO BE USED - sabs 0400

2) IIGHT SWITCH IN DISABLED TOILET TO BE AT 1200MM ABOVE FFL 3) IF STEP OVER 900MM BUILD IN BALUSTRADE

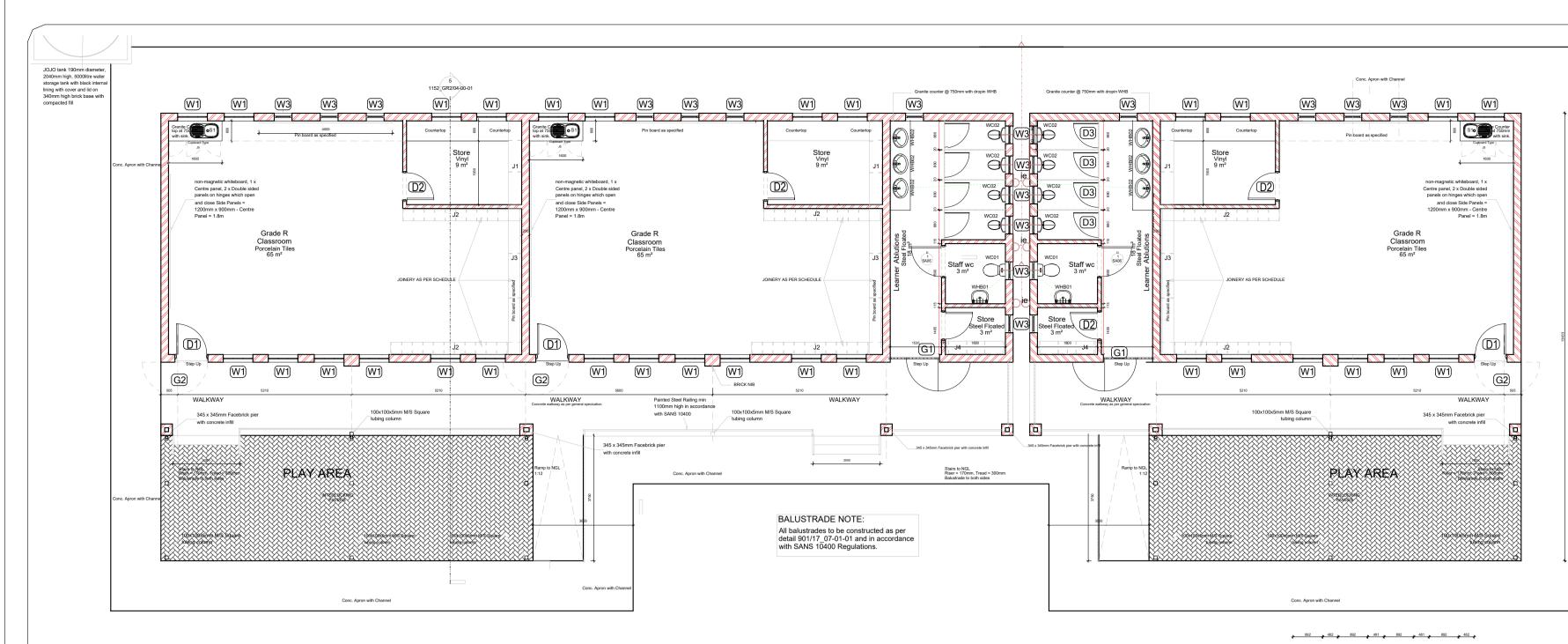
4) GULLEY POSITIONS TO BE DETRMINED AS PER SITE PRESCRIBED OVERALL DRAINAGE DESIGN 5) 2 X COATS SEALANT O ALL EXPOSED TRUSSES (SAND

OFF ALL sabs & OTHER MARKINGS) 6) 50MM MINERAL WOOL INSULATION TO BE INSTALLED WHERE THERE ARE CEILINGS. BUBBLE PLASTIC INSULATION WITH FALL BACKING TO BE INSTALLED WITH WIRE SUPPORTS IN ALL AREAS THAT DO NOT HAVE

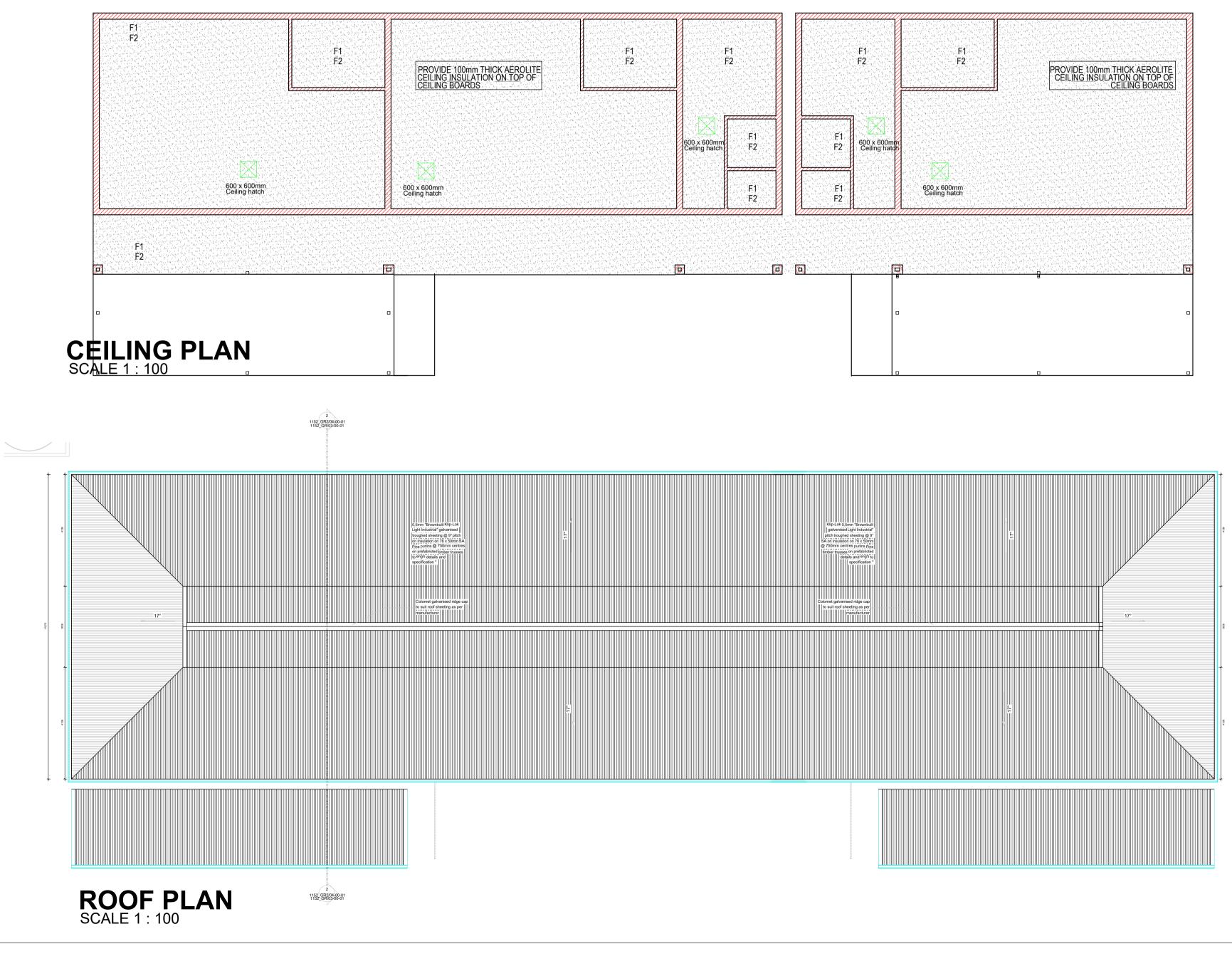
CEILINGS 7) WEST FACING FACADES TO HAVE STANDARDISED ALUMINIUM LOUVRES FROM BELOW EAVES TO DROP OF

8) TRUSSES TO BE DESIGNED IN ACCORDANCE WITH SABS 0400 & APPROVED BY PROJECT ENGINEER

	SIGNA	TURE	TABLE		
DISCIPL	_INE:	SIGNA	TURE:	DAT	E:
CLIENT:					
PLAN EXAM	INER				
FIRE CONTR	OL				
ENVIROMEN	TAL OFFICER				
ROADS/STO	RMWATER				
WATER AND	SANITATION				
ENVIRONME	NTAL OFFICER				
				1	
REV No.	DATE:		DESCRIPTIO	N	
		REVISION	IS		
	SIZE	E ON ORIGINAL DRA	WING 100MM		
J.		PROVI REPU Depa	MPC NCIAL GOVE BLIC OF SOUTH	RNMENT	)
		Public	Works		
					/
		INSTITU	TION		
	THABA		ARY SCHO	JOL	
	IN	STITUTION E	MIS NUMBER		
		92561	162		
		SERVIC			
( NEW	BUILDI	NGS 8		TIONS	
		CONTACT -	SECTION		
	UMENT	ATION	& PROCI	UREME	ENT )
		DISPLIN	E	PROJECT	STAGE
ARC	HITECT	URAL		04	
			ON - SUB DIVISION		
	SITE DEV	'ELOPM	ENT PLAN	(SDP)	
		DRAWING D	DESCRIPTION		
					/
	wc	ORK DESCRIPTION	- SUB DIVISION		
DATE				704	_
2023.0	J6.19 Y.	VAHED	the	781	2
		_DRAWING CO-OR	DINATED		$\longrightarrow$
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40			dy arch	nitec	ts
6	i Ismini Street Tel: +27 31 301	Polokwane 6122	,0699,8outh Afr	ica	
Course	C: +27 82 528	3932			
		CONTACTO	R:		
DRAWING SYSTEM:	REVIT:				FILE NAME:
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SIZE:		DRAWING	NUMBER:		



# FLOOR PLAN SCALE 1 : 100



#### CONSTRUCTION NOTES:

#### Foundations

<u>A1</u>. Concrete foundations - concrete mix type and with steel reinforcement accordin strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> c of trenches to be treated with ant poison of the Prothor 200 SC or other approved ty of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 11 Concrete to be casted within 24 hours of application. Contractor to provide five year A2. Backfilling and filling under floors - in general, approved filling compacted to at l of maximum 150mm - refer to engineer's drawings for detail in case of poor soil com provided above natural or compacted ground level under floors. All filling to be appr minimum G5 or G7 material as per engineer's drawings). Compaction tests to be pr area under floors per each layer of 150mm compacted filling. Filling under floors to 200 SC or other approved type applied at a rate of not less than 5 litres of solution p with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be ca Contractor to provide five year guarantee Surface beds and floors

**B1.** Surface bed - concrete mix as described on structural engineer's drawings but 952 Type C approved USB Green 250 micron waterproofing membrane with laps s bed cast in alternative sections of maximum  $20m^2$  with saw cut joints with joints fille joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitu walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer's of Specification 952 Type C approved USB Green 250 micron waterproofing membrar tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion join sealer. Provide 10mm thick bitumen impregnated soft board between all walls and of sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 gra all external door openings external surface beds must be level with granolithic threst smooth with edging tool

<u>B4.</u> Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. A lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to deep (net) edge excavated in natural or finished ground level Skirtings

<u>C1.</u> 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

<u>D1.</u> External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm <u>D2.</u> Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm t 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section ba bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75m "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (R (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel pair 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH Woodcare Sunproof (Amber - PNW22) suede varnish
D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear of the steel columns.

joints <u>D5.</u> DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls <u>D6.</u> Internal walls - approved stockbrick walls in stretcher bond above to receive on off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Wal broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in

smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56 Ceilings (EPL) PVA paint. Colour as per finishes schedule. <u>D8.</u> All exposed expansion joints in walls and floors to be filled in with Urochem 205 been primed with Urochem 614 primer

<u>D9.</u> Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF28 Window sills

<u>E1.</u> Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Wa

per finishes schedule <u>E2.</u> External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to recessed joints

Ceilings and cornices

<u>F1.</u> Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finis suede varnish to cornices

<u>F2.</u> Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP bra galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin V White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine Roof and fascias

<u>G1.</u> Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish purlins at maximum 1200mm centres on patent and approved pre-fabricated truss specialist installer providing a five year guarantee

<u>G2.</u> Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manu
 Globalcoat finish (colour Traffic Green)
 G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge t countersunk brass screws. Prime fascias and barge boards with one coat Plascon with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finis G4. Truss system - MiTek or other approved patent timber pre-fabricated truss syst degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm before fixing. Truss manufacturer to provide certificate and guarantee for design an shop drawings. Shop drawings to be provided to the Principal Agent for approval to with wet trades to be carbolineum treated before fixing in position. Trusses to be se galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trus diameter galvanised steel wire, twice wrapped around and tied around rafters and etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes sched G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron v Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutter G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron sta

gable flashing with Globalcoat finish (colour Traffic Green) <u>G8.</u> Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

<u>Fittings</u> <u>H1.</u> Vitrex Model 2400 (code 2404) enameled green folding type writing board with high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves

aluminium chalk rail <u>H2.</u> Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 20 <u>H3.</u> Greenfield G25 double door steel cupboard with standard baked enameled finis shelves (2 per classroom)

<u>H4.</u> Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spa Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2 coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. San Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union A sign above fire extinguisher

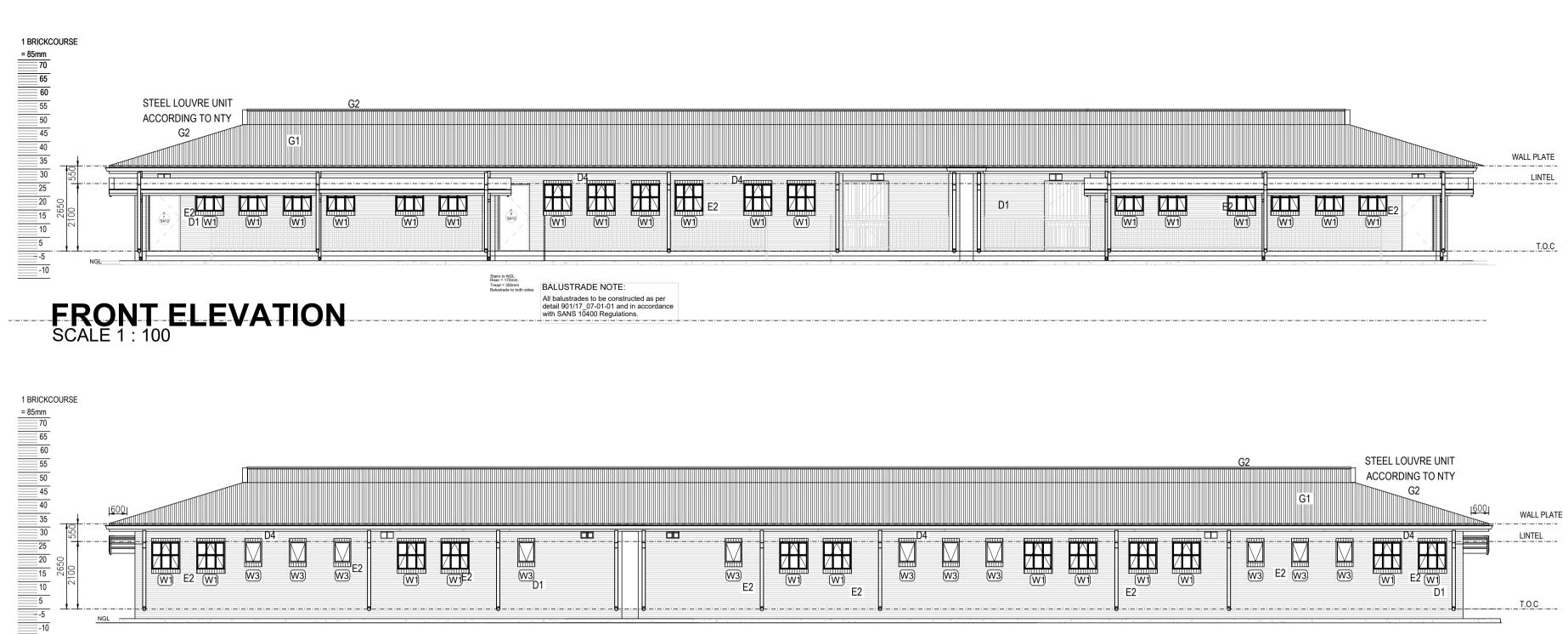
I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066 hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed pa Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with F coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Pro aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign abov

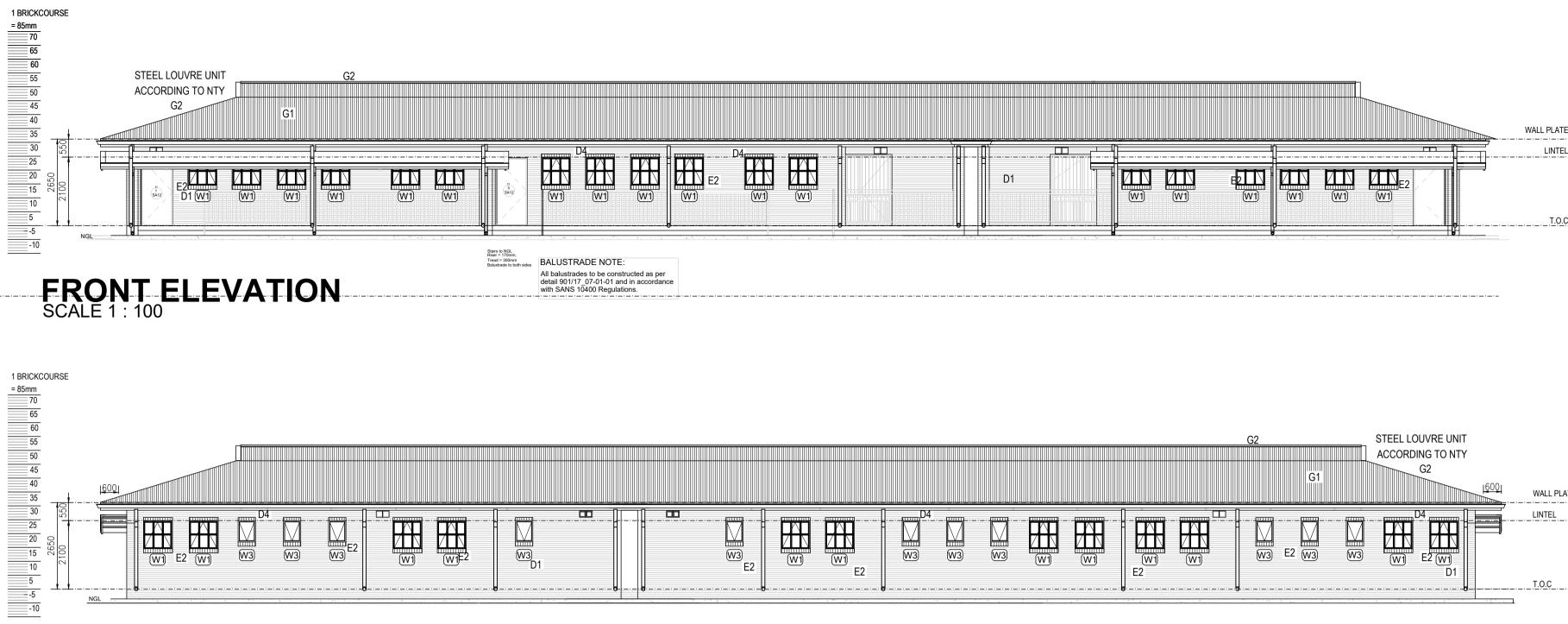
sealed with pressure sensitive tape. Surface ed up with polysulfide sealer. All saw cut umen impregnated soft board between all 3 as per structural engineer's drawings. drawings but minimum 85mm thick on SANS ane with laps sealed with pressure sensitive ints with joints filled up with polysulfide concrete and seal joint with polysulfide set cubes (1 per 15m <sup>3</sup> or 1 per batch) ranolithic screed sloping towards edges. At schold finish. Finish off edges of screed Apron to be cast in alternative sections in o be thickened by 240mm wide x 115mm i quadrand bead plated on. Sand down to a <i>A</i> -range)(colour meranti), apply one coat ) and apply two finishing coats Plascon deep square recessed joints . Superstructure walls - every 6th course. thick flat section U-shaped fixing bracket, naseplate, four times holed and welded to mm masonry anchor bolts. Degrease with RR1)", prime with Plascon Metal Primer	drainage other illings . supports in from below
paseplate, four times holed and welded to mm masonry anchor bolts. Degrease with (RR1)", prime with Plascon Metal Primer	
ane with laps sealed with pressure sensitive ints with joints filled up with polysulfide d concrete and seal joint with polysulfide est cubes (1 per 15m <sup>3</sup> or 1 per batch) ranolithic screed sloping towards edges. At eshold finish. Finish off edges of screed Apron to be cast in alternative sections in to be thickened by 240mm wide x 115mm i quadrand bead plated on. Sand down to a <i>V</i> -range)(colour meranti), apply one coat ) and apply two finishing coats Plascon deep square recessed joints S. Superstructure walls - every 6th course. thick flat section U-shaped fixing bracket, paseplate, four times holed and welded to mm masony anchor bolts. Degrease with (RR1)", prime with Plascon Metal Primer	
i quadrand bead plated on. Sand down to a /-range)(colour meranti), apply one coat ) and apply two finishing coats Plascon deep square recessed joints . Superstructure walls - every 6th course. thick flat section U-shaped fixing bracket, baseplate, four times holed and welded to mm masonry anchor bolts. Degrease with (RR1)", prime with Plascon Metal Primer	
<ul> <li>/-range)(colour meranti), apply one coat</li> <li>) and apply two finishing coats Plascon</li> <li>deep square recessed joints</li> <li>Superstructure walls - every 6th course.</li> <li>thick flat section U-shaped fixing bracket, baseplate, four times holed and welded to mm masonry anchor bolts. Degrease with (RR1)", prime with Plascon Metal Primer</li> </ul>	
e. Superstructure walls - every 6th course. a thick flat section U-shaped fixing bracket, baseplate, four times holed and welded to mm masonry anchor bolts. Degrease with (RR1)", prime with Plascon Metal Primer	
a thick flat section U-shaped fixing bracket, baseplate, four times holed and welded to mm masonry anchor bolts. Degrease with (RR1)", prime with Plascon Metal Primer aint - colour as per finishes schedule.	
to a smooth finish, stop with Polycell ZH1), apply one coat Plascon Woodcare ZH1) and apply two finishing coats Plascon	
r openings with 10 x 6mm square recessed SIGNATURE TABLE	
is at floor level and under all window sills ine coat smooth 1:5 cement plaster finished alls & Ceilings (EPL) PVA paint. Colour	
n stretcher bond above to receive one coat     FIRE CONTROL       i6) and two coats Plascon Polvin Walls &     ENVIRONMENTAL OFFICER	
05 polysulfide joint sealant after surfaces have ROADS / STORMWATER WATER AND SANITATION	
250/30 aluminium cover strips	
t flat in 1:4 cement mortar. Prime with one alls & Ceilings (EPL) PVA paint. Colour as	
o match walls with 10 x 6mm square	
s maximum. Sand down to a smooth finish,	
s maximum. Sand down to a smooth finish, meranti), apply one coat Plascon Woodcare shing coats Plascon Woodcare Ultra (X44)	
orandering at 400mm centres maximum with o be pre-painted. Prime ceilings with one coat Walls & Ceilings (EPL) PVA paint. Colour	
x 38mm SA pine cross brander covered with ap door and surround to be painted as for e bearers, nailed to trusses	
sh (colour Traffic Green) on 50 x 76mm SAP system. Roof sheeting to be done by	
factured FK3 ridge or hip flashing with	
to truss ends and counter batten with boards screw fixed to trusses or purlins with Multi Surface Driver (Multiple) and finish off	
n Multi-Surface Primer (WUP1) and finish off ishes schedule. stem at maximum 1100mm centres with 20	
n SAP wall plate to be carbolineum treated nd erection of trusses as well as detailed perfore manufacturing. All sections in contact	
secured to walls with 2.5mm diameter sses must also be secured with 2.5mm NEW BUILDINGS & ALTERATIONS	
purlins. All exposed parts of trusses, purlins, e coat Plascon Wood Primer (UC2) and dule.	
with Globalcoat finish (colour Gemsbok	JECT STAGE
et iron with Globalcoat finish (colour Gemsbok s andard factory manufactured EK13 barge or	4
andard factory manufactured FK13 barge or <b>2 GRADE R CLASSROOM BLOCK</b> y manufactured FK8 headwall flashing and DRAWING DESCRIPTION	
FLOOR AND ROOF PLAN	
s each 1000 x 1200mm high with permanent DESIGN DESIGN	ITEM No. DRAWN
baced & fixed from underside to 305mm wide       2134mm long double slotted epoxy powder       nd down to a smooth finish, stop with Polycell       B mineral turpentine (AZH1) then apply two	7812
vith chamfered edges. Sand down to a ra (X44) suede varnish thinned with 1:3 ra (X44) suede varnish to back plate. Provide AL5066-E08/2AS aluminium red down arrow	
66-06ASE05 aluminium engraved red fire n above fire hose reel. Water supply in arts of pipes with Plascon Aquasolv Plascon Metal Primer (UC501) and apply two rovide 150 x 150mm Union AL5066-E05/2AS	5
ve fire hose reel.	5

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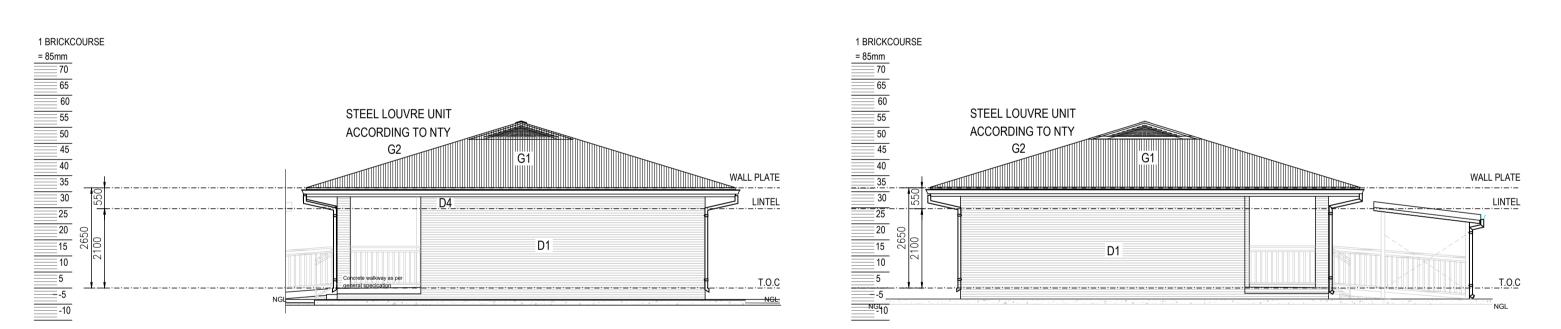
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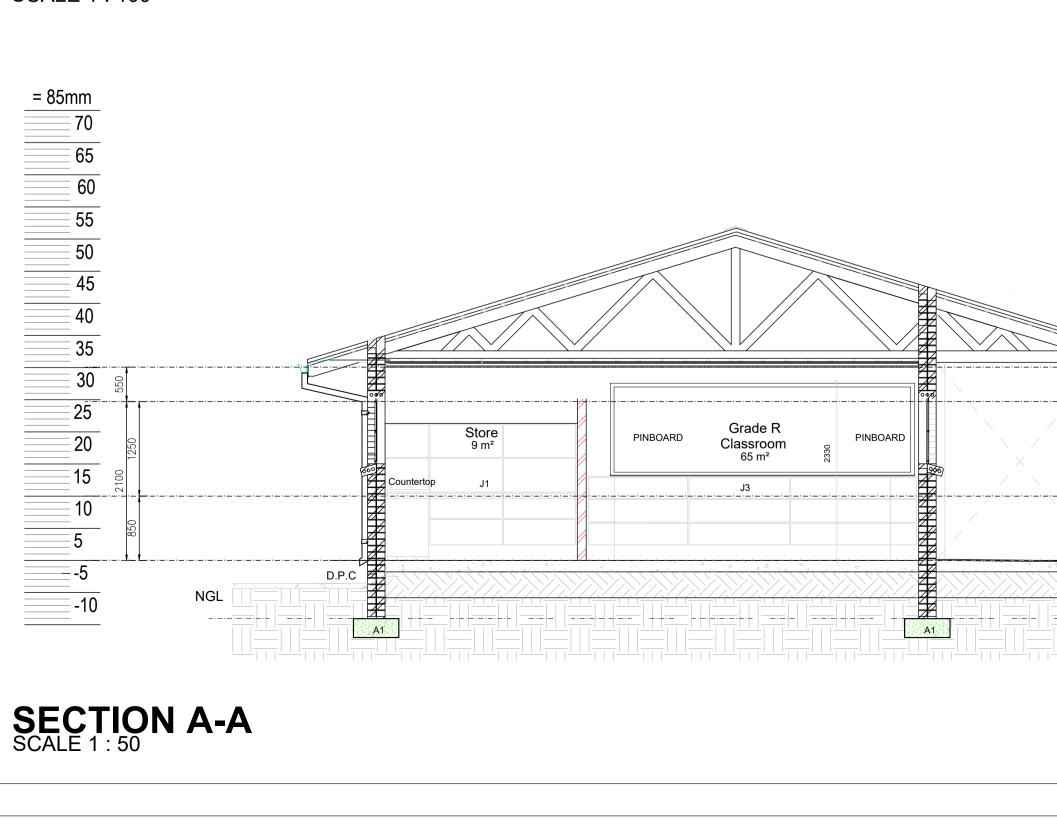
NATES





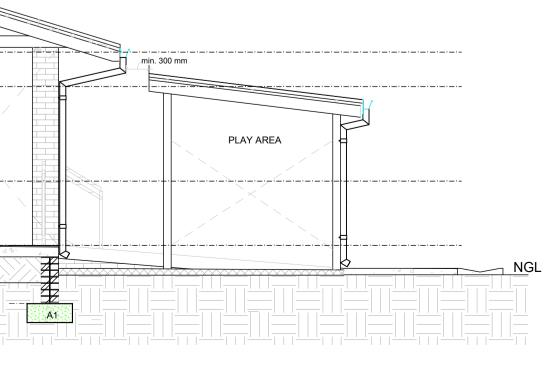






# SCALE 1 : 100

SIDE ELEVATION



#### CONSTRUCTION NOTES

#### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement accordi strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> of trenches to be treated with ant poison of the Prothor 200 SC or other approved of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1 Concrete to be casted within 24 hours of application. Contractor to provide five yea A2. Backfilling and filling under floors - in general, approved filling compacted to at of maximum 150mm - refer to engineer's drawings for detail in case of poor soil cor provided above natural or compacted ground level under floors. All filling to be app minimum G5 or G7 material as per engineer's drawings). Compaction tests to be p area under floors per each layer of 150mm compacted filling. Filling under floors to 200 SC or other approved type applied at a rate of not less than 5 litres of solution with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be ca Contractor to provide five year guarantee Surface beds and floors

31. Surface bed - concrete mix as described on structural engineer's drawings but 952 Type C approved USB Green 250 micron waterproofing membrane with laps bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints fill joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitu walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer's Specification 952 Type C approved USB Green 250 micron waterproofing membra tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion joi sealer. Provide 10mm thick bitumen impregnated soft board between all walls and sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide te B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 gra all external door openings external surface beds must be level with granolithic three smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. A lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge t deep (net) edge excavated in natural or finished ground level Skirtings

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section b bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75m "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover ( (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel pai 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZ Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZI Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls D6. Internal walls - approved stockbrick walls in stretcher bond above to receive on off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Wal

broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56 Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 20

been primed with Urochem 614 primer D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF2

Window sills E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Wa

per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to recessed joints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finis suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP b galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Tra ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finis purlins at maximum 1200mm centres on patent and approved pre-fabricated truss specialist installer providing a five year guarantee

G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manu Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge countersunk brass screws. Prime fascias and barge boards with one coat Plascon with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finis G4. Truss system - MiTek or other approved patent timber pre-fabricated truss sys degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mn before fixing. Truss manufacturer to provide certificate and guarantee for design and shop drawings. Shop drawings to be provided to the Principal Agent for approval to with wet trades to be carbolineum treated before fixing in position. Trusses to be s galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trus diameter galvanised steel wire, twice wrapped around and tied around rafters and etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schee <u>G5.</u> Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutter G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised shee Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron sta

gable flashing with Globalcoat finish (colour Traffic Green) G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves

aluminium chalk rail H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 20 H3. Greenfield G25 double door steel cupboard with standard baked enameled fin shelves (2 per classroom)

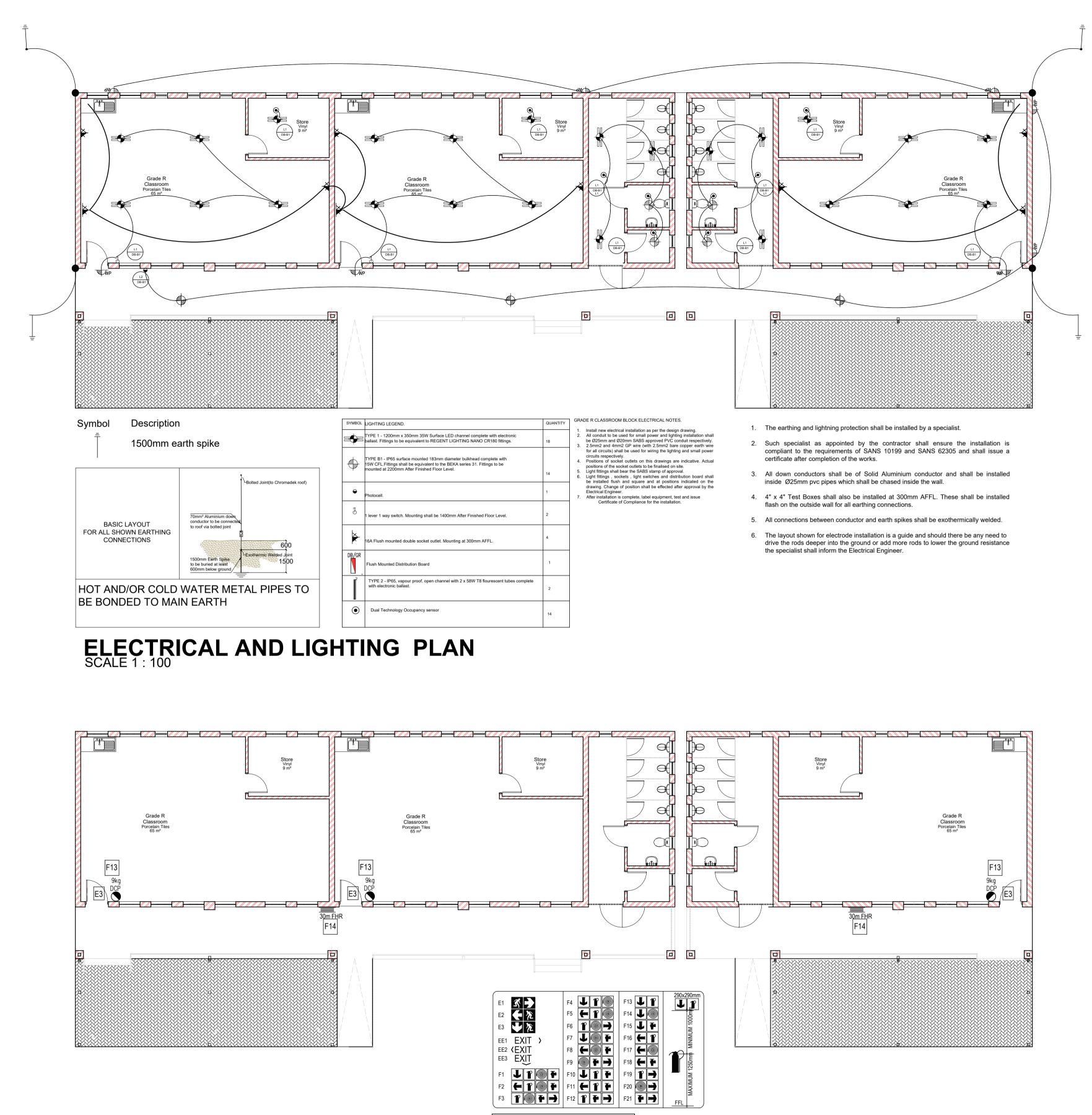
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spa Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. San Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate w smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultr 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL506 hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed pa Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Pr aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign abov

	NOTES :
ing to structural engineer's drawings. Top of f or 1 per batch). Finished sides and bottoms type applied at a rate of not less than 5 litres 165 and SANS Code of Practice 0124. ar guarantee. t least 93% Mod. AASHTO density in layers onditions. Minimum of 170mm filling to be proved by engineer (imported filling to be provided at a rate of one test per 125m <sup>2</sup> filling to be treated with ant poison of the Prothor in per m <sup>2</sup> by a firm of specialists in accordance casted within 24 hours of application.	<ol> <li>Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400</li> <li>Light Switch in Disabled toilet to be at 1200 mm above FFL</li> <li>If Step over 900 mm Build in Balustrade</li> <li>Gulley positions to be determined as per site prescribed overall drainage design</li> <li>2 x coats sealant on all exposed trusses (sand off all SABS &amp; other markings)</li> <li>50 mm mineral wool insulation to be installed where there are ceilings . Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings</li> <li>7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm</li> <li>8) Trusses to be designed in accordance with SABS 0400 &amp; approved by Project Engineers</li> </ol>
t minimum 85mm thick on SANS Specification sealed with pressure sensitive tape. Surface led up with polysulfide sealer. All saw cut umen impregnated soft board between all 3 as per structural engineer's drawings.	
a drawings but minimum 85mm thick on SANS ane with laps sealed with pressure sensitive ints with joints filled up with polysulfide concrete and seal joint with polysulfide est cubes (1 per 15m <sup>3</sup> or 1 per batch) ranolithic screed sloping towards edges. At eshold finish. Finish off edges of screed	
Apron to be cast in alternative sections in to be thickened by 240mm wide x 115mm	
i quadrand bead plated on. Sand down to a /-range)(colour meranti), apply one coat ) and apply two finishing coats Plascon	
deep square recessed joints 9. Superstructure walls - every 6th course.	
a thick flat section U-shaped fixing bracket, baseplate, four times holed and welded to mm masonry anchor bolts. Degrease with (RR1)", prime with Plascon Metal Primer aint - colour as per finishes schedule. to a smooth finish, stop with Polycell ZH1), apply one coat Plascon Woodcare (H1) and apply two finishing coats Plascon	ISSUED FOR TENDER
openings with 10 x 6mm square recessed	SIGNATURE TABLE
s at floor level and under all window sills ne coat smooth 1:5 cement plaster finished alls & Ceilings (EPL) PVA paint. Colour	DISCIPLINE SIGNATURE DATE CLIENT PLAN EXAMINER
n stretcher bond above to receive one coat 6) and two coats Plascon Polvin Walls &	FIRE CONTROL ENVIRONMENTAL OFFICER
5 polysulfide joint sealant after surfaces have	ROADS / STORMWATER WATER AND SANITATION
250/30 aluminium cover strips	ENVIRONMENTAL OFFICER
t flat in 1:4 cement mortar. Prime with one alls & Ceilings (EPL) PVA paint. Colour as	
o match walls with 10 x 6mm square	
s maximum. Sand down to a smooth finish, meranti), apply one coat Plascon Woodcare	REV NO DATE : DESCRIPTION : REVISIONS
shing coats Plascon Woodcare Ultra (X44) randering at 400mm centres maximum with	SIZE ON ORIGINAL DRAWING 100 mm
b be pre-painted. Prime ceilings with one coat Walls & Ceilings (EPL) PVA paint. Colour	
x 38mm SA pine cross brander covered with ap door and surround to be painted as for e bearers, nailed to trusses	
h (colour Traffic Green) on 50 x 76mm SAP system. Roof sheeting to be done by	
factured FK3 ridge or hip flashing with	
to truss ends and counter batten with boards screw fixed to trusses or purlins with Multi-Surface Primer (WUP1) and finish off ishes schedule.	INSTITUTION THABANE PRIMARY SCHOOL
stem at maximum 1100mm centres with 20 n SAP wall plate to be carbolineum treated nd erection of trusses as well as detailed	INSTITUTION EMIS NUMBER 925621162
before manufacturing. All sections in contact secured to walls with 2.5mm diameter sses must also be secured with 2.5mm	SERVICE NEW BUILDINGS & ALTERATIONS
purlins. All exposed parts of trusses, purlins, e coat Plascon Wood Primer (UC2) and	CONTRACT - SECTION
dule. with Globalcoat finish (colour Gemsbok s	DOCUMENTATION & PROCUREMENT DISCIPLINE PROJECT STAGE
t iron with Globalcoat finish (colour Gemsbok s	ARCHITECTURAL 4
andard factory manufactured FK13 barge or manufactured FK8 headwall flashing and	2 GRADE R CLASSROOM BLOCK
n wall mounted centre board 2000 x 1200mm	
s each 1000 x 1200mm high with permanent 000 x 1200mm high (2 per classroom)	FILE No.         ITEM No.           DESIGN         DRAWN           SCALE         1: 100         CHECKED
ish, 760 x 610 x 1700mm high with four baced & fixed from underside to $305$ mm wide	RESPONSIBLE PROFESSIONAL DATE NAME SIGNATURE PR NUMBER
2134mm long double slotted epoxy powder nd down to a smooth finish, stop with Polycell mineral turpentine (AZH1) then apply two	2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED
vith chamfered edges. Sand down to a ra (X44) suede varnish thinned with 1:3 ra (X44) suede varnish to back plate. Provide AL5066-E08/2AS aluminium red down arrow	CONSULTANT : CONSULTANT : Suite 4 No 6 Ismini Office Building, Suite 4 No 6 Ismini Office Building,
66-06ASE05 aluminium engraved red fire n above fire hose reel. Water supply in arts of pipes with Plascon Aquasolv Plascon Metal Primer (UC501) and apply two rovide 150 x 150mm Union AL5066-E05/2AS	6 Ismini Street, Polokame, D699 South Africa Tel: +27 15 065 0645, Fox: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za
ve fire hose reel.	CADD AUTO CAD FILE SYSTEM AUTO CAD SIZE DRAWING NUMBER REV2

2020\_71-3GR-101



FIRE PLAN SCALE 1 : 100

PROVIDE 9kg DCP PORTABLE FIRE EXTINGUISHERS WITHIN A WEATHER-PROOF CABINET. FIRE PREVENTION REQUIREMENTS TO BE FINALISED PRIOR TO OCCUPATION PROVIDE APPROVED SYMBOLIC SIGNAGE TO INDICATE POSITIONS OF EXTINGUISHERS

(CLASSIFICATION H1) OFFICES.

FIRE NOTES:

PROVIDE APPROVED SYMBOLIC SIGNAGE TO INDICATE POSITIONS OF FIRE ESCAPE ROUTES ALL WORK TO BE BE CARRIED OUT TO THE LOCAL FIRE DEPT. APPROVAL

#### CONSTRUCTION NOTES

#### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement accord strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> of trenches to be treated with ant poison of the Prothor 200 SC or other approved of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1 Concrete to be casted within 24 hours of application. Contractor to provide five year A2. Backfilling and filling under floors - in general, approved filling compacted to at of maximum 150mm - refer to engineer's drawings for detail in case of poor soil cor provided above natural or compacted ground level under floors. All filling to be app minimum G5 or G7 material as per engineer's drawings). Compaction tests to be area under floors per each layer of 150mm compacted filling. Filling under floors to 200 SC or other approved type applied at a rate of not less than 5 litres of solution with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be c Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings but 952 Type C approved USB Green 250 micron waterproofing membrane with laps bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints fill joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitu walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer's Specification 952 Type C approved USB Green 250 micron waterproofing membra tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion jo sealer. Provide 10mm thick bitumen impregnated soft board between all walls and sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide te B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 gr all external door openings external surface beds must be level with granolithic three smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. A lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge deep (net) edge excavated in natural or finished ground level Skirtings

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section b bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75n "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel pai 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (Az Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZI Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in wall D6. Internal walls - approved stockbrick walls in stretcher bond above to receive or off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Wal broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent

D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56 Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 20

been primed with Urochem 614 primer D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF2

Window sills E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and se coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Wa

per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to recessed joints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colou Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finis suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP b galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Tra ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finis purlins at maximum 1200mm centres on patent and approved pre-fabricated truss specialist installer providing a five year guarantee

G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manu Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge t countersunk brass screws. Prime fascias and barge boards with one coat Plascon with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per fini G4. Truss system - MiTek or other approved patent timber pre-fabricated truss sys degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm before fixing. Truss manufacturer to provide certificate and guarantee for design a shop drawings. Shop drawings to be provided to the Principal Agent for approval with wet trades to be carbolineum treated before fixing in position. Trusses to be s galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trus diameter galvanised steel wire, twice wrapped around and tied around rafters and etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with on apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schee G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron v Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutter G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron sta

gable flashing with Globalcoat finish (colour Traffic Green) G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves

aluminium chalk rail H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 20 H3. Greenfield G25 double door steel cupboard with standard baked enameled fini shelves (2 per classroom)

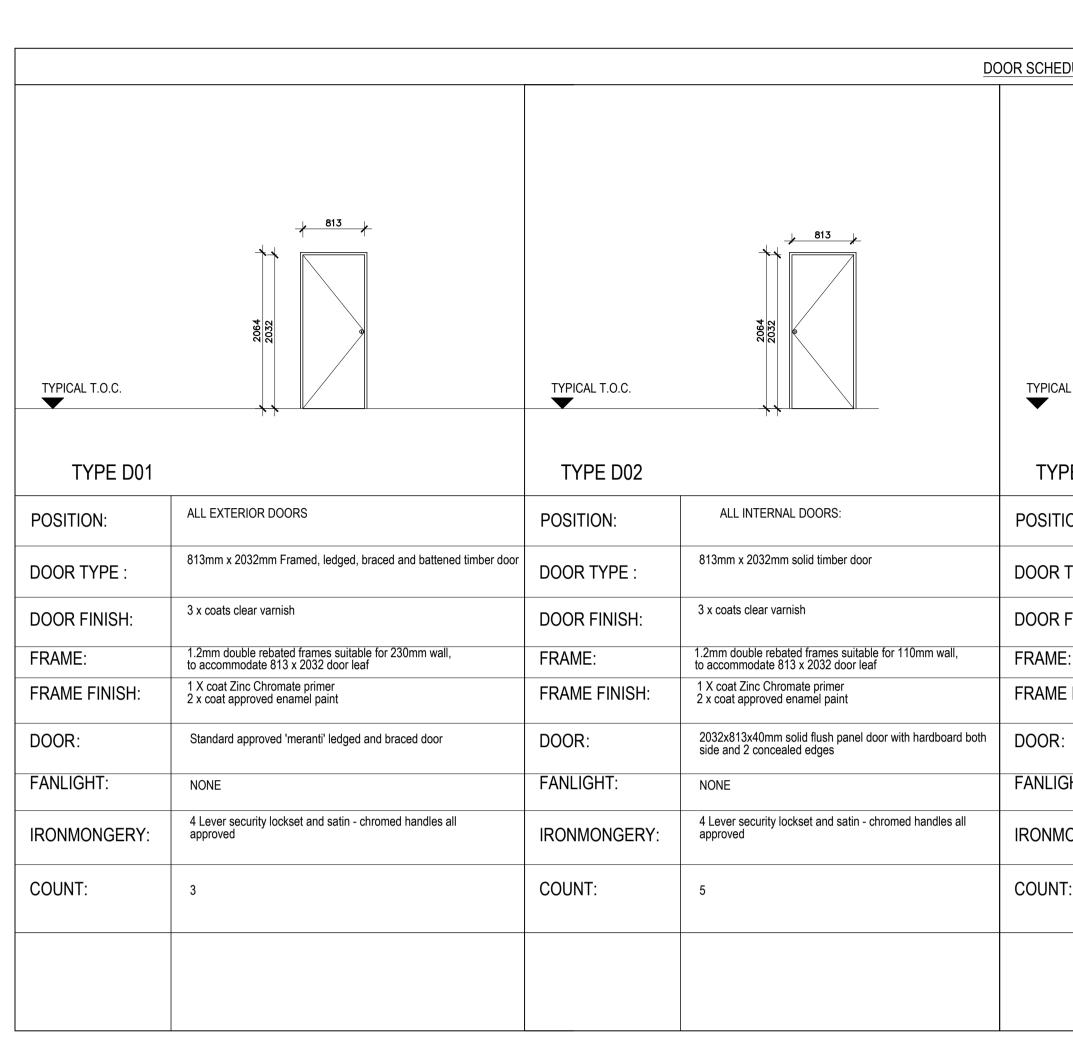
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spa Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2 coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sar Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

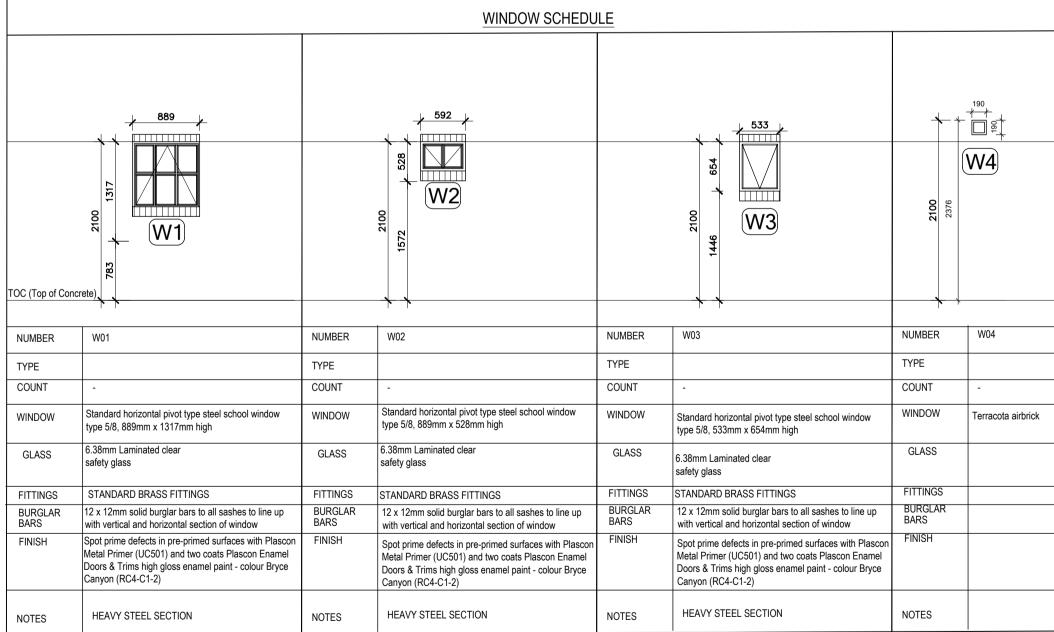
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate w smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultr 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union A sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL506 hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed pa Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with F coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Pr aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign abov

	NOTES :	
ling to structural engineer's drawings. Top of <sup>3</sup> or 1 per batch). Finished sides and bottoms type applied at a rate of not less than 5 litres 165 and SANS Code of Practice 0124. ar guarantee. It least 93% Mod. AASHTO density in layers onditions. Minimum of 170mm filling to be proved by engineer (imported filling to be provided at a rate of one test per 125m <sup>2</sup> filling o be treated with ant poison of the Prothor n per m <sup>2</sup> by a firm of specialists in accordance casted within 24 hours of application.	Il Wolfmanne bit berget, with Stavand Specification of marchais and marchais bit be described to be shown of the stability of the stability policies to be determined and per also provide to evaluate any of the stability of the sta	
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Apron to be cast in alternative sections in to be thickened by 240mm wide x 115mm		
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r openings with 10 x 6mm square recessed		
ls at floor level and under all window sills one coat smooth 1:5 cement plaster finished alls & Ceilings (EPL) PVA paint. Colour	DISCIPLINE SIGNATURE DATE CLIENT	
n stretcher bond above to receive one coat i6) and two coats Plascon Polvin Walls &		
05 polysulfide joint sealant after surfaces have	ROADS / STORMWATER	
250/30 aluminium cover strips		
t flat in 1:4 cement mortar. Prime with one alls & Ceilings (EPL) PVA paint. Colour as		
o match walls with 10 x 6mm square		
s maximum. Sand down to a smooth finish, r meranti), apply one coat Plascon Woodcare	REVISIONS	
shing coats Plascon Woodcare Ultra (X44) prandering at 400mm centres maximum with o be pre-painted. Prime ceilings with one coat Walls & Ceilings (EPL) PVA paint. Colour		
x 38mm SA pine cross brander covered with ap door and surround to be painted as for e bearers, nailed to trusses		
sh (colour Traffic Green) on 50 x 76mm SAP s system. Roof sheeting to be done by		
factured FK3 ridge or hip flashing with		
to truss ends and counter batten with boards screw fixed to trusses or purlins with Multi-Surface Primer (WUP1) and finish off		
ishes schedule. stem at maximum 1100mm centres with 20 n SAP wall plate to be carbolineum treated	INSTITUTION EMIS NUMBER	
nd erection of trusses as well as detailed before manufacturing. All sections in contact secured to walls with 2.5mm diameter	SERVICE	
sses must also be secured with 2.5mm purlins. All exposed parts of trusses, purlins,		
e coat Plascon Wood Primer (UC2) and edule. with Globalcoat finish (colour Gemsbok		
et iron with Globalcoat finish (colour Gemsbok		
es andard factory manufactured FK13 barge or		
y manufactured FK8 headwall flashing and	DRAWING DESCRIPTION	
h wall mounted centre board 2000 x 1200mm s each 1000 x 1200mm high with permanent	FILE No.	
000 x 1200mm high (2 per classroom) hish, 760 x 610 x 1700mm high with four	SCALE 1: 100 CHECK	
baced & fixed from underside to 305mm wide 2134mm long double slotted epoxy powder nd down to a smooth finish, stop with Polycell	DATE         NAME         SIGNATURE         PR NUMBER           2023.06.20         Y.VAHED         7812	
3 mineral turpentine (AZH1) then apply two with chamfered edges. Sand down to a tra (X44) suede varnish thinned with 1:3 ra (X44) suede varnish to back plate. Provide AL5066-E08/2AS aluminium red down arrow	CONSULTANT : CONSULTANT : Suite 4 No 6 Ismini Office Building,	
66-06ASE05 aluminium engraved red fire n above fire hose reel. Water supply in arts of pipes with Plascon Aquasolv Plascon Metal Primer (UC501) and apply two rovide 150 x 150mm Union AL5066-E05/2AS ve fire hose reel.	6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR :	
	CADD AUTO CAD FILE SYSTEM AUTO CAD NAMER REV	

2020 71-3GR-102

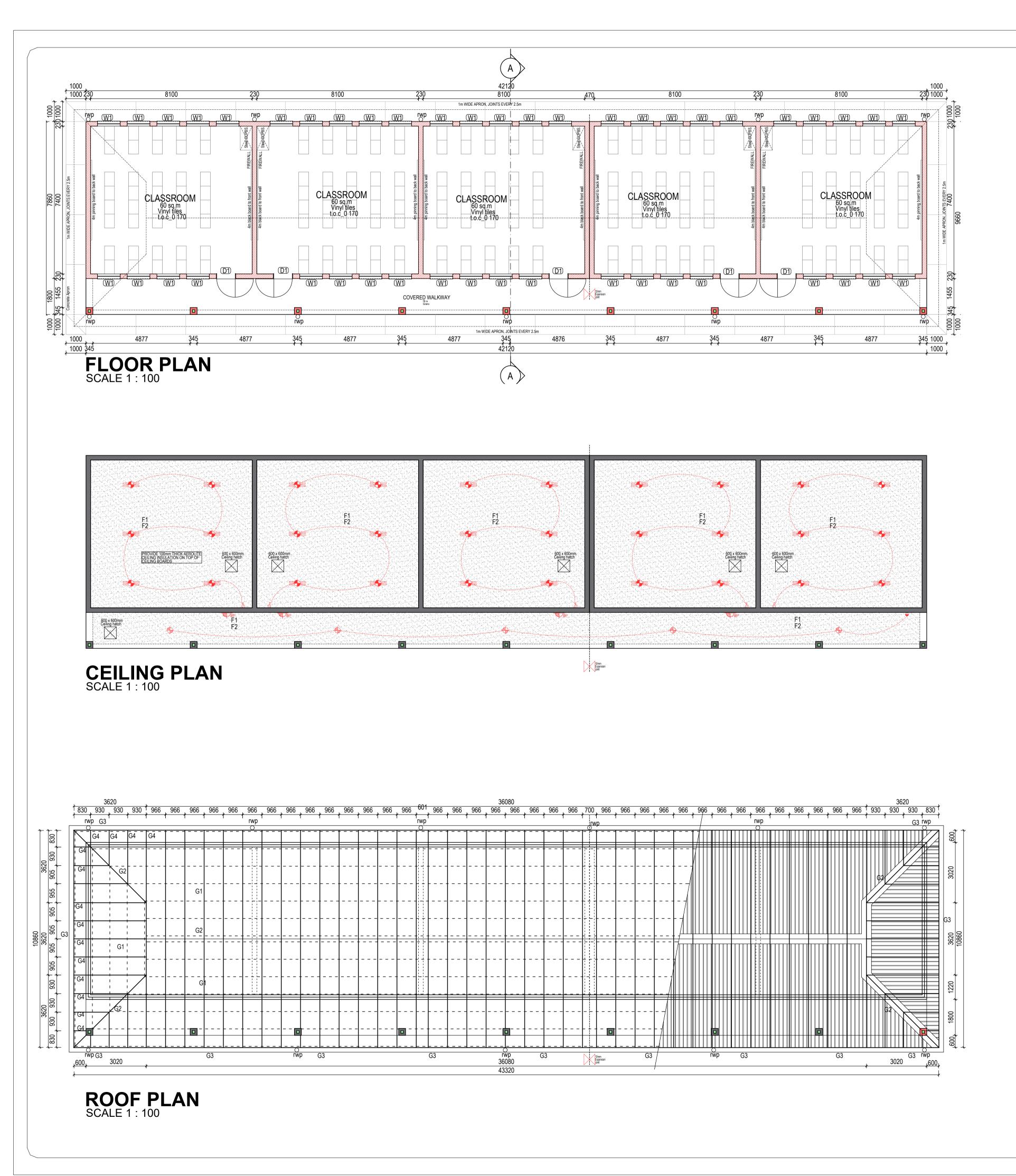




IEDULE					
CAL T.O.C.		TYPICAL T.O.C.		TYPICAL T.O.C.	
YPE D03		TYPE G01		TYPE G02	
ITION:	TOILET CUBICLES	POSITION:	ABLUTIONS GATE	POSITION:	SECURITY GATE
R TYPE :	813mm x 2032mm solid timber door 150mm UNDERCUT	DOOR TYPE :	1580mm x 2000mm	DOOR TYPE :	980mm x 2000mm
R FINISH:	AS PER MANUFACTURERS SPEC.	DOOR FINISH:	3 x coats clear varnish	DOOR FINISH:	3 x coats clear varnish
ИЕ:	VITREX	FRAME:	1.2mm double rebated frames suitable for 230mm wall, to accommodate 936 x 2032 door leaf	FRAME:	1.2mm double rebated frames to accommodate 936 x 2032
ME FINISH:	AS PER MANUFACTURERS SPEC.	FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint	FRAME FINISH:	1 X coat Zinc Chromate prim 2 x coat approved enamel pa
R:	VITREX	DOOR:	painted mild steel gate consisting of 10x10mm mild steel bars placed at 100mm centres at a 45° angle, colour to architect's specification	DOOR:	painted mild steel gate consi- placed at 100mm centres at a specification
lght:	NONE	FANLIGHT:	NONE	FANLIGHT:	NONE
IMONGERY:	INDICATOR LOCK	IRONMONGERY:	4 Lever security lockset and satin - chromed handles all approved	IRONMONGERY:	4 Lever security lockset and approved
NT:	8	COUNT:	2	COUNT:	3

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	 NOTES	S :			
	1) Workmanshi methods to b	p to comply be used - SABS	with Standard 0400 toilet to be at	Specification of n	naterials and
	aesian				
	5) 2 x coats				
Bit Source And Source	n wire supports in puvres from below				
	8) Trusses to Project Engine	be designed eers	in accordance	with SABS 0400 8	approved by
_					
mes suitable for 230mm wall,					
rimer					
		100			
at a 45° angle, colour to architect's					
		510			DATE
nd satin - chromed handles all	PLAN EXAMINE				
	ENVIRONMEN	TAL OFFICER			
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	DESIGN				ITEM No. DRAWN
		R	ESPONSIBLE F	ROFESSIONAL	
				SIGNATURE	7812
				-ORDINATED	
			CONSULT	ANT :	
		6 Ismir	ni Street, Polok	wane, D699 South Afric	ca
		Tel: +27	′ 15 065 0645, Email: info@rub Web: www.rube	Fax: +27 11 475 83 enreddyarch.co.za nreddyarch.co.za	564,
			CONTRAC	IOR :	
	CADD SYSTEM	AUTO CA	ND II		FILE
	SIZE		DRAWING		REV2
	 A 1	2020	0_71-30	501 <b>-</b> 103	A



### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement accord strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m of trenches to be treated with ant poison of the Prothor 200 SC or other approved of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1 Concrete to be casted within 24 hours of application. Contractor to provide five ye A2. Backfilling and filling under floors - in general, approved filling compacted to a of maximum 150mm - refer to engineer's drawings for detail in case of poor soil caprovided above natural or compacted ground level under floors. All filling to be ap minimum G5 or G7 material as per engineer's drawings). Compaction tests to be area under floors per each layer of 150mm compacted filling. Filling under floors to 200 SC or other approved type applied at a rate of not less than 5 litres of solution with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be contractor to provide five year guarantee Surface beds and floors

<u>B1.</u> Surface bed - concrete mix as described on structural engineer's drawings bu 952 Type C approved USB Green 250 micron waterproofing membrane with laps bed cast in alternative sections of maximum  $20m^2$  with saw cut joints with joints fil joints to be done within 24 hours after casting of concrete. Provide 10mm thick bit walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 19 Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer's Specification 952 Type C approved USB Green 250 micron waterproofing membritape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion jour sealer. Provide 10mm thick bitumen impregnated soft board between all walls and sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide to B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 g all external door openings external surface beds must be level with granolithic throws mooth with edging tool

<u>B4.</u> Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. *J* lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge deep (net) edge excavated in natural or finished ground level Skirtings

<u>C1.</u> 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm merant smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (V Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1 Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75 "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel pa 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (A Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZ Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clea

joints <u>D5.</u> DPC - SANS Specification 952 Type B approved 375 micron black dpc in wa D6. Internal walls - approved stockbrick walls in stretcher bond above to receive of

<u>D6.</u> Internal Walls - approved stockbrick Walls in stretcher bond above to receive c off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Wa broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent <u>D7.</u> Internal walls - face brick plinth up to 850mm with approved stockbrick walls in smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC5 Ceilings (EPL) PVA paint. Colour as per finishes schedule.

<u>D8.</u> All exposed expansion joints in walls and floors to be filled in with Urochem 20 been primed with Urochem 614 primer <u>D9.</u> Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF2

Window sills <u>E1.</u> Internal window sills - 15 x 150mm nutec-cement window sills, bedded and se coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin W

per finishes schedule <u>E2.</u> External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill t recessed joints

Ceilings and cornices

<u>F1.</u> Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centre stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(color Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two fin suede varnish to cornices

<u>F2.</u> Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Tr. ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pin Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finis purlins at maximum 1200mm centres on patent and approved pre-fabricated truss specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manu

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge countersunk brass screws. Prime fascias and barge boards with one coat Plascor with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per fin G4. Truss system - MiTek or other approved patent timber pre-fabricated truss sy degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114m before fixing. Truss manufacturer to provide certificate and guarantee for design shop drawings. Shop drawings to be provided to the Principal Agent for approval with wet trades to be carbolineum treated before fixing in position. Trusses to be galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to tru diameter galvanised steel wire, twice wrapped around and tied around rafters and etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with o apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes sch G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutte G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised she Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipe G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron s gable flashing with Globalcoat finish (colour Traffic Green)

<u>G8.</u> Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factor FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

<u>Fittings</u> <u>H1.</u> Vitrex Model 2400 (code 2404) enameled green folding type writing board wit high, two wall mounted side boards each 1000 x 1200mm high & two swing leave aluminium chalk rail

<u>H2.</u> Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size <u>H3.</u> Greenfield G25 double door steel cupboard with standard baked enameled fi shelves (2 per classroom)

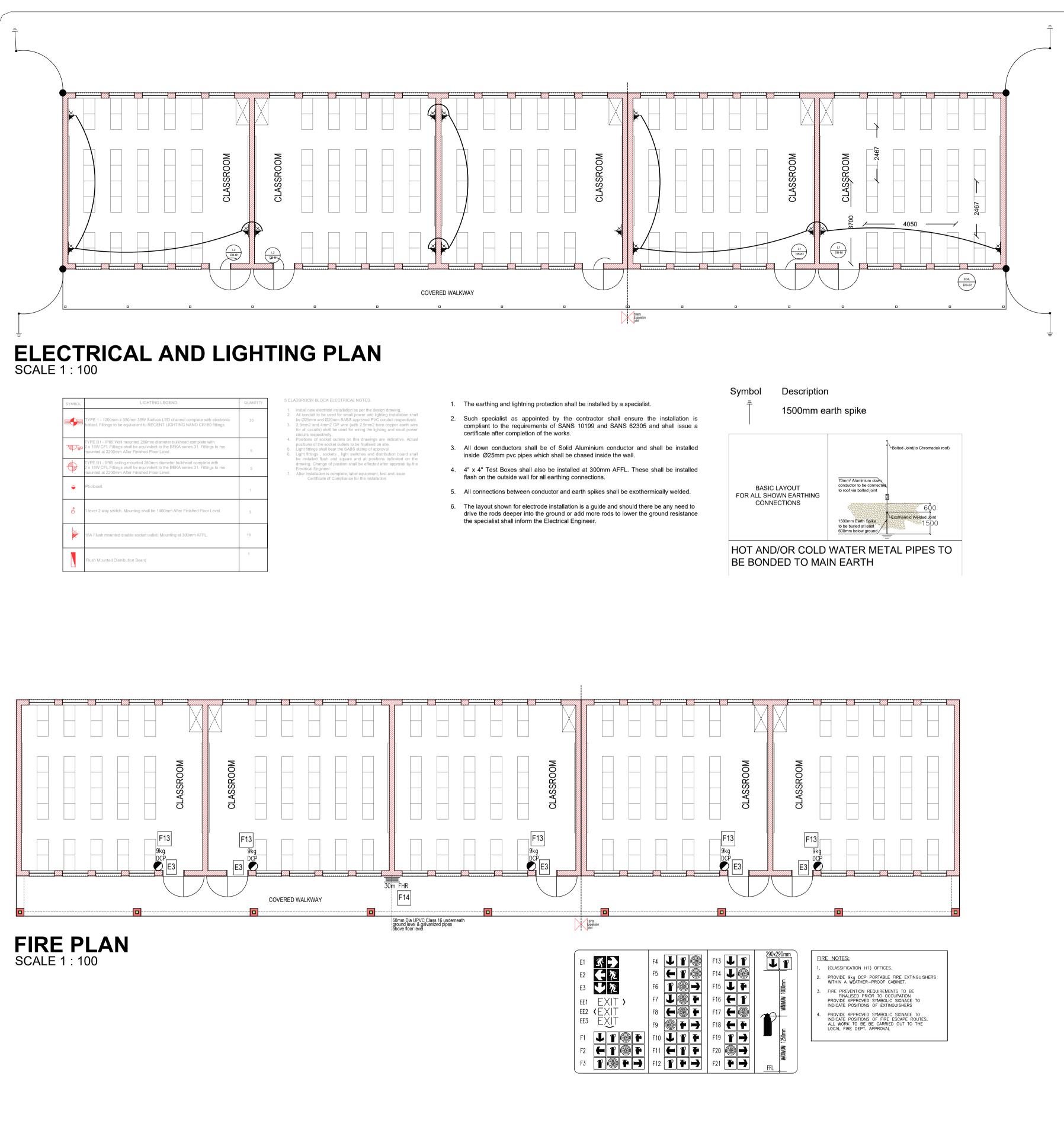
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly s Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sa Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1: finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate v smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ult mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ult 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL500 hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sig buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed p Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). P aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign abo

	NOTES :	
	1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400	
rding to structural engineer's drawings. Top of n <sup>3</sup> or 1 per batch). Finished sides and bottoms d type applied at a rate of not less than 5 litres 1165 and SANS Code of Practice 0124. rear guarantee. at least 93% Mod. AASHTO density in layers conditions. Minimum of 170mm filling to be pproved by engineer (imported filling to be e provided at a rate of one test per 125m <sup>2</sup> filling to be treated with ant poison of the Prothor on per m <sup>2</sup> by a firm of specialists in accordance e casted within 24 hours of application.	<ul> <li>2) Light Switch in Disabled toilet to be at 1200 mm above FFL</li> <li>3) If Step over 900 mm Build in Balustrade</li> <li>4) Gulley positions to be determined as per site prescribed overall draina design</li> <li>5) 2 x coats sealant on all exposed trusses (sand off all SABS &amp; other markings)</li> <li>6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire support all areas that do not have ceilings</li> <li>7) West Facing Facades to have standardised aluminium louvres from the eaves to drop of 1200 mm</li> <li>8) Trusses to be designed in accordance with SABS 0400 &amp; approved by Project Engineers</li> </ul>	ts in below
ut minimum 85mm thick on SANS Specification s sealed with pressure sensitive tape. Surface filled up with polysulfide sealer. All saw cut oitumen impregnated soft board between all 93 as per structural engineer's drawings.		
r's drawings but minimum 85mm thick on SANS brane with laps sealed with pressure sensitive joints with joints filled up with polysulfide nd concrete and seal joint with polysulfide test cubes (1 per 15m <sup>3</sup> or 1 per batch) granolithic screed sloping towards edges. At ureshold finish. Finish off edges of screed		
Apron to be cast in alternative sections in to be thickened by 240mm wide x 115mm		
nti quadrand bead plated on. Sand down to a W-range)(colour meranti), apply one coat l1) and apply two finishing coats Plascon		
m deep square recessed joints se. Superstructure walls - every 6th course. m thick flat section U-shaped fixing bracket, baseplate, four times holed and welded to 5mm masonry anchor bolts. Degrease with r (RR1)", prime with Plascon Metal Primer paint - colour as per finishes schedule. In to a smooth finish, stop with Polycell AZH1), apply one coat Plascon Woodcare AZH1) and apply two finishing coats Plascon		
ar openings with 10 x 6mm square recessed	ISSUED FOR TENDER	
Ils at floor level and under all window sills one coat smooth 1:5 cement plaster finished	DISCIPLINE SIGNATURE DATE	
/alls & Ceilings (EPL) PVA paint. Colour	CLIENT PLAN EXAMINER FIDE CONTROL	
in stretcher bond above to receive one coat 56) and two coats Plascon Polvin Walls &	FIRE CONTROL ENVIRONMENTAL OFFICER	
05 polysulfide joint sealant after surfaces have	ROADS / STORMWATER       WATER AND SANITATION	
250/30 aluminium cover strips et flat in 1:4 cement mortar. Prime with one	ENVIRONMENTAL OFFICER	
/alls & Ceilings (EPL) PVA paint. Colour as		
to match walls with 10 x 6mm square	A 2023.06.20 ISSUED FOR TENDER	
s maximum. Sand down to a smooth finish, ir meranti), apply one coat Plascon Woodcare shing coats Plascon Woodcare Ultra (X44)	REV No         DATE :         DESCRIPTION :	
brandering at 400mm centres maximum with to be pre-painted. Prime ceilings with one coat n Walls & Ceilings (EPL) PVA paint. Colour		
3 x 38mm SA pine cross brander covered with rap door and surround to be painted as for ne bearers, nailed to trusses		
ish (colour Traffic Green) on 50 x 76mm SAP s system. Roof sheeting to be done by		
ufactured FK3 ridge or hip flashing with		
d to truss ends and counter batten with boards screw fixed to trusses or purlins with n Multi-Surface Primer (WUP1) and finish off		
nishes schedule. /stem at maximum 1100mm centres with 20 m SAP wall plate to be carbolineum treated	THABANE PRIMARY SCHOOL	
and erection of trusses as well as detailed before manufacturing. All sections in contact	925621162 SERVICE	
secured to walls with 2.5mm diameter isses must also be secured with 2.5mm d purlins. All exposed parts of trusses, purlins,	NEW BUILDINGS & ALTERATIONS	
ne coat Plascon Wood Primer (UC2) and edule.	CONTRACT - SECTION DOCUMENTATION & PROCUREMENT	
with Globalcoat finish (colour Gemsbok ers et iron with Globalcoat finish (colour Gemsbok	DISCIPLINE PROJECT	
es tandard factory manufactured FK13 barge or	WORK DESCRIPTION - SUB DIVISION 5 CLASSROOM BLOCK	
y manufactured FK8 headwall flashing and	DRAWING DESCRIPTION	
h wall mounted centre board 2000 x 1200mm s each 1000 x 1200mm high with permanent	FLOOR,CEILING AND ROOF PLA	
2000 x 1200mm high (2 per classroom)		DRAWN CHECKE
nish, 760 x 610 x 1700mm high with four paced & fixed from underside to 305mm wide	RESPONSIBLE PROFESSIONAL DATE NAME SIGNATURE PR NUM	IBER
and down to a smooth finish, stop with Polycell 3 mineral turpentine (AZH1) then apply two	2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED	
with chamfered edges. Sand down to a ltra (X44) suede varnish thinned with 1:3 tra (X44) suede varnish to back plate. Provide n AL5066-E08/2AS aluminium red down arrow	CONSULTANT : CONSULTANT : CONSULTANT :	
066-06ASE05 aluminium engraved red fire gn above fire hose reel. Water supply in parts of pipes with Plascon Aquasolv h Plascon Metal Primer (UC501) and apply two	Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR :	
Provide 150 x 150mm Union AL5066-E05/2AS ove fire hose reel.	CADD AUTO CAD	FILE
	SYSTEM AUTO CAD SIZE DRAWING NUMBER	NAME REV2

2020 71-5CL-100



### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement accord strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>2</sup> of trenches to be treated with ant poison of the Prothor 200 SC or other approved of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification Concrete to be casted within 24 hours of application. Contractor to provide five ye A2. Backfilling and filling under floors - in general, approved filling compacted to of maximum 150mm - refer to engineer's drawings for detail in case of poor soil of provided above natural or compacted ground level under floors. All filling to be ap minimum G5 or G7 material as per engineer's drawings). Compaction tests to be area under floors per each layer of 150mm compacted filling. Filling under floors 200 SC or other approved type applied at a rate of not less than 5 litres of solution with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be of Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings bu 952 Type C approved USB Green 250 micron waterproofing membrane with laps bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints fi joints to be done within 24 hours after casting of concrete. Provide 10mm thick bit walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 19 Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer Specification 952 Type C approved USB Green 250 micron waterproofing membr tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion j sealer. Provide 10mm thick bitumen impregnated soft board between all walls and sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 all external door openings external surface beds must be level with granolithic three smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge t deep (net) edge excavated in natural or finished ground level Skirtings

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm merant smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain ( Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1 Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75 "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel pa 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (A Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (Az Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clea

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in wal D6. Internal walls - approved stockbrick walls in stretcher bond above to receive off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Wa broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls

smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC5 Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 20 been primed with Urochem 614 primer

D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF Window sills

E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and se coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin W per finishes schedule

E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill recessed joints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centre stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colou Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finite suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. The ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pin

Roof and fascias G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finis purlins at maximum 1200mm centres on patent and approved pre-fabricated truss specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory man

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge countersunk brass screws. Prime fascias and barge boards with one coat Plascor with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per fin G4. Truss system - MiTek or other approved patent timber pre-fabricated truss sy degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mr before fixing. Truss manufacturer to provide certificate and guarantee for design a shop drawings. Shop drawings to be provided to the Principal Agent for approval with wet trades to be carbolineum treated before fixing in position. Trusses to be s galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to tru diameter galvanised steel wire, twice wrapped around and tied around rafters and etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with or apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes sche G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutte G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised shee Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipe G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron st

gable flashing with Globalcoat finish (colour Traffic Green) G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory FK7 counter flashing with Globalcoat finish (Colour Traffic Green) Fittings

H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size H3. Greenfield G25 double door steel cupboard with standard baked enameled fi shelves (2 per classroom)

H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly s Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sa Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1: finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

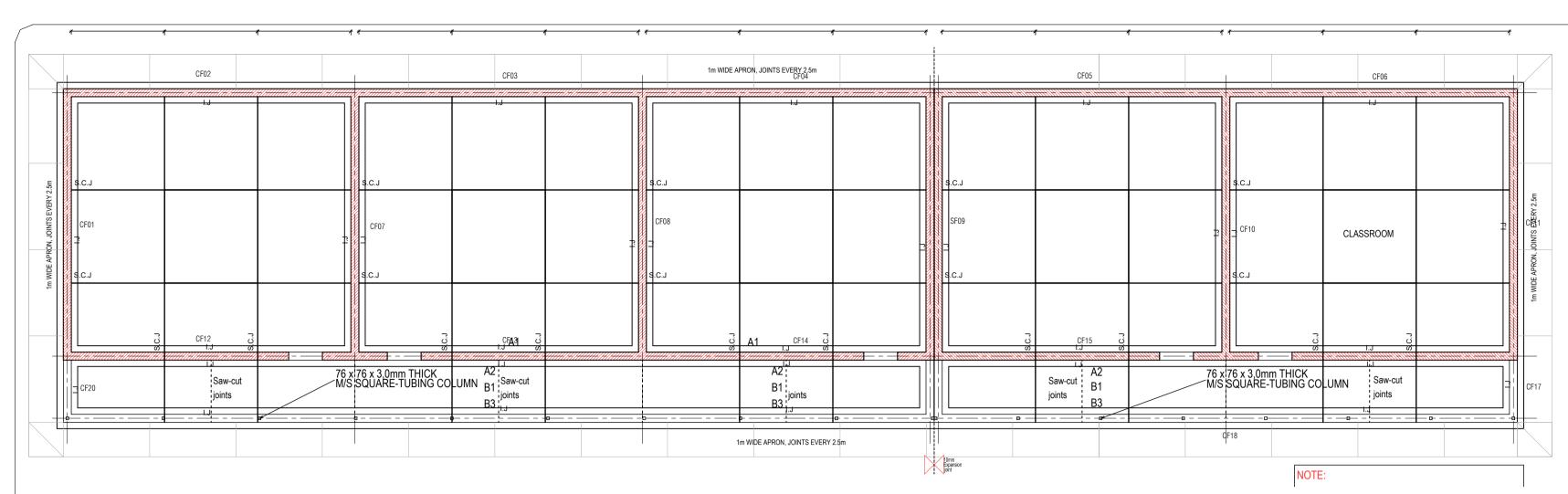
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ult mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ult 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL50 hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sig buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). P aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign abo

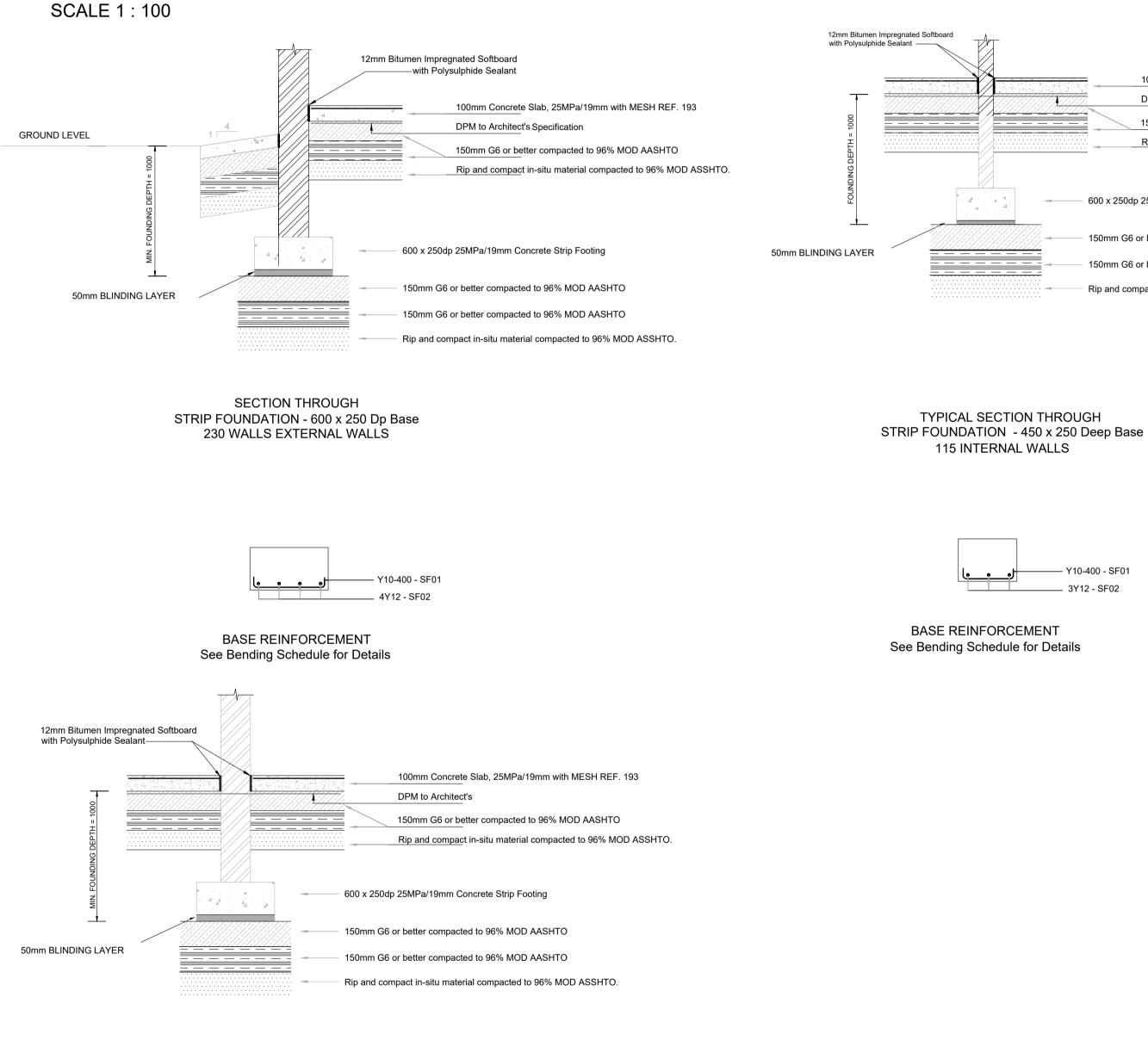
		:			
	1) Workmanship methods to be	used - SABS	0400	Specification of n	
ording to structural engineer's drawings. Top of m <sup>3</sup> or 1 per batch). Finished sides and bottoms ed type applied at a rate of not less than 5 litres in 1165 and SANS Code of Practice 0124. year guarantee. to at least 93% Mod. AASHTO density in layers conditions. Minimum of 170mm filling to be approved by engineer (imported filling to be e provided at a rate of one test per 125m <sup>2</sup> filling is to be treated with ant poison of the Prothor ion per m <sup>2</sup> by a firm of specialists in accordance e casted within 24 hours of application.	<ul> <li>3) If Step over 1</li> <li>4) Gulley position design</li> <li>5) 2 x coats sea markings )</li> <li>6) 50 mm minera</li> <li>Bubble plastic i all areas that do</li> <li>7) West Facing eaves to drop compared to the plane of the plan</li></ul>	900 mm Build ns to be de Ilant on all d I wool insul insulation wi o not have o Facades to of 1200 mm e designed	I in Balustrade termined as p exposed trusses ation to be ins th foil backing ceilings have standardis	stalled where there to be installed with	overall drainage ABS & other are ceilings . h wire supports in puvres from below
but minimum 85mm thick on SANS Specification be sealed with pressure sensitive tape. Surface filled up with polysulfide sealer. All saw cut bitumen impregnated soft board between all 193 as per structural engineer's drawings.					
r's drawings but minimum 85mm thick on SANS brane with laps sealed with pressure sensitive joints with joints filled up with polysulfide nd concrete and seal joint with polysulfide test cubes (1 per 15m <sup>3</sup> or 1 per batch) granolithic screed sloping towards edges. At preshold finish. Finish off edges of screed					
. Apron to be cast in alternative sections in e to be thickened by 240mm wide x 115mm					
nti quadrand bead plated on. Sand down to a (W-range)(colour meranti), apply one coat H1) and apply two finishing coats Plascon					
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AZH1) and apply two finishing coats Plascon		ISS	UED FO	R TENDER	
ar openings with 10 x 6mm square recessed		SI			
one coat smooth 1:5 cement plaster finished Valls & Ceilings (EPL) PVA paint. Colour	DISCIPLINE CLIENT PLAN EXAMINER		SIGNATURE		DATE
in stretcher bond above to receive one coat 56) and two coats Plascon Polvin Walls &	FIRE CONTROL ENVIRONMENTAI	LOFFICER			
205 polysulfide joint sealant after surfaces have	ROADS / STORM				
F250/30 aluminium cover strips	ENVIRONMENTAL				
et flat in 1:4 cement mortar. Prime with one Valls & Ceilings (EPL) PVA paint. Colour as					
to match walls with 10 x 6mm square		22.00.00.100			
es maximum. Sand down to a smooth finish, ur meranti), apply one coat Plascon Woodcare		ATE :	REVISIO	DESCRIPTION :	
hishing coats Plascon Woodcare Ultra (X44) brandering at 400mm centres maximum with to be pre-painted. Prime ceilings with one coat in Walls & Ceilings (EPL) PVA paint. Colour		SIZE	ON ORIGINAL D	DRAWING 100 mm	
8 x 38mm SA pine cross brander covered with rap door and surround to be painted as for ine bearers, nailed to trusses					
nish (colour Traffic Green) on 50 x 76mm SAP ss system. Roof sheeting to be done by					
nufactured FK3 ridge or hip flashing with					
d to truss ends and counter batten with boards screw fixed to trusses or purlins with			INSTITUT	TION	/
on Multi-Surface Primer (WUP1) and finish off inishes schedule. ystem at maximum 1100mm centres with 20	THAB	ANE PF	RIMARY S	SCHOOL	
and erection of trusses as well as detailed	9256	21162	INSTIT	UTION EMIS NUMBER	7
I before manufacturing. All sections in contact secured to walls with 2.5mm diameter usses must also be secured with 2.5mm	NFW	וח וו	SERVIO		 NS
nd purlins. All exposed parts of trusses, purlins, one coat Plascon Wood Primer (UC2) and nedule.			CONTRACT -		
n with Globalcoat finish (colour Gemsbok ers			DISCIPL	INE	PROJECT STAGE
eet iron with Globalcoat finish (colour Gemsbok les standard factory manufactured FK13 barge or				- IURAL	4
ry manufactured FK8 headwall flashing and		5 (	DRAWING DES	OM BLOCK	
ith wall mounted centre board 2000 x 1200mm		RICAL			RE PLAN
es each 1000 x 1200mm high with permanent	FILE No. DESIGN				ITEM No DRAWN
2000 x 1200mm high (2 per classroom) inish, 760 x 610 x 1700mm high with four	SCALE		ESPONSIBLE PF		
spaced & fixed from underside to 305mm wide x 2134mm long double slotted epoxy powder and down to a smooth finish, stop with Polycell :3 mineral turpentine (AZH1) then apply two	DATE 2023.06.20	Y.VA		SIGNATURE	PR NUMBER 7812
with chamfered edges. Sand down to a Iltra (X44) suede varnish thinned with 1:3		$\mathbf{O}$	CONSULTA		
Iltra (X44) suede varnish to back plate. Provide on AL5066-E08/2AS aluminium red down arrow 066-06ASE05 aluminium engraved red fire ign above fire hose reel. Water supply in		S 6 Ismir	uite 4 No 6 Ismi ni Street, Polokwa		ca
parts of pipes with Plascon Aquasolv th Plascon Metal Primer (UC501) and apply two Provide 150 x 150mm Union AL5066-E05/2AS pove fire hose reel.	CADD SYSTEM SIZE	AUTO CA	CONTRACT		FILE NAME REV2

2020 71-5CL-101

Α







SECTION THROUGH STRIP FOUNDATION - 600 x 250 Dp Base 230 WALLS INTERNAL WALLS

> - Y10-400 - SF01 4Y12 - SF02

BASE REINFORCEMENT See Bending Schedule for Details



100mm Concrete Slab, 25MPa/19mm with MESH REF. 193 DPM to Architect's 150mm G6 or better compacted to 96% MOD AASHTO Rip and compact in-situ material compacted to 96% MOD ASSHTO. 600 x 250dp 25MPa/19mm Concrete Strip Footing

150mm G6 or better compacted to 96% MOD AASHTO 150mm G6 or better compacted to 96% MOD AASHTO

Rip and compact in-situ material compacted to 96% MOD ASSHTO.

#### CONSTRUCTION NOTES:

### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement accord strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> of trenches to be treated with ant poison of the Prothor 200 SC or other approved of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification Concrete to be casted within 24 hours of application. Contractor to provide five ye A2. Backfilling and filling under floors - in general, approved filling compacted to of maximum 150mm - refer to engineer's drawings for detail in case of poor soil c provided above natural or compacted ground level under floors. All filling to be ap minimum G5 or G7 material as per engineer's drawings). Compaction tests to be area under floors per each layer of 150mm compacted filling. Filling under floors t 200 SC or other approved type applied at a rate of not less than 5 litres of solution with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be of Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings bu 952 Type C approved USB Green 250 micron waterproofing membrane with laps bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints fi joints to be done within 24 hours after casting of concrete. Provide 10mm thick bit walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 19 Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer' Specification 952 Type C approved USB Green 250 micron waterproofing membr tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion j sealer. Provide 10mm thick bitumen impregnated soft board between all walls and sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 all external door openings external surface beds must be level with granolithic three smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge t deep (net) edge excavated in natural or finished ground level Skirtings

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm merant smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain ( Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1 Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75 "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel pa 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (A Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (Az Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clea

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in wal D6. Internal walls - approved stockbrick walls in stretcher bond above to receive off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Wa broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls

smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC5 Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 20 been primed with Urochem 614 primer

D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF3 Window sills

E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and se coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin W per finishes schedule

E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill recessed joints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colou Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two fini suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. T ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pin Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finis purlins at maximum 1200mm centres on patent and approved pre-fabricated truss specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory man

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge

countersunk brass screws. Prime fascias and barge boards with one coat Plascor with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per fin G4. Truss system - MiTek or other approved patent timber pre-fabricated truss sy degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114m before fixing. Truss manufacturer to provide certificate and guarantee for design shop drawings. Shop drawings to be provided to the Principal Agent for approval with wet trades to be carbolineum treated before fixing in position. Trusses to be s galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to tru diameter galvanised steel wire, twice wrapped around and tied around rafters and etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with or apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes sche G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutte G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised shee Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipe G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron st

gable flashing with Globalcoat finish (colour Traffic Green) G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with high, two wall mounted side boards each 1000 x 1200mm high & two swing leave aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2 H3. Greenfield G25 double door steel cupboard with standard baked enameled fi shelves (2 per classroom)

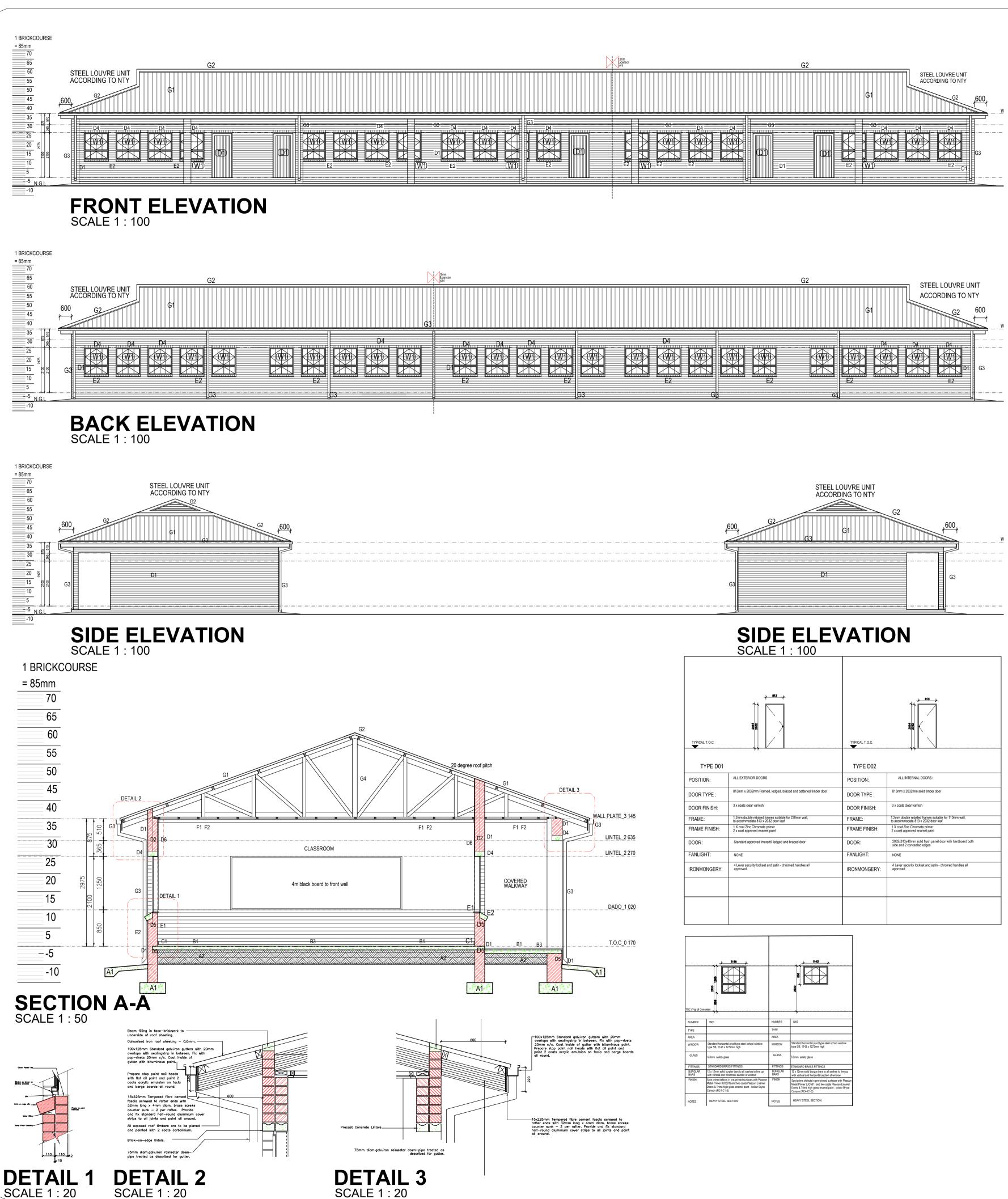
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sa Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1: finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ult mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ult 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL500 hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sig buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). P aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign abo

	NOTES :
	1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
rding to structural engineer's drawings. Top of n <sup>3</sup> or 1 per batch). Finished sides and bottoms d type applied at a rate of not less than 5 litres 1165 and SANS Code of Practice 0124. ear guarantee. at least 93% Mod. AASHTO density in layers conditions. Minimum of 170mm filling to be pproved by engineer (imported filling to be provided at a rate of one test per 125m <sup>2</sup> filling to be treated with ant poison of the Prothor on per m <sup>2</sup> by a firm of specialists in accordance casted within 24 hours of application.	<ul> <li>2)Light Switch in Disabled toilet to be at 1200 mm above FFL</li> <li>3) If Step over 900 mm Build in Balustrade</li> <li>4) Gulley positions to be determined as per site prescribed overall drainage design</li> <li>5) 2 x coats sealant on all exposed trusses (sand off all SABS &amp; other markings)</li> <li>6) 50 mm mineral wool insulation to be installed where there are ceilings . Bubble plastic insulation with foil backing to be installed with wire supports all areas that do not have ceilings</li> <li>7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm</li> <li>8) Trusses to be designed in accordance with SABS 0400 &amp; approved by Project Engineers</li> </ul>
ut minimum 85mm thick on SANS Specification s sealed with pressure sensitive tape. Surface illed up with polysulfide sealer. All saw cut itumen impregnated soft board between all 93 as per structural engineer's drawings.	
's drawings but minimum 85mm thick on SANS orane with laps sealed with pressure sensitive joints with joints filled up with polysulfide nd concrete and seal joint with polysulfide test cubes (1 per 15m <sup>3</sup> or 1 per batch) granolithic screed sloping towards edges. At reshold finish. Finish off edges of screed	
Apron to be cast in alternative sections in to be thickened by 240mm wide x 115mm	
nti quadrand bead plated on. Sand down to a W-range)(colour meranti), apply one coat I1) and apply two finishing coats Plascon	
m deep square recessed joints se. Superstructure walls - every 6th course.	
m thick flat section U-shaped fixing bracket, baseplate, four times holed and welded to 5mm masonry anchor bolts. Degrease with (RR1)", prime with Plascon Metal Primer baint - colour as per finishes schedule. In to a smooth finish, stop with Polycell AZH1), apply one coat Plascon Woodcare AZH1) and apply two finishing coats Plascon	
ar openings with 10 x 6mm square recessed	ISSUED FOR TENDER
alls at floor level and under all window sills one coat smooth 1:5 cement plaster finished /alls & Ceilings (EPL) PVA paint. Colour	SIGNATURE TABLE         DISCIPLINE       SIGNATURE       DATE         CLIENT
in stretcher bond above to receive one coat 56) and two coats Plascon Polvin Walls &	PLAN EXAMINER FIRE CONTROL
205 polysulfide joint sealant after surfaces have	ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION
250/30 aluminium cover strips	WATER AND SANITATION ENVIRONMENTAL OFFICER
et flat in 1:4 cement mortar. Prime with one /alls & Ceilings (EPL) PVA paint. Colour as	
to match walls with 10 x 6mm square	A 2023.06.20 ISSUED FOR TENDER
es maximum. Sand down to a smooth finish, ır meranti), apply one coat Plascon Woodcare ishing coats Plascon Woodcare Ultra (X44)	A         2023.06.20         ISSUED FOR TENDER           REV No         DATE :         DESCRIPTION :
brandering at 400mm centres maximum with to be pre-painted. Prime ceilings with one coat n Walls & Ceilings (EPL) PVA paint. Colour	
8 x 38mm SA pine cross brander covered with rap door and surround to be painted as for ne bearers, nailed to trusses	
ish (colour Traffic Green) on 50 x 76mm SAP s system. Roof sheeting to be done by	
ufactured FK3 ridge or hip flashing with	
d to truss ends and counter batten with boards screw fixed to trusses or purlins with Multi-Surface Primer (WUP1) and finish off	INSTITUTION
nishes schedule. /stem at maximum 1100mm centres with 20	THABANE PRIMARY SCHOOL
m SAP wall plate to be carbolineum treated and erection of trusses as well as detailed before manufacturing. All sections in contact	925621162 SERVICE
secured to walls with 2.5mm diameter usses must also be secured with 2.5mm d purlins. All exposed parts of trusses, purlins,	NEW BUILDINGS & ALTERATIONS
ne coat Plascon Wood Primer (UC2) and edule.	CONTRACT - SECTION DOCUMENTATION & PROCUREMENT
n with Globalcoat finish (colour Gemsbok ers eet iron with Globalcoat finish (colour Gemsbok	DISCIPLINE PROJECT STAT
es tandard factory manufactured FK13 barge or	WORK DESCRIPTION - SUB DIVISION 5 CLASSROOM BLOCK
ry manufactured FK8 headwall flashing and	DRAWING DESCRIPTION FOUNDATION PLAN, SECTION & DETA
h wall mounted centre board 2000 x 1200mm s each 1000 x 1200mm high with permanent	FILE No.
2000 x 1200mm high (2 per classroom) nish, 760 x 610 x 1700mm high with four	DESIGN DRAM SCALE 1: 100 CHEC
spaced & fixed from underside to 305mm wide < 2134mm long double slotted epoxy powder and down to a smooth finish, stop with Polycell	RESPONSIBLE PROFESSIONAL         DATE       NAME       SIGNATURE       PR NUMBER         2023.06.20       Y.VAHED       7812         DRAWING CO-ORDINATED       DRAWING CO-ORDINATED
3 mineral turpentine (AZH1) then apply two with chamfered edges. Sand down to a	CONSULTANT :
Itra (X44) suede varnish thinned with 1:3 Itra (X44) suede varnish to back plate. Provide n AL5066-E08/2AS aluminium red down arrow	Suite 4 No 6 Ismini Office Building, 6 Ismini Street Polokwane, D699 South Africa
066-06ASE05 aluminium engraved red fire gn above fire hose reel. Water supply in parts of pipes with Plascon Aquasolv h Plascon Metal Primer (UC501) and apply two Provide 150 x 150mm Union AL5066-E05/2AS	6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Emoil: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR :
ove fire hose reel.	CADD AUTO CAD FII
	SIZE DRAWING NUMBER RE

2020 71-5CL-102



TYPICAL T.O.C.		TYPICAL T.O.C.	
TYPE D01		TYPE D02	
POSITION:	ALL EXTERIOR DOORS	POSITION:	ALL INTERNAL DOORS:
DOOR TYPE :	813mm x 2032mm Framed, ledged, braced and battened timber door	DOOR TYPE :	813mm x 2032mm solid timber door
DOOR FINISH:	3 x coats clear varnish	DOOR FINISH:	3 x coats clear varnish
FRAME:	1.2mm double rebated frames suitable for 230mm wall, to accommodate 813 x 2032 door leaf	FRAME:	1.2mm double rebated frames suitable for 110mm wall, to accommodate 813 x 2032 door leaf
FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint	FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint
DOOR:	Standard approved 'meranti' ledged and braced door	DOOR:	2032x813x40mm solid flush panel door with hardboard both side and 2 concealed edges
FANLIGHT:	NONE	FANLIGHT:	NONE
IRONMONGERY:	4 Lever security lockset and satin - chromed handles all approved	IRONMONGERY:	4 Lever security lockset and satin - chromed handles all approved

TOC (Top of Co			······
NUMBER	W01	NUMBER	W02
TYPE		TYPE	
AREA		AREA	
WINDOW	Standard horizontal pivot type steel school window type 5/8, 1143 x 1272mm high	WINDOW	Standard horizontal pivot type steel school window type 5/8, 1143 x 1272mm high
GLASS	6.3mm safety glass	GLASS	6.3mm safety glass
FITTINGS	STANDARD BRASS FITTINGS	FITTINGS	STANDARD BRASS FITTINGS
BURGLAR BARS	12 x 12mm solid burglar bars to all sashes to line up with vertical and horizontal section of window	BURGLAR BARS	12 x 12mm solid burglar bars to all sashes to line up with vertical and horizontal section of window
FINISH	Spot prime defects in pre-primed surfaces with Plascon Metal Primer (UC501) and two coats Plascon Enamel Doors & Trims high gloss enamel paint - colour Bryce Canyon (RC4-C1-2)	FINISH	Spot prime defects in pre-primed surfaces with Plascon Metal Primer (UC501) and two coats Plascon Enamel Doors & Trims high gloss enamel paint - colour Bryce Canyon (RC4-C1-2)
NOTES	HEAVY STEEL SECTION	NOTES	HEAVY STEEL SECTION

#### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement accord strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m of trenches to be treated with ant poison of the Prothor 200 SC or other approved of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification Concrete to be casted within 24 hours of application. Contractor to provide five ye A2. Backfilling and filling under floors - in general, approved filling compacted to of maximum 150mm - refer to engineer's drawings for detail in case of poor soil provided above natural or compacted ground level under floors. All filling to be ap minimum G5 or G7 material as per engineer's drawings). Compaction tests to be area under floors per each layer of 150mm compacted filling. Filling under floors 200 SC or other approved type applied at a rate of not less than 5 litres of solutio with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be of Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings bu 952 Type C approved USB Green 250 micron waterproofing membrane with laps bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints f joints to be done within 24 hours after casting of concrete. Provide 10mm thick bi walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 1 Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer Specification 952 Type C approved USB Green 250 micron waterproofing memb tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion sealer. Provide 10mm thick bitumen impregnated soft board between all walls an sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 all external door openings external surface beds must be level with granolithic thr smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge deep (net) edge excavated in natural or finished ground level Skirtings

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meran smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain ( Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd cours Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section b bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75 "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel p 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (A Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (A Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clea

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in wa D6. Internal walls - approved stockbrick walls in stretcher bond above to receive off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin W broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC

Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 2 been primed with Urochem 614 primer

D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF3 Window sills E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and se

coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin W per finishes schedule

E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill recessed joints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centre stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(color Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two fin suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. T ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pin Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat fin purlins at maximum 1200mm centres on patent and approved pre-fabricated truss specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory man

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge countersunk brass screws. Prime fascias and barge boards with one coat Plasco with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per fil G4. Truss system - MiTek or other approved patent timber pre-fabricated truss sy degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114m before fixing. Truss manufacturer to provide certificate and guarantee for design shop drawings. Shop drawings to be provided to the Principal Agent for approval with wet trades to be carbolineum treated before fixing in position. Trusses to be galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to tru diameter galvanised steel wire, twice wrapped around and tied around rafters and etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with o apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes sch G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutte G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised she Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipe G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron s gable flashing with Globalcoat finish (colour Traffic Green)

G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factor FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board wit high, two wall mounted side boards each 1000 x 1200mm high & two swing leave aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size H3. Greenfield G25 double door steel cupboard with standard baked enameled fi shelves (2 per classroom)

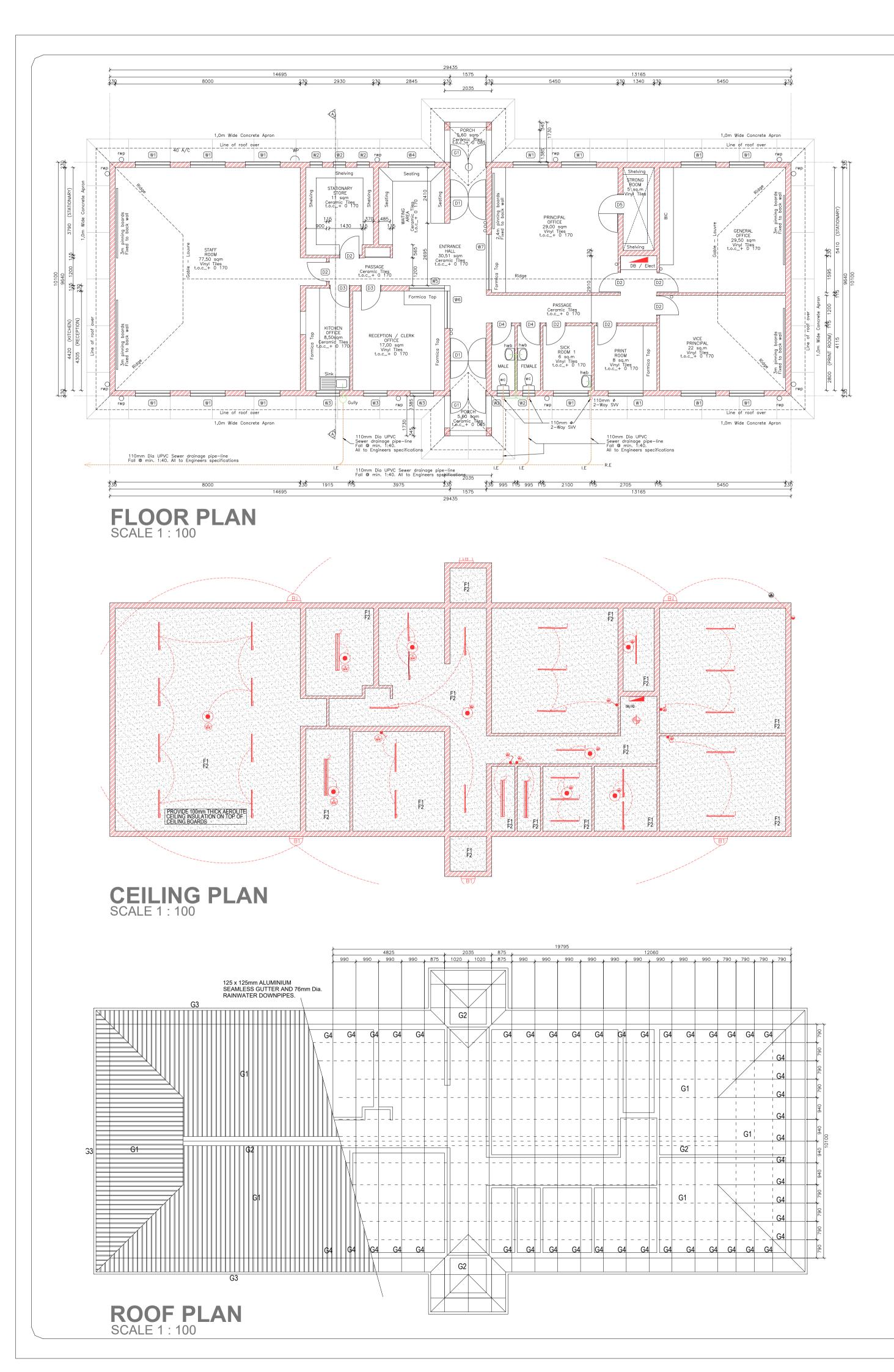
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sa Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1: finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare U mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare UI 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Unior sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL500 hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sig buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign abo

ording to structural engineer's drawings. Top of m <sup>3</sup> or 1 per batch). Finished sides and bottoms ed type applied at a rate of not less than 5 litres in 1165 and SANS Code of Practice 0124. year guarantee. o at least 93% Mod. AASHTO density in layers conditions. Minimum of 170mm filling to be approved by engineer (imported filling to be the provided at a rate of one test per 125m <sup>2</sup> filling s to be treated with ant poison of the Prothor ion per m <sup>2</sup> by a firm of specialists in accordance e casted within 24 hours of application.	<ol> <li>Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400</li> <li>Light Switch in Disabled toilet to be at 1200 mm above FFL</li> <li>If Step over 900 mm Build in Balustrade</li> <li>Gulley positions to be determined as per site prescribed overall drainage design</li> <li>2 x coats sealant on all exposed trusses (sand off all SABS &amp; other markings)</li> <li>50 mm mineral wool insulation to be installed where there are ceilings . Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings</li> <li>7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm</li> <li>8) Trusses to be designed in accordance with SABS 0400 &amp; approved by Project Engineers</li> </ol>
but minimum 85mm thick on SANS Specification os sealed with pressure sensitive tape. Surface filled up with polysulfide sealer. All saw cut bitumen impregnated soft board between all 193 as per structural engineer's drawings.	
er's drawings but minimum 85mm thick on SANS brane with laps sealed with pressure sensitive a joints with joints filled up with polysulfide and concrete and seal joint with polysulfide e test cubes (1 per 15m <sup>3</sup> or 1 per batch) 4 granolithic screed sloping towards edges. At hreshold finish. Finish off edges of screed	
n. Apron to be cast in alternative sections in Je to be thickened by 240mm wide x 115mm	
anti quadrand bead plated on. Sand down to a (W-range)(colour meranti), apply one coat H1) and apply two finishing coats Plascon	
nm deep square recessed joints rse. Superstructure walls - every 6th course.	
nm thick flat section U-shaped fixing bracket, n baseplate, four times holed and welded to 75mm masonry anchor bolts. Degrease with er (RR1)", prime with Plascon Metal Primer paint - colour as per finishes schedule. vn to a smooth finish, stop with Polycell (AZH1), apply one coat Plascon Woodcare AZH1) and apply two finishing coats Plascon	
ear openings with 10 x 6mm square recessed	ISSUED FOR TENDER
alls at floor level and under all window sills one coat smooth 1:5 cement plaster finished Walls & Ceilings (EPL) PVA paint. Colour	SIGNATURE TABLE       DISCIPLINE     SIGNATURE     DATE       CLIENT
s in stretcher bond above to receive one coat C56) and two coats Plascon Polvin Walls &	PLAN EXAMINER       FIRE CONTROL       ENVIRONMENTAL OFFICER
205 polysulfide joint sealant after surfaces have	ROADS / STORMWATER       WATER AND SANITATION
F250/30 aluminium cover strips set flat in 1:4 cement mortar. Prime with one	ENVIRONMENTAL OFFICER
Walls & Ceilings (EPL) PVA paint. Colour as	
res maximum. Sand down to a smooth finish, our meranti), apply one coat Plascon Woodcare	REV NO DATE : DESCRIPTION : REVISIONS
nishing coats Plascon Woodcare Ultra (X44) P brandering at 400mm centres maximum with s to be pre-painted. Prime ceilings with one coat vin Walls & Ceilings (EPL) PVA paint. Colour	SIZE ON ORIGINAL DRAWING 100 mm
38 x 38mm SA pine cross brander covered with Trap door and surround to be painted as for bine bearers, nailed to trusses	
nish (colour Traffic Green) on 50 x 76mm SAP iss system. Roof sheeting to be done by	
nufactured FK3 ridge or hip flashing with	
ed to truss ends and counter batten with le boards screw fixed to trusses or purlins with con Multi-Surface Primer (WUP1) and finish off	
finishes schedule. system at maximum 1100mm centres with 20 mm SAP wall plate to be carbolineum treated	THABANE PRIMARY SCHOOL
and erection of trusses as well as detailed al before manufacturing. All sections in contact	925621162
e secured to walls with 2.5mm diameter russes must also be secured with 2.5mm nd purlins. All exposed parts of trusses, purlins,	NEW BUILDINGS & ALTERATIONS
one coat Plascon Wood Primer (UC2) and hedule. on with Globalcoat finish (colour Gemsbok	CONTRACT - SECTION DOCUMENTATION & PROCUREMENT
tters neet iron with Globalcoat finish (colour Gemsbok	DISCIPLINE PROJECT STAGE
pes standard factory manufactured FK13 barge or	WORK DESCRIPTION - SUB DIVISION 5 CLASSROOM BLOCK
ory manufactured FK8 headwall flashing and	DRAWING DESCRIPTION
vith wall mounted centre board 2000 x 1200mm ves each 1000 x 1200mm high with permanent	ELEVATIONS & SECTIONS           FILE No.         ITEM No.
e 2000 x 1200mm high (2 per classroom)	DESIGN DRAWN SCALE 1: 100 CHECKED
finish, 760 x 610 x 1700mm high with four spaced & fixed from underside to 305mm wide	RESPONSIBLE PROFESSIONAL DATE NAME SIGNATURE PR NUMBER
Spaced & fixed from underside to Sostim wide x 2134mm long double slotted epoxy powder Sand down to a smooth finish, stop with Polycell 1:3 mineral turpentine (AZH1) then apply two	2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED
e with chamfered edges. Sand down to a Ultra (X44) suede varnish thinned with 1:3 Jltra (X44) suede varnish to back plate. Provide	CONSULTANT : CONSULTANT : CONSULTANT :
on AL5066-E08/2AS aluminium red down arrow 5066-06ASE05 aluminium engraved red fire sign above fire hose reel. Water supply in 4 parts of pipes with Plascon Aquasolv ith Plascon Metal Primer (UC501) and apply two	Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za
Provide 150 x 150mm Union AL5066-E05/2AS bove fire hose reel.	CADD AUTO CAD FILE SYSTEM AUTO CAD NAME
	SIZE DRAWING NUMBER REV

2020 71-5CL-103



#### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m<sup>2</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch) B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti guadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.

D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have been primed with Urochem 614 primer D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips

Window sills E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as

per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed ioints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge boards with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. G4. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolineum treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule. G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutters G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or

gable flashing with Globalcoat finish (colour Traffic Green) G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom) H3. Greenfield G25 double door steel cupboard with standard baked enameled finish. 760 x 610 x 1700mm high with four shelves (2 per classroom)

H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

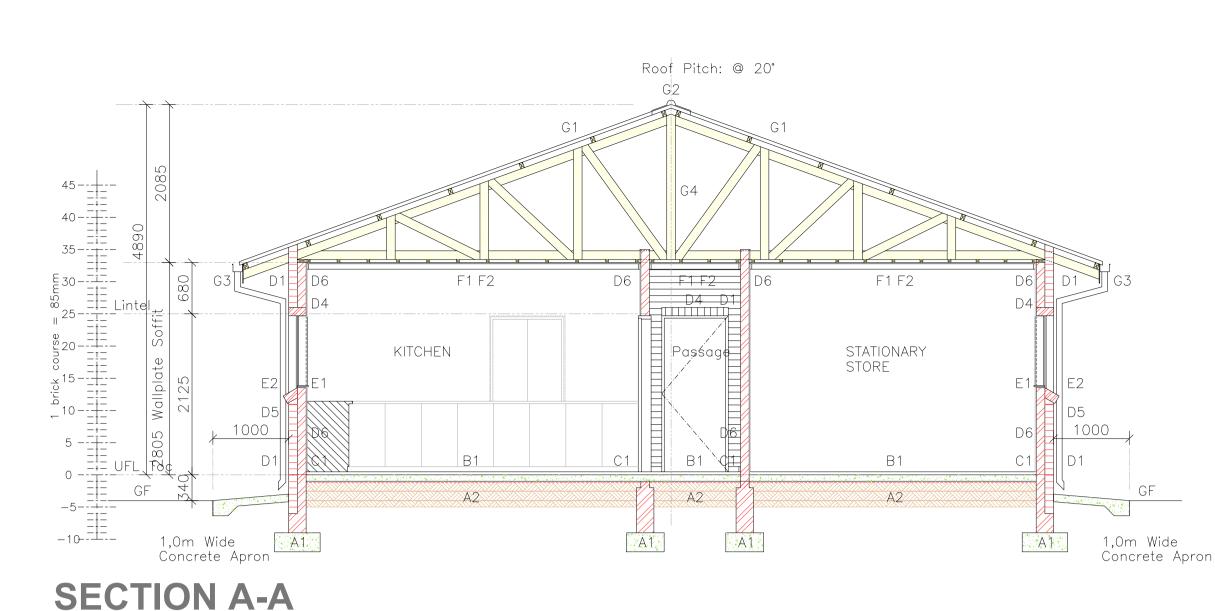
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher

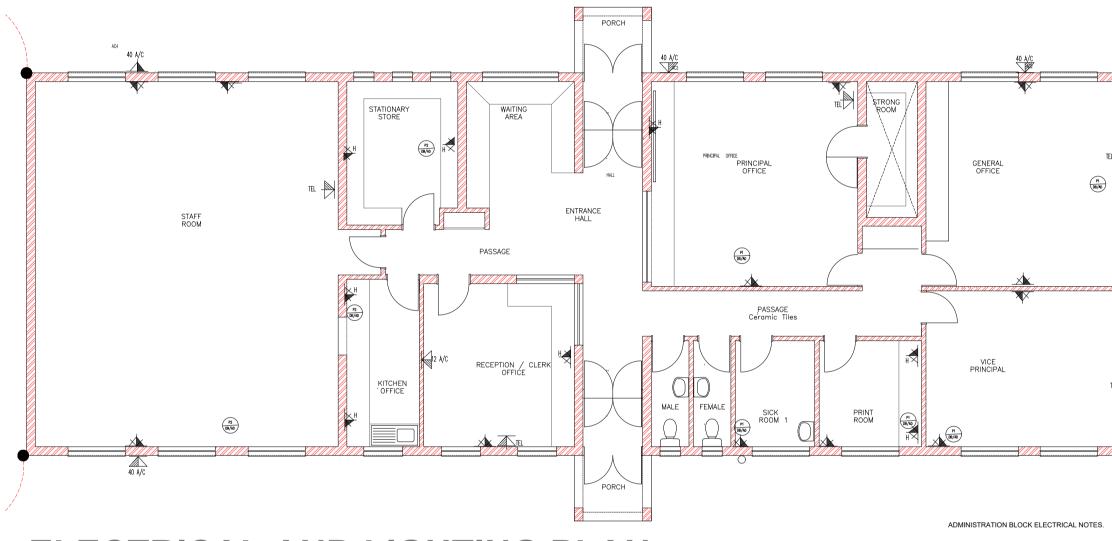
I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

### 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2)Light Switch in Disabled toilet to be at 1200 mm above FFL 3) If Step over 900 mm Build in Balustrade 4) Gulley positions to be determined as per site prescribed overall drainage 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings ) 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports all areas that do not have ceilings ') West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm 3) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS **ISSUED FOR TENDER** SIGNATURE TABLE DISCIPLINE SIGNATURE DATE **CLIENT** PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION ENVIRONMENTAL OFFICER REV No DATE DESCRIPTION SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO **PROVINCIAL GOVERNMENT** REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION THABANE PRIMARY SCHOOL INSTITUTION EMIS NUMBER 925621162 SERVICE **NEW BUILDINGS & ALTERATIONS** CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE PROJECT STAGE ARCHITECTURAL WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION FLOOR, CEILING & ROOF PLAN FILE No. ITEM No DESIGN DRAWN SCALE CHECKED 1: 100 RESPONSIBLE PROFESSIONAL SIGNATURE DATE PR NUMBER 2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED CONSULTANT Pruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR AUTO CAD DRAWING NUMBER

2020 71- MAD- 100

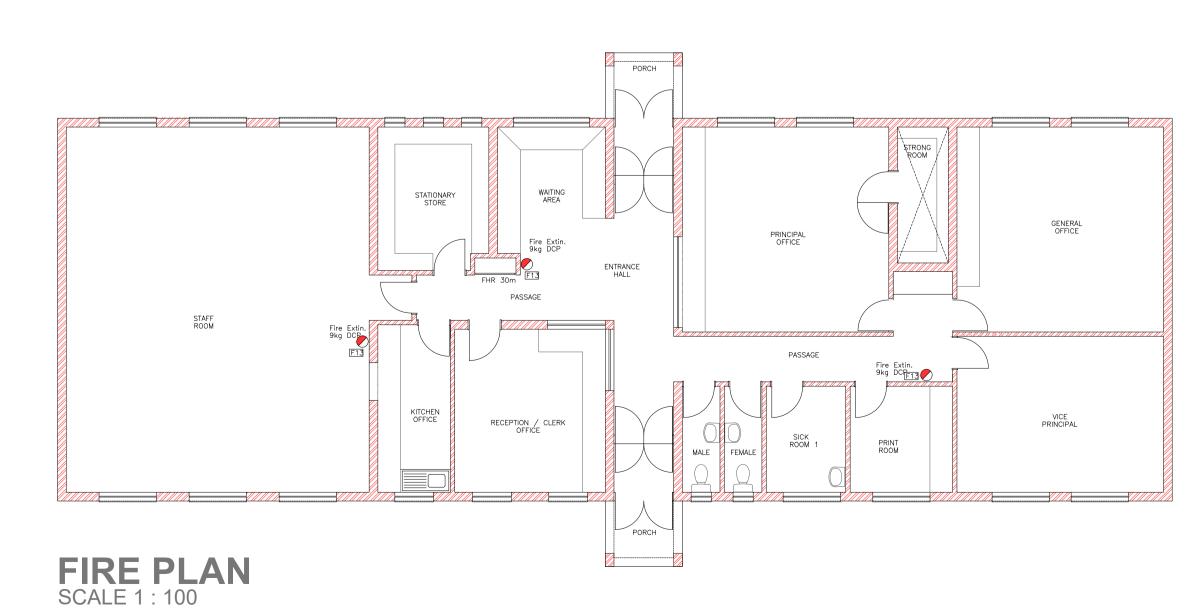
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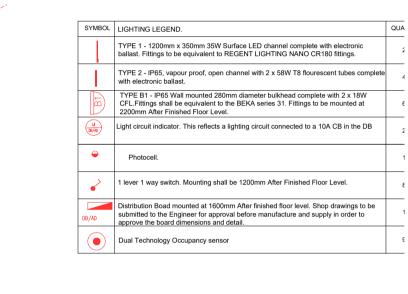




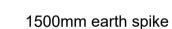
**ELECTRICAL AND LIGHTING PLAN** SCALE 1 · 100

SCALE 1 : 50



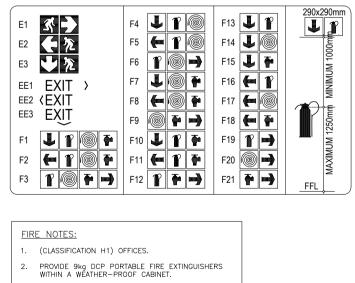


Symbol Description



70mm<sup>2</sup> Aluminium down

conductor to be connected



FIRE PREVENTION REQUIREMENTS TO BE FINALISED PRIOR TO OCCUPATION PROVIDE APPROVED SYMBOLIC SIGNAGE TO INDICATE POSITIONS OF EXTINGUISHERS

- PROVIDE APPROVED SYMBOLIC SIGNAGE TO INDICATE POSITIONS OF FIRE ESCAPE ROUTES. ALL WORK TO BE BE CARRIED OUT TO THE LOCAL FIRE DEPT. APPROVAL

#### CONSTRUCTION NOTES:

### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m<sup>2</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch) B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti guadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed

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off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.

been primed with Urochem 614 primer D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips

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G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with

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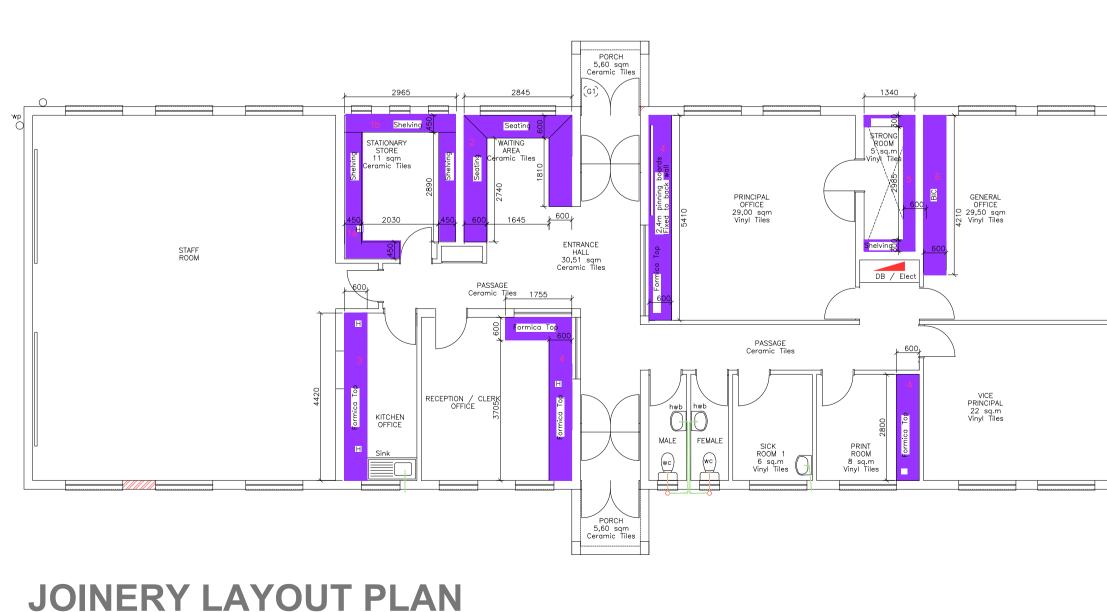
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### 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2)Light Switch in Disabled toilet to be at 1200 mm above FFL ) If Step over 900 mm Build in Balustrade 4) Gulley positions to be determined as per site prescribed overall drainage 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports all areas that do not have ceilings ) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm 3) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers **ISSUED FOR TENDER** SIGNATURE TABLE DISCIPLINE SIGNATURE DATE **CLIENT** PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have WATER AND SANITATION ENVIRONMENTAL OFFICER REV No DATE DESCRIPTION SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION THABANE PRIMARY SCHOOL INSTITUTION EMIS NUMBER 925621162 SERVICE **NEW BUILDINGS & ALTERATIONS** CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE PROJECT STAGE ARCHITECTURAL WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION SECTION, ELECTRICAL AND FIRE PLAN FILE No. ITEM No. DESIGN DRAWN SCALE CHECKED 1: 100 RESPONSIBLE PROFESSIONAL VAME SIGNATURE DATE PR NUMBER 2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED CONSULTANT Pruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR AUTO CAD DRAWING NUMBER

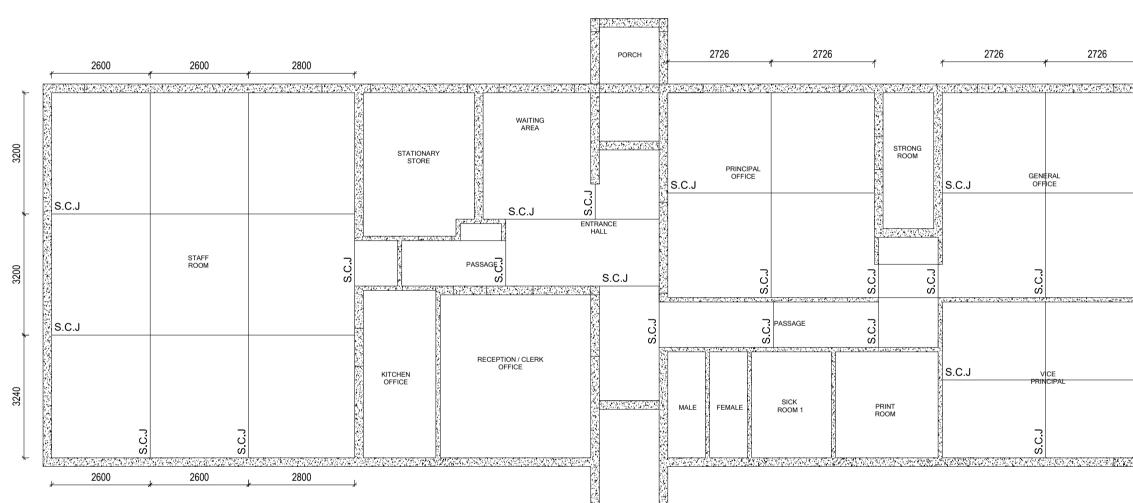
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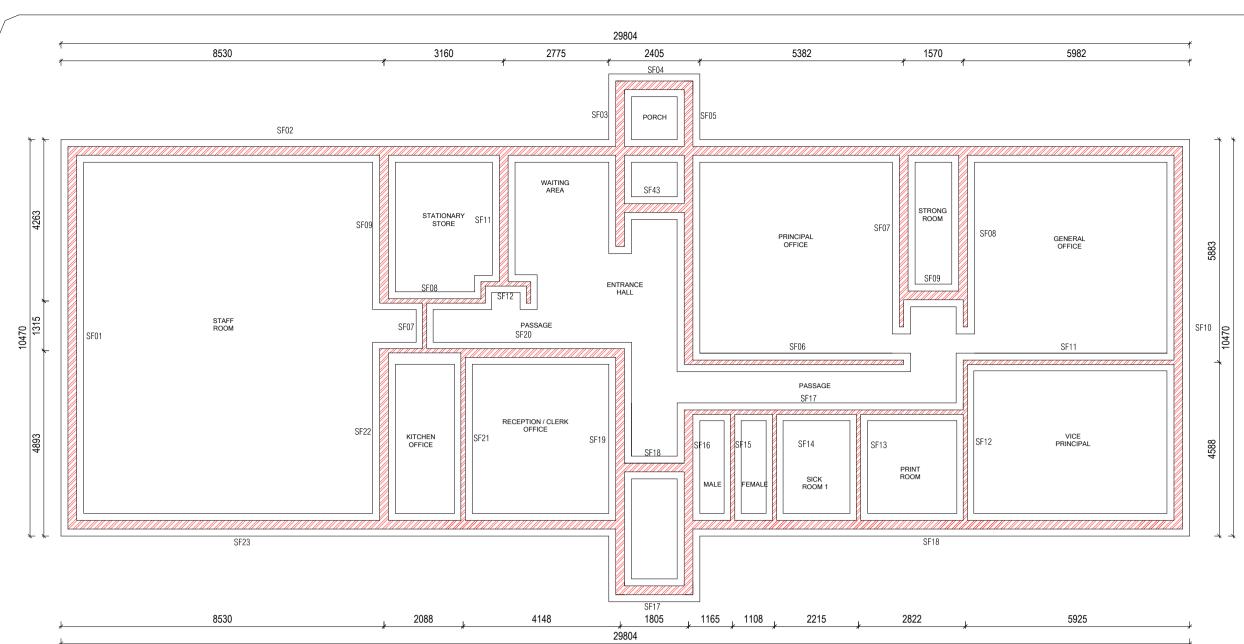


### **FLOOR JOINT LAYOUT PLAN** SCALE 1 · 100

SCALE 1:100



# **FOUNDATION PLAN** SCALE 1 : 100



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A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m<sup>2</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee Surface beds and floors

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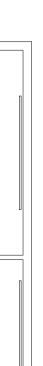
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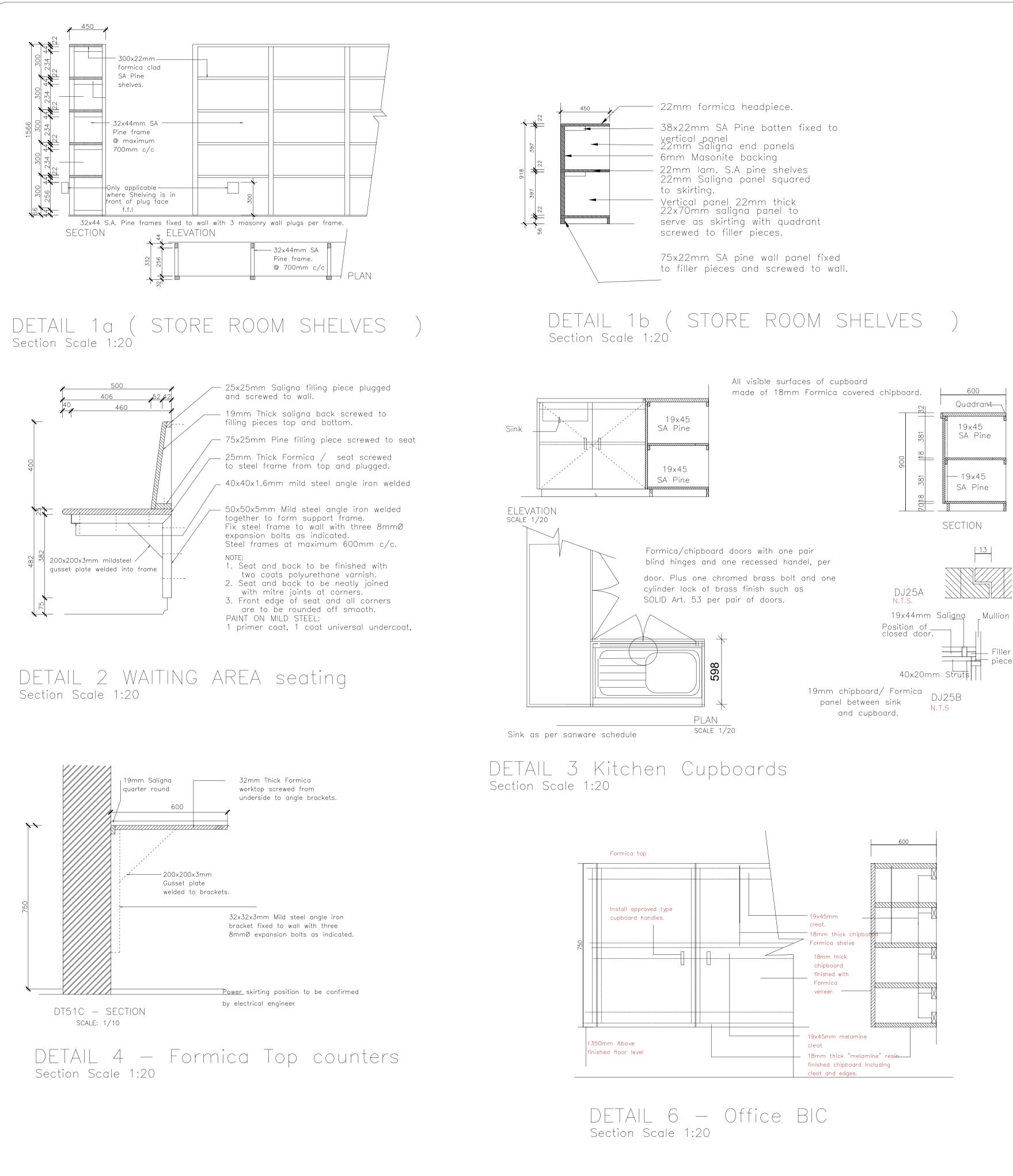
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I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

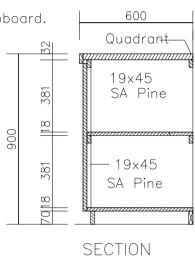


### 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2)Light Switch in Disabled toilet to be at 1200 mm above FFL 3) If Step over 900 mm Build in Balustrade 4) Gulley positions to be determined as per site prescribed overall drainage design 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings ) 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports all areas that do not have ceilings 7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm 3) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS **ISSUED FOR TENDER** SIGNATURE TABLE DISCIPLINE SIGNATURE DATE **CLIENT** PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION ENVIRONMENTAL OFFICER REV No DATE DESCRIPTION SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION THABANE PRIMARY SCHOOL INSTITUTION EMIS NUMBER 925621162 SERVICE **NEW BUILDINGS & ALTERATIONS** CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE PROJECT STAGE ARCHITECTURAL WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION **FOUNDATION PLAN, JOINT & JOINERY** FILE No. ITEM No. DESIGN DRAWN SCALE CHECKED 1: 100 RESPONSIBLE PROFESSIONAL SIGNATURE DATE PR NUMBER 2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED CONSULTANT Pruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR AUTO CAD DRAWING NUMBER

2020 71- MAD- 102









### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m<sup>2</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch) B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti guadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls &

Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have been primed with Urochem 614 primer

D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips Window sills E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one

coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule

E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed ioints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge boards with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. G4. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolineum treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule. G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutters G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or gable flashing with Globalcoat finish (colour Traffic Green)

G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittinas H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom) H3. Greenfield G25 double door steel cupboard with standard baked enameled finish. 760 x 610 x 1700mm high with four shelves (2 per classroom)

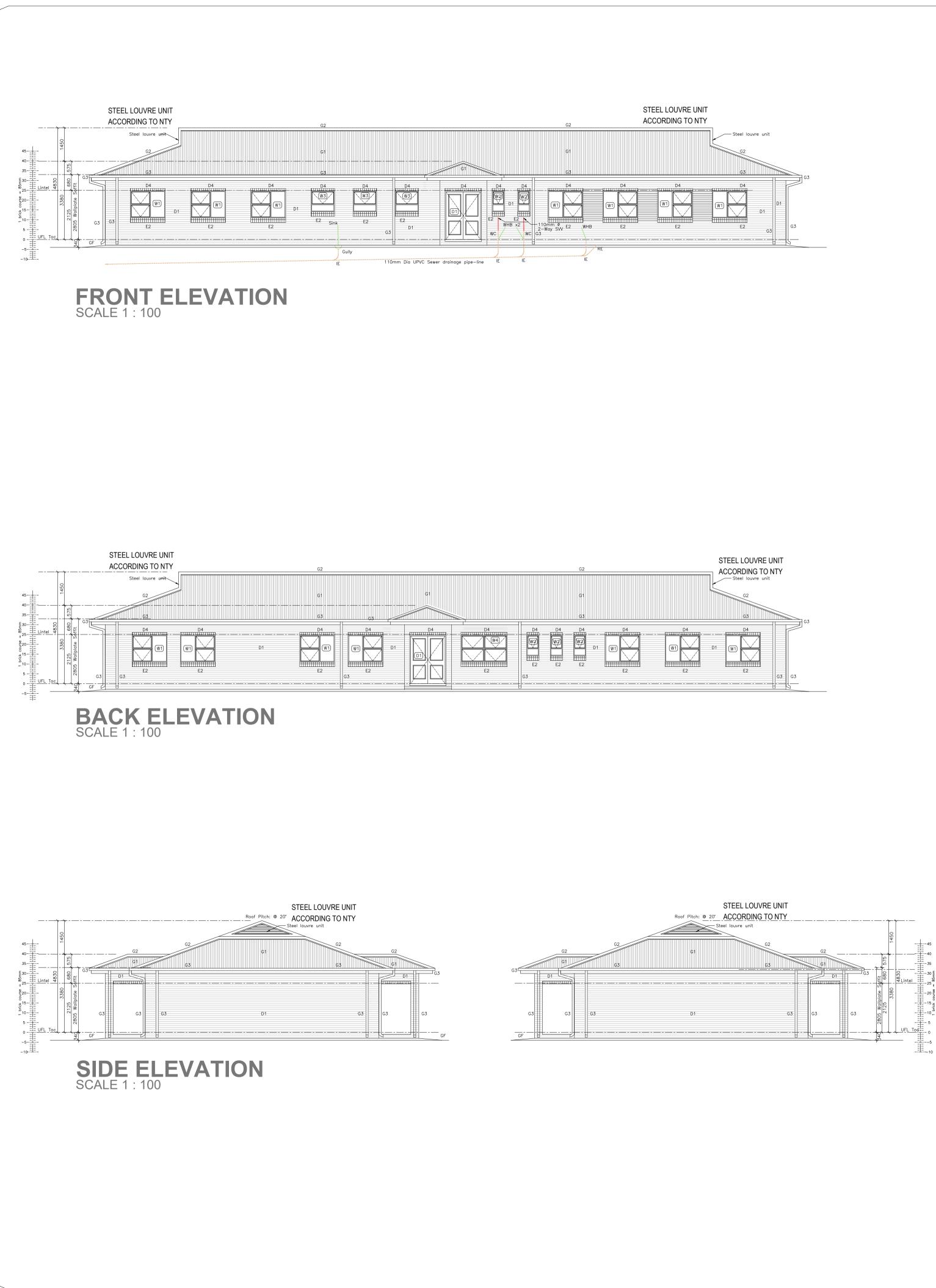
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

## 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2)Light Switch in Disabled toilet to be at 1200 mm above FFL 3) If Step over 900 mm Build in Balustrade 4) Gulley positions to be determined as per site prescribed overall drainage design 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings ) 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports all areas that do not have ceilings 7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm 3) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers **ISSUED FOR TENDER** SIGNATURE TABLE DISCIPLINE SIGNATURE DATE **CLIENT** PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION ENVIRONMENTAL OFFICER REV No DATE DESCRIPTION SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION THABANE PRIMARY SCHOOL INSTITUTION EMIS NUMBER 925621162 SERVICE **NEW BUILDINGS & ALTERATIONS** CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE PROJECT STAGE ARCHITECTURAL WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION JOINERY DETAILS FILE No. ITEM No. DESIGN DRAWN SCALE CHECKED 1: 100 RESPONSIBLE PROFESSIONAL IAME SIGNATURE DATE PR NUMBER All. 2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED CONSULTANT Pruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR AUTO CAD DRAWING NUMBER

2020 71- MAD- 103



### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m<sup>2</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch) B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool

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C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti guadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat

smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have been primed with Urochem 614 primer

D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips Window sills

E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule

E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed ioints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with

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gable flashing with Globalcoat finish (colour Traffic Green) G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom) H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high with four shelves (2 per classroom)

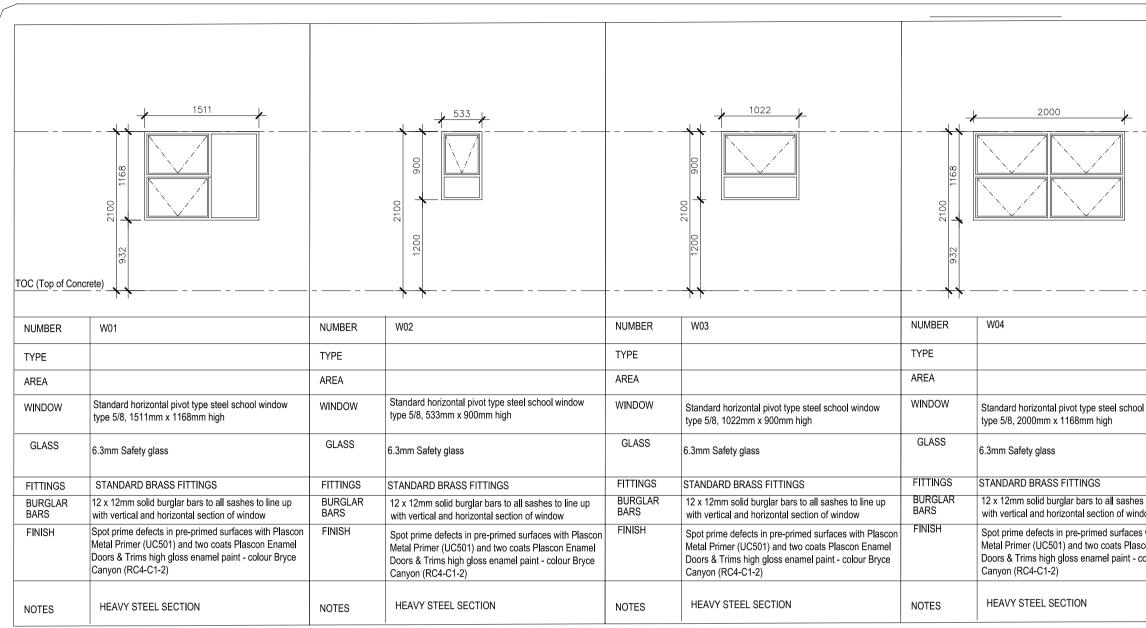
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

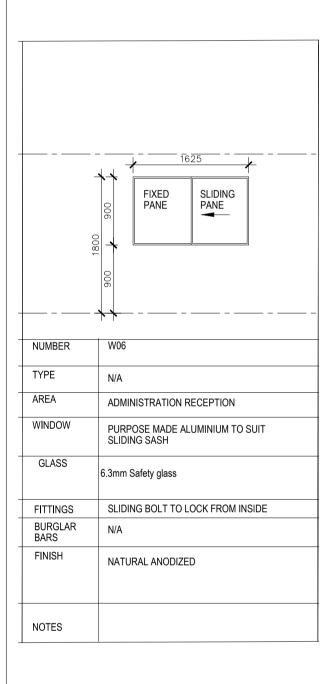
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

## 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2)Light Switch in Disabled toilet to be at 1200 mm above FFL ) If Step over 900 mm Build in Balustrade 4) Gulley positions to be determined as per site prescribed overall drainage 5) 2 x coats sealant on all exposed trusses (sand off all SABS & othe markings ) 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports all areas that do not have ceilings ) West Facing Facades to have standardised eaves to drop of 1200 mm 3) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers **ISSUED FOR TENDER** SIGNATURE TABLE DISCIPLINE SIGNATURE DATE **CLIENT** PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION ENVIRONMENTAL OFFICER REV No DATE DESCRIPTION SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO **PROVINCIAL GOVERNMENT** REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION THABANE PRIMARY SCHOOL INSTITUTION EMIS NUMBER 925621162 SERVICE **NEW BUILDINGS & ALTERATIONS** CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE PROJECT STAGE ARCHITECTURAL WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION ELEVATIONS FILE No. ITEM No. DESIGN DRAWN SCALE 1: 100 CHECKED RESPONSIBLE PROFESSIONAL DATE PR NUMBER 2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED CONSULTANT Pruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR AUTO CAD DRAWING NUMBER

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		PANE PANE	_	FIXED SLIDING PANE PANE 000 000 000 000 000 000 000 000 000 0
	NUMBER	W05	NUMBER	W06
	TYPE	N/A	TYPE	N/A
	AREA	ADMINISTRATION RECEPTION	AREA	ADMINISTRATION RECEPTION
ol window	WINDOW	PURPOSE MADE ALUMINIUM TO SUIT SLIDING SASH	WINDOW	PURPOSE MADE ALUMINIUM TO SUIT SLIDING SASH
	GLASS	6.3mm Safety glass	GLASS	6.3mm Safety glass
	FITTINGS	SLIDING BOLT TO LOCK FROM INSIDE	FITTINGS	SLIDING BOLT TO LOCK FROM INSIDE
es to line up ndow	BURGLAR BARS	N/A	BURGLAR BARS	N/A
es with Plascon scon Enamel colour Bryce	FINISH	NATURAL ANODIZED	FINISH	NATURAL ANODIZED
	NOTES		NOTES	

#### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m<sup>2</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch) B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti guadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1.5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent

D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have been primed with Urochem 614 primer

D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips Window sills

E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as

per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed ioints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge boards with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. G4. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolineum treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule. G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutters G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or

gable flashing with Globalcoat finish (colour Traffic Green) G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom) H3. Greenfield G25 double door steel cupboard with standard baked enameled finish. 760 x 610 x 1700mm high with four shelves (2 per classroom)

H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

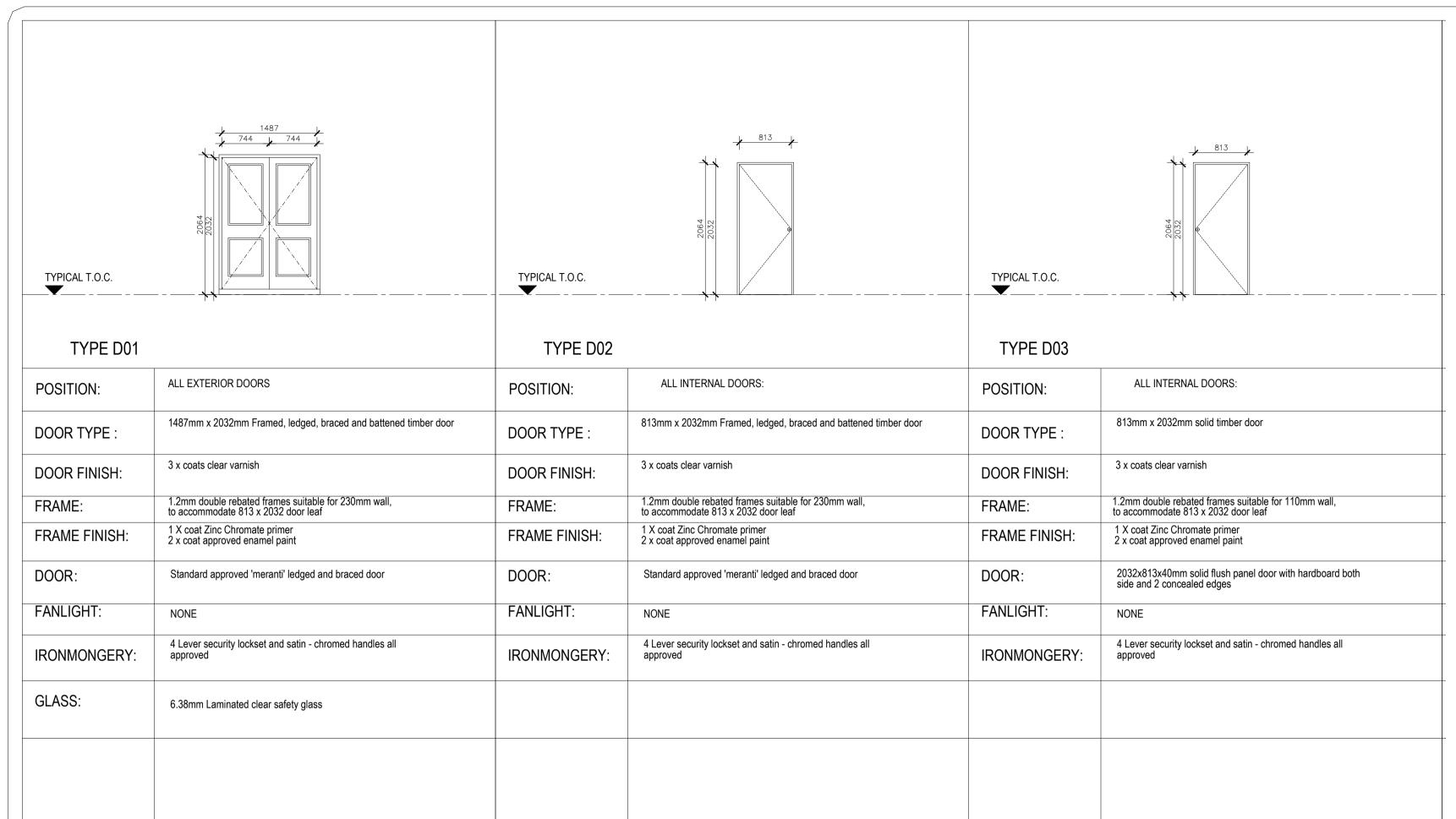
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher

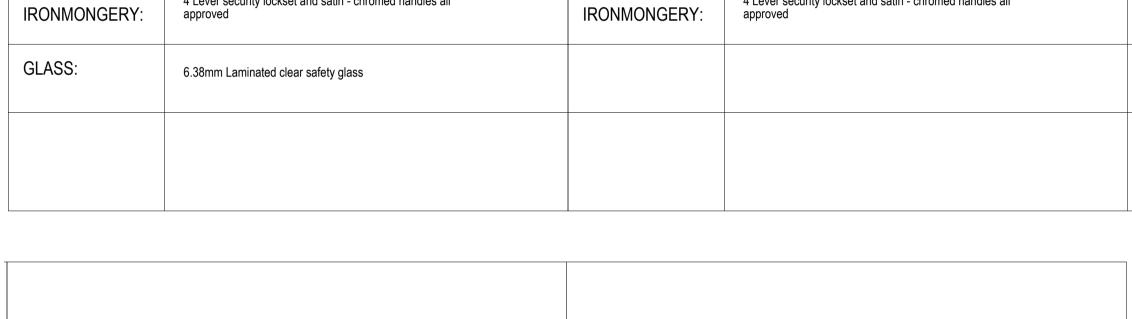
I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

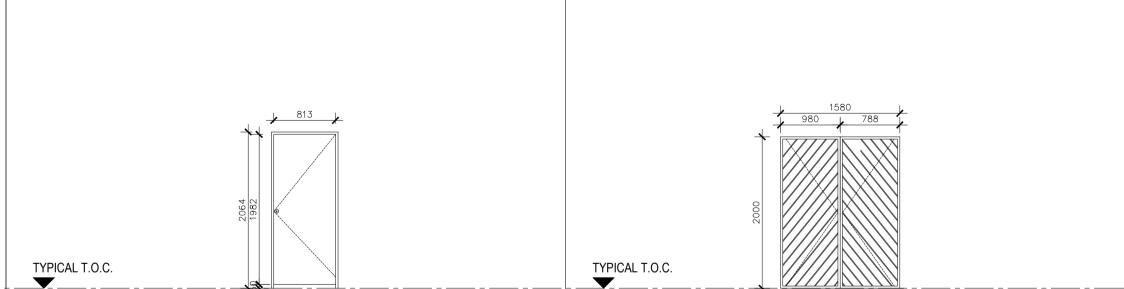
### 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2) Light Switch in Disabled toilet to be at 1200 mm above FFL ) If Step over 900 mm Build in Balustrade 1) Gulley positions to be determined as per site prescribed overall drainage 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings ) 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports all areas that do not have ceilings ') West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm 3) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS **ISSUED FOR TENDER** SIGNATURE TABLE DISCIPLINE SIGNATURE DATE **CLIENT** PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION ENVIRONMENTAL OFFICER REV No DATE DESCRIPTION SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION THABANE PRIMARY SCHOOL INSTITUTION EMIS NUMBER 925621162 SERVICE **NEW BUILDINGS & ALTERATIONS** CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE PROJECT STAGE ARCHITECTURAL WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION WINDOW SCHEDULE FILE No. ITEM No. DESIGN DRAWN SCALE CHECKED 1: 100 RESPONSIBLE PROFESSIONAL SIGNATURE DATE PR NUMBER 2023.06.20 Y.VAHED 7812 DRAWING CO-ORDINATED CONSULTANT Pruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR AUTO CAD DRAWING NUMBER

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NOTES







TYPE D04		TYPE G01	
POSITION:	TOILET CUBICLES	POSITION:	ENTRANCE
DOOR TYPE :	813mm x 2032mm solid timber door 150mm UNDERCUT	DOOR TYPE :	1580mm x 2000mm
DOOR FINISH:	3 x coats clear varnish	DOOR FINISH:	3 x coats clear varnish
FRAME:	1.2mm double rebated frames suitable for 110mm wall, to accommodate 813 x 2032 door leaf	FRAME:	1.2mm double rebated frames suitable for 230mm wall, to accommodate 936 x 2032 door leaf
FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint	FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint
DOOR:	2032x813x40mm solid flush panel door with hardboard both side and 2 concealed edges	DOOR:	painted mild steel gate consisting of 10x10mm mild steel bars placed at 100mm centres at a 45° angle, colour to architect's specification
FANLIGHT:	NONE	FANLIGHT:	NONE
IRONMONGERY:	4 Lever security lockset and satin - chromed handles all approved	IRONMONGERY:	4 Lever security lockset and satin - chromed handles all approved
-			·

#### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m<sup>2</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch) B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level Skirtinas

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti guadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls &

Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have been primed with Urochem 614 primer D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips

Window sills E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one

per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square

recessed ioints Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge boards with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. G4. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolineum treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule. G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutters G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or

gable flashing with Globalcoat finish (colour Traffic Green) G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom) H3. Greenfield G25 double door steel cupboard with standard baked enameled finish. 760 x 610 x 1700mm high with four shelves (2 per classroom)

H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

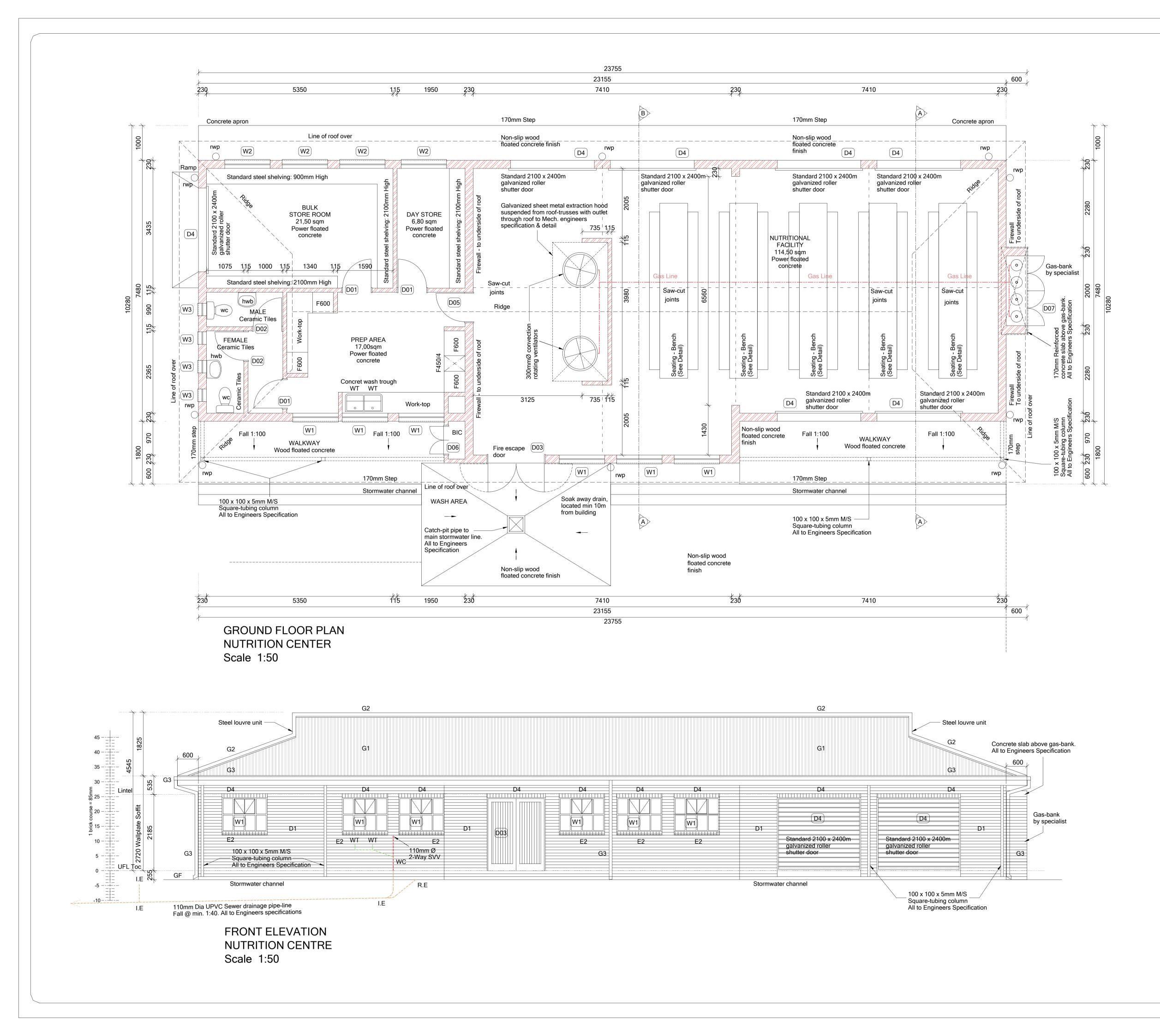
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2)Light Switch in Disabled toilet to be at 1200 mm above FFL ) If Step over 900 mm Build in Balustrade 4) Gulley positions to be determined as per site prescribed overall drainage design 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings 7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm 3) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS DRAWINGS FOR CONSTRUCTION SIGNATURE TABLE DISCIPLINE SIGNATURE DATE **CLIENT** PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION ENVIRONMENTAL OFFICER coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as REV No DATE DESCRIPTION SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO **PROVINCIAL GOVERNMENT** REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION MMAPHUTI MANAMELA SECONDARY SCHOOL INSTITUTION EMIS NUMBER 991104202 SERVICE **NEW BUILDINGS & ALTERATIONS** CONTRACT - SECTION CONSTRUCTION DISCIPLINE PROJECT STAGE ARCHITECTURAL 5 WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION **DOOR SCHEDULE** FILE No. ITEM No. DESIGN DRAWN SCALE CHECKED 1: 100 RESPONSIBLE PROFESSIONAL SIGNATURE DATE PR NUMBER 2023.05.08 7812 Y.VAHED DRAWING CO-ORDINATED CONSULTANT Pruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR AUTO CAD

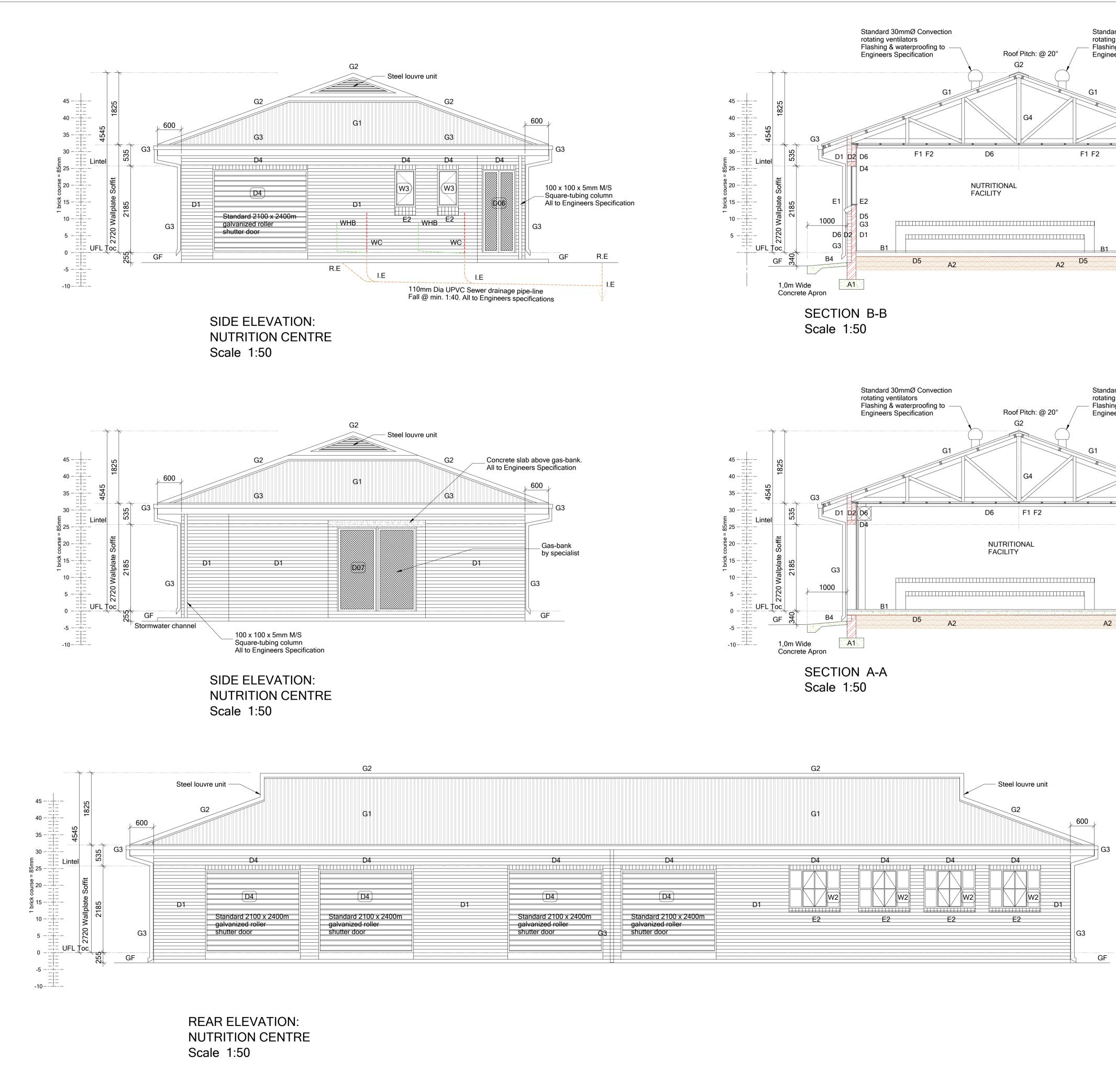
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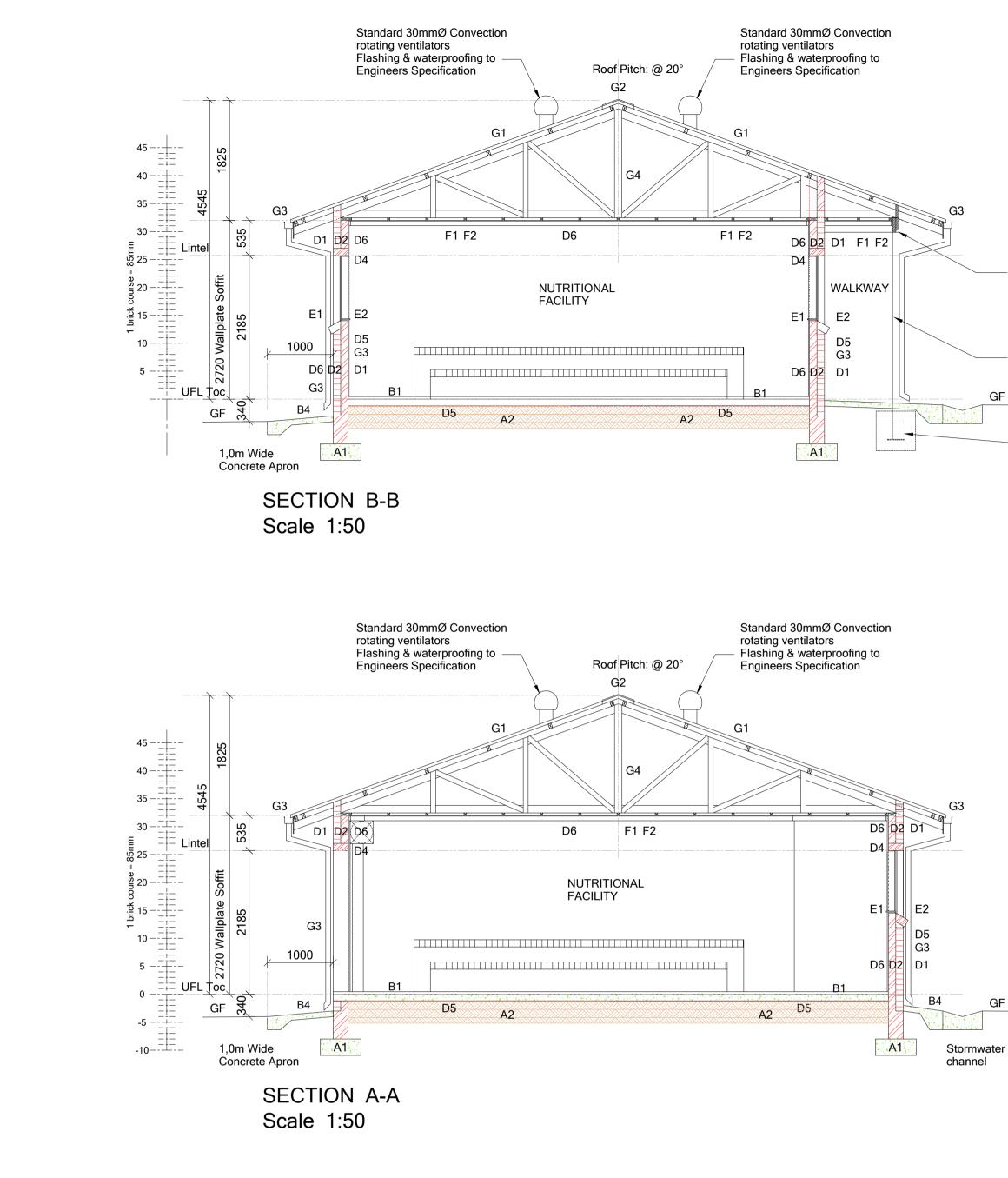
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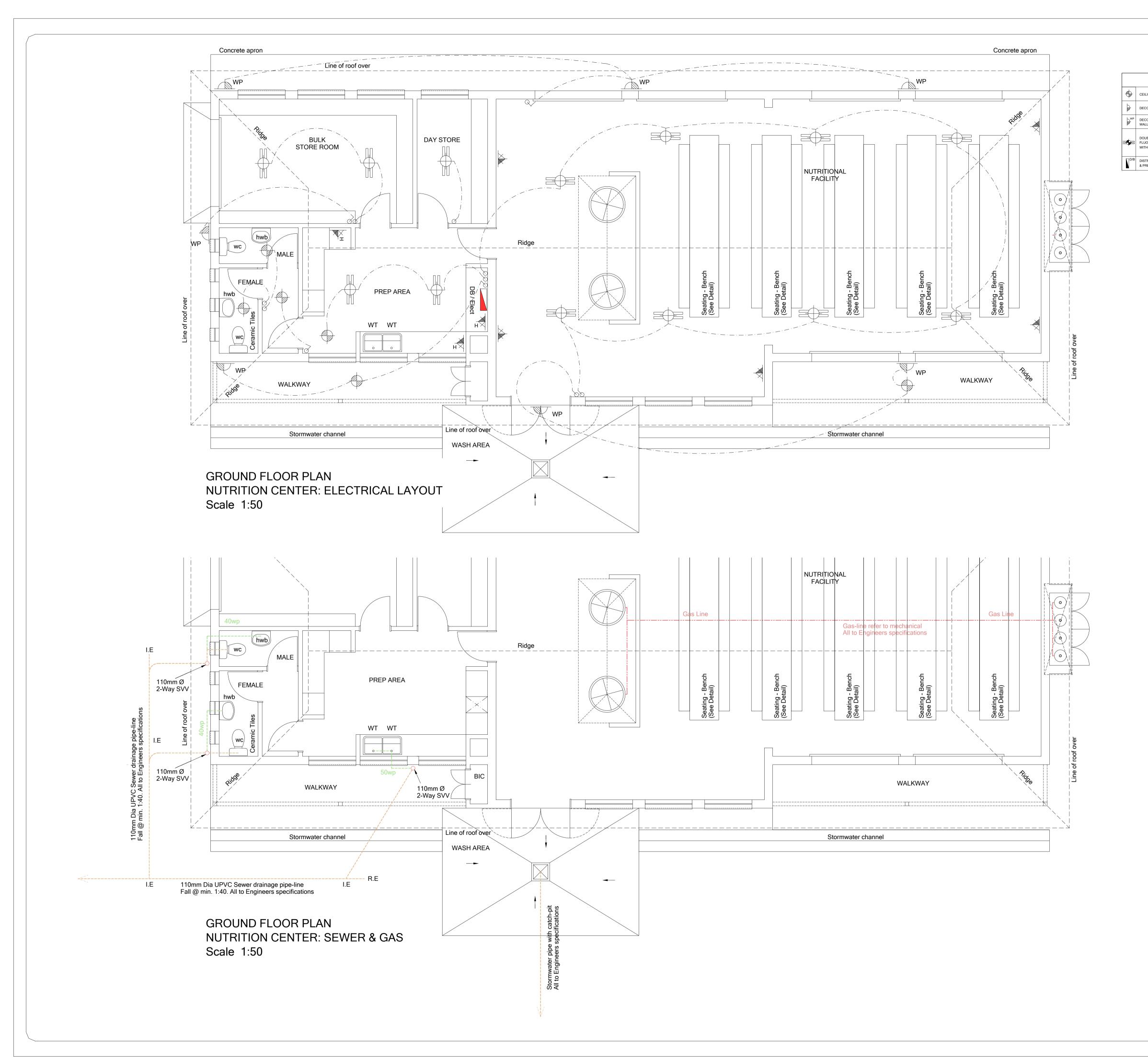




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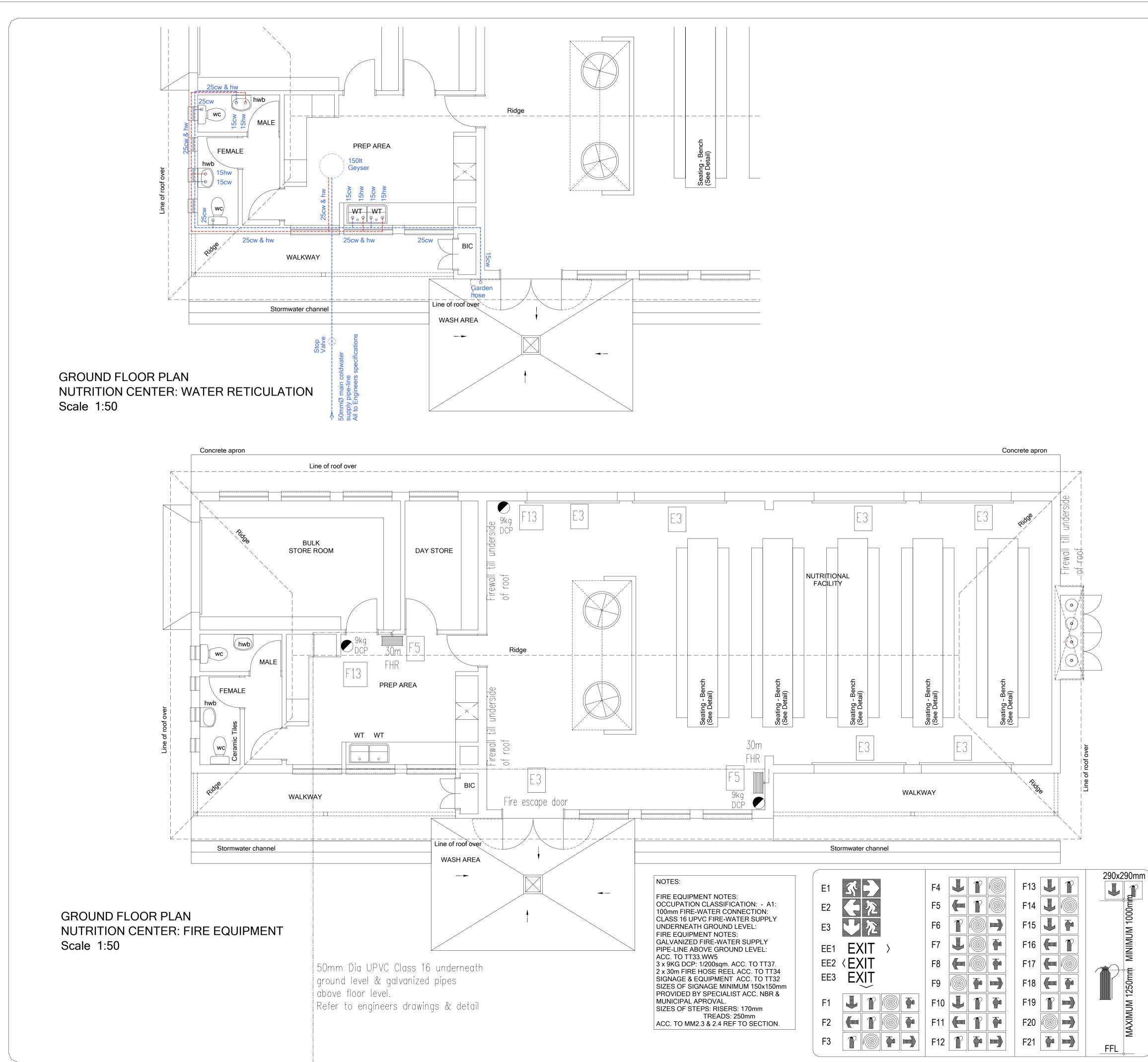
2 x 228 x 50mm SA Pine beams secured on top of steel-columns to Engineers Specification 100 x 100mm M/S Square tubing column cast into concrete footing to Engineers Specification GF

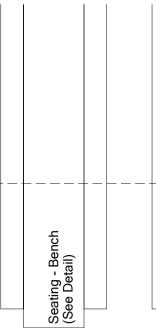


ELECTRICAL LEGEND         EILING LIGHT FITTING         ECORATIVE WALL LIGHT FITTING         ECORATIVE WALL LIGHT FITTING         ECORATIVE WALL LIGHT FITTING         ECORATIVE WALE REPROOF EXTERNAL ALL MOUNTED LIGHT FITTING         DUBLE TUBE FLUSH FITTING UCRESCENT LIGHT COMPLETE ITH DIFFUSER         12 Amp ISOLATOR FOR A/C UNIT MOUNTED 150mm BELOW CEILING         12 AMP ISOLATOR FOR A/C UNIT MOUNTED 500mm BELOW ROOFS EAVE         STRIBUTION BOARD PRE PAID METERBOX			
EILING LIGHT FITTING     Image: Built T in 340mm ABOVE FFL       ECORATIVE WALL LIGHT FITTING     Image: Built T in 340mm ABOVE FFL       ECORATIVE WATERPROOF EXTERNAL ALL MOUNTED LIGHT FITTING     Image: Built T in 1000mm ABOVE FFL       DUBLE TUBE FLUSH FITTING UORESCENT LIGHT COMPLETE ITH DIFFUSER     Image: Built T in 1000mm ABOVE FFL       12 Amp ISOLATOR FOR A/C UNIT MOUNTED 150mm BELOW CEILING     Image: Built T in 12 Amp ISOLATOR FOR A/C UNIT MOUNTED 150mm BELOW CEILING       12 And Complete     Image: Built T in 12 Amp ISOLATOR FOR A/C UNIT MOUNTED 150mm BELOW CEILING       12 And Complete     Image: Built T in 12 Amp ISOLATOR FOR A/C UNIT MOUNTED 150mm BELOW CEILING       12 And Complete     Image: Built T in 1000mm ABOVE FFL       12 Amp ISOLATOR FOR A/C UNIT MOUNTED 500mm BELOW ROOFS EAVE     Image: Built T in 1000mm ABOVE FFL       STRIBUTION BOARD     Image: Built T in 1000mm ABOVE FFL	ELECTRICA	۹L I	LEGEND
ECORATIVE WALL LIGHT FITTING     Image: mail of the system     BUILT IN 1000mm ABOVE FFL       ECORATIVE WATERPROOF EXTERNAL ALL MOUNTED LIGHT FITTING UURESCENT LIGHT COMPLETE ITH DIFFUSER     Image: mail of the system     TELEPHONE POINT       12 Amp ISOLATOR FOR A/C UNIT MOUNTED 150mm BELOW CEILING     Image: mail of the system     Image: mail of the system       12 AMP ISOLATOR FOR A/C UNIT MOUNTED 500mm BELOW CEILING     Image: mail of the system     Image: mail of the system       12 AMP ISOLATOR FOR A/C UNIT MOUNTED 500mm BELOW ROOFS EAVE     Image: mail of the system     Image: mail of the system       STRIBUTION BOARD     Image: mail of the system     Image: mail of the system     Image: mail of the system	EILING LIGHT FITTING		
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		6	LIGHT SWITCH

) Workmanship to comply with Standard Specification of materials and
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) If Step over 900 mm Build in Balustrade
) Gulley positions to be determined as per site prescribed overall drainage
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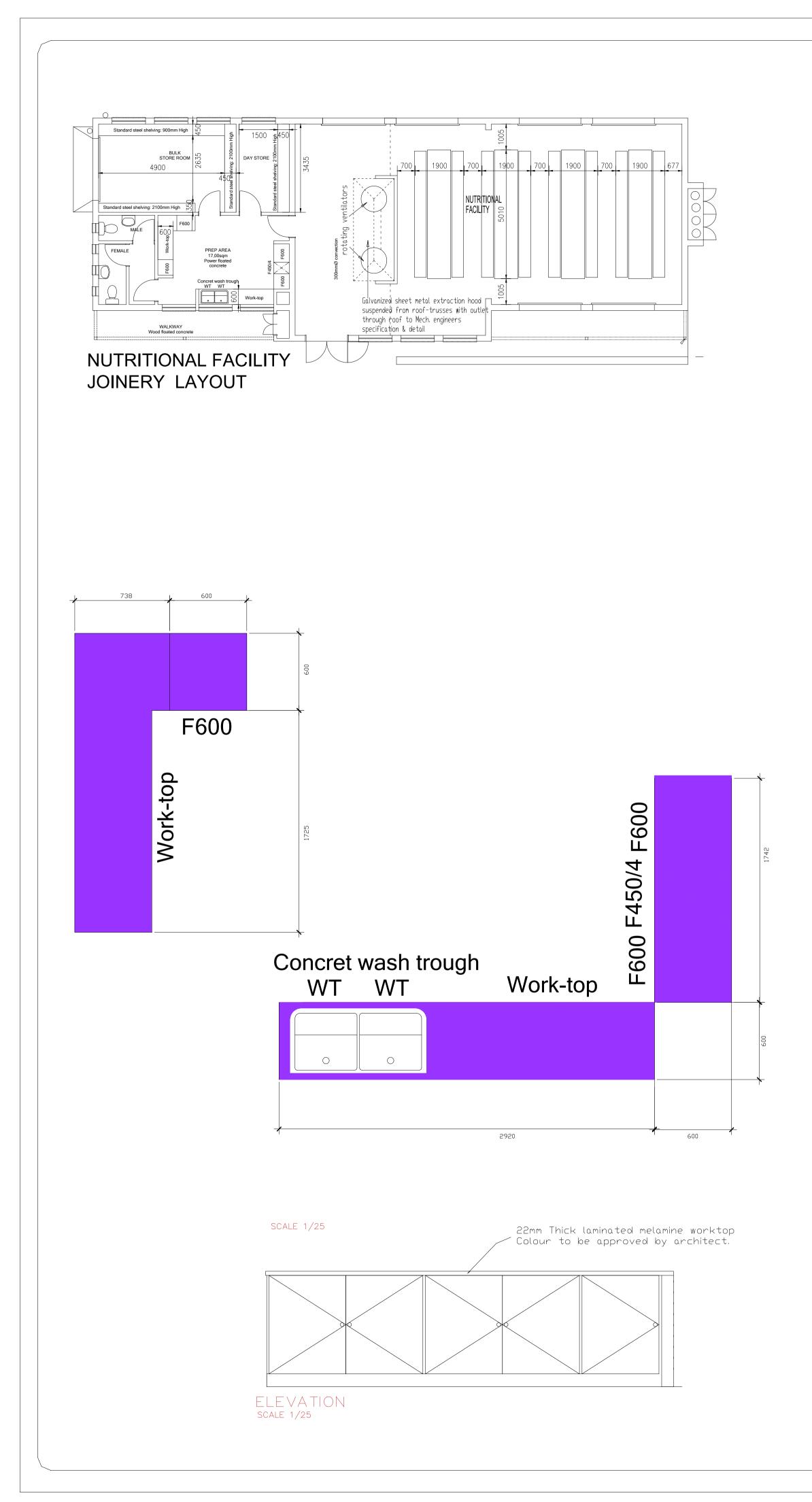
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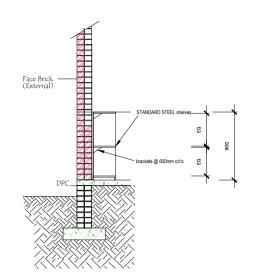


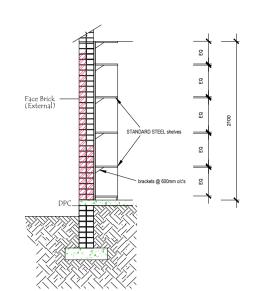


 Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
 Light Switch in Disabled toilet to be at 1200 mm above FFL
 If Step over 900 mm Build in Balustrade
 Gulley positions to be determined as per site prescribed overall drainage design 5) 2 x coats sealant on all exposed trusses (sand off all 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports all areas that do not have ceilings 7) West Facing Facades to have standardised aluminium louvres from eaves to drop of 1200 mm 8) Trusses to be designed in accordance with SABS 0400 & approved Project Engineers from below

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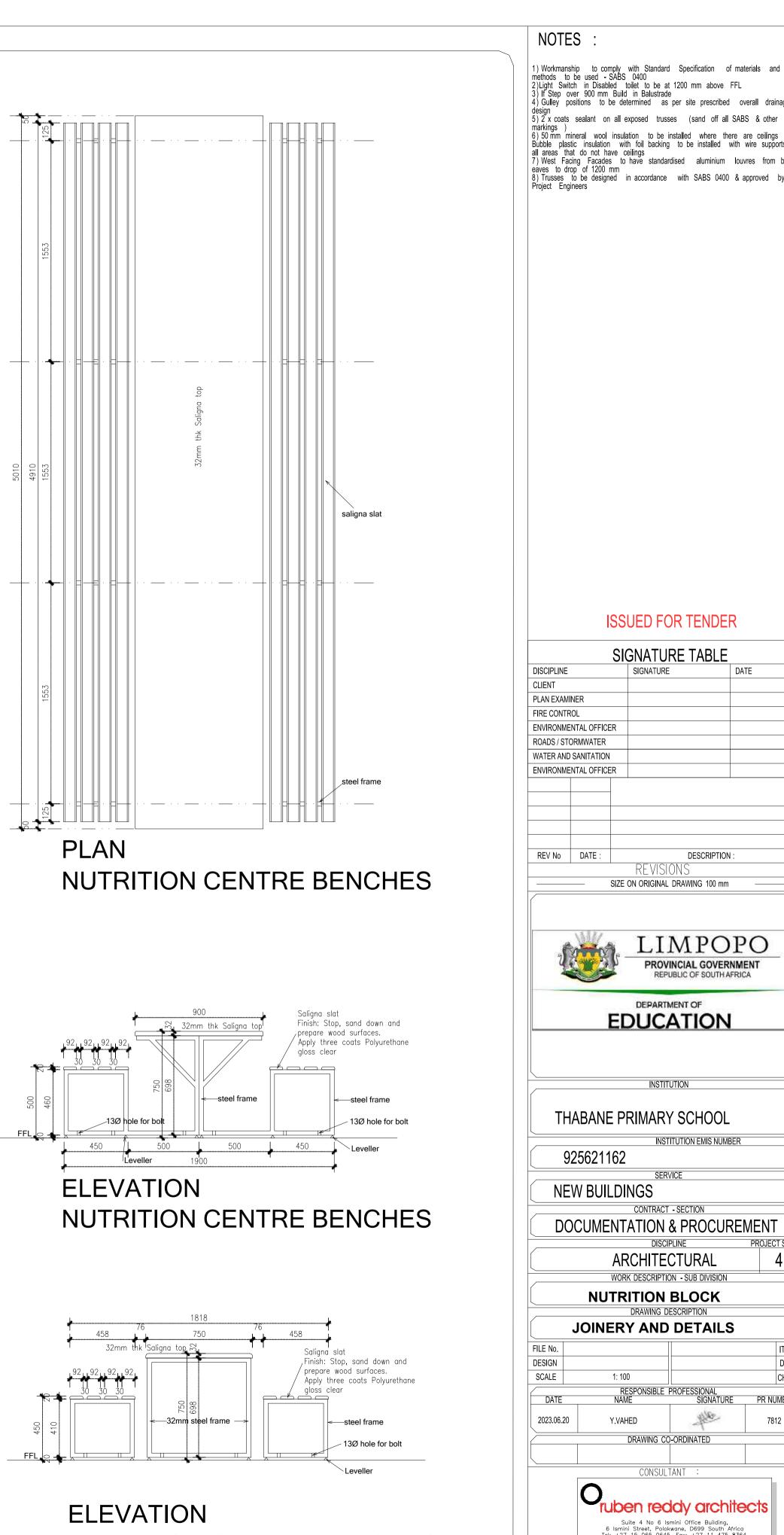
DETAIL (STEEL SHELVES) Section Scale 1:20

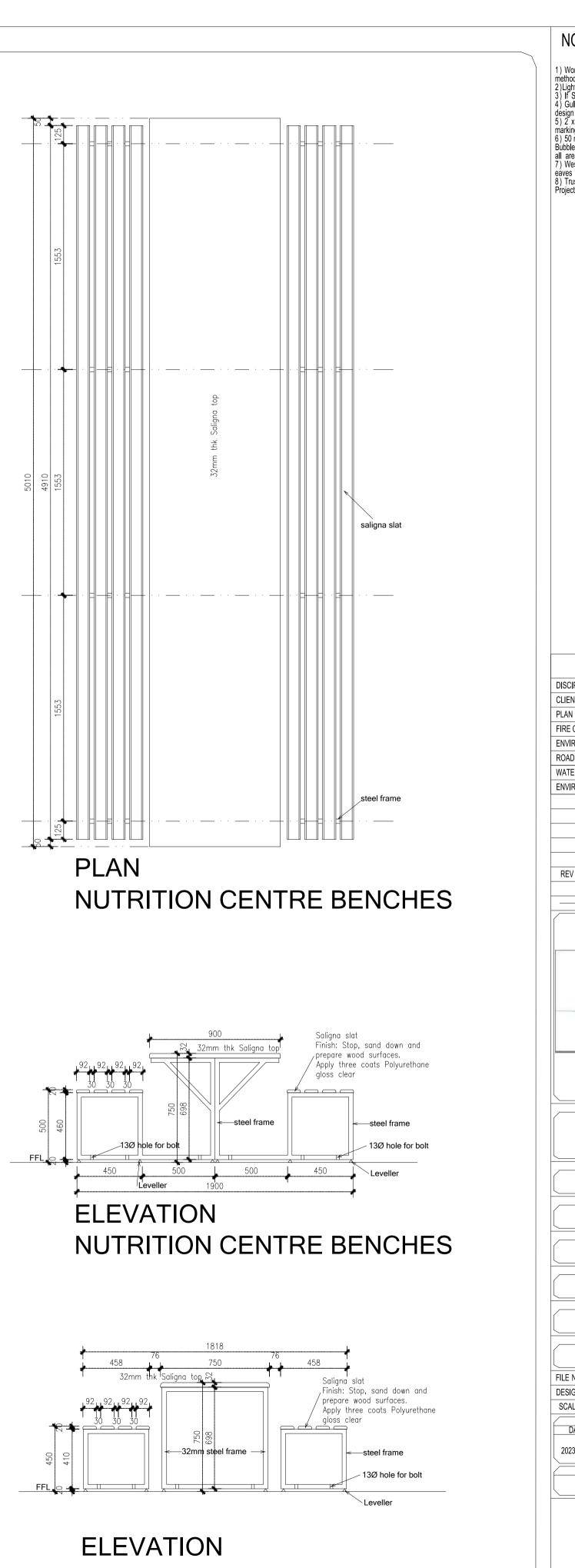
DETAIL 3 ( STORE ROOM SHELVES ) Section Scale 1:20

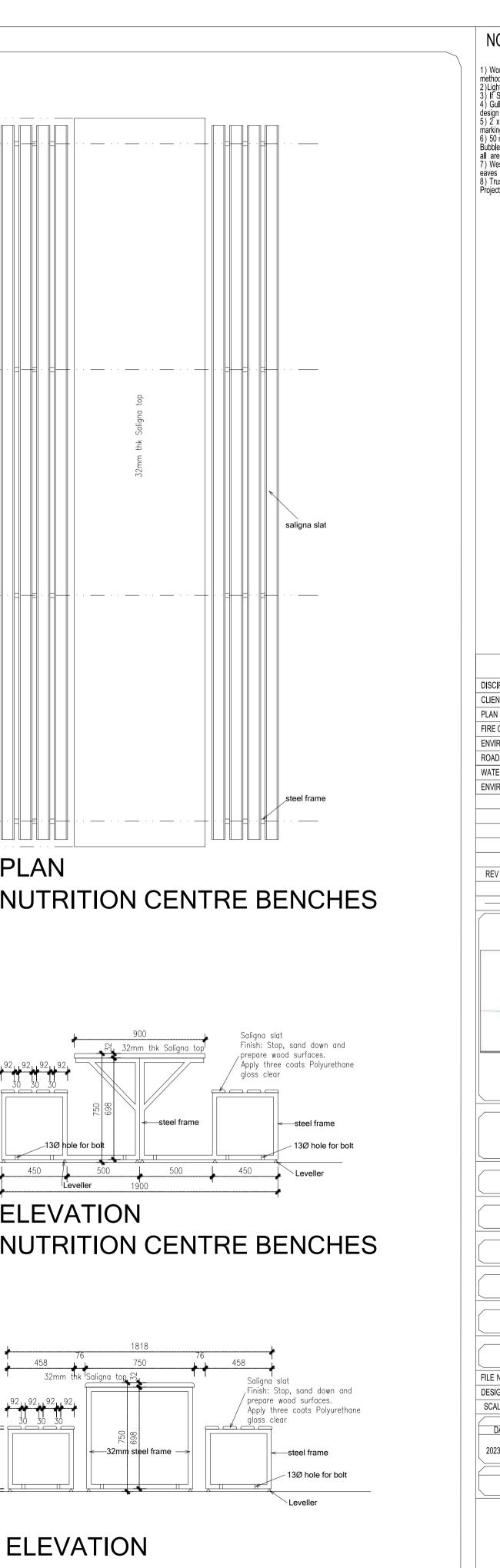
NOTE: FOUNDATION PLAN & DETAILS - WHERE APPLICABLE REFER TO ENGINEERS DRAWINGS & DETAIL FOR REINFORCED CONCRETE FOUNDATIONS.

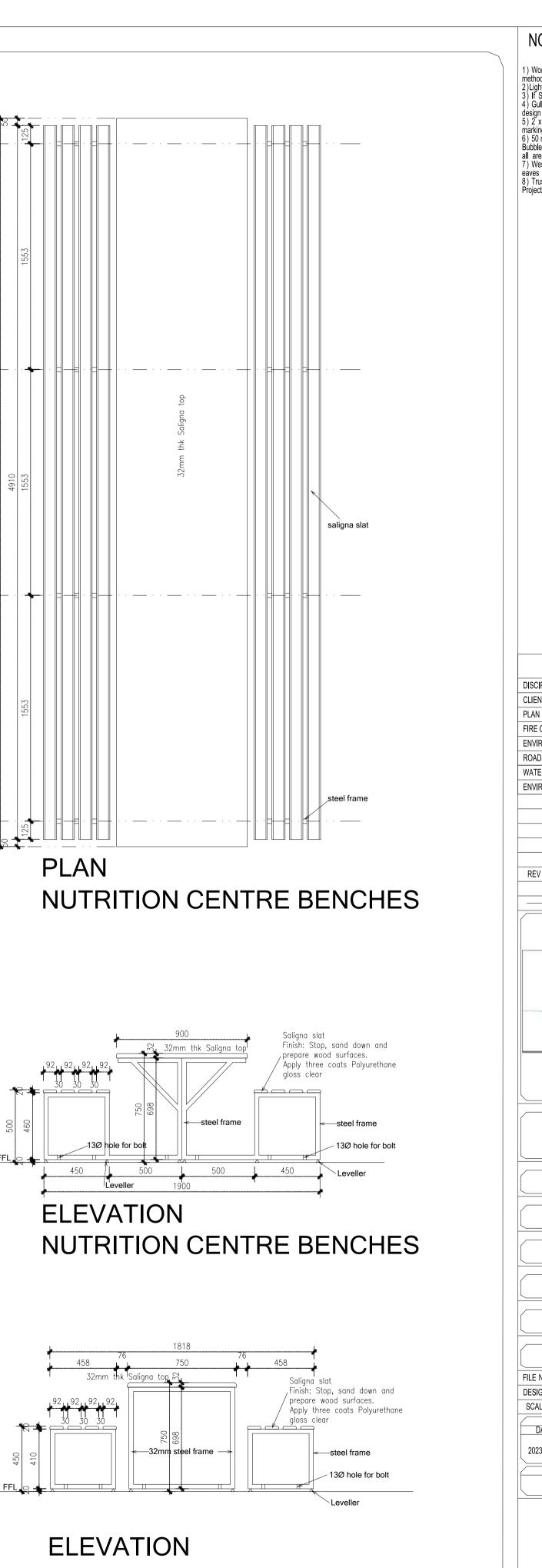
NOTES: FURNITURE:

FORMICA TOPS WITH WHITE MELAMINE CUPBOARD ACC TO DETAIL LAYOUT PROVIDED BY CUPBOARD CONNECTIONS. SHELVING: CODE SST2100/300 & SST2100/450 WITH MILD STEEL SHELVING SHELVING COMPLETE WITH WALLBANDS & BRACKETS AS SUPPLY BY CUPBOARD CONNECTIONS.

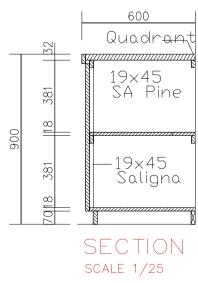




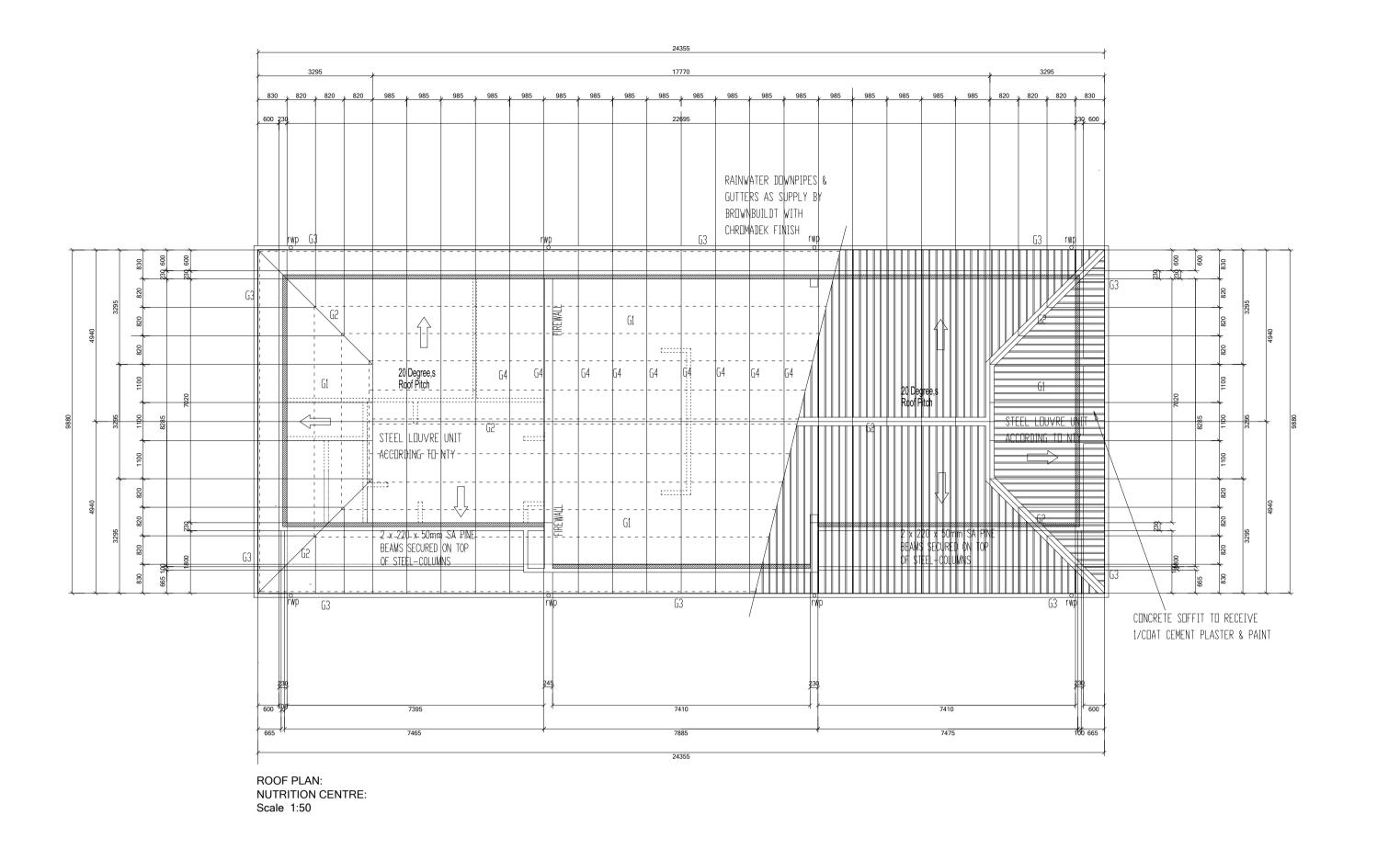


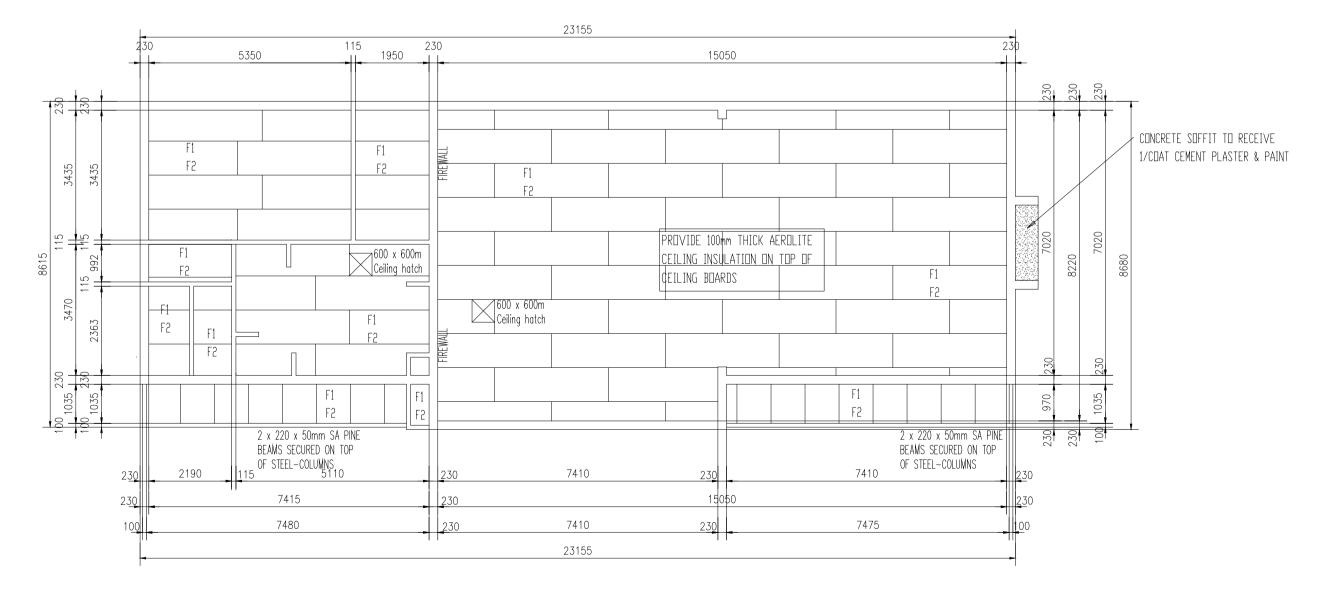


NUTRITION CENTRE BENCHES



### 5) 2 x coats sealant on all exposed trusses markings ) 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to b all areas that do not have ceilings a) Rucka and the new of the standardised aluminium louvres from eaves to drop of 1200 mm a) Trusses to be designed in accordance with SABS 0400 & approved Project Engineers **ISSUED FOR TENDER** SIGNATURE TABLE SIGNATURE DISCIPLINE DATE CLIENT PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION ENVIRONMENTAL OFFICER REV No DATE : DESCRIPTION REVISIONS SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO Collector 1 PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF **EDUCATION** INSTITUTION THABANE PRIMARY SCHOOL INSTITUTION EMIS NUMBER 925621162 SERVICE NEW BUILDINGS CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** PROJECT STAGE DISCIPLINE ARCHITECTURAL 4 WORK DESCRIPTION - SUB DIVISION NUTRITION BLOCK DRAWING DESCRIPTION JOINERY AND DETAILS FILE No. ITEM No. DESIGN DRAWN SCALE CHECKED 1: 100 RESPONSIBLE PROFESSIONAL NAME SIGNATURE DATE PR NUMBER All. 2023.06.20 7812 Y.VAHED DRAWING CO-ORDINATED CONSULTANT Oruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR FILE NAME REV2 AUTO CAD DRAWING NUMBER 2020\_71-NU-005 Α ] A 1

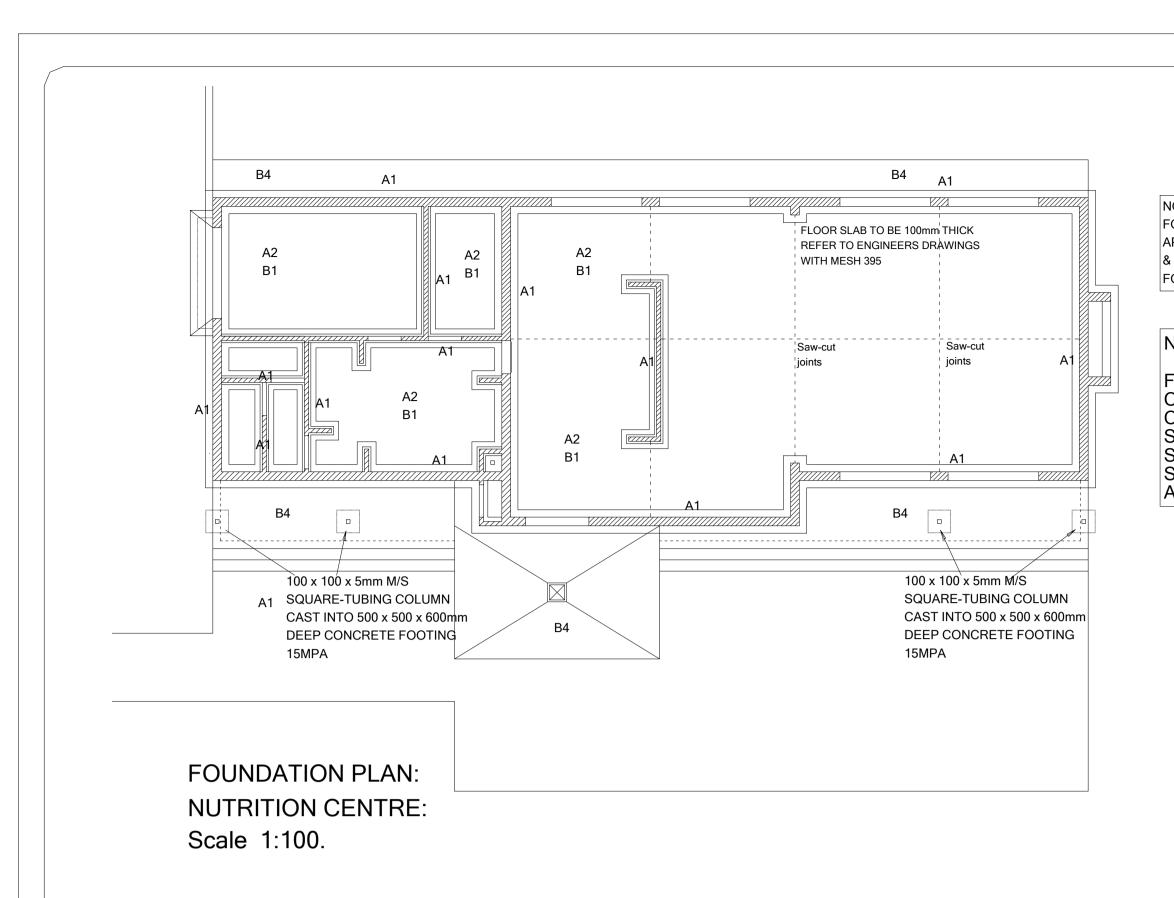




CEILING PLAN: NUTRITION CENTRE: Scale 1:100.

 Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
 Light Switch in Disabled toilet to be at 1200 mm above FFL
 If Step over 900 mm Build in Balustrade
 Gulley positions to be determined as per site prescribed overall drainage design
 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
 50 mm mineral wool insulation to be installed where there are ceilings . Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
 West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm
 Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers

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NOTE: FOUNDATION PLAN & DETAILS - WHERE APPLICABLE REFER TO ENGINEERS DRAWINGS & DETAIL FOR REINFORCED CONCRETE FOUNDATIONS.

NOTES: FURNITURE:

FORMICA TOPS WITH WHITE MELAMINE

CUPBOARD ACC TO DETAIL LAYOUT PROVIDED BY CUPBOARD CONNECTIONS.

SHELVING: CODE SST2100/300 & SST2100/450 WITH MILD STEEL SHELVING

SHELVING COMPLETE WITH WALLBANDS & BRACKETS AS SUPPLY BY CUPBOARD CONNECTIONS.

CONSTRUCTION NOTES

Foundations A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's dra Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant po of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 ar

A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO der detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted grour filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate or compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type of approved type and SANS approved type. of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be ca

Surface beds and floors B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SAN waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitu seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cu B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm mirror waterproofing membrane with laps sealed with pressure sensitive tape. Surface hod cast in alternative sections of polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings but minimum 85mm mirror waterproofing membrane with laps sealed with pressure sensitive tape. Surface hod cast in alternative sections of mirror waterproofing membrane with laps sealed with pressure sensitive tape. Surface hod cast in alternative sections of mirror waterproofing membrane with laps sealed with pressure sensitive tape. Surface hod cast in alternative sections of mirror waterproofing membrane with laps sealed with pressure sensitive tape. Surface hod cast in alternative sections of mirror waterproofing membrane with laps sealed with pressure sensitive tape. Surface hod cast in alternative sections of the section of the section with pressure sensitive tape. Surface hod cast in alternative sections of the sections of the section with pressure sensitive tape. Surface hod cast in alternative sections of the sections of the section of the section

B2. Surface bed on Walkways - concrete mix as described on structural engineer's drawings but minimum somm micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sewith polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)
 B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping toward be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool
 B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative s from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finish skiptings.

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrand bead plated on. Sa Plascon Woodcare Stain (W-range) (colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thir Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

Walls and structure
D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints
D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6
D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixin 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule.
50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Pomicreal turnenting (AZH1), apply one coat Plascon Woodcare Supproof (Amber - PNW22) suede variable triangle.

mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinne Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm squal
 D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window, door and clear openings with 10 x 6mm squal
 D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement pla
 two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse
 D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement pla
 two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse
 D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive
 PIAscon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per fin
 D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after
 D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KE250(30 aluminium cover strins)

D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips Window sills E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Pri two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm s

**Ceilings and cornices F1.** Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a sr Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with

Woodcare Stain (W-lange)(colour meranit), apply one coat Plascon Woodcare Olda Varnish (X44), trimned with Woodcare Ultra (X44) suede varnish to cornices
 F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres m jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings

**F3.** Plastered ceiling as per finishes schedule F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brande 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusse Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guara G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flash G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter battle functions are converted by the source based on the part of the part of the source based on the part of the p Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes s G4. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm co 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to pr well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacture to provide to the Principal Agent for approval before manufacture treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purling seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats F

G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour

to match colour of gutters G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish ( to match colour of downpipes

G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board ? 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per cla H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm hi H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plut stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral tur Clear Ultra (X44) suede varnish to shelves

Miscellaneous 119 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand of Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finish Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS alu I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engra engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm ga Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Prim (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & hose reel

drawings. Top of strip footings to be 340mm minimum below N.G.L. poison of the Prothor 200 SC or other approved type applied at a rate and SANS Code of Practice 0124. Concrete to be casted within 24	<ol> <li>Workmanship to comply with Standard Specification of methods to be used - SABS 0400</li> <li>Light Switch in Disabled toilet to be at 1200 mm above F</li> <li>If Step over 900 mm Build in Balustrade</li> <li>Gulley positions to be determined as per site prescribed design</li> <li>2 x coats sealant on all exposed trusses (sand off all S markings)</li> <li>50 mm mineral wool insulation to be installed where ther Bubble plastic insulation with foil backing to be installed with an and the activity backing to be installed with</li> </ol>
density in layers of maximum 150mm - refer to engineer's drawings for ound level under floors. All filling to be approved by engineer (imported e of one test per 125m <sup>2</sup> filling area under floors per each layer of 150mm pe applied at a rate of not less than 5 litres of solution per m <sup>2</sup> by a firm casted within 24 hours of application. Contractor to provide five year	all areas that do not have ceilings 7) West Facing Facades to have standardised aluminium eaves to drop of 1200 mm 8) Trusses to be designed in accordance with SABS 0400 Project Engineers
ANS Specification 952 Type C approved USB Green 250 micron ns of maximum 20m <sup>2</sup> with saw cut joints with joints filled up with bitumen impregnated soft board between all walls and concrete and t cubes (1 per 15m <sup>3</sup> or 1 per batch) nm thick on SANS Specification 952 Type C approved USB Green 250 e sections of maximum 20m <sup>2</sup> with expansion joints with joints filled up ind seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per wards edges. At all external door openings external surface beds must	
ve sections in lengths of maximum 3m and to have a 1:100 fall away finished ground level Sand down to a smooth finish, stop with Polycell Woodfiller, stain with ninned with 1:3 mineral turpentine (AZH1) and apply two finishing coats	
ts ry 6th course. Over openings formed in brickwork as per table below fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x vork below copings with four M10 x 75mm masonry anchor bolts. e with Plascon Metal Primer (UC501) and apply two coats Plascon Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 ned with 1:3 mineral turpentine (AZH1) and apply two finishing coats quare recessed joints	
window sills plaster finished off with one coat Plascon Plaster Primer (UC56) and use (Y5-D2-3) as per Principal Agent ceive one coat smooth 1:5 cement plaster finished off with one coat r finishes schedule. Ifter surfaces have been primed with Urochem 614 primer	
Prime with one coat Plascon Multi-surface Primer (WUP1) and apply in square recessed joints a smooth finish, stop with Polycell Woodfiller, stain with Plascon ith 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon s maximum with galvanised clout nails. Provide H-profile galvanised UP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL)	ISSUED FOR TENDER
der covered with ceiling board and fitted flush in opening. Provide 18 x ises to be formed with 38 x 114mm SA pine bearers, nailed to trusses 50 x 76mm SAP purlins at maximum 1200mm centres on patent and	DISCIPLINE SIGNATURE CLIENT
arantee ashing with Globalcoat finish (colour Traffic Green) batten with countersunk brass screws. Barge boards - 200 x 80mm as and barge boards with one coat Plascon Multi-Surface Primer schedule. centres with 20 degrees pitch, 50 x 76mm SAP purlins at maximum	PLAN EXAMINER       FIRE CONTROL       ENVIRONMENTAL OFFICER       ROADS / STORMWATER
provide certificate and guarantee for design and erection of trusses as ufacturing. All sections in contact with wet trades to be carbolineum s, built into walls minimum 6 courses. Purlins nailed to trusses must also dins. All exposed parts of trusses, purlins, etc. to be sanded smooth, ts Plascon Enamel Doors & Trims paint. Colour as per finishes ur Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat	WATER AND SANITATION ENVIRONMENTAL OFFICER
(colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated d FK13 barge or gable flashing with Globalcoat finish (colour Traffic all flashing and FK7 counter flashing with Globalcoat finish (Colour	REV No DATE : DESCRIPTION : REVISIONS
d 2000 x 1200mm high, two wall mounted side boards each 1000 x classroom) igh with four shelves (2 per classroom) e to 305mm wide Shelco epoxy powder coated steel brackets. Brackets lugged to walls at maximum 600mm c/c. Sand down to a smooth finish, turpentine (AZH1) then apply two finishing coats Plascon Woodcare I down to a smooth finish, stop with Polycell Woodfiller, apply one coat shing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. aluminium red down arrow sign above fire extinguisher raved red fire hose reel sign & Union Al5066-06ASE08 aluminium Ivanised mild steel. Degrease exposed parts of pipes with Plascon imer (UC501) and apply two coats Plascon Enamel Doors & trims & Union AL5066-E08/2AS aluminium red down arrow sign above fire	DEPARTMENT OF EDUCATION
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	2023.06.20 Y.VAHED DRAWING CO-ORDINATED CONSULTANT :
	Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Af Tel: +27 15 065 0645, Fax: +27 11 475 8 Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za
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1) Workmanship to comply with Standard Specification of materials and FFL overal drainage SABS & other ere are ceilings with wire supports in louvres from below ) & approved by

NOTES

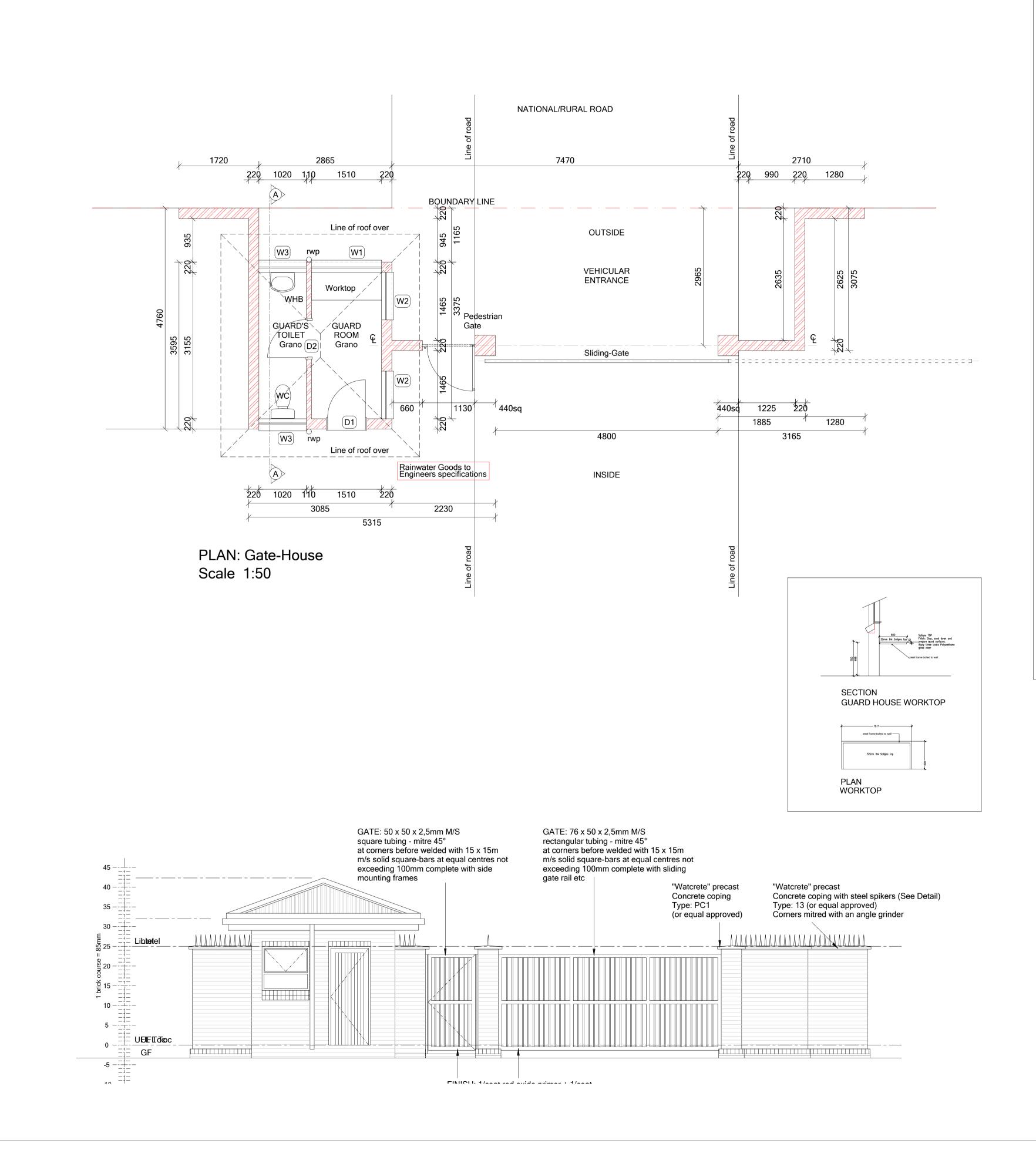
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		CONTRAC	CTOR :		

DOOR SCHEDULE: Scale 1:50.		
DOOR NUMBER:	D1	D2
POSITION:	BULK STOREROOM, DAY STORE	ENTRANCE TO TOILET
QUANTITY:		
	3 (2=RH) (1=LH) 1,2mm THICK STANDARD STEEL DOUBLE REBATED	2 (2 = LH) (0 = RH) 1,2mm THICK STANDARD STEEL DOUBLE REBATE
DOOR-FRAME DESCRIPTION:	DOORFRAME FOR 115MM WALL TO RECEIVE PLASTER ON ONE-SIDE 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL	DOORFRAME FOR 115MM WALL TO RECEIVE PLASTER ON ONE-SIDE 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL
FINISHES:	UNDERCOAT + 2/COATS PLASCON GLOSS	UNDERCOAT + 2/COATS PLASCON GLOSS
DOOR	ENAMEL PAINT COLOUT TO ARCHITECT. 2032 x 914 x 44mm THICK SOLID HARDWOOD DOOR WITH MASONITE BACKING.	ENAMEL PAINT COLOUT TO ARCHITECT. 2032 x 914 x 40mm SOLID HARDWOOD DOOR WITH MASONITE FACINGS
DESCRIPTION:	tYPE OF HARDWOOD DOOR ACCORDING TO OWNERS CHOICE.	TO RECEIVE 1/COAT UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT.
IRON MONGERY:	HINGES - 2x100mm M/S STEEL BUTT HINGES PER DOOR LEAF	HINGES - 2x100mm M/S STEEL BUTT PER DOOR LEAF
FITTINGS:	LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.
FINISHES:	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	1/UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT FINISH.
GLASS:	NOT APPLICABLE	NOT APPLICABLE
WINDOW SCHEDULE: Scale 1:50.		
WINDOW 5 Scale 1:50		<sup>2186</sup>
WINDOW NUMBER: POSITION:	PREP AREA , NUTRITION FACILITY , TOILET.	W2 BULK & DAY STORE
DESCRIPTION:		
WINDOW-FRAME DESCRIPTION:	6 STANDARD SS INDUSTRIAL TYPE STEEL WINDOW-FRAME CATALOGUE NUMBER SS41/SS41 COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	4 STANDARD SS INDUSTRIAL TYPE STEEL WINDOW-F CATALOGUE NUMBER SS42 COMPLETE WITH FITTIN AS SUPPLY BY MANUFACTURER
WINDOW FURNITURE:	IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.
BURGLAR-BARS: FINISHES:	OUT OF 10mm WIDE FLAT-BARS 1/COAT RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT.	OUT OF 10mm WIDE FLAT-BARS 1/COAT RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT.
GLASS:	4mm THICK CLEAR FLOATED SHEET GLAZING SECURED IN FRAME WITH SABS APPROVED GLAZING PUTTY	4mm THICK CLEAR FLOATED SHEET GLAZING SECURED IN FRAME WITH SABS APPROVED GLAZING PUTTY

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ATED	1 1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 230MM WALL TO RECEIVE PLASTER ON ONE-SIDE 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS	7 STANDARD WISPECO 2185 x DOOR WITH CHROMADEK FII FITTINGS AS SUPPLY BY MAI	NISH COMPLETE WITH NUFACTURER.	1 FRAME OUT OF 50 x 25 x 1,6mm M/S RECTANGULAR TUBING MITRE 45 DEGREE,S AT CORNER BEFORE WELDED AND SECURED IN OPENING WITH BRACKETS WELDED TO GATE & BOLTED TO WALL 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS	
	ENAMEL PAINT COLOUT TO ARCHITECT. 2032 x 1626 x 44mm THICK SOLID HARDWOOD	FINISH: CROMADEK FINISH: - STANDARD WISPECO 2185 x		ENAMEL PAINT COLOUT TO ARCHITECT. GATE OUT OF 25 x 25 x 1,6mm M/S SQUARE-TUBING SECTIONS	
6	DOOR WITH MASONITE BACKING. tYPE OF HARDWOOD DOOR ACCORDING TO OWNERS CHOICE.	DOOR WITH CHROMADEK FII FITTINGS AS SUPPLY BY MAN FINISH: CROMADEK FINISH: -	NUFACTURER.	WITH EXPANDED METAL MESH ON INSIDE OF OPENING ELDED TO FRAME WITH 10 x 10mm M/S SOLID BAR ON BOTH SIDES OF MESH 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT COLOUT TO ARCHITECT.	
DR EVER	HINGES - 4x100mm M/S PARLEMENT HINGES PER DOOR LEAF LOCKSET - 'SOLID BLESBOK' 460/313 FOUR LEVER LOCKSET. CABIN HOOK. 2x 150mm CHROME PLATED CABIN HOOK, MOUNTED ON REBATE CONVERSION SET, FINISH CHROME. 1X 100mm BARREL BOLT. FINISH: CHROME. 5x75x76mm MERANTI MOUNTING BLOCK. EDGES OF MOUNTING	FINISH: CROMADEK FINISH: - COLOUR BY ARCHITECT STANDARD WISPECO 2185 x 2400mm ROLLERSHUTTER DOOR WITH CHROMADEK FINISH COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER.		2/PAIRS 100mm BULLET HINGES WELDED TO FRAME & GATE. LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	
	BLOCK TO RECEIVE 5mm CHAMVERS PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	FINISH: CROMADEK FINISH: -	COLOUR BY ARCHITECT	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	
	NOT APPLICABLE	NOT APPLICABLE		NOT APPLICABLE	
		DOOR SCHEDULE: Scale 1:50.	D5	2000 1000 5 950 5 25 25 950 0 460 1 460	
		POSITION:	ENTRANCE PRE AREA	GAS-BANK	
		QUANTITY:			
	W3		1 (1 = LH) (0 = RH) 1,2mm THICK STANDARD STEEL DOUBLE REBATED	1 FRAME OUT OF 50 x 25 x 1,6mm M/S RECTANGULAR TUBING	
	4	DOOR-FRAME DESCRIPTION:	DOORFRAME FOR 230MM WALL TO RECEIVE PLASTER ON ONE-SIDE 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL	MITRE 45 DEGREE,S AT CORNER BEFORE WELDED AND SECURED IN OPENING WITH BRACKETS WELDED TO GATE & BOLTED TO WALL 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL	
W-FRAME	STANDARD E-TYPE TOP-HUNG STEEL WINDOW-FRAME CATALOGUE NUMBER NE 1 COMPLETE WITH FITTINGS	FINISHES:	UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT COLOUT TO ARCHITECT.	UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT COLOUT TO ARCHITECT.	
	IRON-MONGERY & FITTINGS AS SUPPLY BY	DOOR DESCRIPTION:	2032 x 914 x 40mm SOLID HARDWOOD DOOR WITH MASONITE FACINGS TO RECEIVE 1/COAT UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT.	GATE OUT OF 25 x 25 x 1,6mm M/S SQUARE-TUBING SECTIONS WITH EXPANDED METAL MESH ON INSIDE OF OPENING ELDED TO FRAME WITH 10 x 10mm M/S SOLID BAR ON BOTH SIDES OF MESH 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS	
	WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	IRON MONGERY: FITTINGS:	HINGES - 2x100mm M/S STEEEL BUTT HINGES PER DOOF LEAF LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	ENAMEL PAINT COLOUT TO ARCHITECT. 2/PAIRS 100mm BULLET HINGES WELDED TO FRAME & GATE. LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	
AL MEL	OUT OF 10mm WIDE FLAT-BARS 1/COAT RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT.	FINISHES:	1/UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT FINISH.	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	
	5mm THICK PACIFIC OBSCURED GLAZING SECURED IN FRAME WITH SABS APPROVED GLAZING PUTTY	GLASS:	NOT APPLICABLE	NOT APPLICABLE	

 Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
 Light Switch in Disabled toilet to be at 1200 mm above FFL
 If Step over 900 mm Build in Balustrade
 Gulley positions to be determined as per site prescribed overall drainage design
 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
 5 50 mm mineral wool insulation to be installed where there are ceilings
 Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
 West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm
 Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers

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Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime v Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with P mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinne Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm squ D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all w D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement pl

D0. Internal wais a approved stockbrick wais in stretcher bond above to receive one coat should 1.5 center p two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreus D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per to B8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant aft D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips Window sills

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned w Woodcare Ultra (X44) suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WU PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings

F3. Plastered ceiling as per finishes schedule F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross bran 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trust Roof and fascias

 Roof and fascias
 G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guar G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flash G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter bat Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes sc G4. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm ce 12700mm centres. 38 x 114mm SAP wall plate to be carboling um treated before fixing. Truss manufacturer to present the section of the section of the section. 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manu treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties

be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and pul seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coat G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (color

to match colour of gutters **G6.** Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish o match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufacture

G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwa Traffic Green)

H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high with standard baked enameled finish, 760 x 610 x 1700mm high with standard baked enameled finish, 760 x 610 x 1700mm high (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish (2 per cl H3. Greenfield G25 double door steel cupboard with standard baked enameled finish (2 per cl H3. Greenfield G25 double door steel cupboard with standard bak H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from undersid to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, p stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral Clear Ultra (X44) suede varnish to shelves Miscellaneous

I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finis Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS al I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engra engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm gal Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Pri (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign 8

CONSTRUCTION NOTES

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165

hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO do detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted grout filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type of another provided at a case of poor soil conditions. Solve a provided in the post of the prother 200 SC or other approved type of another protection of the Prother 200 SC or other approved type of another protection.

Foundations

of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be Surface beds and floors B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SA waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide tes

seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test c
 B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative s with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)
 B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towa be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternativ from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or

Skirtings C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrand bead plated on. S Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), th

Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joint

D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - ever D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped

10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of bricky Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime

E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. F two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm

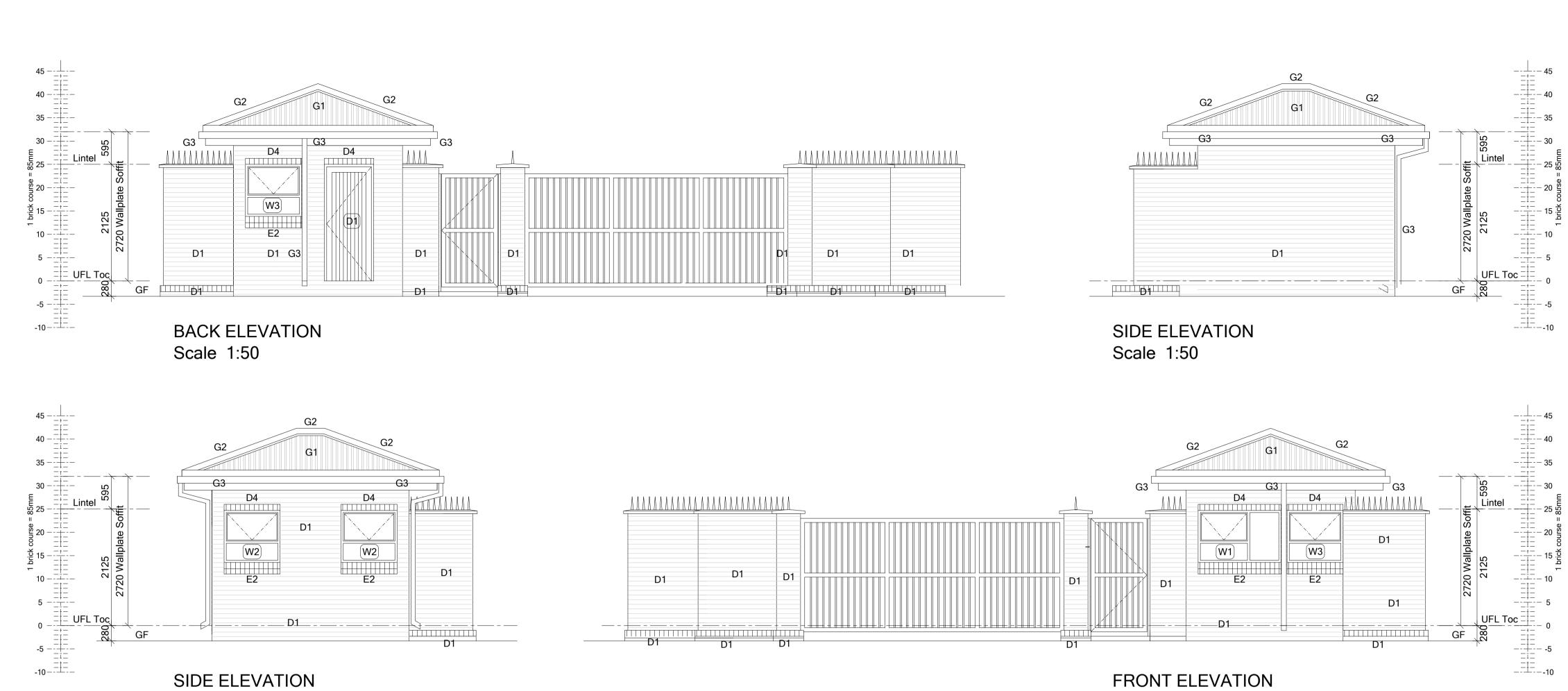
Ceilings and cornices

	NOTES :
s drawings. Top of strip footings to be 340mm minimum below N.G.L. t poison of the Prothor 200 SC or other approved type applied at a rate 5 and SANS Code of Practice 0124. Concrete to be casted within 24 0 density in layers of maximum 150mm - refer to engineer's drawings for ground level under floors. All filling to be approved by engineer (imported ate of one test per 125m <sup>2</sup> filling area under floors per each layer of 150mm ype applied at a rate of not less than 5 litres of solution per m <sup>2</sup> by a firm e casted within 24 hours of application. Contractor to provide five year	<ol> <li>Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400</li> <li>Light Switch in Disabled toilet to be at 1200 mm above FFL</li> <li>If Step over 900 mm Build in Balustrade</li> <li>Gulley positions to be determined as per site prescribed overall drainage design</li> <li>2 x coats sealant on all exposed trusses (sand off all SABS &amp; other markings)</li> <li>So mm mineral wool insulation to be installed where there are ceilings. Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings</li> <li>West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm</li> <li>Trusses to be designed in accordance with SABS 0400 &amp; approved by Project Engineers</li> </ol>
SANS Specification 952 Type C approved USB Green 250 micron ons of maximum 20m <sup>2</sup> with saw cut joints with joints filled up with k bitumen impregnated soft board between all walls and concrete and st cubes (1 per 15m <sup>3</sup> or 1 per batch) 5mm thick on SANS Specification 952 Type C approved USB Green 250 ve sections of maximum 20m <sup>2</sup> with expansion joints with joints filled up and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per	
owards edges. At all external door openings external surface beds must tive sections in lengths of maximum 3m and to have a 1:100 fall away r finished ground level . Sand down to a smooth finish, stop with Polycell Woodfiller, stain with thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats	
nts ery 6th course. Over openings formed in brickwork as per table below d fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x twork below copings with four M10 x 75mm masonry anchor bolts. he with Plascon Metal Primer (UC501) and apply two coats Plascon th Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 nned with 1:3 mineral turpentine (AZH1) and apply two finishing coats square recessed joints all window sills tt plaster finished off with one coat Plascon Plaster Primer (UC56) and euse (Y5-D2-3) as per Principal Agent eceive one coat smooth 1:5 cement plaster finished off with one coat er finishes schedule.	
after surfaces have been primed with Urochem 614 primer rips Prime with one coat Plascon Multi-surface Primer (WUP1) and apply nm square recessed joints	
a smooth finish, stop with Polycell Woodfiller, stain with Plascon with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon es maximum with galvanised clout nails. Provide H-profile galvanised VUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL)	ISSUED FOR TENDER
Inder covered with ceiling board and fitted flush in opening. Provide 18 x Isses to be formed with 38 x 114mm SA pine bearers, nailed to trusses	SIGNATURE TABLE
n 50 x 76mm SAP purlins at maximum 1200mm centres on patent and juarantee flashing with Globalcoat finish (colour Traffic Green) batten with countersunk brass screws. Barge boards - 200 x 80mm ias and barge boards with one coat Plascon Multi-Surface Primer	DISCIPLINE     SIGNATURE     DATE       CLIENT     PLAN EXAMINER     Image: Client in the second secon
s schedule. n centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum provide certificate and guarantee for design and erection of trusses as nufacturing. All sections in contact with wet trades to be carbolineum	FIRE CONTROL ENVIRONMENTAL OFFICER
es, built into walls minimum 6 courses. Purlins nailed to trusses must also urlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, ats Plascon Enamel Doors & Trims paint. Colour as per finishes	ROADS / STORMWATER         WATER AND SANITATION         ENVIRONMENTAL OFFICER
bur Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat h (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated	
ed FK13 barge or gable flashing with Globalcoat finish (colour Traffic vall flashing and FK7 counter flashing with Globalcoat finish (Colour	
rd 2000 x 1200mm high, two wall mounted side boards each 1000 x	REV No     DATE :     DESCRIPTION :       REVISIONS
classroom) high with four shelves (2 per classroom) de to 305mm wide Shelco epoxy powder coated steel brackets. Brackets plugged to walls at maximum 600mm c/c. Sand down to a smooth finish,	SIZE ON ORIGINAL DRAWING 100 mm
turpentine (AZH1) then apply two finishing coats Plascon Woodcare	LIMPOPO PROVINCIAL GOVERNMENT
d down to a smooth finish, stop with Polycell Woodfiller, apply one coat nishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. aluminium red down arrow sign above fire extinguisher graved red fire hose reel sign & Union Al5066-06ASE08 aluminium alvanised mild steel. Degrease exposed parts of pipes with Plascon Primer (UC501) and apply two coats Plascon Enamel Doors & trims & Union AL5066-E08/2AS aluminium red down arrow sign above fire	DEPARTMENT OF
	EDUCATION
	INSTITUTION
	THABANE PRIMARY SCHOOL
	INSTITUTION EMIS NUMBER 925621162
	SERVICE NEW BUILDINGS
	CONTRACT - SECTION DOCUMENTATION & PROCUREMENT
	DISCIPLINE PROJECT STAG
	DRAWING DESCRIPTION PLAN, ELEVATIONS AND JOINERY
	FILE No.     ITEM I       DESIGN     DRAW
	SCALE     1: 100     CHECK       RESPONSIBLE     PROFESSIONAL       DATE     NAME     SIGNATURE
	2023.06.20 YUSUF VAHED PA7812
	CONSULTANT :
	CONSULIANI : Oruben reclay architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fox: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR :
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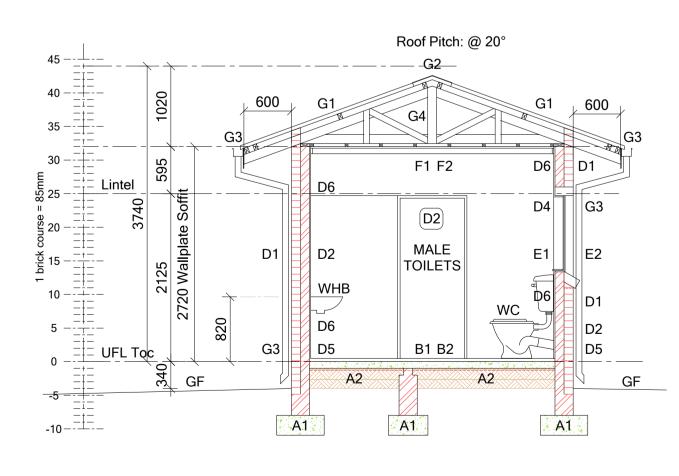
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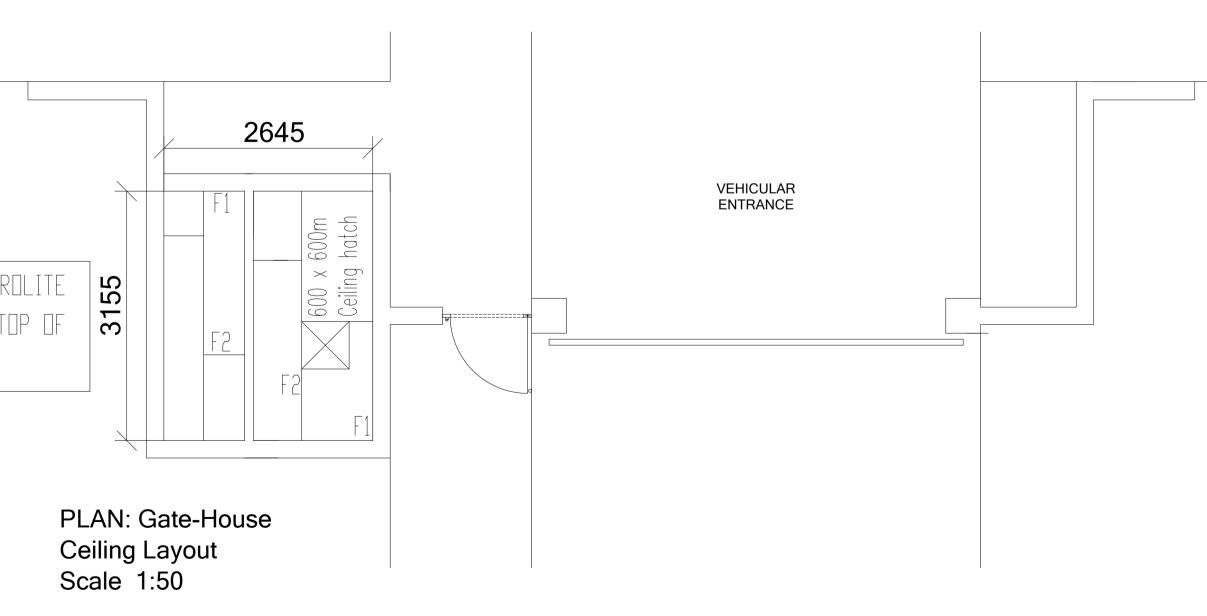


Scale 1:50



PROVIDE 100mm THICK AEROLITE CEILING INSULATION ON TOP OF CEILING BOARDS

Scale 1:50

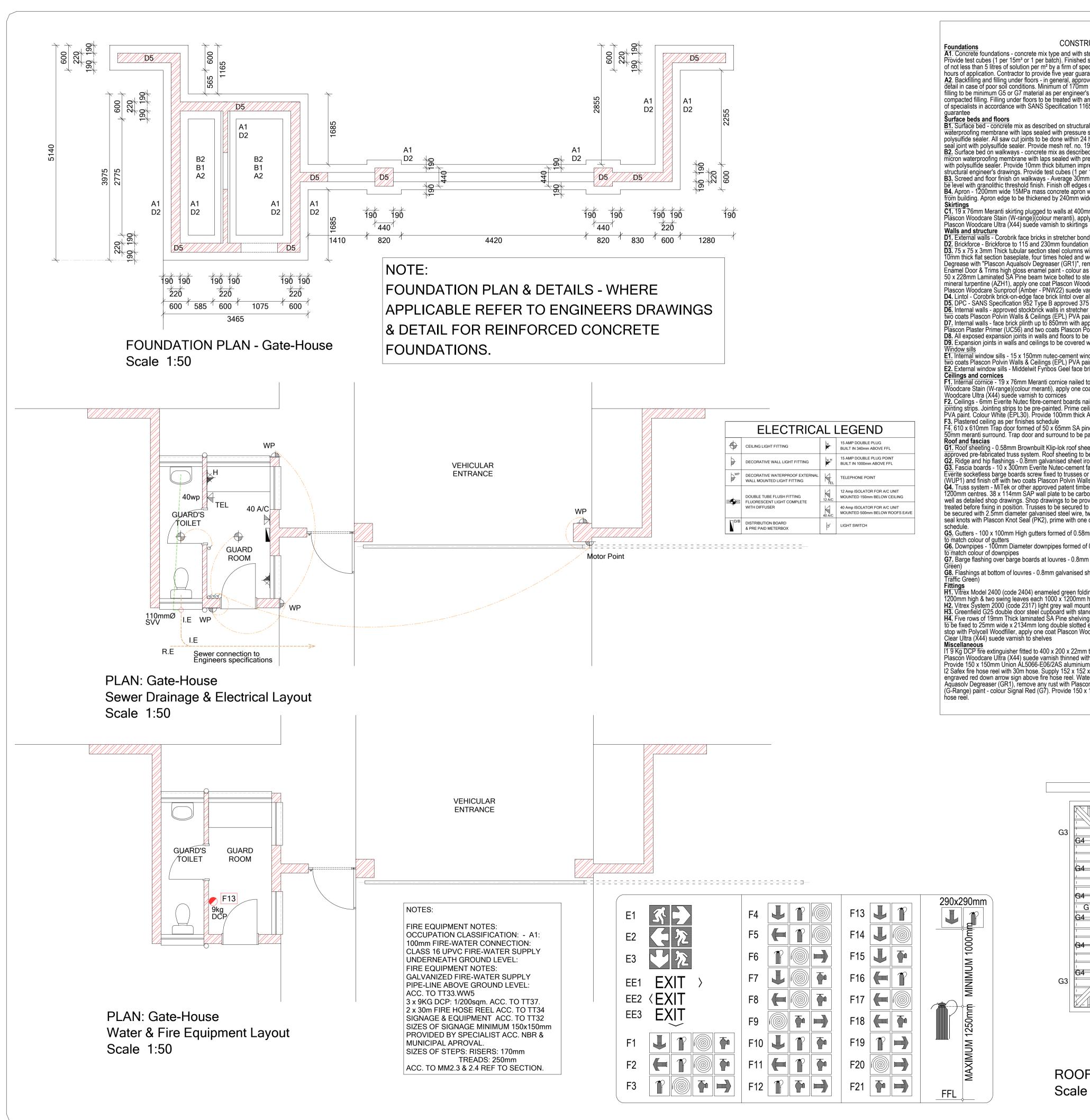


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NO		

 Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
 Light Switch in Disabled toilet to be at 1200 mm above FFL
 If Step over 900 mm Build in Balustrade
 Gulley positions to be determined as per site prescribed overall drainage design 5) 2 x coats sealant on all exposed trusses markings ) 6) 50 mm mineral wool insulation to be installed where there are ceilings insulation with foil backing to be all areas that do not have ceilings 7) West Facing Facades to have standardised aluminium louvres from eaves to drop of 1200 mm 8) Trusses to be designed in accordance with SABS 0400 & approved Project Engineers

	S	GNATURI	E TABLE		
DISCIPLINE		SIGNATURE		DATE	
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ENVIRONMENTA	_ OFFICER				
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A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS C

A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layer detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level und filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per solution of the Destine 200 SC or other compacted time are to be provided to a test of the Destine 200 SC or other compacted to a rate of one test per solution. compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 2

B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specificat waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impreg seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 1 B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SA

 Difference of a structural engineer's drawings bet minimum communication of a structural engineer's drawings bet minimum communication of minimum and communication of minimum communication of the structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)
B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. A structural engineer's and the structural engineer's and the structural engineer's drawings of the structural engineer's drawings. Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. A structural engineer's drawings of the structural engineer's drawings of th be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool **B4.** Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in le from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground

Skirtings C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrand bead plated on. Sand down to Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below co

Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woor mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 n

Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recesse D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1.5 cement plaster finisher

two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3 D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes scher **D8.** All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces h **D9.** Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips

E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule
 E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recession.

Ceilings and cornices F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finisi Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral Woodcare Ultra (X44) suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum wi jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finisl PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings **F3.** Plastered ceiling as per finishes schedule

4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be form

**G1.** Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SA approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee **G2.** Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory manufactured FK3 ridge or hip flashing with Globalcoat factory fac **G3.** Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with cou Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge b

WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. 34. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to provide certific well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into wa be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purlins. All expos seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon En

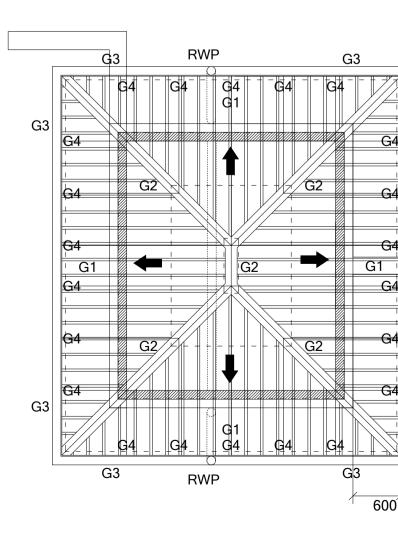
G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok to match colour of gutters **G6.** Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gems

37. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge

**G8.** Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing ar Traffic Green)

**Fittings H1.** Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200m 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom)
 H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high with four H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm vide. to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to wall stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (Az Clear Ultra (X44) suede varnish to shelves

Miscellaneous 11 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smo Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Pla Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red c 12 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire h provide red down errow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild s engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL50



**ROOF PLAN: Gate-House** Scale 1:50

	NUTES .
op of strip footings to be 340mm minimum below N.G.L. e Prothor 200 SC or other approved type applied at a rate Code of Practice 0124. Concrete to be casted within 24 eyers of maximum 150mm - refer to engineer's drawings for inder floors. All filling to be approved by engineer (imported t per 125m <sup>2</sup> filling area under floors per each layer of 150mm at a rate of not less than 5 litres of solution per m <sup>2</sup> by a firm in 24 hours of application. Contractor to provide five year	<ol> <li>Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400</li> <li>Light Switch in Disabled toilet to be at 1200 mm above FFL</li> <li>If Step over 900 mm Build in Balustrade</li> <li>Gulley positions to be determined as per site prescribed overall drainage design</li> <li>2 x coats sealant on all exposed trusses (sand off all SABS &amp; other markings)</li> <li>50 mm mineral wool insulation to be installed where there are ceilings . Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings</li> <li>7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm</li> <li>8) Trusses to be designed in accordance with SABS 0400 &amp; approved by Project Engineers</li> </ol>
fication 952 Type C approved USB Green 250 micron fication 952 Type C approved USB Green 250 micron foregnated soft board between all walls and concrete and er 15m <sup>3</sup> or 1 per batch) SANS Specification 952 Type C approved USB Green 250 maximum 20m <sup>2</sup> with expansion joints with joints filled up t with polysulfide sealer. Provide mesh ref. no. 193 as per s. At all external door openings external surface beds must in lengths of maximum 3m and to have a 1:100 fall away und level to a smooth finish, stop with Polycell Woodfiller, stain with 1:3 mineral turpentine (AZH1) and apply two finishing coats se. Over openings formed in brickwork as per table below set, 200mm long, twice holed and welded to top, 200 x 200 x copings with four M10 x 75mm masonry anchor bolts. on Metal Primer (UC501) and apply two coats Plascon oodfiller, provide one coat raw linseed oil thinned with 1:3 B mineral turpentine (AZH1) and apply two finishing coats sed joints sed joints s	
<ul> <li><sup>5</sup> hed off with one coat Plascon Plaster Primer (UC56) and -3) as per Principal Agent oat smooth 1:5 cement plaster finished off with one coat hedule.</li> <li><sup>5</sup> s have been primed with Urochem 614 primer</li> <li><sup>5</sup> ne coat Plascon Multi-surface Primer (WUP1) and apply cessed joints</li> <li><sup>5</sup> ish, stop with Polycell Woodfiller, stain with Plascon ral turpentine (AZH1) and apply two finishing coats Plascon</li> <li><sup>5</sup> with galvanised clout nails. Provide H-profile galvanised nish off with two coats Plascon Polvin Walls &amp; Ceilings (EPL)</li> <li><sup>5</sup> d with ceiling board and fitted flush in opening. Provide 18 x prmed with 38 x 114mm SA pine bearers, nailed to trusses</li> <li><sup>5</sup> SAP purlins at maximum 1200mm centres on patent and</li> <li><sup>6</sup> Globalcoat finish (colour Traffic Green) ountersunk brass screws. Barge boards - 200 x 80mm a boards with one coat Plascon Multi-Surface Primer</li> <li><sup>6</sup> 20 degrees pitch. 50 x 76mm SAP purlins at maximum ficate and guarantee for design and erection of trusses as All sections in contact with wet trades to be carbolineum walls minimum 6 courses. Purlins nailed to trusses must also osed parts of trusses, purlins, etc. to be pre-coated ge or gable flashing with Globalcoat finish (colour Traffic and FK7 counter flashing with Globalcoat finish (colour Traffic and FK7 counter flashing with Globalcoat finish (Colour Traffic and FK7 counter flashing with Globalcoat finish (Colour Traffic and FK7 counter flashing with Globalcoat finish (Colour Traffic and FK7 counter flashing with Globalcoat finish (Colour Traffic and FK7 counter flashing with Globalcoat finish (Colour Traffic and FK7 counter flashing with Globalcoat finish (Colour Traffic Shelco epoxy powder coated steel brackets. Brackets alls at maximum 600mm c/c. Sand down to a smooth finish, AZH1) then apply two finishing coats Plascon Woodcare</li> </ul>	ISSUED FOR TENDER         DISCIPLINE       SIGNATURE TABLE         DISCIPLINE       SIGNATURE       DATE         CLIENT       Image: Date       Image: Date       Image: Date         FIRE CONTROL       Image: Date       Image: Date       Image: Date         FIRE CONTROL       Image: Date       Image: Date       Image: Date       Image: Date         ENVIRONMENTAL OFFICER       Image: Date       Image: Date
ad down arrow sign above fire extinguisher re hose reel sign & Union Al5066-06ASE08 aluminium Id steel. Degrease exposed parts of pipes with Plascon 1) and apply two coats Plascon Enamel Doors & trims 5066-E08/2AS aluminium red down arrow sign above fire	INSTITUTION LIMPOPO DEPARTMENT OF EDUCATION
	THABANE PRIMARY SCHOOL         INSTITUTION EMIS NUMBER         925621162         SERVICE         NEW BUILDINGS         CONTRACT - SECTION         DOCUMENTATION & PROCUREMENT         DISCIPLINE         PROJECT STAGE         ARCHITECTURAL         WORK DESCRIPTION - SUB DIVISION         GUARD HOUSE
	DRAWING DESCRIPTION         FOUNDATION, SEWER, FIRE AND ROOF         FILE No.       ITEM No.         DESIGN       DRAWN         SCALE       1: 100         CHECKED         DATE       NAME         SIGNATURE       PR NUMBER         2023.06.20       YUSUF VAHED         DRAWING CO-ORDINATED       PA7812         CONSULTANT :         CONSULTANT :         Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 178 2364, Email: info@rubenreddyarch.co.za         Web: www.rubenreddyarch.co.za       Web: www.rubenreddyarch.co.za         CONTRACTOR :
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NOTES

DOOR SCHEDULE: Scale 1:50.	$\begin{array}{c} \frac{1}{32} & \frac{978}{32} \\ \frac{1}{32} & \frac{914}{32} \\ \frac{1}{914} & \frac{1}{914} \\ \frac{1}{90} & \frac{1}{50} & \frac{1}{50} \\ \frac{1}{50} & \frac{1}{50} $	978 32 914 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DOOR NUMBER:	D1	D2	
POSITION:	BULK STOREROOM, DAY STORE	ENTRANCE TO TOILET	-
QUANTITY:		1 (0 - 11) (1 - D1)	-
	1 (1=LH) (0 = RH) 1,2mm THICK STANDARD STEEL DOUBLE REBATED	1 (0 = LH) (1 = RH) 1,2mm THICK STANDARD STEEL DOUBLE REBATED	-
DOOR-FRAME DESCRIPTION:	DOORFRAME FOR 115MM WALL TO RECEIVE PLASTER ON ONE-SIDE	DOORFRAME FOR 115MM WALL TO RECEIVE PLASTER ON ONE-SIDE	
	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL	
FINISHES:	UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT COLOUT TO ARCHITECT.	UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT COLOUT TO ARCHITECT.	
DOOR	2032 x 914 x 44mm THICK SOLID HARDWOOD	2032 x 914 x 40mm SOLID	-
DESCRIPTION:	DOOR WITH MASONITE BACKING. tYPE OF HARDWOOD DOOR ACCORDING TO OWNERS CHOICE.	HARDWOOD DOOR WITH MASONITE FACINGS TO RECEIVE 1/COAT UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT.	
IRON MONGERY:	HINGES - 2x100mm M/S STEEL BUTT HINGES PER DOOR	HINGES - 2x100mm M/S STEEL BUTT PER DOOR	-
FITTINGS:	LEAF LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	LEAF LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	
FINISHES:	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	1/UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT FINISH.	_
GLASS:	NOT APPLICABLE	NOT APPLICABLE	_
WINDOW SCHEDULE: Scale 1:50.			2185
WINDOW NUMBER:	W1	W2	W:
POSITION:	GUARD ROOM	GUARD ROOM	TOILE
QTY: WINDOW-FRAME DESCRIPTION:	1 STANDARD SS INDUSTRIAL TYPE STEEL WINDOW-FRAME CATALOGUE NUMBER (TBC) COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	2 STANDARD SS INDUSTRIAL TYPE STEEL WINDOW-FRAME CATALOGUE NUMBER (TBC) COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	2 STANDA CATALO AS SUPP
WINDOW FURNITURE:	IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	IRON-M WINDO TO ARC
BURGLAR-BARS: FINISHES: GLASS:	OUT OF 10mm WIDE FLAT-BARS 1/COAT RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT. 4mm THICK CLEAR FLOATED SHEET	OUT OF 10mm WIDE FLAT-BARS 1/COAT RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT. 4mm THICK CLEAR FLOATED SHEET	OUT OF 1/COAT UNDER PAINT - 5mm Th
	GLAZING SECURED IN FRAME WITH SABS APPROVED GLAZING PUTTY	GLAZING SECURED IN FRAME WITH SABS APPROVED GLAZING PUTTY	glazin Appro

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawing Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the structural engineer's drawing provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and S

A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density i detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground lev filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied to the provided at a rate of one compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied to the provided to of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted

guarantee Surface beds and floors B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS S D1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS S waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of m polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitume seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes **B2**. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm this

B2. Surface bed on waikways - concrete mix as described on structural engineer's drawings but minimum committic micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative section with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)
 B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards e be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool
 B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative section with granolithic threshold finish. Finish off edges of screed smooth with edging tool

from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finishe Skirtings C1\_19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrand bead plated on. Sand do Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned v Plascon Woodcare Ultra (X44) suede varnish to skirtings

Walls and structure D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints **D1.** External wais - Colobink face blicks in stretcher bond with romm wide x omm deep square recessed joints **D2.** Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th of **D3.** 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing b 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork bel Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with P

Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polyc mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish

D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed joints D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and D6. Internal walls - approved stockorick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC50) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent
 D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster finished off with one coat Plascon Plaster primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
 D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have been primed with Urochem 614 primer
 D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips Window sills E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply

two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed joints

Ceilings and cornices F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings

F3. Plastered ceiling as per finishes schedule F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses

 Boon and surround. They door and surround to be painted to G3. Fascia boards - 10 X 300mm Evente Nutec-cement fascia boards screw fixed to truss ends and counter batten with countersunk brass screws. Barge boards - 200 X 80mm Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge boards with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
 G4. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolineum treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule.

G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat

to match colour of gutters G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or gable flashing with Globalcoat finish (colour Traffic

**G8.** Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom) H3. Greenfield G25 double door steel cupboard with standard baked enameled finish. 760 x 610 x 1700mm high with four shelves (2 per classroom) H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

119 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire

+ 1022 + ARD E-TYPE TOP-HUNG STEEL WINDOW-FRAME OGUE NUMBER (TBC) COMPLETE WITH FITTINGS PPLY BY MANUFACTURER IONGERY & FITTINGS AS SUPPLY BY W MANUFACTURER. AND ACCORDING HITECTS APPROVAL.

10mm WIDE FLAT-BARS RED OXIDE PRIMER + 1/COAT UNIVERSAL COAT + 2/COATS PLASCON GLOSS ENAMEL COLOUR ACCORDING TO ARCHITECT. HICK PACIFIC OBSCURED G SECURED IN FRAME WITH SABS OVED GLAZING PUTTY

ngs. Top of strip footings to be 340mm minimum below N.G.L. n of the Prothor 200 SC or other approved type applied at a rate SANS Code of Practice 0124. Concrete to be casted within 24	
ty in layers of maximum 150mm - refer to engineer's drawings for level under floors. All filling to be approved by engineer (imported ne test per 125m <sup>2</sup> filling area under floors per each layer of 150mm plied at a rate of not less than 5 litres of solution per m <sup>2</sup> by a firm d within 24 hours of application. Contractor to provide five year	
Specification 952 Type C approved USB Green 250 micron maximum 20m <sup>2</sup> with saw cut joints with joints filled up with en impregnated soft board between all walls and concrete and so (1 per 15m <sup>3</sup> or 1 per batch)	
ick on SANS Specification 952 Type C approved USB Green 250 ons of maximum 20m <sup>2</sup> with expansion joints with joints filled up al joint with polysulfide sealer. Provide mesh ref. no. 193 as per	
edges. At all external door openings external surface beds must	
ctions in lengths of maximum 3m and to have a 1:100 fall away ed ground level	
down to a smooth finish, stop with Polycell Woodfiller, stain with d with 1:3 mineral turpentine (AZH1) and apply two finishing coats	
course. Over openings formed in brickwork as per table below bracket, 200mm long, twice holed and welded to top, 200 x 200 x below copings with four M10 x 75mm masonry anchor bolts. Plascon Metal Primer (UC501) and apply two coats Plascon	
cell Woodfiller, provide one coat raw linseed oil thinned with 1:3	

NOTES
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1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2)Light Switch in Disabled toilet to be at 1200 mm above FFL 3) If Step over 900 mm Build in Balustrade 4) Gulley positions to be determined as per site prescribed overall drainage design 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings ) 6) 50 mm mineral wool insulation to be installed where there are ceilings . Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings 7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm 8) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers Project Engineers

### **ISSUED FOR TENDER**

SIGNATURE TABLE				
DISCIPLINE			SIGNATURE	DATE
CLIENT				
PLAN EXAM	NER			
FIRE CONTR	OL			
ENVIRONME	NTAL OFFICE	R		
ROADS / STO	ORMWATER			
WATER AND	SANITATION			
ENVIRONME	NTAL OFFICE	R		
REV No	DATE :		DESCRIPTION	۱:
			REVISIONS	
		SIZE	ON ORIGINAL DRAWING 100 mm	



### DEPARTMENT OF EDUCATION

INSTITUTION

THABANE PRIMARY SCHOOL

INSTITUTION EMIS NUMBER

925621162 SERVICE **NEW BUILDINGS** 

CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4 WORK DESCRIPTION - SUB DIVISION **GUARD HOUSE** DRAWING DESCRIPTION

W	IN	DOW AND DC		DULE	S
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DESIGN					DRAWN
SCALE		1: 100			CHECKED
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DATE		NAME	SIGNATURE	PR NL	JMBER
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DRAWING CO	-ORDINATED	
CONSULT	TANT :	

uben reddy architects Suite 4 No 6 Ismini Office Building, Ismini Street, Polokwane, D699 South Africa +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.zc Web: www.rubenreddyarch.co.z

CONTRACTOR	:	

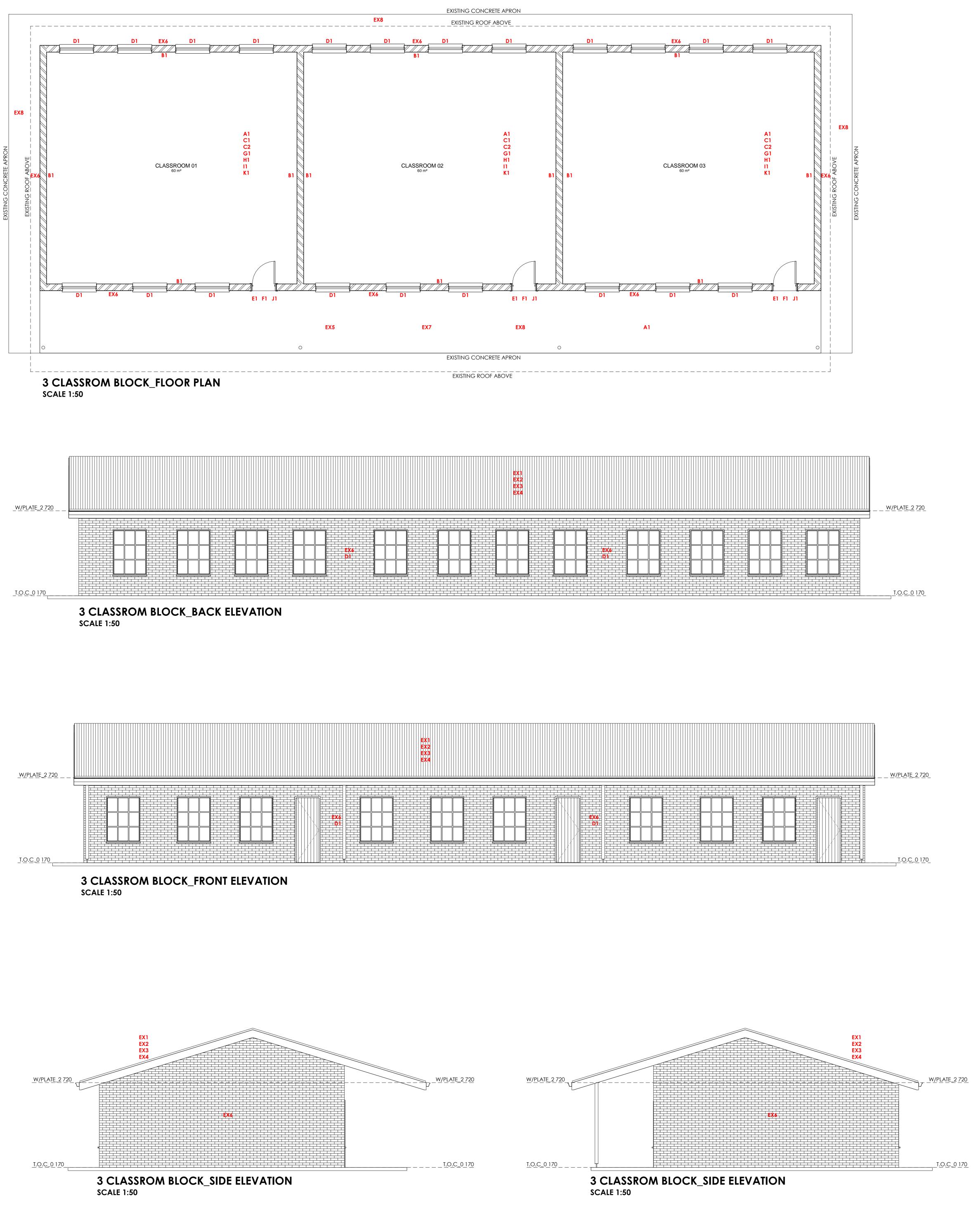
### AUTO CAD DRAWING NUMBER 2020\_71-GH-004

|A 1

FILE NAME

REV2

А



# \_\_\_\_\_T.O.C\_0 170

NOTE :

REFURBISHME

) RKMANSHIP TO COMPLY WITH STANDARD SPECIFICATION OF This schedule is provisional because each block will have to be based on site MATERIALS AND METHODS TO BE USED - sabs 0400 inspection and block type. ALL SPECIFICATIONS AND QUANTITIES TO BE 2) IIGHT SWITCH IN DISABLED TOILET TO BE AT 1200MM ABOVE CONFIRMED WITH QS AND ARCHITECT PRIOR TO PROCUREMENT. PROOF OF DAMAGED PORTIONS TO BE TAKEN NOTE OF WITH PICTURES PRIOR TO RENOVATIONS. 3) IF STEP OVER 900MM BUILD IN BALUSTRADE 4) GULLEY POSITIONS TO BE DETRMINED AS PER SITE PRESCRIBED OVERALL DRAINAGE DESIGN <u>A1- CEILING</u> Take down and remove existing damaged ceilings 5) 2 X COATS SEALANT O ALL EXPOSED TRUSSES (SAND OFF ALL complete with cornices, brandering, hangers, etc., from trusses to abs & OTHER MARKINGS)

remain and replace with 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin [7] West FACING FACADES TO HAVE STANDARDISED ALUMINIUM Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings.

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H1 - WRITING BOARD Vitrex System 1000 folding type vitreous enamel steel wall mounted school chalk board, overall size 1140 mm high x 3600 mm long, reference (1019), consisting of one fixed centre board size 1140 mm high x 1800 mm long, two fixed side boards each size 1140 mm high x 900 mm long and two swing leaves each size 1140 mm high x 900 mm long. One swing leaf (LH) including white 50 x 50 mm squares, reference (1021), permanently screened on to the rear face and the other swing leaf (RH) to have white lines spaced at 50 mm centres, reference (1025), permanently screened on to rear face. Board supplied complete with continuous Aluminium Chalk Rail (ACR), fixing components and secured in position to brickwork. high x 4800 mm long to consist of Flortime Premier pinning material /

**<u>I1 - PINING BOARDS</u>** Vitrex System 2000 Pin Boards overall size 1140 mm Belgotex Colour-Rib carpet surface laminated to a soft board core, the unit to be beaded all around with a natural anodised Aluminium channel surround mitered at the corners. Colour of the pinning material / carpet surface (2) to be [Colour name] (3) as selected by the Architect from the relevant standard colour range. Pin Boards supplied complete with necessary fixing components and fixed in position strictly in accordance with the manufacturer's instructions.

<u>K1 - SANITARY WARE</u>

**EXTERNA** 

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batten twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile barge board joiners between boards and at roof apex. • **EX4 - Install new gutters and down pipes** Pre-coated aluminum seamless gutter, size 150 x 100 x 0,6mm thick in colour Marble White including matching rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by nail fixed internal aluminium hangers at 600mm centres with rectangular fluted downpipes, size 100 x 75 x 0,6mm thick in colour Marble White fixed to walls with pre-painted downpipe cleats using nail-in anchor fixings.

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dry 3:1 cement mortar well caulked. Pavelite' or other approved self-levelling screed on concrete. EX6 - Clean face brick Clean down surfaces of face brick walls externally with a high pressure hose and a solution of 'Enterprise Cleaning Brick Cleaner' or similar approved and wash down with clean water. Existing painted bricks to be cleaned and re painted to match existing EX7 - Wheelchair Access: Existing rams to be refurbished and made good. New wheelchair access ramp to be installed where needed.

Existing stairs to be made good. **EX8 - Concrete Apron** Clean down surfaces of apron externally with a high pressure hose and a solution of 'Enterprise Cleaning Brick Cleaner' or similar approved and wash down with clean water. Fix damaged concrete portions as per engineers specifications.

ALL DIMENSIONS TO BE CONFIRMED ON SITE ALL MECHANICAL AND ELECTRICAL SPECIFICATIONS TO ENGINEERS DETAIL AND APPROVAL ALL SHOP DRAWINGS TO BE SENT TO ENGINEERS AND ARCHITECTS FOR APPROVAL PRIOR TO MANUFACTURING AND INSTALLATION

Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm APPROVED BY PROJECT ENGINEER centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices

• <u>**B1 - WALLS**</u> Repair and brush to remove all loose contaminants, fill existing cracks with crack filler apply one coat Masonry Sealant', one coat Masonry Primer' and two coats Super Acrylic' or other approved paint. Replace all broken / missing bricks to match existing.

<u>**C1 - FLOOR**</u> Hack up/off and remove ,repair cracks out in granolithic finish, wet thoroughly and fill in with semi-dry 3:1 cement mortar well caulked. 'Pavelite' or other approved selflevelling screed on concrete: remove existing vinyl tile floor prepare floor to receive approved self-levelling screed finished with 300 x 300 x 2,5mm vinyl tiles or other approved semi-flexible vinyl flooring.

**<u>C2 -SKIRTING</u>** Take up and remove defective skirting and replace with 19 x 70mm Skirting including 19mm quadrant bead nailed.

**<u>D1 - WINDOWS</u>** Clean down existing steel windows and apply two coats Polyurethane Enamel' on existing enamel painted surfaces. Service and overhaul sash of steel window, including oiling and easing hinges, etc. retain existing burglar bars. Cracked glass in some places to be replaced.

Window putty to be inspected and replaced where required. Burglar bars to be treated for rust and repainted. All ironmongery is to be replaced.

E1 - DOOR FRAME Remove and replace existing door frame with DUROWIN or equal and approved single rebated with one shop coat red oxide pressed door frame 1,6 mm thick to 2032mm high door for 230m wall supplied with 1 pair welded steel hinges.

F1 - DOOR Remove and repair existing door by Sand down, repair with wood filler and repaint reinstall as per door schedule, replace damaged doors with new doors.

 G1 - STATIONARY CABINET Demolish existing masonry cabinet remove door and frame then, Provide School Type 4 shelf metal lockable stationery cabinet 540707IK lvory/ Karoo size 450 x 900 x 1 800mm high, bolted four times to wall with masonry expansion bolts.

<u>J1 - DOOR STOPPER</u> DDS-NP-018 nickel plated door stop.

ALL Sanitaryware is to be replaced.

Toilet seats need to be installed. Plumbing to be checked and replaced or repaired where required. All external plumbing to be checked and replaced where needed.

EX1 - Remove and replace roof sheets as per specification Take down and remove existing IBR roof coveringLay 0,8mm Thick Saflok/Kliplok 700 G4 Colortech aluminium interlocking roof covering fixed to purlins including approved stainless steel (Class 3) wafer head self-tapping fasteners with insulation including rainwater goods on existing structure.

EX2 - Install new fascia boards Everite medium density plain ungrooved Nutec fascia boards (Code: 41-202), size 225 x 12mm, fixed to 38 x 38mm tilter batten and 38 x 38mm support battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC Hprofile fascia joiner between boards and PVC H-profile fascia corner joiners at board ends.

EX3 - Install new barge boards Everite moulded Nutec moulded barge boards (Code: 721-740), size 275 x 80mm, fixed to 38 x 38mm trimmer

EX5 - Verandah floor finish Hack up/off and remove, repair cracks out in granolithic finish, wet thoroughly and fill in with semi-

### GENERAL DRAWING NOTES

6) 50MM MINERAL WOOL INSULATION TO BE INSTALLED WHERE THERE ARE CEILINGS. BUBBLE PLASTIC INSULATION WITH FALL BACKING TO BE INSTALLED WITH WIRE SUPPORTS IN ALL AREAS

THAT DO NOT HAVE CEILINGS

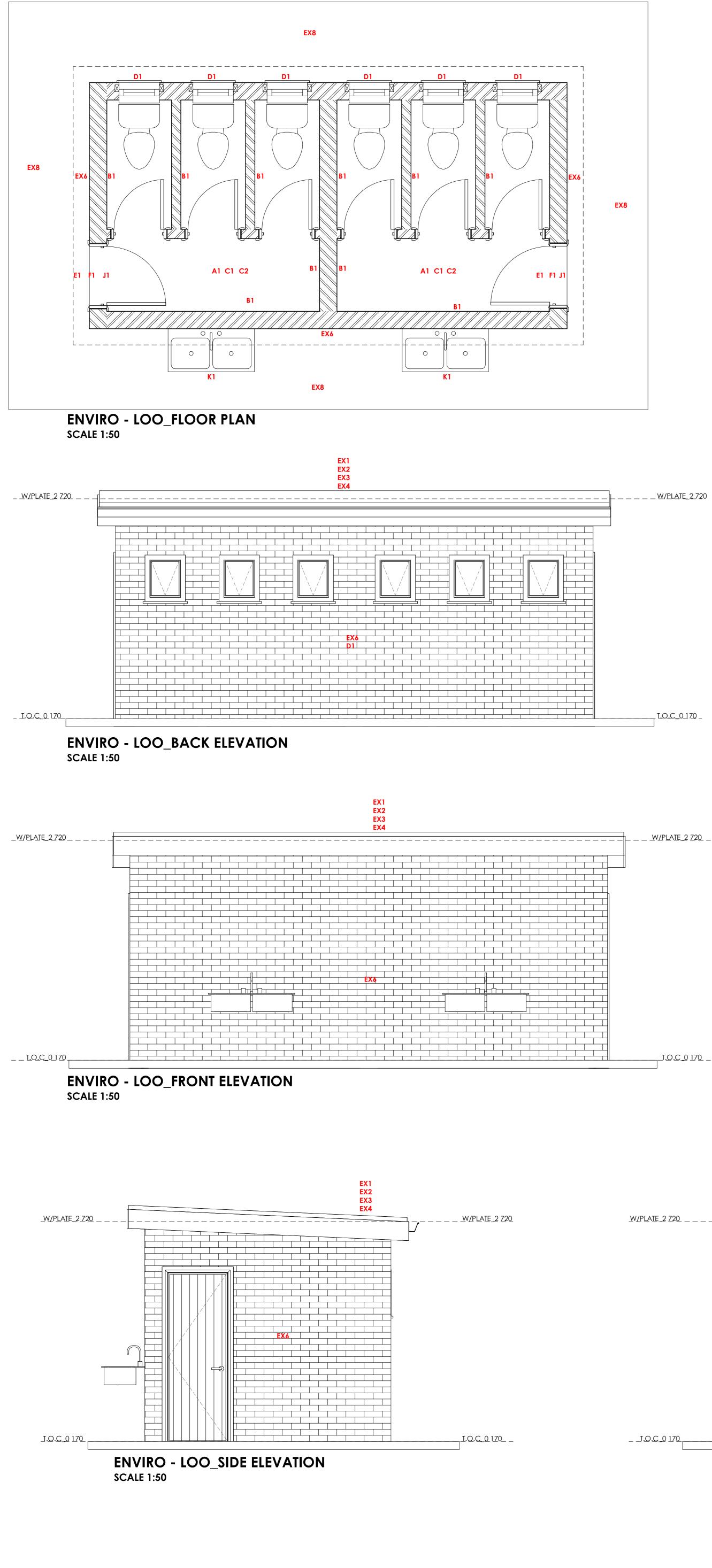
OUVRES FROM BELOW EAVES TO DROP OF 1200MM 8) TRUSSES TO BE DESIGNED IN ACCORDANCE WITH SABS 0400 &

REVISIONS

DESCRIPTION

REV No. DATE

ISSUED FOR TENDER
SIGNATURE TABLE: DISCIPLINE: SIGNATURE: DATE:
CLIENT: PLAN EXAMINER
FIRE CONTROL ENVIROMENTAL OFFICER
ROADS/STORMWATER WATER AND SANITATION
ENVIRONMENTAL OFFICER
REV No. DATE: DESCRIPTION
SIZE ON ORIGINAL DRAWING 100MM
ELIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA
Department of Public Works
Public Works
INSTITUTION EMIS NUMBER
INSTITUTION EMIS NUMBER 925621162 SERVICE
INSTITUTION EMIS NUMBER 925621162
INSTITUTION EMIS NUMBER 925621162 SERVICE NEW BUILDINGS & ALTERATIONS CONTACT - SECTION
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EX8

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\_T.O.C\_0 170 \_

> EX2 EX3 EX4 W/PLATE\_2 720 \_\_\_\_\_ \_\_\_\_ <u>W/PLATE\_2720</u> EX6 ENVIRO - LOO\_SIDE ELEVATION SCALE 1:50

REFURBISHM
KEI OKDISTIM

RENOVATIONS.

 <u>A1- CEILING</u> Take down and remove existing damaged ceilings complete with cornices, brandering, hangers, etc., from trusses to remain and replace with 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm APPROVED BY PROJECT ENGINEER centres maximum. Sand down to a smooth finish, stop with Polycell

Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices

fill existing cracks with crack filler apply one coat Masonry Sealant', one coat Masonry Primer' and two coats Super Acrylic' or other approved paint. Replace all broken / missing bricks to match existing. <u>**C1 - FLOOR**</u> Hack up/off and remove ,repair cracks out in • granolithic finish, wet thoroughly and fill in with semi-dry 3:1 cement mortar well caulked. 'Pavelite' or other approved selflevelling screed on concrete: remove existing vinyl tile floor prepare floor to receive approved self-levelling screed finished with 300 x 300 x 2,5mm vinyl tiles or other approved semi-flexible vinyl flooring.

**<u>C2 -SKIRTING</u>** Take up and remove defective skirting and replace **<u>D1 - WINDOWS</u>** Clean down existing steel windows and apply • two coats Polyurethane Enamel' on existing enamel painted surfaces. Service and overhaul sash of steel window, including oiling and easing hinges, etc. retain existing burglar bars. Cracked glass in some places to be replaced. Window putty to be inspected and replaced where required. Burglar bars to be treated for rust and repainted. All ironmongery is to be replaced.

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H1 - WRITING BOARD Vitrex System 1000 folding type vitreous enamel steel wall mounted school chalk board, overall size 1140 mm high x 3600 mm long, reference (1019), consisting of one fixed centre board size 1140 mm high x 1800 mm long, two fixed side boards each size 1140 mm high x 900 mm long and two swing leaves each size 1140 mm high x 900 mm long. One swing leaf (LH) including white 50 x 50 mm squares, reference (1021), permanently screened on to the rear face and the other swing leaf (RH) to have white lines spaced at 50 mm centres, reference (1025), permanently screened on to rear face. Board supplied complete with continuous Aluminium Chalk Rail (ACR),

fixing components and secured in position to brickwork. **<u>II - PINING BOARDS</u>** Vitrex System 2000 Pin Boards overall size 1140 mm high x 4800 mm long to consist of Flortime Premier pinning material / Belgotex Colour-Rib carpet surface laminated to a soft board core, the unit to be beaded all around with a natural anodised Aluminium channel surround mitered at the corners. Colour of the pinning material / carpet surface (2) to be [Colour name] (3) as selected by the Architect from the relevant standard colour range. Pin Boards supplied complete with necessary fixing components and fixed in position strictly in accordance with the manufacturer's instructions.

<u>EXTERNA</u>

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corner joiners at board ends. EX3 - Install new barge boards Everite moulded Nutec moulded barge boards (Code: 721-740), size 275 x 80mm, fixed to 38 x 38mm trimmer batten twice screwed with 12 x 40mm countersunk brass screws with PVC H-profile barge board joiners between boards and at roof apex.

• **EX4 - Install new gutters and down pipes** Pre-coated aluminum seamless gutter, size 150 x 100 x 0,6mm thick in colour Marble White including matching rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by nail fixed internal aluminium hangers at 600mm centres with rectangular fluted downpipes, size 100 x 75 x 0,6mm thick in colour Marble White fixed to walls with pre-painted downpipe cleats using nail-in anchor fixings. EX5 - Verandah floor finish Hack up/off and remove, repair cracks out in granolithic finish, wet thoroughly and fill in with semidry 3:1 cement mortar well caulked. Pavelite' or other approved self-levelling screed on concrete.

EX6 - Clean face brick Clean down surfaces of face brick walls ٠ externally with a high pressure hose and a solution of 'Enterprise Cleaning Brick Cleaner' or similar approved and wash down with clean water. Existing painted bricks to be cleaned and re painted to match existing EX7 - Wheelchair Access: Existing rams to be refurbished and made good.

**EX8 - Concrete Apron** Clean down surfaces of apron externally with a high pressure hose and a solution of 'Enterprise Cleaning Brick Cleaner' or similar approved and wash down with clean water. Fix damaged concrete portions as per engineers specifications. NOTE :

NT	SCHEDULE	

This schedule is provisional because each block will have to be based on site inspection and block type. ALL SPECIFICATIONS AND QUANTITIES TO BE CONFIRMED WITH QS AND ARCHITECT PRIOR TO PROCUREMENT. PROOF OF DAMAGED PORTIONS TO BE TAKEN NOTE OF WITH PICTURES PRIOR TO

• <u>**B1 - WALLS**</u> Repair and brush to remove all loose contaminants,

with 19 x 70mm Skirting including 19mm quadrant bead nailed.

E1 - DOOR FRAME Remove and replace existing door frame with DUROWIN or equal and approved single rebated with one shop coat red oxide pressed door frame 1,6 mm thick to 2032mm high door for 230m wall supplied with 1 pair welded steel hinges.

F1 - DOOR Remove and repair existing door by Sand down, repair with wood tiller and repaint reinstall as per door schedule, replace damaged doors with new doors.

 G1 - STATIONARY CABINET Demolish existing masonry cabinet remove door and frame then, Provide School Type 4 shelf metal lockable stationery cabinet 540707IK Ivory/ Karoo size 450 x 900 x 1 800mm high, bolted four times to wall with masonry expansion bolts.

J1 - DOOR STOPPER DDS-NP-018 nickel plated door stop.

## <u>K1 - SANITARY WARE</u>

ALL Sanitaryware is to be replaced.

Toilet seats need to be installed. Plumbing to be checked and replaced or repaired where required. All external plumbing to be checked and replaced where needed.

EX1 - Remove and replace roof sheets as per specification Take down and remove existing IBR roof coveringLay 0,8mm Thick Saflok/Kliplok 700 G4 Colortech aluminium interlocking roof covering fixed to purlins including approved stainless steel (Class 3) wafer head self-tapping fasteners with insulation including rainwater goods on existing structure.

EX2 - Install new fascia boards Everite medium density plain ungrooved Nutec fascia boards (Code: 41-202), size 225 x 12mm, fixed to 38 x 38mm tilter batten and 38 x 38mm support battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with PVC Hprofile fascia joiner between boards and PVC H-profile fascia

New wheelchair access ramp to be installed where needed. Existing stairs to be made good.

ALL DIMENSIONS TO BE CONFIRMED ON SITE

ALL MECHANICAL AND ELECTRICAL SPECIFICATIONS TO ENGINEERS DETAIL AND APPROVAL

ALL SHOP DRAWINGS TO BE SENT TO ENGINEERS AND ARCHITECTS FOR APPROVAL PRIOR TO MANUFACTURING AND INSTALLATION

### GENERAL DRAWING NOTES

1) RKMANSHIP TO COMPLY WITH STANDARD SPECIFICATION OF MATERIALS AND METHODS TO BE USED - sabs 0400 2) IIGHT SWITCH IN DISABLED TOILET TO BE AT 1200MM ABOVE

3) IF STEP OVER 900MM BUILD IN BALUSTRADE 4) GULLEY POSITIONS TO BE DETRMINED AS PER SITE PRESCRIBED

OVERALL DRAINAGE DESIGN 5) 2 X COATS SEALANT O ALL EXPOSED TRUSSES (SAND OFF ALL abs & OTHER MARKINGS)

6) 50MM MINERAL WOOL INSULATION TO BE INSTALLED WHERE THERE ARE CEILINGS. BUBBLE PLASTIC INSULATION WITH FALL BACKING TO BE INSTALLED WITH WIRE SUPPORTS IN ALL AREAS

THAT DO NOT HAVE CEILINGS 7) WEST FACING FACADES TO HAVE STANDARDISED ALUMINIUM

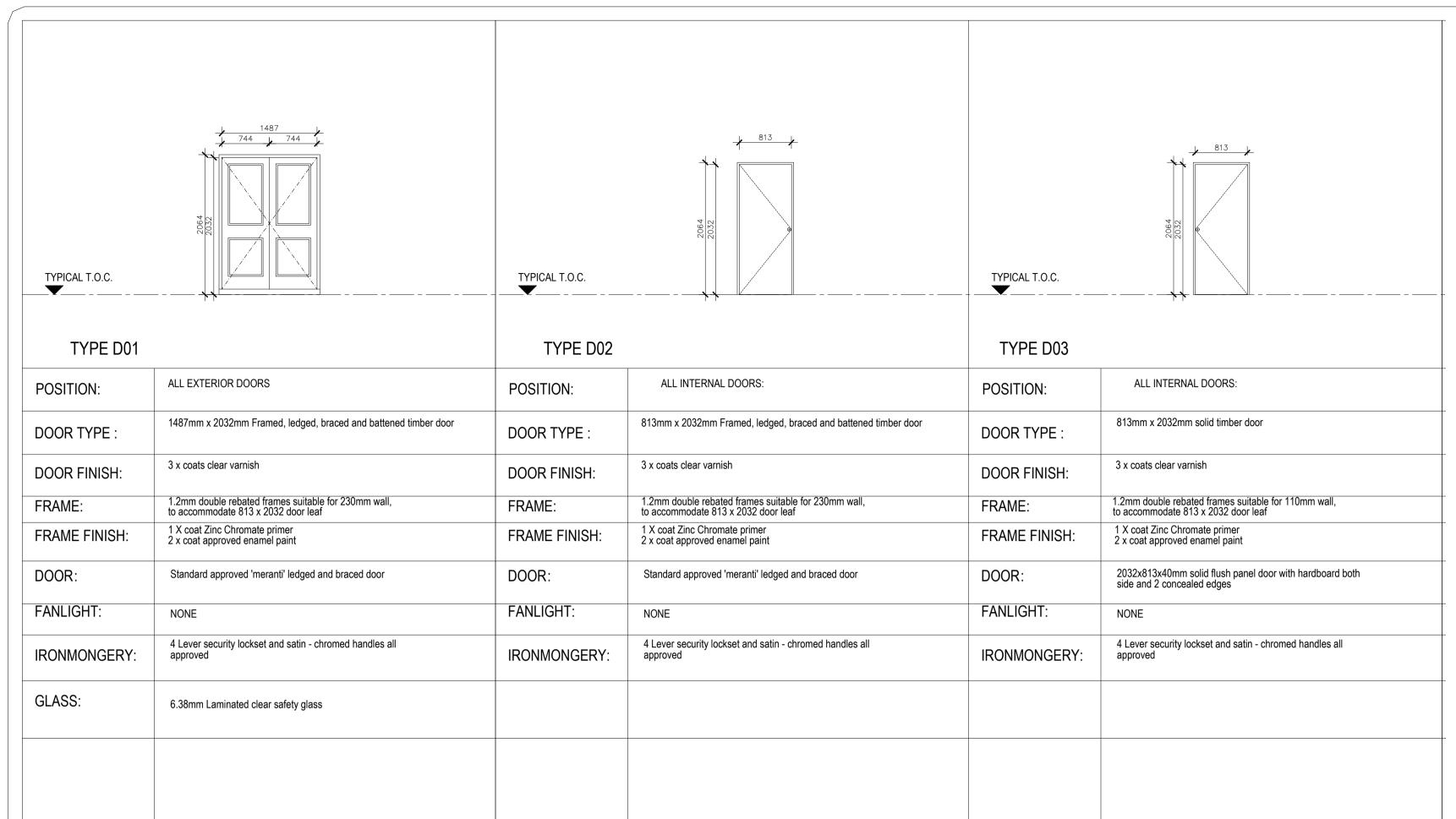
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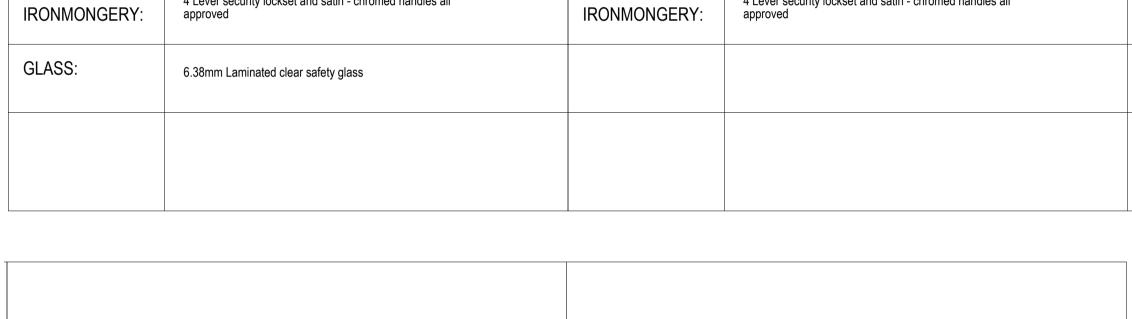
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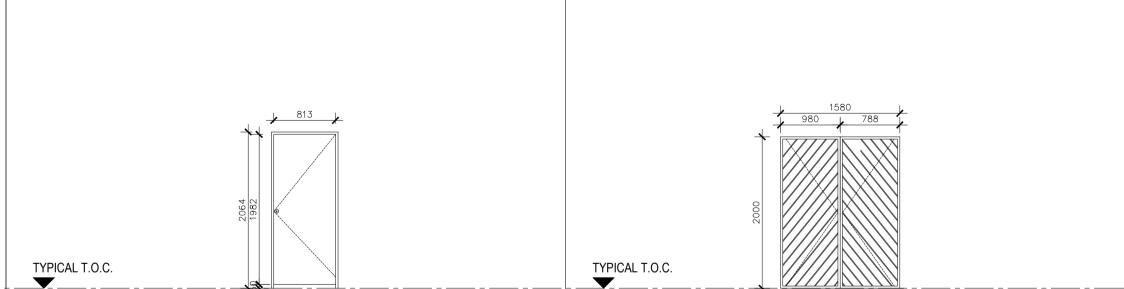
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TYPE D04		TYPE G01	
POSITION:	TOILET CUBICLES	POSITION:	ENTRANCE
DOOR TYPE :	813mm x 2032mm solid timber door 150mm UNDERCUT	DOOR TYPE :	1580mm x 2000mm
DOOR FINISH:	3 x coats clear varnish	DOOR FINISH:	3 x coats clear varnish
FRAME:	1.2mm double rebated frames suitable for 110mm wall, to accommodate 813 x 2032 door leaf	FRAME:	1.2mm double rebated frames suitable for 230mm wall, to accommodate 936 x 2032 door leaf
FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint	FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint
DOOR:	2032x813x40mm solid flush panel door with hardboard both side and 2 concealed edges	DOOR:	painted mild steel gate consisting of 10x10mm mild steel bars placed at 100mm centres at a 45° angle, colour to architect's specification
FANLIGHT:	NONE	FANLIGHT:	NONE
IRONMONGERY:	4 Lever security lockset and satin - chromed handles all approved	IRONMONGERY:	4 Lever security lockset and satin - chromed handles all approved
1	1	1	

### Foundations

A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee. A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m<sup>2</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m<sup>2</sup> by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee Surface beds and floors

B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch)

Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m<sup>2</sup> with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m<sup>3</sup> or 1 per batch) B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool

B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level Skirtinas

C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti guadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings Walls and structure

D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below

D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aqualsolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish D4. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed

D5. DPC - SANS Specification 952 Type B approved 375 micron black dpc in walls at floor level and under all window sills D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent

D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have

been primed with Urochem 614 primer D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips Window sills

E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as

per finishes schedule E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed ioints

Ceilings and cornices

F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices

F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brandering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings F3. Plastered ceiling as per finishes schedule

F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses Roof and fascias

G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with

Globalcoat finish (colour Traffic Green) G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with

countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge boards with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule. G4. Truss system - MiTek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolineum treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule. G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutters G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes G7. Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or gable flashing with Globalcoat finish (colour Traffic Green)

G8. Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green)

Fittings H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail

H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom) H3. Greenfield G25 double door steel cupboard with standard baked enameled finish. 760 x 610 x 1700mm high with four shelves (2 per classroom)

H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves Miscellaneous

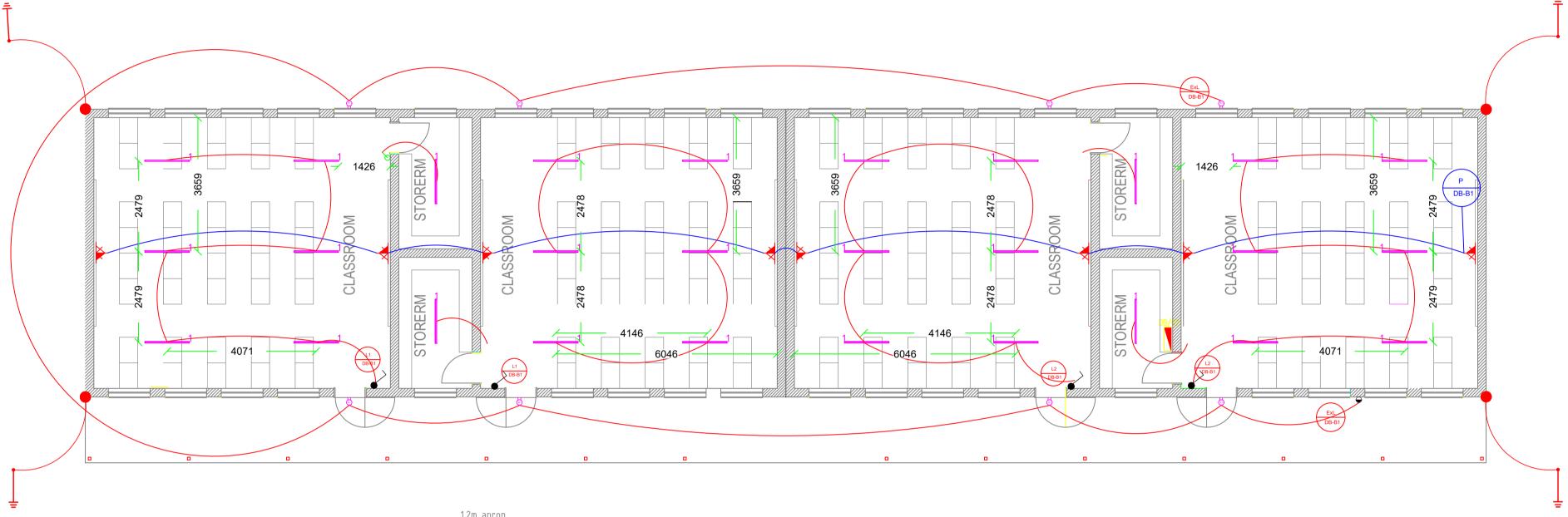
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E06/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher

I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union Al5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fhr sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400 2)Light Switch in Disabled toilet to be at 1200 mm above FFL ) If Step over 900 mm Build in Balustrade 4) Gulley positions to be determined as per site prescribed overall drainage design 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other 6) 50 mm mineral wool insulation to be installed where there are ceilings Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings 7) West Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm 3) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS DRAWINGS FOR CONSTRUCTION SIGNATURE TABLE DISCIPLINE SIGNATURE DATE **CLIENT** PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL OFFICER ROADS / STORMWATER WATER AND SANITATION ENVIRONMENTAL OFFICER REV No DATE DESCRIPTION SIZE ON ORIGINAL DRAWING 100 mm LIMPOPO **PROVINCIAL GOVERNMENT** REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION MMAPHUTI MANAMELA SECONDARY SCHOOL INSTITUTION EMIS NUMBER 991104202 SERVICE **NEW BUILDINGS & ALTERATIONS** CONTRACT - SECTION CONSTRUCTION DISCIPLINE PROJECT STAGE ARCHITECTURAL 5 WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION **DOOR SCHEDULE** FILE No. ITEM No. DESIGN DRAWN SCALE CHECKED 1: 100 RESPONSIBLE PROFESSIONAL SIGNATURE DATE PR NUMBER 2023.05.08 7812 Y.VAHED DRAWING CO-ORDINATED CONSULTANT Pruben reddy architects Suite 4 No 6 Ismini Office Building, 6 Ismini Street, Polokwane, D699 South Africa Tel: +27 15 065 0645, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za CONTRACTOR AUTO CAD

DRAWING NUMBER

2020 66- MAD- 106



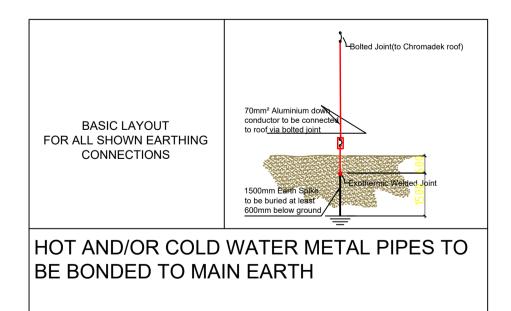
LIGHTING LEGEND.	QUANTITY
TYPE 1 - 1200mm x 350mm 35W Surface LED channel complete with electronic ballast. Fittings to be equivalent to REGENT LIGHTING NANO CR180 fittings.	28
TYPE B1 - IP65 Wall mounted 280mm diameter bulkhead complete with 2 x 18W CFL.Fittings shall be equivalent to the BEKA series 31. Fittings to me mounted at 2200mm After Finished Floor Level.	9
Photocell.	1
1 lever 1 way switch. Mounting shall be 1400mm After Finished Floor Level.	9
16A Flush mounted double socket outlet. Mounting at 300mm AFFL.	8
Flush Mounted Distribution Board	1
-	TYPE 1 - 1200mm x 350mm 35W Surface LED channel complete with electronic ballast. Fittings to be equivalent to REGENT LIGHTING NANO CR180 fittings. TYPE B1 - IP65 Wall mounted 280mm diameter bulkhead complete with 2 x 18W CFL.Fittings shall be equivalent to the BEKA series 31. Fittings to me mounted at 2200mm After Finished Floor Level. Photocell. 1 lever 1 way switch. Mounting shall be 1400mm After Finished Floor Level. 16A Flush mounted double socket outlet. Mounting at 300mm AFFL.

## 1.2m apron

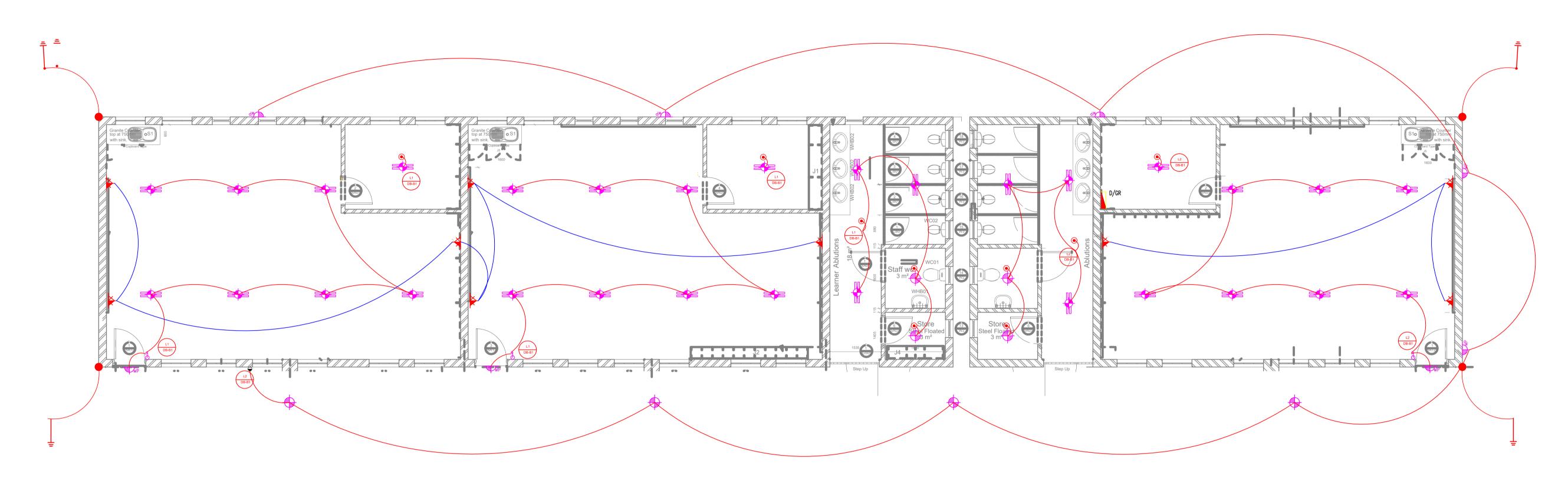
- 4 CLASSROOM BLOCK ELECTRICAL NOTES.
- Install new electrical installation as per the design drawing.
   All conduit to be used for small power and lighting installation shall be Ø25mm and Ø20mm SABS approved PVC conduit respectively.
   2.5mm2 and 4mm2 GP wire (with 2.5mm2 bare copper earth wire for all circuits) shall be used for wiring the lighting and small power circuits respectively.
- for all circuits) shall be used for wiring the lighting and small power circuits respectively.
  Positions of socket outlets on this drawings are indicative. Actual positions of the socket outlets to be finalised on site.
  Light fittings shall bear the SABS stamp of approval.
  Light fittings, sockets, light switches and distribution board shall be installed flush and square and at positions indicated on the drawing. Change of position shall be effected after approval by the Electrical Engineer.
  After installation is complete, label equipment, test and issue Certificate of Compliance for the installation.
- 1. The earthing and lightning protection shall be installed by a specialist.
- Such specialist as appointed by the contractor shall ensure the installation is compliant to the requirements of SANS 10199 and SANS 62305 and shall issue a certificate after completion of the works.
- 3. All down conductors shall be of Solid Aluminium conductor and shall be installed inside Ø25mm pvc pipes which shall be chased inside the wall.
- 4" x 4" Test Boxes shall also be installed at 300mm AFFL. These shall be installed flash on the outside wall for all earthing connections.
- 5. All connections between conductor and earth spikes shall be exothermically welded.
- 6. The layout shown for electrode installation is a guide and should there be any need to drive the rods deeper into the ground or add more rods to lower the ground resistance the specialist shall inform the Electrical Engineer.

## Description Symbol

## 1500mm earth spike



		location sheet	detail sheet	
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SYMBOL	LIGHTING LEGEND.
=	TYPE 1 - 1200mm x 350mm 35W Surface LED channel complete with electronic ballast. Fittings to be equivalent to REGENT LIGHTING NANO CR180 fittings.
	TYPE B1 - IP65 surface mounted 183mm diameter bulkhead complete with 15W CFL.Fittings shall be equivalent to the BEKA series 31. Fittings to be mounted at 2200mm After Finished Floor Level.
÷	Photocell.
5	1 lever 1 way switch. Mounting shall be 1400mm After Finished Floor Level.
*	16A Flush mounted double socket outlet. Mounting at 300mm AFFL.
DB/GR	Flush Mounted Distribution Board
	TYPE 2 - IP65, vapour proof, open channel with 2 x 58W T8 flourescent tubes complete with electronic ballast.
۲	Dual Technology Occupancy sensor

GRADE R CLASSROOM BLOCK ELECTRICAL NOTES.

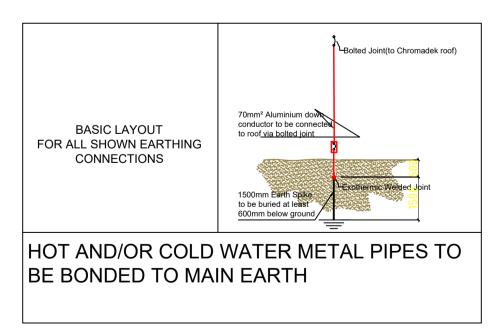
QUANTIT

- Install new electrical installation as per the design drawing.
   All conduit to be used for small power and lighting installation shall be Ø25mm and Ø20mm SABS approved PVC conduit respectively.
   2.5mm2 and 4mm2 GP wire (with 2.5mm2 bare copper earth wire for all circuits) shall be used for wiring the lighting and small power circuits respectively.
- for all circuits) shall be used for wiring the lighting and small power circuits respectively.
  Positions of socket outlets on this drawings are indicative. Actual positions of the socket outlets to be finalised on site.
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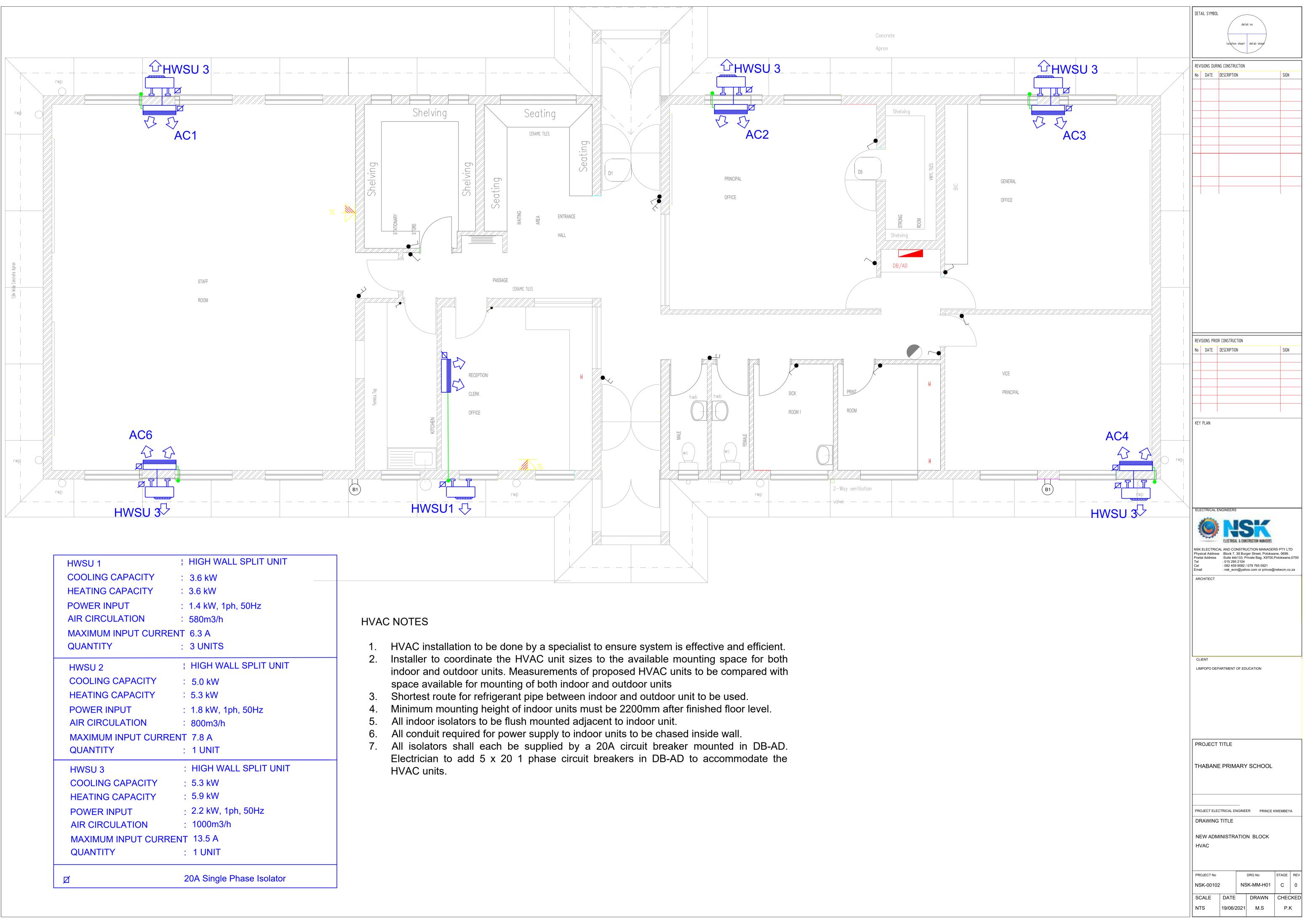
- 1. The earthing and lightning protection shall be installed by a specialist.
- 2. Such specialist as appointed by the contractor shall ensure the installation is compliant to the requirements of SANS 10199 and SANS 62305 and shall issue a certificate after completion of the works.
- 3. All down conductors shall be of Solid Aluminium conductor and shall be installed inside Ø25mm pvc pipes which shall be chased inside the wall.
- 4. 4" x 4" Test Boxes shall also be installed at 300mm AFFL. These shall be installed flash on the outside wall for all earthing connections.
- 5. All connections between conductor and earth spikes shall be exothermically welded.
- 6. The layout shown for electrode installation is a guide and should there be any need to drive the rods deeper into the ground or add more rods to lower the ground resistance the specialist shall inform the Electrical Engineer.

## Description Symbol

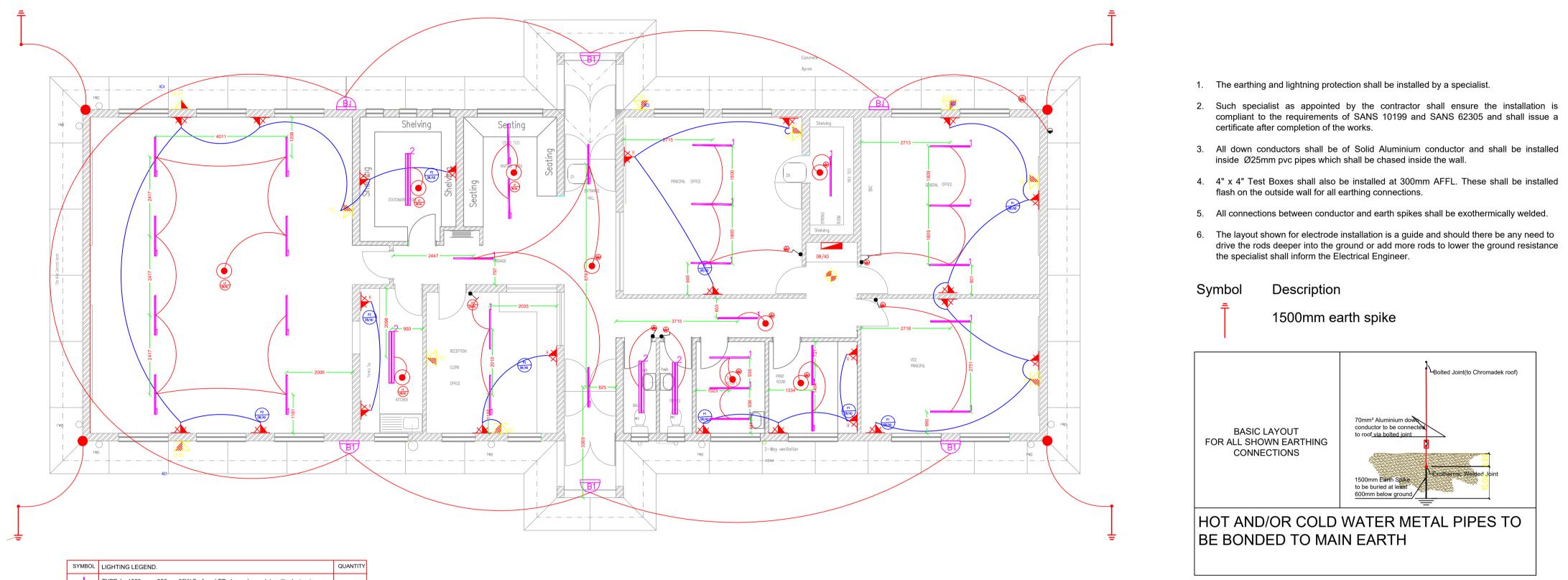
## 1500mm earth spike



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HWSU 1	E HIGH WALL SPLIT UNIT
COOLING CAPACITY	: 3.6 kW
HEATING CAPACITY	: 3.6 kW
POWER INPUT	: 1.4 kW, 1ph, 50Hz
AIR CIRCULATION	: 580m3/h
MAXIMUM INPUT CURRE	ENT 6.3 A
QUANTITY	: 3 UNITS
HWSU 2	E HIGH WALL SPLIT UNIT
COOLING CAPACITY	: 5.0 kW
HEATING CAPACITY	: 5.3 kW
POWER INPUT	:1.8 kW, 1ph, 50Hz
AIR CIRCULATION	: 800m3/h
MAXIMUM INPUT CURR	ENT 7.8 A
QUANTITY	: 1 UNIT
HWSU 3	: HIGH WALL SPLIT UNIT
COOLING CAPACITY	: 5.3 kW
HEATING CAPACITY	: 5.9 kW
POWER INPUT	: 2.2 kW, 1ph, 50Hz
AIR CIRCULATION	: 1000m3/h
MAXIMUM INPUT CURR	ENT 13.5 A
QUANTITY	: 1 UNIT
Ø	20A Single Phase Isolator



SYMBOL	LIGHTING LEGEND.	QUANTITY
	TYPE 1 - 1200mm x 350mm 35W Surface LED channel complete with electronic ballast. Fittings to be equivalent to REGENT LIGHTING NANO CR180 fittings.	28
	TYPE 2 - IP65, vapour proof, open channel with 2 x 58W T8 flourescent tubes complete with electronic ballast.	4
B	TYPE B1 - IP65 Wall mounted 280mm diameter bulkhead complete with 2 x 18W CFL.Fittings shall be equivalent to the BEKA series 31. Fittings to be mounted at 2200mm After Finished Floor Level.	6
U) DB/AD	Light circuit indicator. This reflects a lighting circuit connected to a 10A CB in the DB	2
P# DB/AD	Power circuit indicator. This reflects a power circuit connected to a 20A CB in the DB	2
÷	Photocell.	1
<ul><li>✓</li></ul>	1 lever 1 way switch. Mounting shall be 1200mm After Finished Floor Level.	8
۲	Dual Technology Occupancy sensor	9
	16A Flush mounted double socket outlet. Mounting at 300mm AFFL.	24
DB/AD	Distribution Boad mounted at 1600mm After finished floor level. Shop drawings to be submitted to the Engineer for approval before manufacture and supply in order to approve the board dimensions and detail.	1
L.	Lightning protection equipment	4

ADMINISTRATION BLOCK ELECTRICAL NOTES. 1. Install new electrical installation for the new Administration Blocks as

- Install new electrical installation for the new Administration Blocks as per the design drawing.
   All conduit to be used for small power and lighting installation shall be Ø25mm and Ø20mm SABS approved PVC conduit respectively.
   2.5mm2 and 4mm2 GP wire (with 2.5mm2 bare copper earth wire for all circuits) shall be used for wiring the lighting and small power circuits reproductive.
- all circuits) shall be used for wiring the lighting and small power circuits respectively.
  Positions of socket outlets on this drawings are indicative. Actual positions of the socket outlets to be finalised on site.
  Light fittings shall bear the SABS stamp of approval.
  Light fittings, sockets, light switches and distribution board shall be installed flush and square and at positions indicated on the drawing. Change of position shall be effected after approval by the Electrical Engineer.
  Distribution board positions shall be finalized on site.
  After installation is complete, label equipment, test and issue Certificate of Compliance for the installation.

	Bolted Joint(to Chromadek roof)
m dow connected Lioint	
spike sast round	PExothermic Welded Joint
ME1 H	TAL PIPES TO

DET	ail symbol	/		
		(-	detail no	
		location	n sheet detail sheet	
REV	ISIONS DURI	NG CONSTRU	JCTION	
No		DESCRIPTIO		SIGN
REV	ISIONS PRIO	R CONSTRUC	TION	
No	DATE	DESCRIPTIO	N	SIGN
<u> </u>				
KEY	PLAN:			
ELE		NGINEERS		
ELE			SK	
	0	ELECTRICA	SINGLE CONSTRUCTION MAINFERS	S PTY LTD
NSK Phys Post Tel		AL AND CO Block 7, Suite kki 015 295	ISSECTION NUMBERS	ne, 0699.
NSK Phys Post Tel Cel Ema	ELECTRIC. sical Address al Address	AL AND CO = Elock 7, :Suite kki : 015 295 : 082 459	ISSECTION MANAGER 38 Burger Street, Polokwar (133, Private Bag, X970),P	ne, 0699. olokwane,0700
NSK Phys Post Tel Cel Ema	ELECTRIC. sical Address al Address	AL AND CO = Elock 7, :Suite kki : 015 295 : 082 459	A CASTRACTON NAMES	ne, 0699. olokwane,0700
NSK Phys Post Tel Cel Ema	ELECTRIC. sical Address al Address	AL AND CO = Elock 7, :Suite kki : 015 295 : 082 459	A CASTRACTON NAMES	ne, 0699. olokwane,0700
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NSK Phys Post Tel Cel Ema AR	ELECTRIC sical Address al Address il CHITECT	AL AND CO Suite kki : Suite kki : 015 295 : 082 459 : 082 459 : nsk_eor	A CASTRACTON NAMES	ne, 0699. olokwane,0700
NSK Phys Post Tel Cel Ema AR	ELECTRIC sical Address al Address il CHITECT	AL AND CO Suite kki : Suite kki : 015 295 : 082 459 : 082 459 : nsk_eor	ISSE A CHETERCTON MANAGER 38 Burger Street, Polokwar k133, Private Bag, X9700,P 52104 9 9082 / 079 765 0921 m@yahoo.com or prince@r	ne, 0699. olokwane,0700
NSK Phys Post Tel Cel Ema AR	ELECTRIC sical Address al Address il CHITECT	AL AND CO Suite kki : Suite kki : 015 295 : 082 459 : 082 459 : nsk_eor	ISSE A CHETERCTON MANAGER 38 Burger Street, Polokwar k133, Private Bag, X9700,P 52104 9 9082 / 079 765 0921 m@yahoo.com or prince@r	ne, 0699. olokwane,0700
NSK Phys Post Tel Cel Ema AR	ELECTRIC sical Address al Address il CHITECT	AL AND CO Suite kki : Suite kki : 015 295 : 082 459 : 082 459 : nsk_eor	ISSE A CHETERCTON MANAGER 38 Burger Street, Polokwar k133, Private Bag, X9700,P 52104 9 9082 / 079 765 0921 m@yahoo.com or prince@r	ne, 0699. olokwane,0700
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NSK Phys Post Tel Cel Ema AR	ELECTRIC sical Address al Address il CHITECT	AL AND CO Slutte kkl : O15 295 : 082 459 : 082 459	ISSE A CHETERCTON MANAGER 38 Burger Street, Polokwar k133, Private Bag, X9700,P 52104 9 9082 / 079 765 0921 m@yahoo.com or prince@r	ne, 0699. olokwane,0700
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NSK Physe Post Tel Cel Ema AR Cl LIM	ELECTRIC sical Address al Address	AL AND CO Elsuite kkl 1015 292 1022 458 1032 458 10	ISSESSES SUBJECTION MANAGER 38 Burger Street, Polokwar (133, Private Bag, X9700,P 2104 9082/079 765 0921 m@yahoo.com of prince@r OF EDUCATION IARY SCHOOL MARY SCHOOL MARY SCHOOL DRG NO NSK-MM-03	NEMBEYA

## ELECTRICAL NOTES.

1. 2 core XLPE copper cable to be used for site reticulation buried at 1200mm below surface ground level'.

R

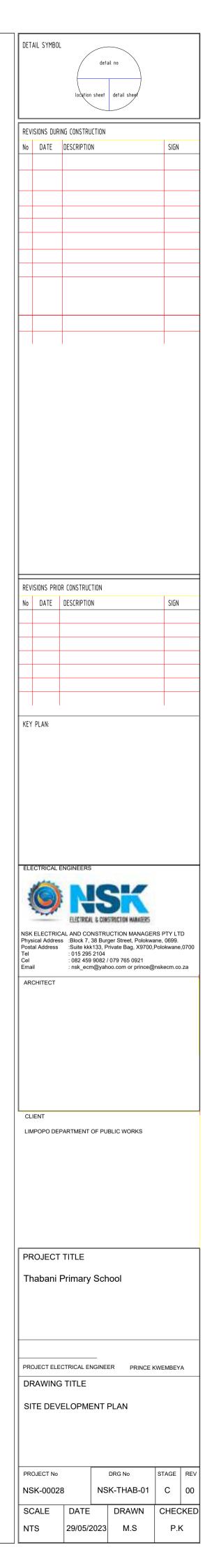
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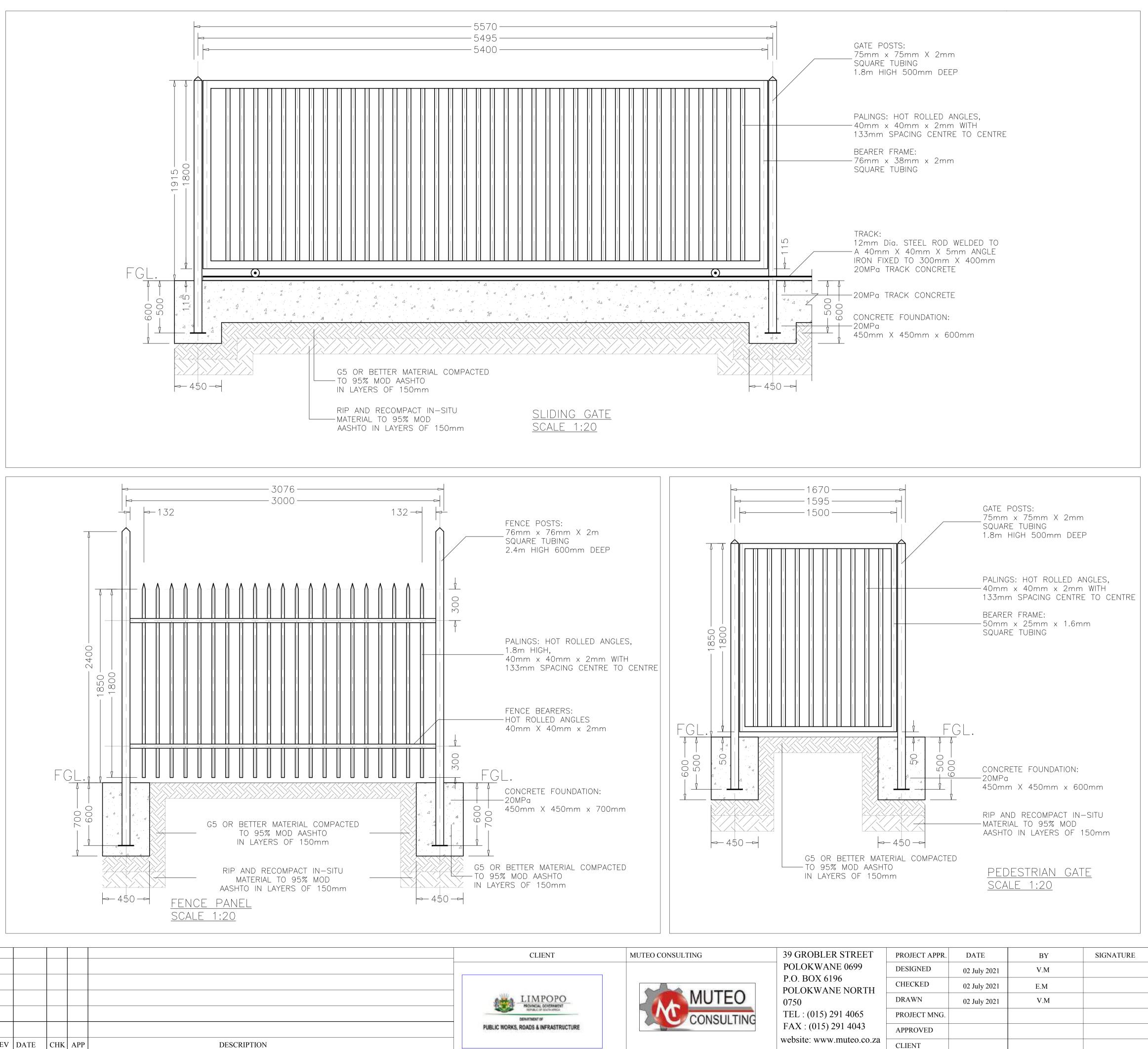
- Cables installation to be 800mm away from road edge and at least 3000mm away from nearest building wall.
   Manholes to be used at road crossing and at cable
- bends of 90 degrees.
  4. PVC sleeves to be used to connect manholes
  5. Switching station to be finalised once ESKOM has defined the bulk power supply philosophy.

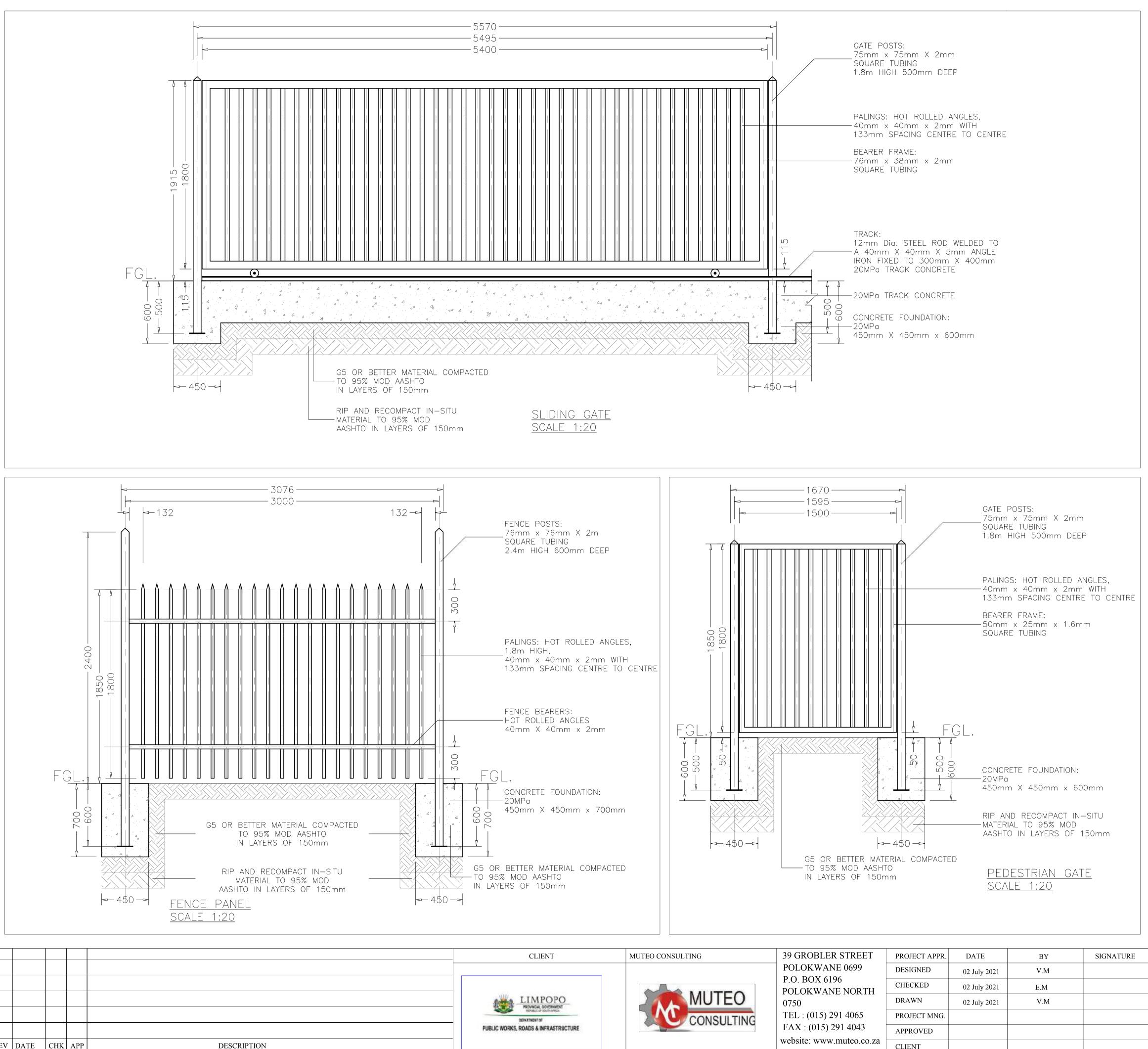
SYMBOL	DESCRIPTION	QUANTITY
$\bigotimes$	16kVA Dedicated Transformer with an associated Meter Box	0
	25mm2 PVC Cu Cable	50m
	16mm2 PVC Cu Cable	315m
	10mm2 PVC Cu Cable	185m
	Kiosk	0

## ELECTRICAL LEGEND









$\square$						CLIENT
						LIMPOPC MOVINCIAL GOVERNMENT
					PUBLIC WORKS	DENATIMENT OF 5, ROADS & INFRASTRU
REV	DATE	СНК	APP	DESCRIPTION		

## <u>NOTES.</u>

<u>Panels: 1.8 x 3m</u>

- 1. Fence bearers:
- $\cdot$  40 x 40 x 2mm angle iron. These are to be placed 300mm from top of paling and 300mm from bottom of paling. (350mm from ground level).
- These are to be welded flash with the back of the post.
- 2. Palings "Devil fork"
- · 21 palings per panel.
- $\cdot$  30 x 30 x 2mm steel angle iron paling 1.8m high.
- Palings to be inserted and firmly welded to the bearers at 133mm centre to centre.
- Top of the paling to provide a "Devil Fork" effect and the bottom will have a dove tail.

3. Posts:

- $\cdot$  76 x 76 x 2 mm steel square tubing with closing pyramid
- caps on top. • Post must 2.4m high and 600mm will planted into concrete footing.

<u>Palisade Gates</u>

- 1. Sliding Gate:
- $\cdot$  5/4 m wide x 1.8 m high. 40 x 40 x 2 mm angle iron palings welded to a 76 x 38x 2mm rectangular tubing bearer frame.
- Palings to be placed at 133 mm apart from each other centre to centre.
- Gate to be provided with 2 x 80mm roller coaster wheels fitted with ball bearing. These are to be fitted 500mm from edge of the gates.
- Gate to be provide with proper closing and guidance mechanism.
- Track is to be 12 mm steel rod welded to a 40 x 40 x 5mm angle iron fixed into a 300 wide x 400 thick x 5m length of the gate (track concrete to engineer's design).
- Gate Post: 75mm x 75mm 2mm steel square tubing post is to be provided on each side of gate opening with closing pyramid caps on top.
- Post to be founded in a concrete footing 450 x 450 x 600 deep. Concrete strength to be 20Mpa (minimum) at 28 days.

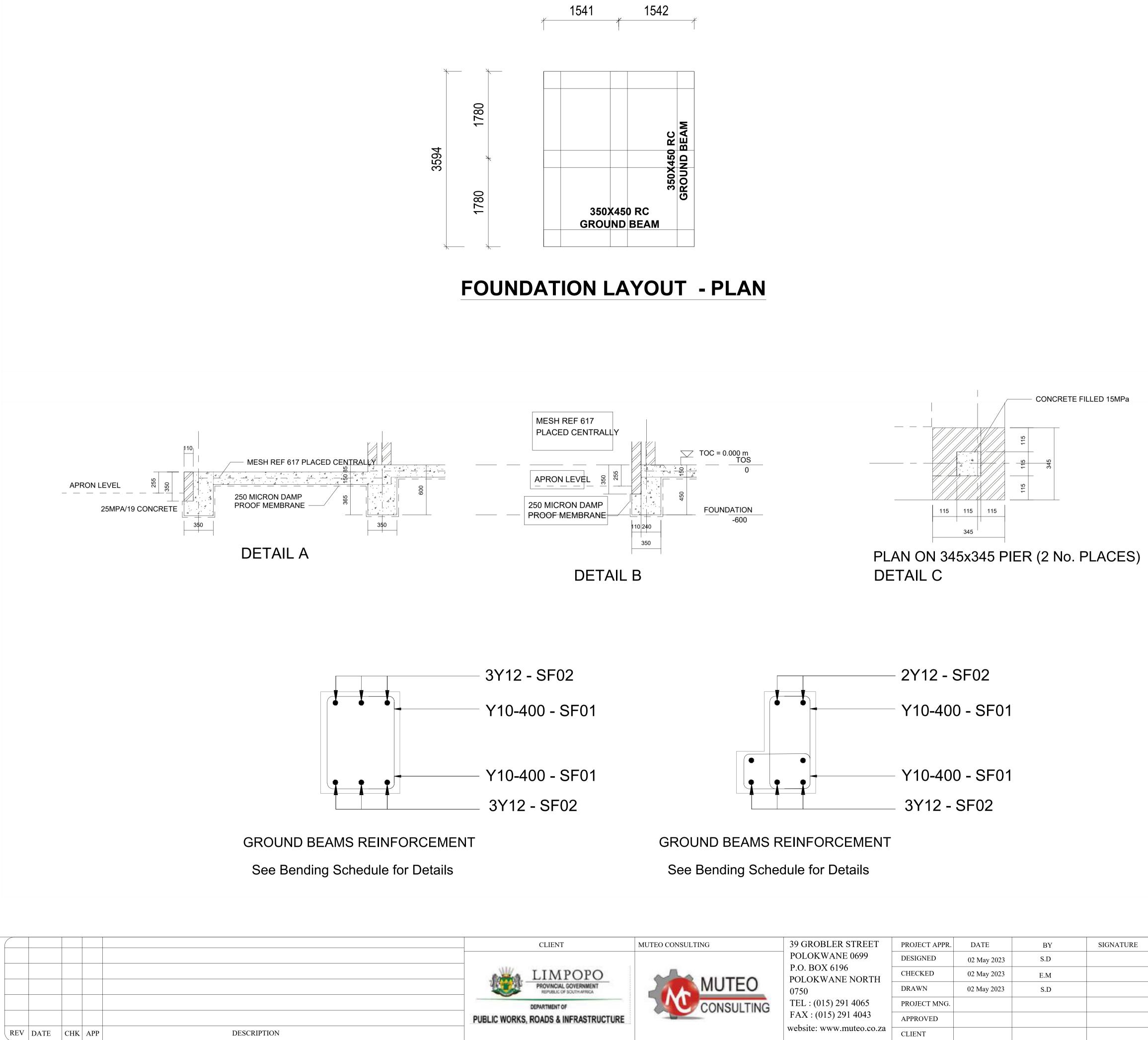
2. Pedestrian gate:

- $\cdot$  1.5 m wide x 1.8 m high. 40 x 40 x 2 mm angle iron palings welded to a minimum 50 x 25 x 1.6mm rectangular tubing bearer frame.
- Palings to be placed at 133 mm apart from each other centre to centre.

## <u>Painting</u>

- · All joints must be smoothed off.
- All Flux, rust, grease and loose material to be removed before painting.
- Apply one coat primer for steel (red oxide), apply one coat universal undercoat for all surfaces, apply one coat Gloss
- enamel (colour as specified by the LPDE).
- No brush painting.

SCAI	LE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
		TITLE	
 DO NOT SCALE IF IN DOUBT ASK.		LDPWRI STORM DAMAGED SCHOO	
PROJEC	Г No.	STEEL PALISADE FENCE DETAIL	S
LDPWRI-PROF/16003B			
 DRG SIZE	A1	DRAWING No. LDPWRI SCHOOLS/B&C/01	REV 0

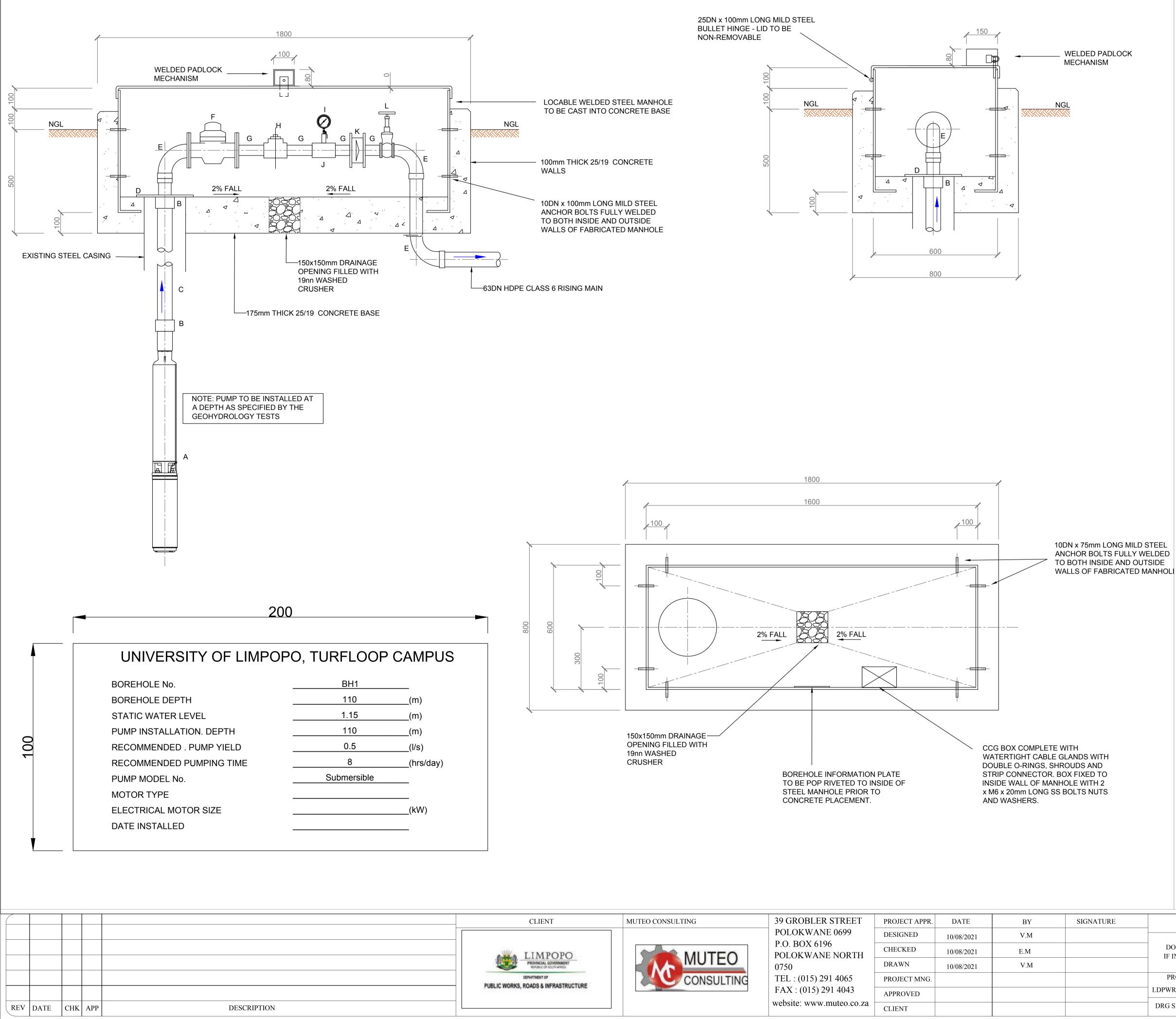


# **ISSUED FOR DISCUSSION**

## CONCRETE NOTES

00	INCILLE INCILO.
1.	ALL CIVIL ENGINEERING WORK TO BE CARRIED OUT IN
0	ACCORDANCE WITH SABS 1200
2.	CONCRETE TO BE "STRENGTH CONCRETE" AS SPECIFIED BELOW ULNESS OTHERWISE NOTED.
	MASS CONCRETE GRADE 10/19
	BLINDING CONCRETE GRADE 10/19 STRUCTURAL CONCRETE GRADE 25/19
3.	250 MICRON PVC SHEETING IN ACCORDANCE WITH SABS
	952 -1985 TYPE C TO BE PROVIDED UNDER ALL GROUND
4.	SLABS. EXPOSED UNFORMED SURFACES TO BE "STEEL FLOAT
4.	FINISH" UNLESS OTHERWISE NOTED.
5.	THE MINIMUM DESIGN BEARING PRESSURE FOR
6.	FOUNDATIONS IS 150MPa UNLESS OTHERWISE NOTED. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY
0.	THE ENFINEER PRIOR TO CASTING OF BLINDING AND TO
	BE KEPT DRY AT ALL TIMES.
CO	NSTRUCTION NOTES:
1.	CONSTRUCTION PROCEDURE, SEQUENCE AND
	POSITIONING OF COSTRUCTION JOINTS TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING THE RAFT.
2.	CONSTRUCTION JOINT PREPARATION: THE SURFACE OF
	THE FIRST CAST CONCRETE FORMING A CONSTRUCTION JOINT SHALL HAVE A LAITANCE REMOVED TO EXPOSE
	THE COARSE AGGREGATE AND A SOLID SURFACE. THIS
	MAY BE FACILITATED BY THE USE OF A SUITABLE
	EXPANDED METAL OR PROPRIETARY STOP END SHUTTER.
3.	RAFT TO BE POWER FLOATED TO JUST SHORT OF BEIG
	POLISHED. METHOD TO BER APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
4.	RAFT TO BE CURED FOR 7 DAYS AFTER CONCRETE
	CASTING I.E KEEP WET OR COVER WITH PLASTIC
	MEMBRANE.
GE	OTECHNICAL CONSIDERATIONS
1.	COGNISANCE HAS BEEN TAKEN OF THE DOLOMITE
1.	CONDITIONS AND THE FOUNDATIONS HAVE BEEN
	ACCORDING TO THE FOLLOWING;
2. 3.	DOLOMITE AREA DESIGNATION - D3 SINKHOLE MAXIMUM SIZE - 5M DIAMETER
5.	SINNIGE MAXIMUM SIZE - SM DIAMETER

	SCAI	LE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE			
			TITLE			
DO NOT SCALE IF IN DOUBT ASK.			GUARDHOUSE BLOCK			
	PROJECT No.		FOUNDATION LAYOUT & DETAIL	S		
LDPWRI-PROF/16003B		F/16003B				
	DRG SIZE	A1	DRAWING No. GUARDHOUSE/RAFT/001	REV 0		

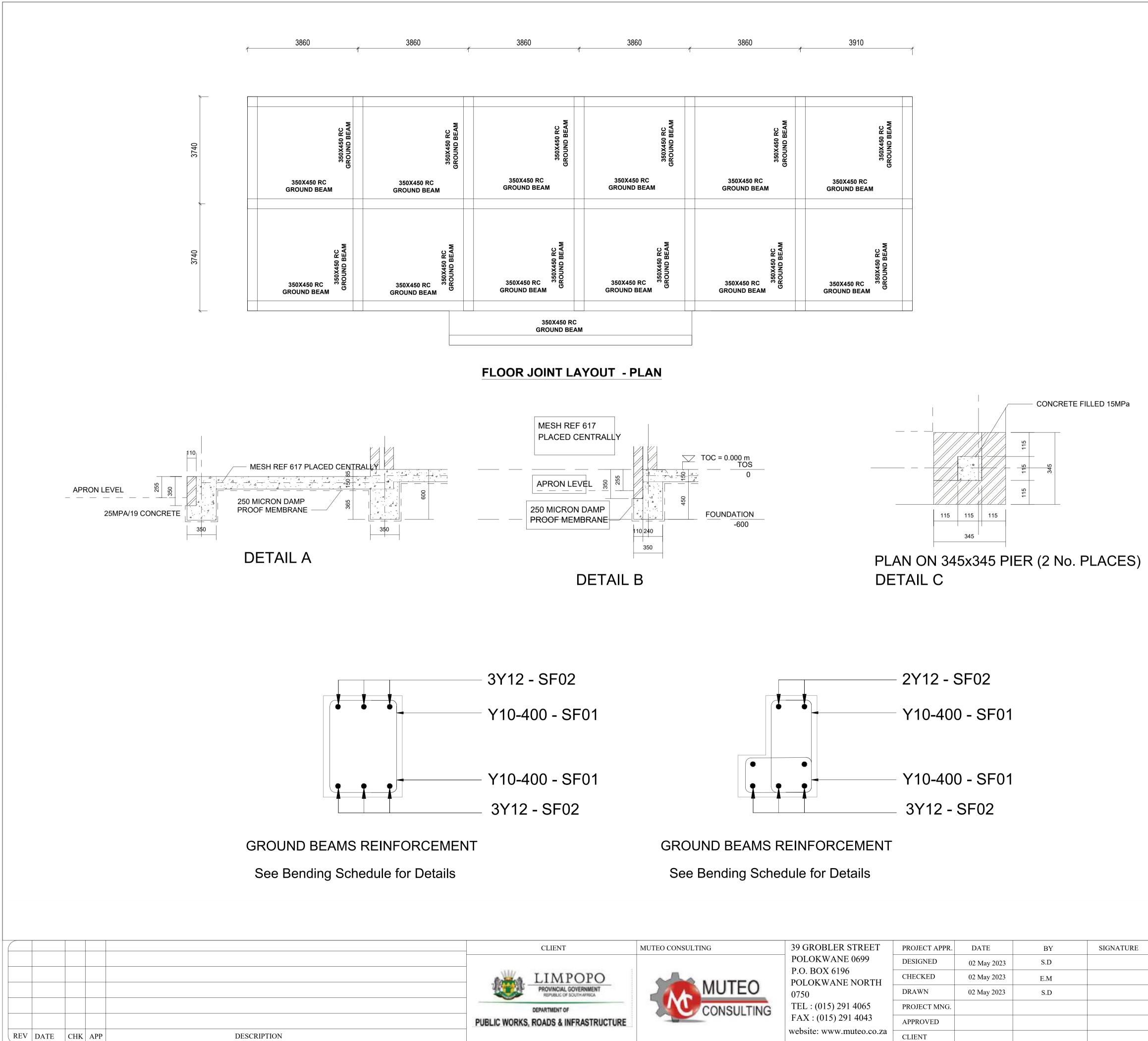


## GENERAL NOTES

- ALL STEEL PIPES AND FITTINGS TO BE HEAVY DUTY HOT DIPPED GALVANIZED WITH A MINIMUM ZINC COATING OF 105 MICRON. ANY PIPES ORDERED WITHOUT THE APPROVAL OF THE ENGINEER WILL BE RECTIFIED AT THE CONTRACTORS OWN COST.
- 2. EACH ITEM IS TO BE CLEARLY MARKED ACCORDING TO THE NUMBERS GIVEN IN THE LIST.
- 3. ALL CONCRETE TO BE 25/19 MPa, AND CAST ON 93% MOD AASHTO COMPACTED IN-SITU SOIL.
- 4. ALL EXPOSED CONCRETE EDGES TO HAVE A 20mm CHAMFER.
- 5. ALL HDPE PIPES TO BE IN ACCORDANCE WITH SABS 4427 SPECIFICATIONS.
- 6. CORROSION PROTECTION:
- 6.1. ALL STEEL ITEMS, INCLUDING THE STEEL CAGE TO BE COATED WITH CORROSION PROTECTION PAINT 6.2. AFTER INSTALLATION ANY CHIPS AND SCRATCHES SHALL BE MADE GOOD ON SITE WITH BRUSH APPLIED GALVANIZED PAINT.

REF.	SCHEDULE OF FITTINGS	SIZE	LENGTH	QTY.
A	PUMP AND MOTOR	-	-	1
в	MALE ADAPTOR			
с	SUBMERSIBLE HDPE PIPE, CLASS 12, 4,1mm WALL THICKNESS, SANS 4427, BOREHOLE TO SURFACE	Ø25	110	1
D	METAL BASE PLATE - DOUBLE CHOKE	Ø280	-	1
E	90 DEGREE ELBOW	Ø65	-	2
F	FLANGED MECHANICAL FLOW METER	Ø65	-	1
G	SCHEDULE 40 GALVANIZED PIPE	Ø65	-	-
н	HEAVY DUTY GALVANISED TEE COMPLETE WITH PLUG FITTED TO BRANCH TO PRESSURE SWITCH ON ELECTRICAL INSTALLATIONS	Ø65	-	1
1	MECHANICAL PRESSURE GAUGE, WIKA 100mm DIAL AND FILLED WITH GLYCERINE, WITH A RANGE FROM 200 TO 1 200KPa, COMPLETE WITH BALL ISOLATING VALVE AND PIPING.	Ø65	-	1
J	HEAVY DUTY GALVANIZED REDUCING TEE FOR PRESSURE GAUGE	Ø65	-	1
к	TILT DISC NON-RETURN VALVE	Ø65	-	1
L	BRASS TYPE ISOLATING VALVE	Ø65	-	1

SCAI	LE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE		
DONOT	COALE	TITLE		
DO NOT SCALE		LDPWRI STORM DAMAGED SCHOOLS		
		BOREHOLE SPECIFICATIONS	3	
PROJECT No.		BOREHOLE OF EOIL IOATION	)	
 LDPWRI-PROF/16003B				
DRG SIZE	A1	DRAWING No. LDPWRI SCHOOLS/B&C/02	REV 0	



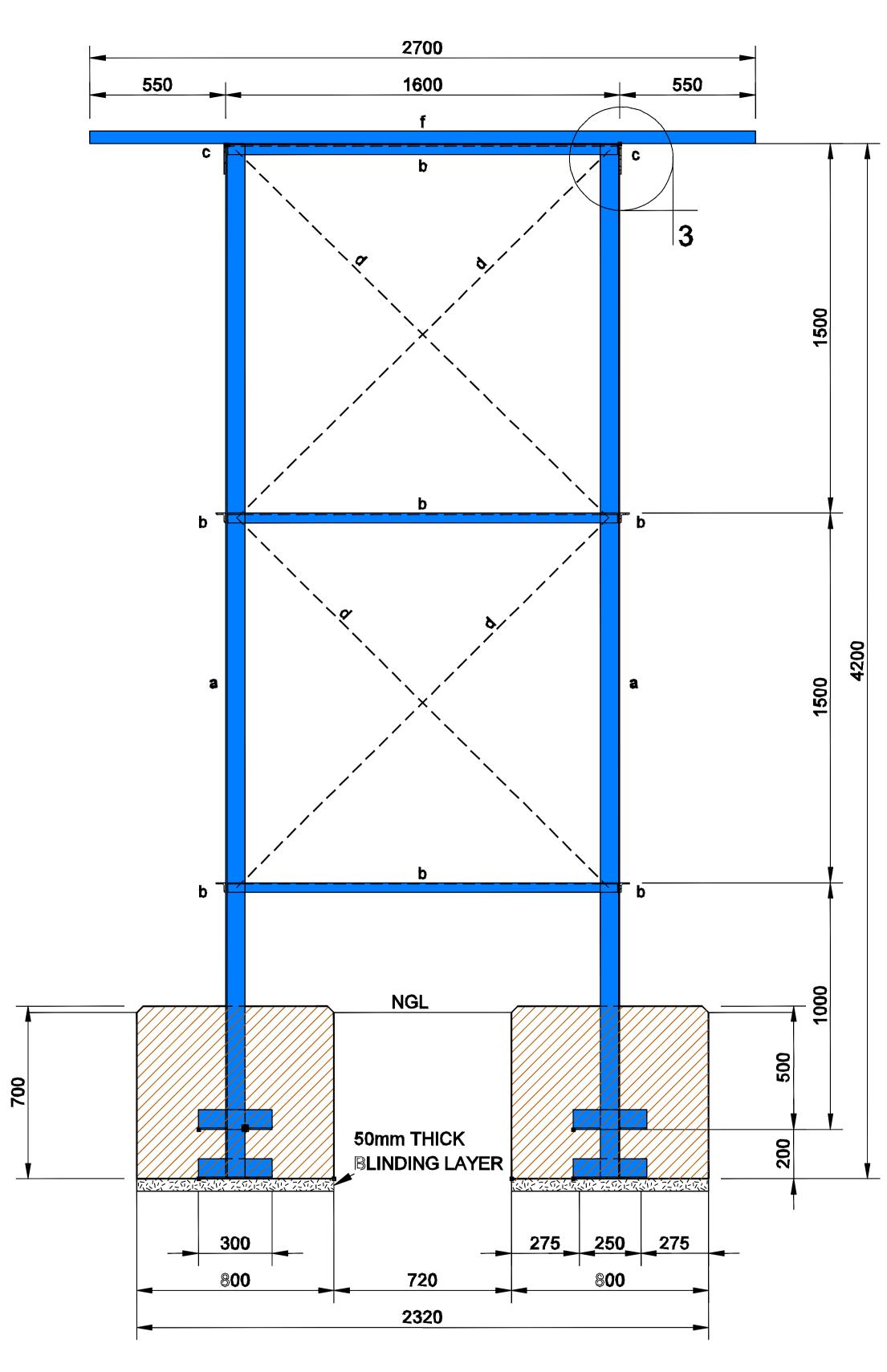
NT	MUTEO CONSULTING	39 GROBLER STREET	PROJECT APPR.	DATE	BY	SIGNATURE	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE
		POLOKWANE 0699	DESIGNED	02 May 2023	S.D			TITLE
APOPO		P.O. BOX 6196 POLOKWANE NORTH	CHECKED	02 May 2023	E.M		DO NOT SCALE IF IN DOUBT ASK.	NUTRISION BLOCK
CIAL GOVERNMENT	MUTEO	0750	DRAWN	02 May 2023	S.D			
NT OF	CONSULTING	TEL : (015) 291 4065	PROJECT MNG.				PROJECT No.	FOUNDATION LAYOUT & DETAILS
& INFRASTRUCTURE		FAX : (015) 291 4043	APPROVED				LDPWRI-PROF/16003B	DRAWING No. REV
		website: www.muteo.co.za	CLIENT				DRG SIZE A1	DRAWING No. REV 0

# **ISSUED FOR DISCUSSION**

## CONCRETE NOTES

00	INCRETE NOTES.
1.	ALL CIVIL ENGINEERING WORK TO BE CARRIED OUT IN
2.	ACCORDANCE WITH SABS 1200 CONCRETE TO BE "STRENGTH CONCRETE" AS SPECIFIED
<b>_</b> .	BELOW ULNESS OTHERWISE NOTED.
	MASS CONCRETE GRADE 10/19 BLINDING CONCRETE GRADE 10/19
	STRUCTURAL CONCRETE GRADE 25/19
3.	250 MICRON PVC SHEETING IN ACCORDANCE WITH SABS 952 -1985 TYPE C TO BE PROVIDED UNDER ALL GROUND
	SLABS.
4.	EXPOSED UNFORMED SURFACES TO BE "STEEL FLOAT
5.	FINISH" UNLESS OTHERWISE NOTED. THE MINIMUM DESIGN BEARING PRESSURE FOR
	FOUNDATIONS IS 150MPa UNLESS OTHERWISE NOTED.
6.	ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE ENFINEER PRIOR TO CASTING OF BLINDING AND TO
	BE KEPT DRY AT ALL TIMES.
CO	NSTRUCTION NOTES:
00	
1.	CONSTRUCTION PROCEDURE, SEQUENCE AND
	POSITIONING OF COSTRUCTION JOINTS TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING THE RAFT.
2.	CONSTRUCTION JOINT PREPARATION: THE SURFACE OF
	THE FIRST CAST CONCRETE FORMING A CONSTRUCTION JOINT SHALL HAVE A LAITANCE REMOVED TO EXPOSE
	THE COARSE AGGREGATE AND A SOLID SURFACE. THIS
	MAY BE FACILITATED BY THE USE OF A SUITABLE EXPANDED METAL OR PROPRIETARY STOP END
	SHUTTER.
3.	RAFT TO BE POWER FLOATED TO JUST SHORT OF BEIG POLISHED. METHOD TO BER APPROVED BY THE
	ENGINEER PRIOR TO IMPLEMENTATION.
4.	RAFT TO BE CURED FOR 7 DAYS AFTER CONCRETE CASTING I.E KEEP WET OR COVER WITH PLASTIC
	MEMBRANE.
	OTECHNICAL CONSIDERATIONS
GL	OTECHNICAL CONSIDERATIONS
1.	COGNISANCE HAS BEEN TAKEN OF THE DOLOMITE
	CONDITIONS AND THE FOUNDATIONS HAVE BEEN ACCORDING TO THE FOLLOWING;
2.	DOLOMITE AREA DESIGNATION - D3
3.	SINKHOLE MAXIMUM SIZE - 5M DIAMETER

<	
<sup>100</sup> 200 200 200 200 200 200 200 200 200	<u>100</u>
	<b>A</b>
$\nabla E_{b}$	1500
a b b a b b c c c c c c c c c c c c c c	1500 4200
NGL           P         Image: Section of the section	200 500 1200
800 720 800	-
SECTION C-C	
	CLIENT
	EIMPC PROVINCIAL GOVE PROVINCIAL GOVE POPULIC WORKS, ROADS & INFRU
REV     DATE     CHK     APP       DESCRIPTION	



# SECTION D-D



# **ISSUED FOR TENDER**

## STRUCTURAL STEEL MEMBERS

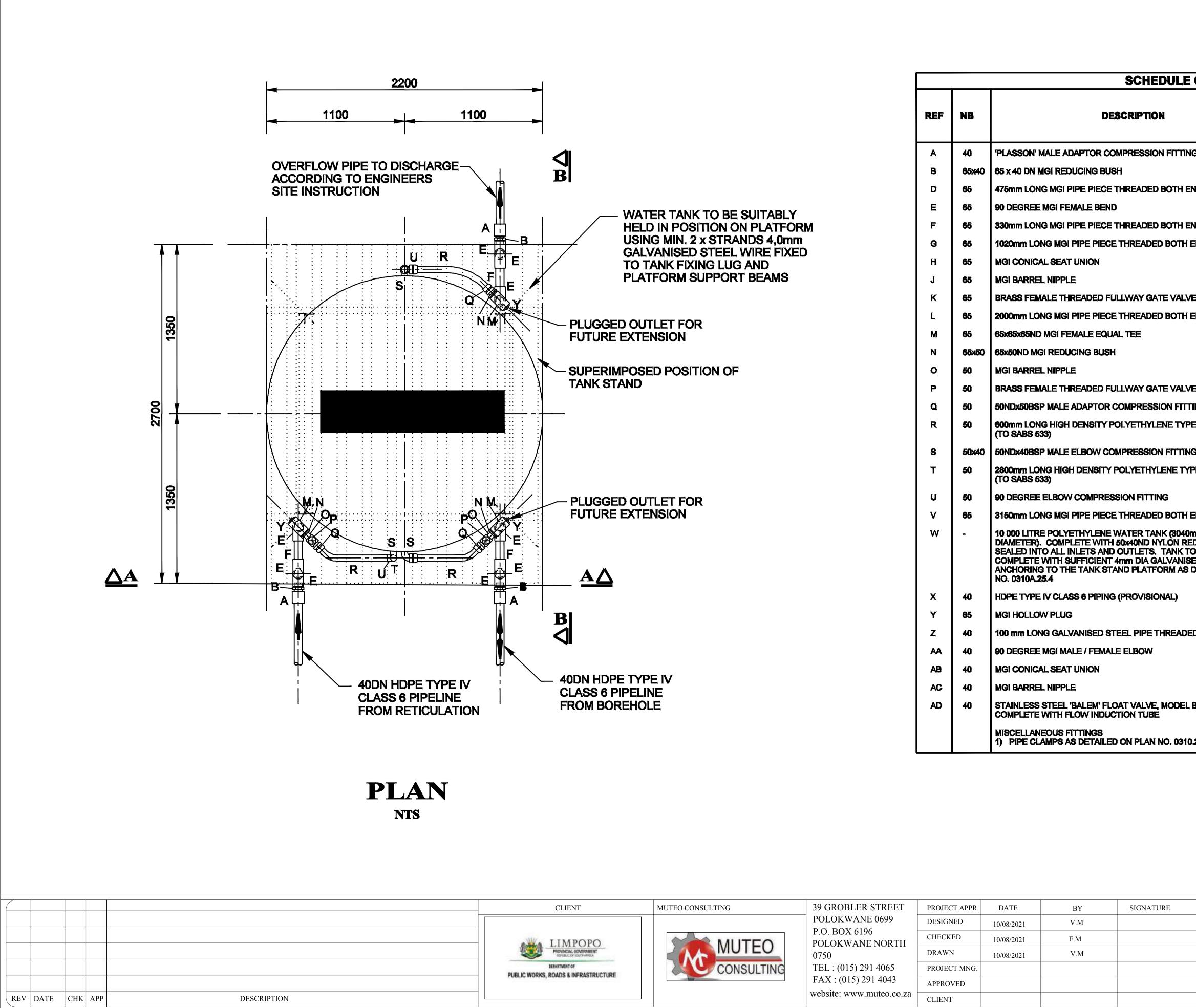
- a Column legs 60x60x5 angle made from commercial steel.
- b Horizontal brace 40x40x5 angle made from commercial steel.
- c Top platform main support beam 150x75x10 angle made from EN10025-2-
- d S355JR steel.
- Cross brace 30×5 flat bar made f - from commercial steel.

f - Top platform secondary support beams – 125x75x20x3 lipped channel made from commercial steel.

NOTES:

- 1. Use two M16 grade 4.8 bolts for the each of the column to platform connections.
- 2. Use one M12 grade 4.8 bolt for all other connections.
- 3. The cold formed lipped channels are to be bolted to the main support angle with two M10 grade 4.8 bolts at both ends of the lipped channel.
- 4. All steel to be coated with SANS approved corrosion protection galvanized paint for engineer's approval.

SCALE		E	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE				
			TITLE				
DO NOT SCALE			LDPWRI STORM DAMAGED SCHOOLS				
-	IF IN DOUBT ASK.						
			PVC TANK STAND DETAILS				
PROJECT No.		No.					
LDPWRI-PROF/16003B		F/16003B					
	DRG SIZE	A1	DRAWING No. LDPWRI SCHOOLS/B&C/03A	REV			
				U /			

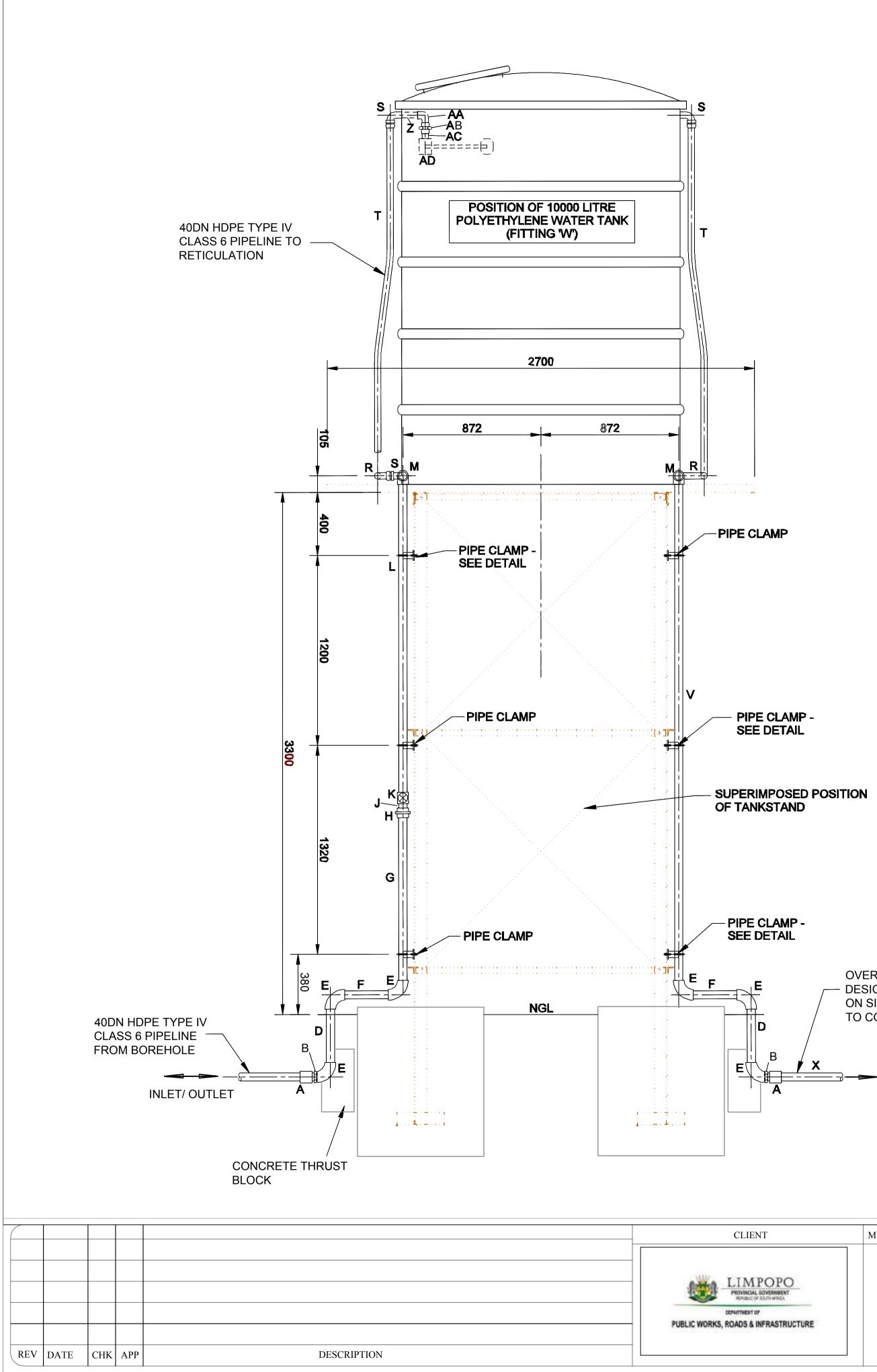


SCHEDULE OF FITTINGS	\$						
		WALL		TREA		ľ	
SCRIPTION		WALL T mm	FLANGE DRILLING	galva Niŝed	EPOXY RESIN PAINT	QTY	
OMPRESSION FITTING						3no	
SH				٠		3no	
THREADED BOTH ENDS 4.	5			*		3no	
D				*		9no	
THREADED BOTH ENDS 4.	5			*		3no	
E THREADED BOTH ENDS 4.	5			*		2no	
				*		2no	
				*		2no	
JLLWAY GATE VALVE						2no	
E THREADED BOTH ENDS 4.	5			*		2no	
AL TEE				*		3no	
4				*		3no	
				*		2no	
ULLWAY GATE VALVE						2no	
COMPRESSION FITTING						3no	
POLYETHYLENE TYPE IV CLASS 6 PIPE						3no	
MPRESSION FITTING						3no	
POLYETHYLENE TYPE IV CLASS 6 PIPE						2no	
SSION FITTING						2no	
E THREADED BOTH ENDS 4.	5			٠		1no	
WATER TANK (3040mm HIGH x 2200mm I 50x40ND NYLON REDUCING BUSHES O OUTLETS, TANK TO BE SUPPLIED 4mm DIA GALVANISED STEEL WIRE FO AND PLATFORM AS DETAILED ON PLAN	DR						
						1set	
3 (PROVISIONAL)				~		12m	
				**		3no	
TEEL PIPE THREADED BOTH ENDS 4.	.5			*		1no	
LE ELBOW				*		1no	
				*		1no	
				*		1no	
OAT VALVE, MODEL BLBS 040 CTION TUBE						<b>1set</b>	
D ON PLAN NO. 0310.25.3						9no	

WATER TANK TO BE SUITABLY HELD IN POSITION ON PLATFORM USING MIN. 2 x STRANDS 4,0mm GALVANISED STEEL WIRE FIXED TO TANK FIXING LUG AND PLATFORM SUPPORT BEAMS	
PLUGGED OUTLET FOR FUTURE EXTENSION	
SUPERIMPOSED POSITION OF TANK STAND	
	;
PLUGGED OUTLET FOR FUTURE EXTENSION	
<u>AΔ</u>	
DN HDPE TYPE IV ASS 6 PIPELINE ROM BOREHOLE	

		SCHEDULE OF FITTINGS					
			WALL	_	TREA	TMENT	
REF	NB	DESCRIPTION	ť	FLANGE DRILLING	galva Nised	EPOXY RESIN PAINT	QTY
A	40	'PLASSON' MALE ADAPTOR COMPRESSION FITTING					3no
В	65x40	<b>65 x 40 DN MGI REDUCING BUSH</b>			٠		3no
D	65	475mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4.5			*		3no
E	65	90 DEGREE MGI FEMALE BEND			*		9no
F	<b>6</b> 5	330mm LONG MGI PIPE PIECE THREADED BOTH END\$ 4.5			*		3no
G	65	1020mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4.5			٠		2no
н	<b>6</b> 5	MGI CONICAL SEAT UNION			*		2no
L	65	MGI BARREL NIPPLE			٠		2no
к	<b>6</b> 5	BRASS FEMALE THREADED FULLWAY GATE VALVE					2no
Ĺ	<b>6</b> 5	2000mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4.5			*		2no
М	65	65x65x65ND MGI FEMALE EQUAL TEE			*		3no
N	65x50	65x50ND MGI REDUCING BUSH			*		3no
0	50	MGI BARREL NIPPLE			*		2no
Р	50	BRASS FEMALE THREADED FULLWAY GATE VALVE					2no
Q	50	50NDx50BSP MALE ADAPTOR COMPRESSION FITTING					3no
R	50	<b>600mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 533)</b>					3no
8	50x40	50NDx40BSP MALE ELBOW COMPRESSION FITTING					3no
Т	50	<b>2800mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 533)</b>					2no
U	50	90 DEGREE ELBOW COMPRESSION FITTING					2no
V	65	3150mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4.5			*		1no
w	-	10 000 LITRE POLYETHYLENE WATER TANK (3040mm HIGH x 2200mm DIAMETER). COMPLETE WITH 50x40ND NYLON REDUCING BUSHES SEALED INTO ALL INLETS AND OUTLETS. TANK TO BE SUPPLIED COMPLETE WITH SUFFICIENT 4mm DIA GALVANISED STEEL WIRE FOR ANCHORING TO THE TANK STAND PLATFORM AS DETAILED ON PLAN NO. 0310A.25.4					1set
x	40	HDPE TYPE IV CLASS 6 PIPING (PROVISIONAL)					12m
Y	65	MGI HOLLOW PLUG			*		3no
z	40	<b>100 mm LONG GALVANISED STEEL PIPE THREADED BOTH ENDS</b> 4.5			*		1no
AA	40	90 DEGREE MGI MALE / FEMALE ELBOW			*		1no
AB	40	MGI CONICAL SEAT UNION			*		1no
AC	40	MGI BARREL NIPPLE			*		1no
AD	40	STAINLESS STEEL 'BALEM' FLOAT VALVE, MODEL BLBS 040 COMPLETE WITH FLOW INDUCTION TUBE					1set
		MISCELLANEOUS FITTINGS 1) PIPE CLAMPS AS DETAILED ON PLAN NO. 0310.25.3					9no

	SCAI	LE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE				
			TITLE				
	DO NOT SCALE IF IN DOUBT ASK. PROJECT No.		LDPWRI STORM DAMAGED SCHO				
			PVC TANK PIPE FITTINGS				
			FVC TAINK FIFE FITTINGS				
	LDPWRI-PROF/16003B						
			DRAWING No.	REV			
	DRG SIZE	A1	LDPWRI SCHOOLS/B&C/03B	0			



	SCHEDULE OF FITTINGS								
			WAL	L	TREA	TMENT			
REF	NB	DESCRIPTION	Ť	DRILLING	galva Nised	EPOXY RESIN PAINT	QTY		
Α	40	'PLASSON' MALE ADAPTOR COMPRESSION FITTING					3no		
В	65x40	65 x 40 DN MGI REDUCING BUSH			*		3no		
D	65	475mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4	5		*		3no		
E	65	90 DEGREE MGI FEMALE BEND			*		<b>9no</b>		
F	65	330mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4	5		*		3no		
G	65	1020mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4	5		٠		2no		
н	65	MGI CONICAL SEAT UNION			*		2no		
ſ	65	MGI BARREL NIPPLE			*		2no		
к	65	BRASS FEMALE THREADED FULLWAY GATE VALVE					2no		
L	<b>6</b> 5	2000mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4	5		*		2no		
М	<b>6</b> 5	65x65x65ND MGI FEMALE EQUAL TEE			*		3no		
Ν	65x50	65x50ND MGI REDUCING BUSH			*		3no		
0	50	MGI BARREL NIPPLE			*		2no		
P	50	BRASS FEMALE THREADED FULLWAY GATE VALVE					2no		
Q	50	50NDx50BSP MALE ADAPTOR COMPRESSION FITTING					3no		
R	50	<b>600mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS &amp; PIPE</b> (TO SABS 533)					3no		
8	50x40	50NDx40BSP MALE ELBOW COMPRESSION FITTING					3no		
Т	50	<b>2800mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 533)</b>					2no		
U	50	90 DEGREE ELBOW COMPRESSION FITTING					<b>2no</b>		
V	65	3150mm LONG MGI PIPE PIECE THREADED BOTH ENDS 4	5		*		1no		
W	-	10 000 LITRE POLYETHYLENE WATER TANK (3040mm HIGH x 2200mm DIAMETER). COMPLETE WITH 50x40ND NYLON REDUCING BUSHES SEALED INTO ALL INLETS AND OUTLETS. TANK TO BE SUPPLIED COMPLETE WITH SUFFICIENT 4mm DIA GALVANISED STEEL WIRE FO ANCHORING TO THE TANK STAND PLATFORM AS DETAILED ON PLAN NO. 0310A.25.4	R				1set		
X	40	HDPE TYPE IV CLASS 6 PIPING (PROVISIONAL)					12m		
Y	65	MGI HOLLOW PLUG			*		3no		
Z	40	<b>100 mm LONG GALVANISED STEEL PIPE THREADED BOTH ENDS</b> 4	5		*		1no		
AA	40	90 DEGREE MGI MALE / FEMALE ELBOW			*		1no		
AB	40	MGI CONICAL SEAT UNION			*		1no		
AC	40	MGI BARREL NIPPLE			*		1no		
AD	40	STAINLESS STEEL 'BALEM' FLOAT VALVE, MODEL BLBS 040 COMPLETE WITH FLOW INDUCTION TUBE					1set		
		MISCELLANEOUS FITTINGS 1) PIPE CLAMPS AS DETAILED ON PLAN NO. 0310.25.3					9no		

CLIENT	MUTEO CONSULTING	39 GROBLER STREET	PROJECT APPR.	DATE	
		POLOKWANE 0699	DESIGNED	10/08/2021	
LIMPOPO	MUTEO	P.O. BOX 6196 POLOKWANE NORTH	CHECKED	10/08/2021	
PROVINCIAL GOVERNMENT REPARCE OF SOUTH WRITEA	INIUTEO	0750	DRAWN	10/08/2021	
WORKS, ROADS & INFRASTRUCTURE	CONSULTING	TEL : (015) 291 4065	PROJECT MNG.		
nonno, norbo a ini noo noo ranz		FAX : (015) 291 4043	APPROVED		
		website: www.muteo.co.za	CLIENT		

OVERFLOW PIPE TO DESIGNATED AREA
 ON SITE - ENGINEER
 TO CONFIRM ON SITE

SIGNATURE

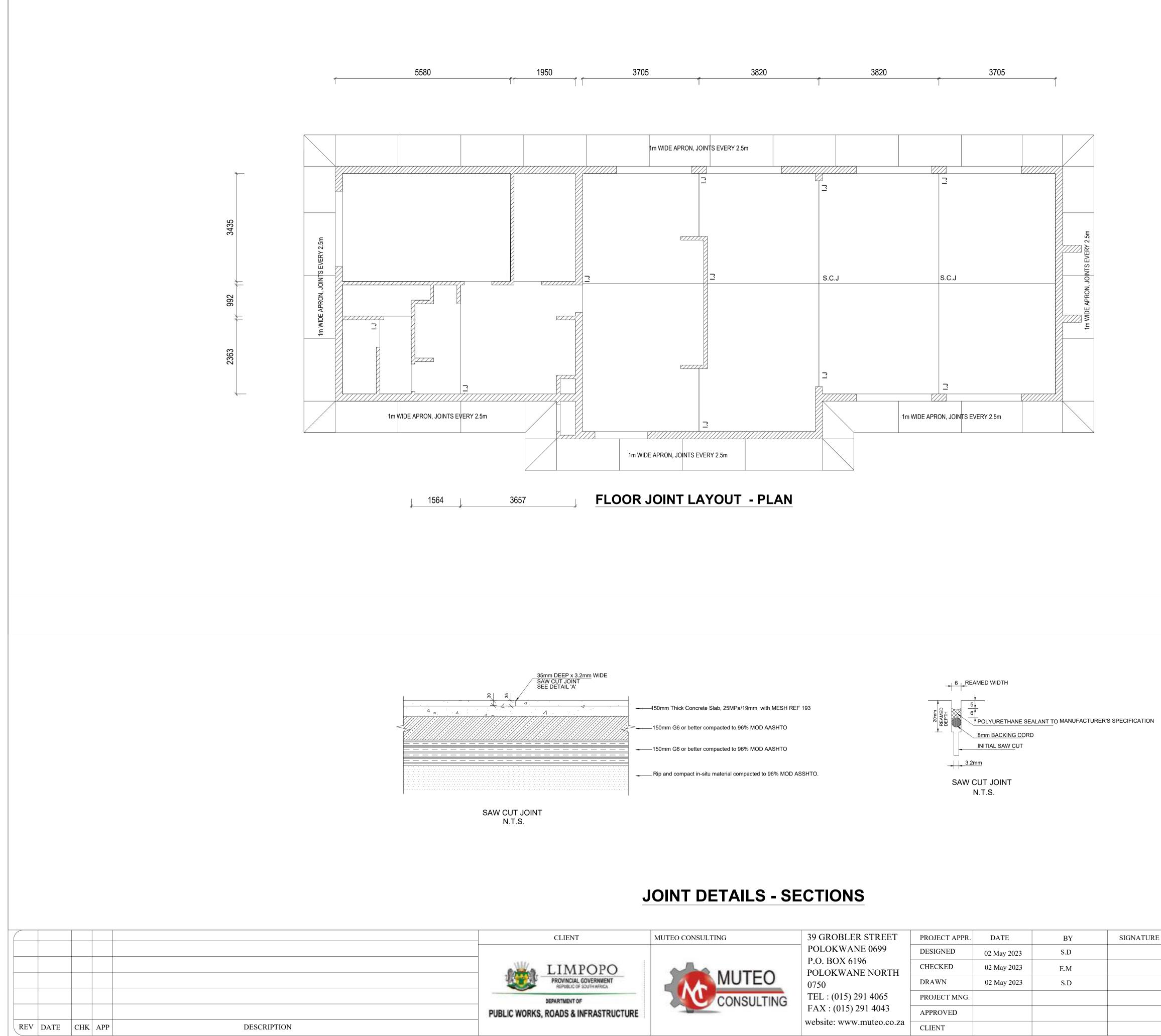
BY

V.M

E.M

V.M

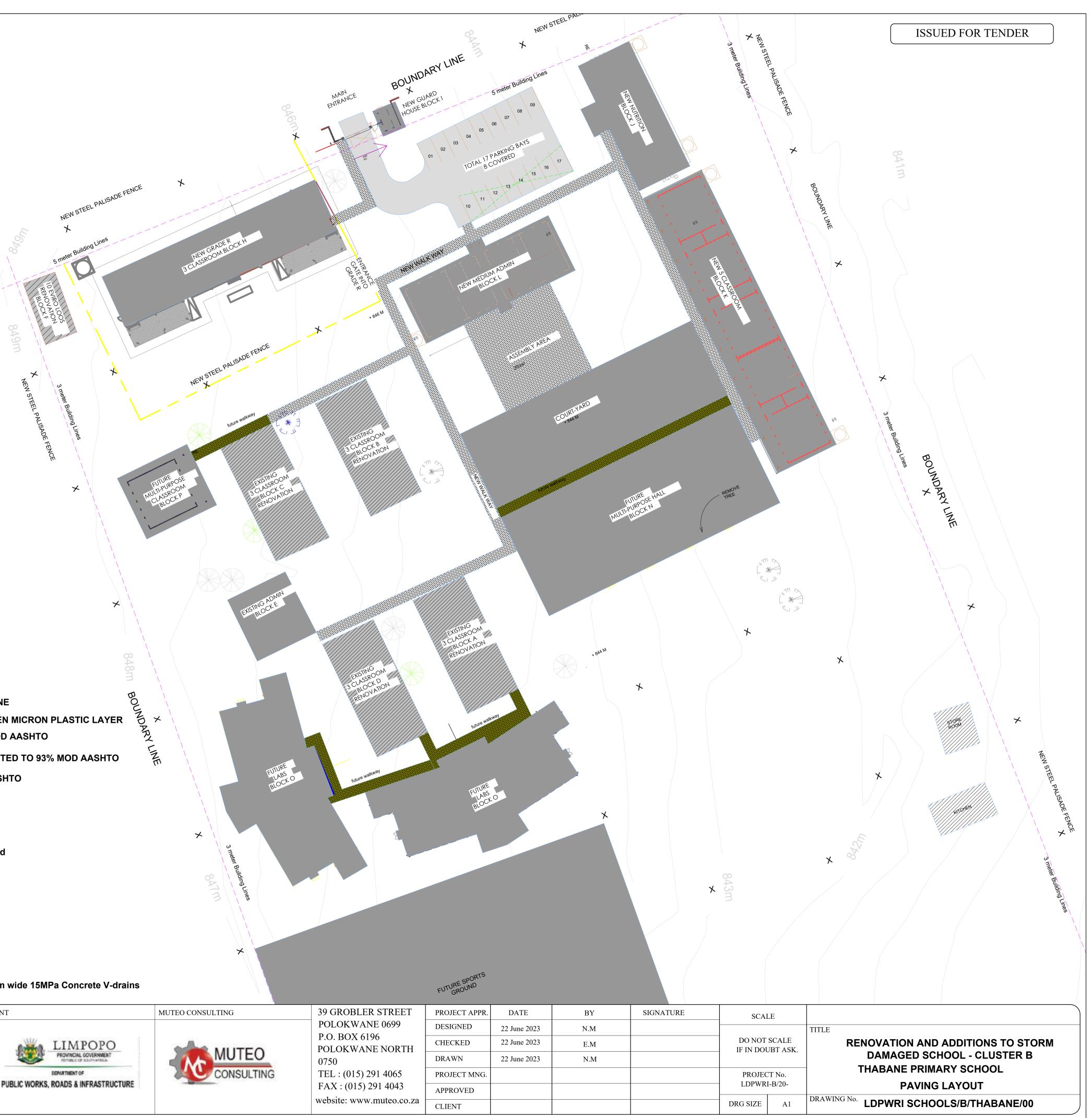
SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE					
	TITLE					
DO NOT SCALE	LDPWRI STORM DAMAGED SCHOOLS					
IF IN DOUBT ASK.						
	PVC TANK PIPE FITTINGS					
PROJECT No.						
DPWRI-PROF/16003B						
DRG SIZE A1	DRAWING No. LDPWRI SCHOOLS/B&C/03C					



GROBLER STREET	PROJECT APPR.	DATE	BY	SIGNATURE
DLOKWANE 0699	DESIGNED	02 May 2023	S.D	
O. BOX 6196	CHECKED	02 May 2023	E.M	
DLOKWANE NORTH /50	DRAWN	02 May 2023	S.D	
EL : (015) 291 4065	PROJECT MNG.			
AX : (015) 291 4043	APPROVED			
bsite: www.muteo.co.za				
	CLIENT			

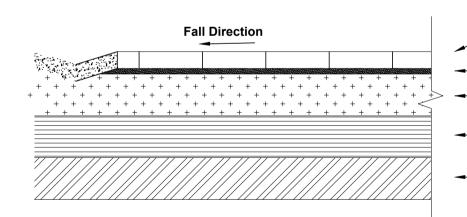
# **ISSUED FOR DISCUSSION**

SCAI	LE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
		TITLE	
 DO NOT SCALE IF IN DOUBT ASK.		NUTRISION BLOCK	
PROJECT No.		FLOOR JOINTS	
 LDPWRI-PROF/16003B			
DRG SIZE	A1	DRAWING No. NUTRISION/RAFT/004	REV 0



## **PAVING DETAILS FOR ACCESS AND PARKING**

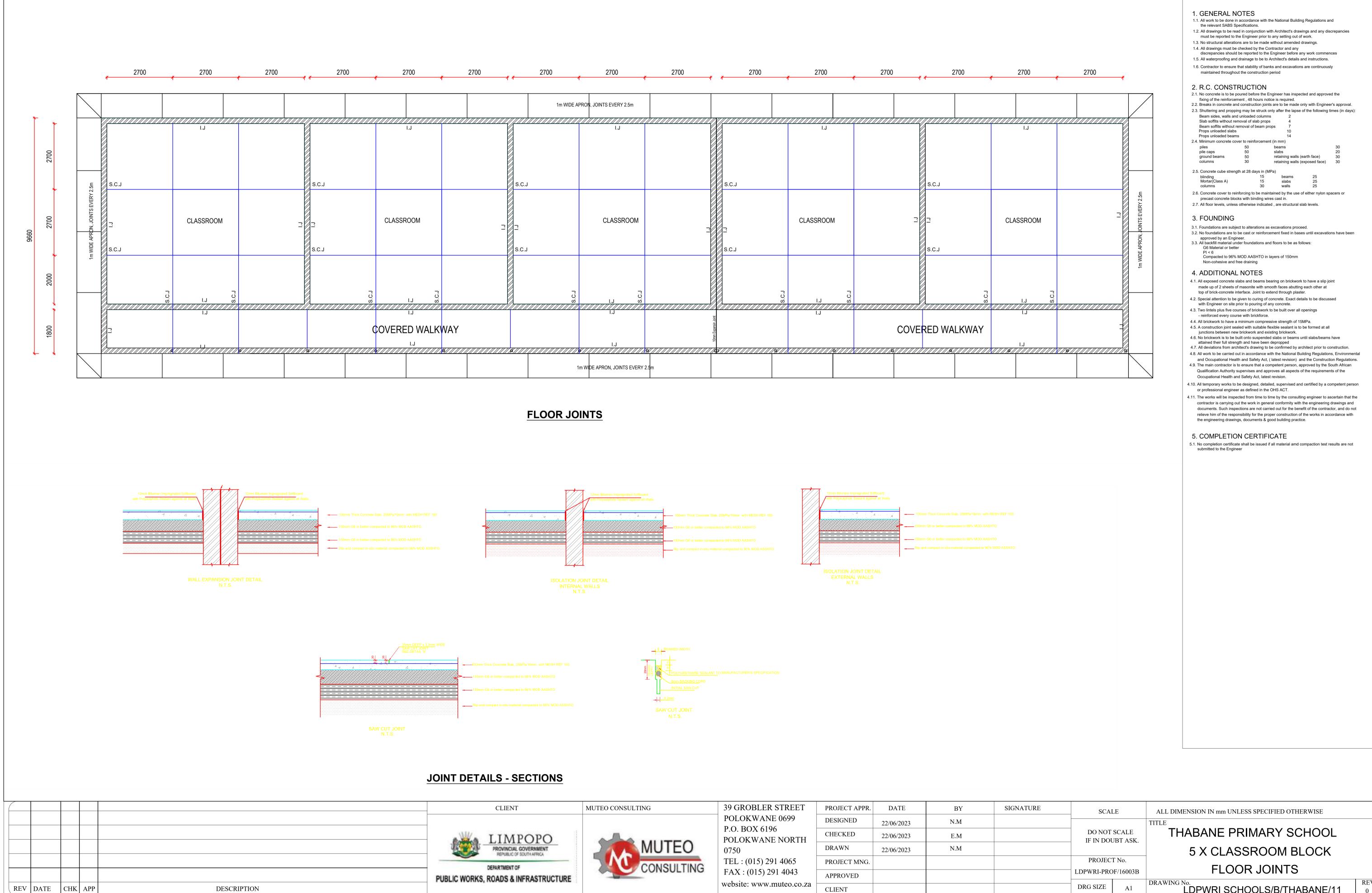
## Concrete V-drain



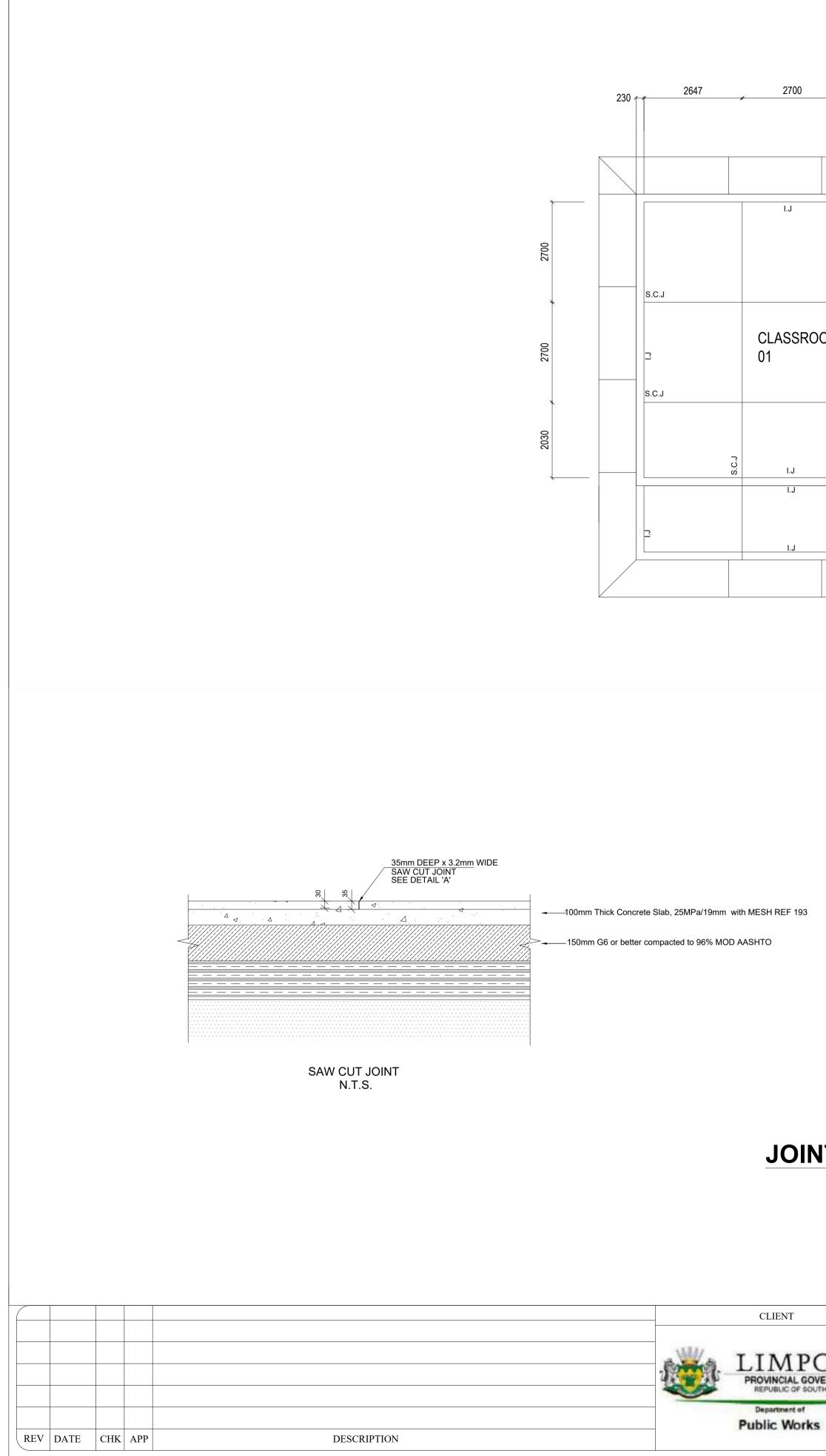
- 60mm INTERLOCKING BLOCKS TYPE SA HERINGBONE
  20mm SAND LAYER UNDERLAIN WITH 250mm GREEN MICRON PLASTIC LAYER
- ------ 150mm C3 GRAVEL LAYER COMPACTED TO 95% MOD AASHTO
- ------ 150mm G5 SOIL STABILISED WITH 2% LIME COMPACTED TO 93% MOD AASHTO
- 150mm G5 ROADBED COMPACTED TO 90% MOD AASHTO
- NOTES: 1. Precast concrete beams to be placed every 15-20m in the paved area to prevent the paving blocks from sliding
  - 2. All free edges to be fitted with precast concrete edge beams

## 3. All edges in the flow ditection to be fitted with 600mm wide 15MPa Concrete V-drains

$\square$					CLIENT
REV (	) DATE	СНК	APP	DESCRIPTION	PUBLIC WORKS, ROADS &

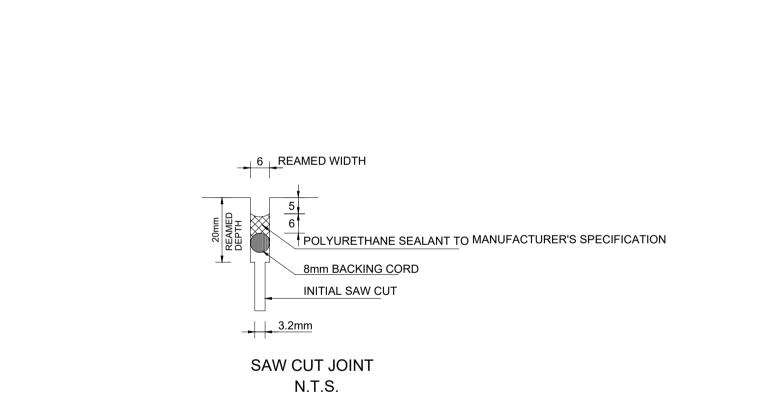


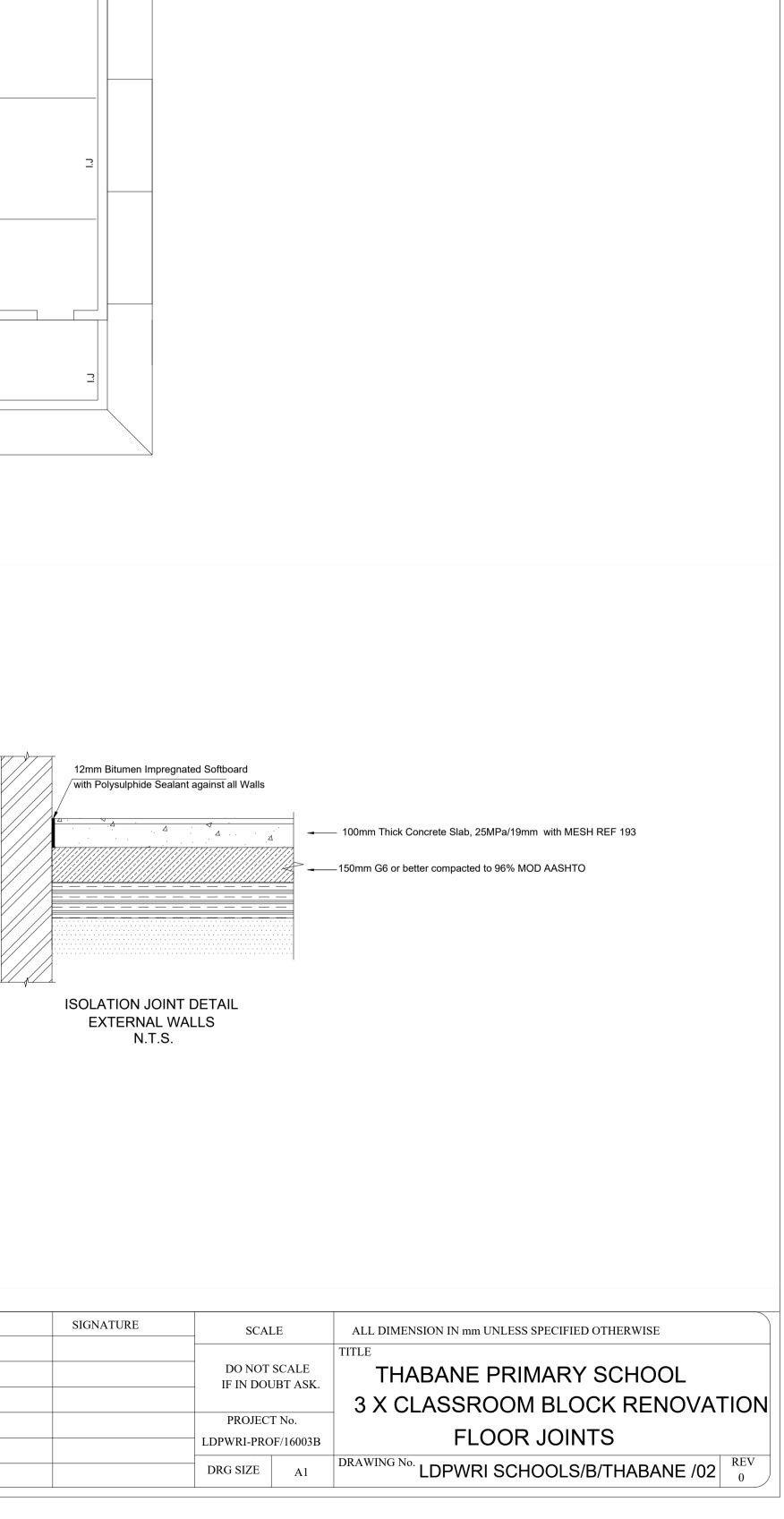
NT	MUTEO CONSULTING	39 GROBLER STREET	PROJECT APPR.	DATE	BY	SIGNATURE	SCA	LE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
(POPO	E MUTEO CONSULTING	POLOKWANE 0699 P.O. BOX 6196DESIGNED22/06/2023N.MPOLOKWANE NORTHCHECKED22/06/2023E.M		DO NOT	' SCALE UBT ASK.	THABANE PRIMARY SCHOOL				
AL GOVERNMENT		0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	DRAWN PROJECT MNG.	22/06/2023	N.M		PROJEC		5 X CLASSROOM BLOCK	
TOF			APPROVED				LDPWRI-PRO		FLOOR JOINTS	REV
			CLIENT				DRG SIZE	A1	DRAWING No. LDPWRI SCHOOLS/B/THABANE/11	0



2700	2678	<i>*</i>	≁ 269:	3	Ť 2654	*	2738 Ť	1	2647 ,	2700	2718	230	) ř
				1m WIDE API	RON, JOINTS EVERY 2.5m								
l.J					I.J					I.J			
			S.C.J					S.C.J					
LASSRO( 1	MC	Ľ	<u>.</u>		CLASSROOM 02		2	L.		CLASSROOM 03		L.I	
			S.C.J					S.C.J					
I.J I.J	C: S: C:			S.C.J	ا.ی دی ا.ی ش ا.ی				S.C.J	ີ ອີ I.J			
l.J			L.		I.J			2		I.J		<u>.</u>	
			1n	NWIDE APRO	N, JOINTS EVERY 2.5m								

## **FLOOR JOINTS**





# **JOINT DETAILS - SECTIONS**

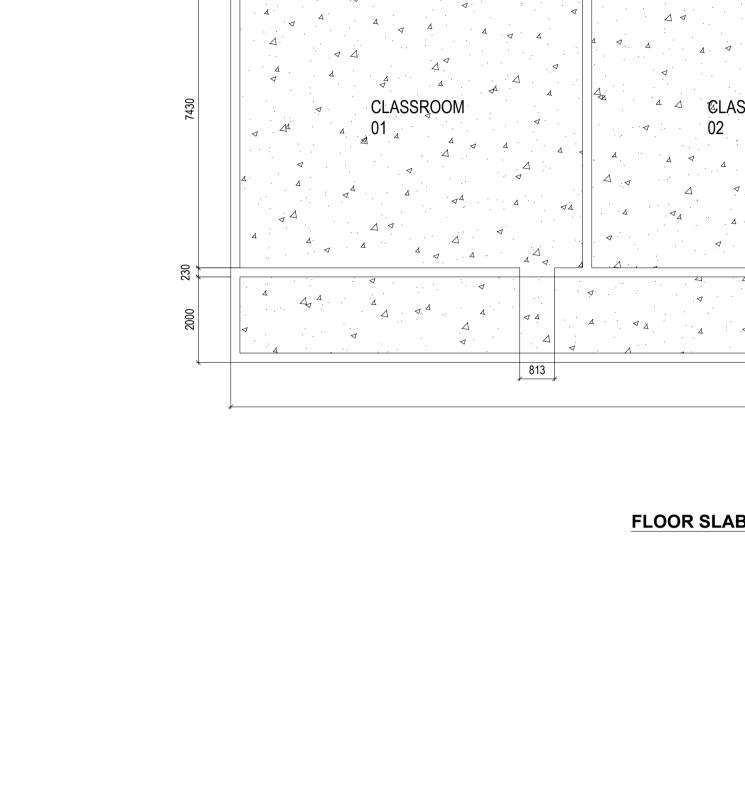
MUTEO CONSULTING

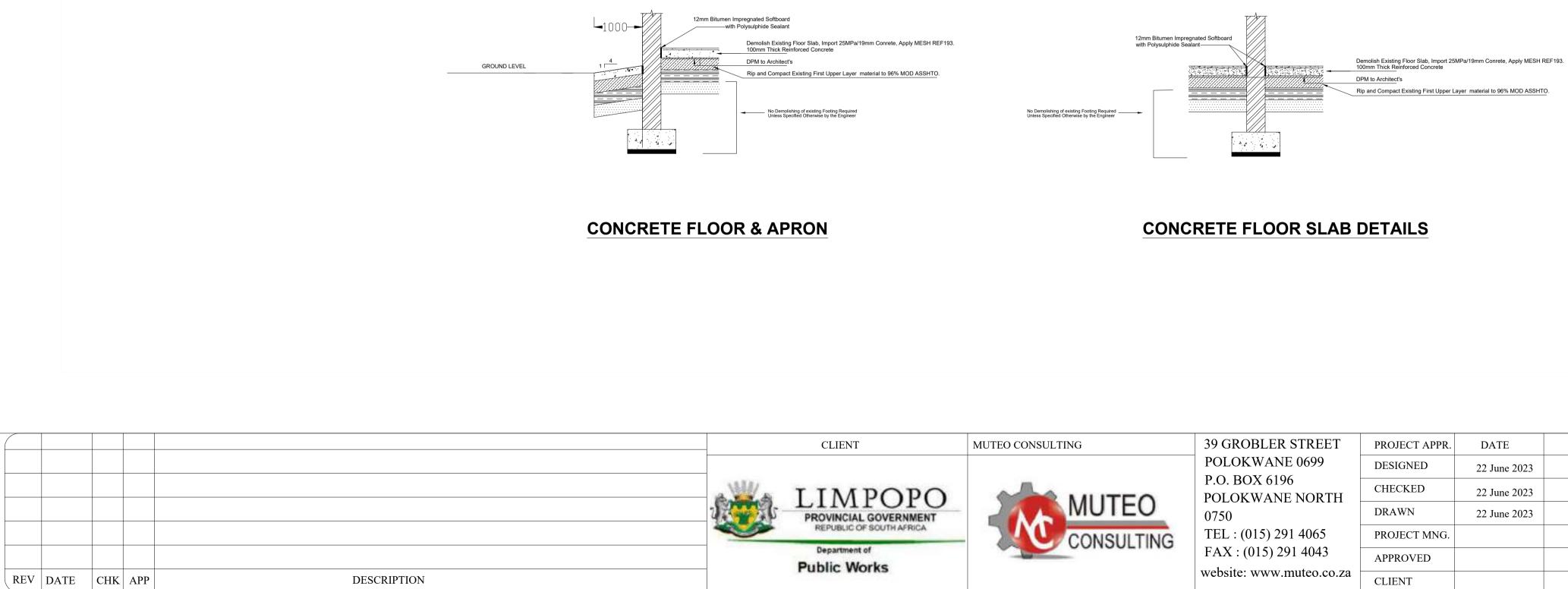
LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA



**39 GROBLER STREET** POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za

	PROJECT APPR.	DATE	BY	SIGNATURE	
	DESIGNED	22/06/2023	N.M		
	CHECKED	22/06/2023	N.M		DO IF II
	DRAWN	22/06/2023	N.M		
-	PROJECT MNG.				PR
-	APPROVED				LDPWR
l i	CLIENT				DRG S





Т	MUTEO CONSULTING	<b>39 GROBLER STREET</b>	PROJECT APPR.	DATE	BY	SIGNATURE
		POLOKWANE 0699	DESIGNED	22 June 2023	N.M	
AL GOVERNMENT	MUTEO	P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043	CHECKED	22 June 2023	E.M	
			DRAWN	22 June 2023	N.M	
OF SOUTH AFRICA	CONSULTING		PROJECT MNG.			
Norks	Controllinito		APPROVED			
ion is		website: www.muteo.co.za	CLIENT			

## FLOOR SLAB LAYOUT - PLAN

A A A A A A A A A A A A A A A A A A A	
	2
25035	13

# **ISSUED FOR TENDER**

1. GENERAL N	NOTES			
1.1. All work to be done the relevant SABS	Specifications.			
	the Engineer prior to a	any setting out of	work.	crepancies
1.3. No structural alterat 1.4. All drawings must b discropancies show		tractor and any	-	2005
1.5. All waterproofing ar	•	•	•	
1.6. Contractor to ensur maintained through	e that stability of banks out the construction pe		s are continuous	ly
2. R.C. CONS 2.1. No concrete is to be fixing of the reinforce			cted and approve	ed the
<ul><li>2.2. Breaks in concrete a</li><li>2.3. Shuttering and prop</li></ul>	-			
Slab soffits without r	nd unloaded columns emoval of slab props	2 4		
Props unloaded slab		10		
Props unloaded bea 2.4. Minimum concrete c	over to reinforcement (	14 (in mm)		
piles pile caps	50 50	beams slabs		30 20
ground beams columns	50 30	retaining walls ( retaining walls (		30 30
2.5. Concrete cube strer blinding	ngth at 28 days in (MPa 15	a) beams	25	
Mortar(Class A) columns	15 30	slabs walls	25 25 25	
2.6. Concrete cover to re	einforcing to be mainta ocks with binding wires	•	of either nylon sp	acers or
2.7. All floor levels, unle	•		lab levels.	
3. FOUNDING				
3.1. Foundations are sub		•		
<ul> <li>3.2. No foundations are tapproved by an Eng</li> <li>3.3. All backfill material u</li> <li>G6 Material or bet</li> </ul>	gineer. Inder foundations and t			ns have been
PI < 6 Compacted to 969 Non-cohesive and	% MOD AASHTO in lay free draining	vers of 150mm		
4. ADDITIONA	L NOTES			
4.1. All exposed concrete made up of 2 sheets	slabs and beams bean of masonite with smoo	•		int
top of brick-concrete 4.2. Special attention to b	interface. Joint to exte e given to curing of co	• •		sed
-	e prior to pouring of any ourses of brickwork to	y concrete.		
4.4. All brickwork to have 4.5. A construction joint s	•	-		
4.6. No brickwork is to be		slabs or beams ι	ıntil slabs/beams	have
attained their full stre 4.7. All deviations from a	ngth and have been de chitect's drawing to be		chitect prior to co	onstruction.
4.9. The main contractor i	alth and Safety Act, ( la	atest revision)a petent person, a	nd the Construct oproved by the S	ion Regulations. South African
Occupational Health	and Safety Act, latest r	evision.	·	
4.10. All temporary works to or professional engine	o be designed, detailed eer as defined in the O	•	d certified by a co	ompetent person
4.11. The works will be insp contractor is carrying	pected from time to tim out the work in genera		• •	
documents. Such ins	pections are not carried	d out for the ben	efit of the contrac	ctor, and do not
	ings, documents & goo			
5. COMPLETI				
5.1. No completion certific	ate shall be issued if a		ompaction test r	esults are not
submitted to the Engi	IICEI			
SCALE	ALL DIMENSION	IN mm UNLESS	SPECIFIED OTH	IERWISE
	TITLE			
DO NOT SCALE IF IN DOUBT ASK.				
PROJECT No.	3 X CLAS	SROOM	BLOCK	RENOVATION

FLOOR SLAB LAYOUT & DETAILS

REV

0

DRAWING No. LDPWRI SCHOOLS/B/THABANE/01

LDPWRI-PROF/16003B

DRG SIZE A1