



**BID NUMBER: LDPWRI-B/20294**

**APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF 03 CLASSROOM BLOCK, REFURBISHMENT OF 14 CLASSROOMS, 32 ENVIROLOOS, MEDIUM ADMINISTRATION BLOCK AND STAFF BLOCK AND CONSTRUCTION OF NUTRITION CENTRE INCLUDING ALL RELATED EXTERNAL WORKS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, 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 7126  
Email : [motsopyen@dpw.limpopo.gov.za](mailto:motsopyen@dpw.limpopo.gov.za)

**Technical: Technical Queries**

Name : Mr K Modjadji  
Tel No. : 083 673 5436  
Email : [ModjadjiM@dpw.limpopo.gov.za](mailto:ModjadjiM@dpw.limpopo.gov.za)

**Name of the Bidder : .....**



## CONTENTS

### 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

- A – Mandatory Requirements
- B – Non- Mandatory Requirements
- C – Special Conditions and Departmental Rights

T2.2 Returnable schedules

### THE CONTRACT

#### Part C1: Agreements and Contract data

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

C2.2 Part 2 - Bills of Quantities

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

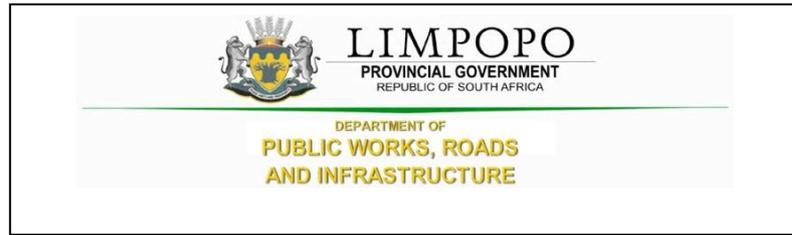
CONTRACT No. LDPWRI-B/20294

**Part C3:     Scope of Works**  
C3.1         Special Notes to Bidders  
C3.2         OHS Specifications

**Part C4     Drawings**

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

CONTRACT No. LDPWRI-B/20294



# **PART T1: TENDERING PROCEDURE**

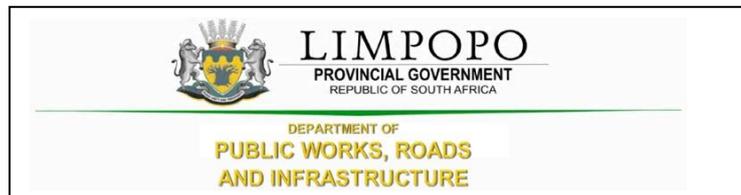
CONTRACT No. LDPWRI-B/20294

## 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 THE DEMOLITION OF 03 CLASSROOM BLOCK, REFURBISHMENT OF 14 CLASSROOMS, 32 ENVIROLOOS, MEDIUM ADMINISTRATION BLOCK AND STAFF BLOCK AND CONSTRUCTION OF NUTRITION CENTRE INCLUDING ALL RELATED EXTERNAL WORKS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE)** for a period of 20 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 Indirect Targeting for Enterprise Development through Construction Works Contracts **Gazette Notice No. 36190 of 25 February 2013** will be applicable on this project

<b>Project Name</b>	APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF 03 CLASSROOM BLOCK, REFURBISHMENT OF 14 CLASSROOMS, 32 ENVIROLOOS, MEDIUM ADMINISTRATION BLOCK AND STAFF BLOCK AND CONSTRUCTION OF NUTRITION CENTRE INCLUDING ALL RELATED EXTERNAL WORKS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR A PERIOD OF 20 MONTHS	
<b>Tender Number</b>	LDPWRI- B/20294	
<b>Tender documents availability</b>	Limpopo Department of Public Works, Roads and Infrastructure website	
<b>Address for submission of tenders</b>	DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.	
<b>Closing date of the tender</b>	<b>As per Tender invite</b>	
<b>Closing time of the tender</b>	<b>As per Tender invite</b>	
<b>Compulsory briefing meeting</b> ( <i>Tenderers must sign the attendance register in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance register</i> )	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
	Meeting venue	<b>As per Tender invite</b>
	Date	<b>As per Tender invite</b>
	Time:	<b>As per Tender invite</b>
<b>Evaluation criteria</b>	<ol style="list-style-type: none"> <li>1. Compliance with mandatory or compulsory requirements</li> <li>2. Risk assessment on current projects</li> <li>3. Price</li> <li>4. Preference</li> </ol>	
<b>Mandatory or Compulsory Requirements</b> ( <i>failure to submit or comply with these requirements will lead to automatic disqualification</i> )	Only tenderers who are appointed on category A 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	
	Completed and signed Form of Offer	
	Priced Bills of Quantities	
	Record of addenda to tender documents	
	Proposed amendments and qualifications	
	Declaration on the status of Administration compliance	
	CIDB grading certificate (Valid CIDB)	
	Declaration of current projects	



## T1.2 Tender Data

Clause number	Tender Data
	<p>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 <a href="http://www.cidb.org.za">www.cidb.org.za</a>) which are reproduced without amendment or alteration for the convenience of tenderers as an Annexure to this Tender Data.</p> <p>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.</p> <p>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 <b>No. 36190 of 25 February 2013</b>. In this case, contractor shall provide a <b>minimum Contract Participation Goal (CPG) of 5%</b> of the total project value and develop targeted enterprises stated under C3 of this document.</p> <p>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:</p>
C.1.1	The Employer is the Department of Public Works, Roads and Infrastructure

C.1.2	<p><b>The Tender</b>  <b>Part T1: Tendering procedures</b>  T1.1 Tender notice and invitation to tender  T1.2 Tender data</p> <p><b>Part T2: Returnable documents</b>  T2.1 List of returnable documents  T2.2 Returnable schedules</p> <p><b>The Contract Part C1: Agreements and contract data</b>  C1.1 Form of offer and acceptance  C1.2 Contract data  C1.3 Joint Venture Agreement (If Applicable)</p> <p><b>The Contract Part C2: Pricing data</b>  C2.1 Pricing instructions  C2.2 Bills of Quantities</p> <p><b>Part 3: Scope of work</b>  C3.1 Special Notes to Bidders  C3.2 OHS Specifications</p> <p><b>Part 4: Site information</b>  C4 Drawings</p>
C.1.4	<p>The employer's representative is:</p> <p>Name : Mr K Modjadji  Tel No. : 083 673 5436  Email : <a href="mailto:ModjadjiM@dpw.limpopo.gov.za">ModjadjiM@dpw.limpopo.gov.za</a></p> <p>However, all communications related to this bid should be directed to the persons indicated under Enquires on this tender document.</p> <p>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.</p>
C.1.5	<p>The employer reserve to cancel the tender prior to the award of the tender.</p>
C1.6.2	<p>A competitive negotiation procedure will not be followed.</p>
C1.6.3	<p>A two-stage system will not be followed.</p>
C.2.1	<p><b>Eligibility in respect of CIDB grading</b></p> <p>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.</p>
C2.2	<p><b>Cost of tendering</b></p> <p>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.</p>

C.2.7	<p><b>Compulsory site briefing</b></p> <p>A compulsory briefing meeting will be held <b>as per Tender invite</b></p> <p>Failure to attend the site briefing will result in the bidders not being considered for the project</p> <p>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.</p>
C.2.11	<p><b>Alterations to the documents</b></p> <p>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</p>
C.2.12	<p><b>Alternative tender offer</b></p> <p>No alternative tender offer is permitted in this tender.</p>
C.2.13.2	<p><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-erasable black ink (Black pen)</b></p>
C.2.13.3	<p>Parts of each tender offer communicated on paper shall be submitted as an original</p>
C.2.13.4	<p>The tender shall be signed by a person duly authorized to do so.</p>
C.2.13.5	<p>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:</p> <p><b>Location of tender box: DEPARTMENT OF PUBLIC WORKS, ROADS &amp; INFRASTRUCTURE.</b> <b>Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699</b> <b>Identification details:</b> Sealed Tender with Tender reference number, Title of Tender and the closing date and time of the tender.</p>
C.2.15.1	<p>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.</p>
C.2.16.1	<p>The tender offer validity period is <b>120 days</b>.</p>
C.2.16.2	<p>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).</p>
C.3.1	<p>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:</p> <ul style="list-style-type: none"> <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>

	<p><b>CIDB Grading Certificate</b></p> <p>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.</p> <p><b>Letter of Good Standing</b></p> <p>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.</p>
C3.2	<p>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.</p>
C.3.4.1	<p>Tenders will <b>not</b> be opened immediately after the closing time for tenders.</p>
C.3.11	<p>The tenderers will be evaluated in four stages</p> <ul style="list-style-type: none"> <li>(i) Stage 1: Compliance with mandatory requirements as stated in Part T1.1</li> <li>(ii) Stage 2: Risk assessment on current projects</li> <li>(iii) Stage 3: Price</li> <li>(iv) Stage 4: Preference</li> </ul> <p>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&amp;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.</p> <p>The award will only be issued to contractors with valid Tax Clearance certificates, active CIDB grading and the contractor who meets all the legislative requirement – this shall be verified by SCM in line with the departmental SCM Policy.</p> <p>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></p> <ul style="list-style-type: none"> <li>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.</li> <li>b) Stage 2: Risk assessment on current projects</li> </ul> <p>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 will therefore not be appointed.</p>

**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:

$$P = A * \left(1 - \frac{(P_o - P_m)}{P_m}\right)$$

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

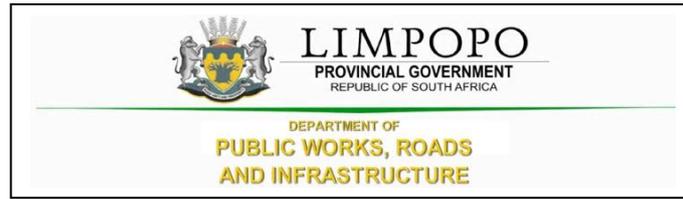
$P_m$  is the lowest Comparative bid price

$P_o$  is the comparative price under consideration

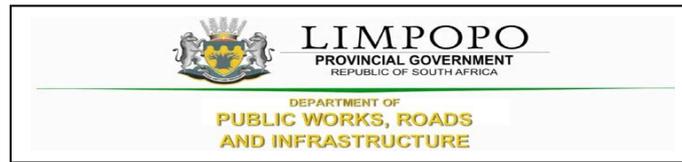
- b)  $N_P$  is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

CONTRACT No. LDPWRI-B/20294



## **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 or 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	<b>N.B:</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 a) A Title deed, Letter from a Traditional Authority or Municipal Statement which must not be older than three (3) months; or b) A Formal Lease Agreement together with Lessor's Municipal Account or Letter from Traditional Authority
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

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

CONTRACT No. LDPWRI-B/20294

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 or 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.

I.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 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 Quotation/Tender.

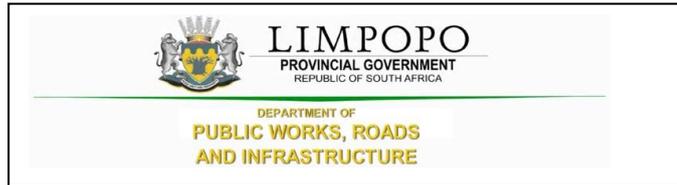
1.12 Quotations/Tenders received after the closing date and time will not be accepted for consideration.

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

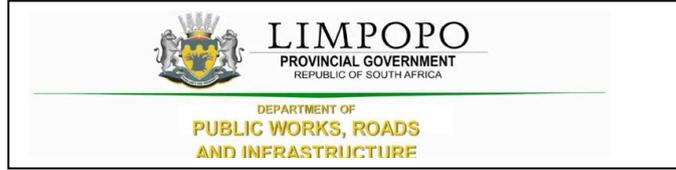


## T 2.2: RETURNABLE SCHEDULE

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

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

CONTRACT No. LDPWRI-B/20294



## 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.

.....

.....

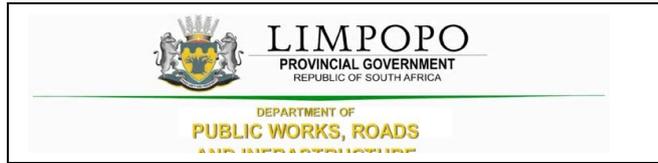
.....

.....

Signed ..... Date \_\_\_\_\_

Name ..... Position \_\_\_\_\_

*Enterprise* .....



## Record of Addenda to tender documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_

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

Signed

.....

Date

.....

Name

.....

Position

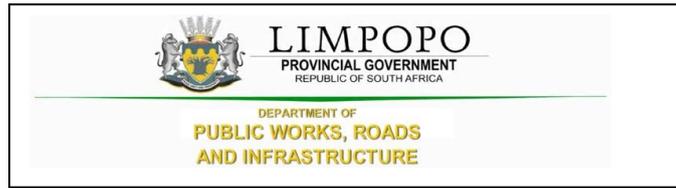
.....

*Tenderer*

.....

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

CONTRACT No. LDPWRI-B/20294



**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**

<b>BID NUMBER:</b>	<b>LDPWRI-B/20294</b>	<b>CLOSING DATE</b>	<b>As per Tender Advert</b>	<b>CLOSING TIME:</b>	<b>As per Tender Advert</b>
--------------------	-----------------------	---------------------	-----------------------------	----------------------	-----------------------------

**DESCRIPTION** **DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL**

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE.

Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.

**BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO**

<b>CONTACT PERSON</b>	Mr. NJ Motsopye				
<b>TELEPHONE NUMBER</b>	0152847126	<b>E-MAIL ADDRESS</b>		motsopyen@dpw.limpopo.gov.za	
<b>CONTACT PERSON (TECHNICAL)</b>	Mr. K Modjadji				
<b>TELEPHONE NUMBER</b>	083 673 5436	<b>E-MAIL ADDRESS</b>		ModjadjiM@dpw.limpopo.gov.za	

**SUPPLIER INFORMATION**

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

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

**QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS**

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	<input type="checkbox"/> YES <input type="checkbox"/> NO

**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.**

CONTRACT No. LDPWRI-B/20294

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

<b>1. BID SUBMISSION:</b>
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. <b>ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</b>
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. <b>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM.</b>
<b>2. TAX COMPLIANCE REQUIREMENTS</b>
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: .....

## BIDDER'S DISCLOSURE

### 1. PURPOSE OF THE FORM

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

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

### 2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>2</sup> in the enterprise,

employed by the state?

**YES/NO**

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

Full Name	Identity Number	Name of State institution

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

2.2.1 If so, furnish particulars:

.....  
.....

<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/20294

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 consortium<sup>3</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting

<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.

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

CONTRACT No. LDPWRI-B/20294

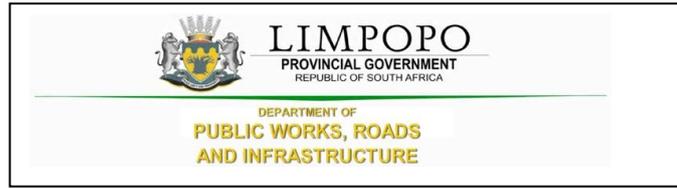
business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

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



## 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/20294

**1.4 To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	<b>POINTS</b>
<b>PRICE</b>	80
<b>SPECIFIC GOALS</b>	20
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

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).

### 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:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \mathbf{Ps} = \mathbf{80} \left( \mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) & \mathbf{or} & \mathbf{Ps} = \mathbf{90} \left( \mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) \end{array}$$

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:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \mathbf{Ps} = \mathbf{80} \left( \mathbf{1} + \frac{\mathbf{Pt} - \mathbf{Pmax}}{\mathbf{Pmax}} \right) & \mathbf{or} & \mathbf{Ps} = \mathbf{90} \left( \mathbf{1} + \frac{\mathbf{Pt} - \mathbf{Pmax}}{\mathbf{Pmax}} \right) \end{array}$$

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 to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,  
 then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

**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**

4.4. Name of company/firm.....

4.5. Company registration number: .....

4.6. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

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:** .....

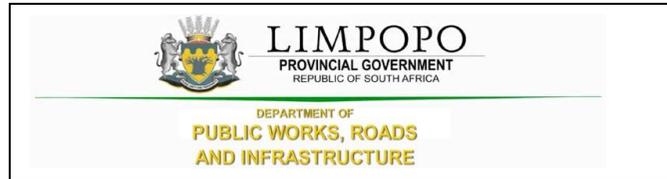
**DATE:** .....

**ADDRESS:** .....

.....

.....

.....



**DECLARATION OF CURRENT PROJECTS**

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

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

*If no projects at the moment the bidder must indicate/write on this table.*

*Misrepresentation of facts will render your bid non-responsive.*

**Table 1 List of current projects executed by the bidder**

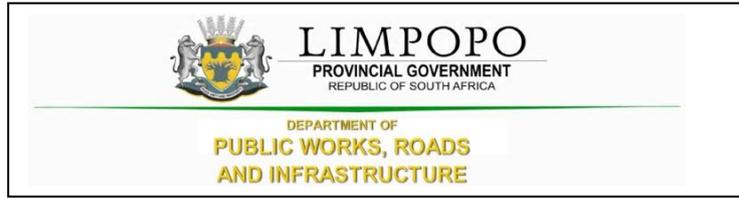
1. Do you have the current projects being executed Yes/No? (circle the correct answer)
2. Please note that it is compulsory to answer the question above and if the answer is yes, complete the table below. Failure by the service provider/bidder to answer the question above or complete the table below will render their proposal not responsive and will not be considered.

Project Description	Project Value	Start date	Planned end date	Client Name	Contact Person number


Signed \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_

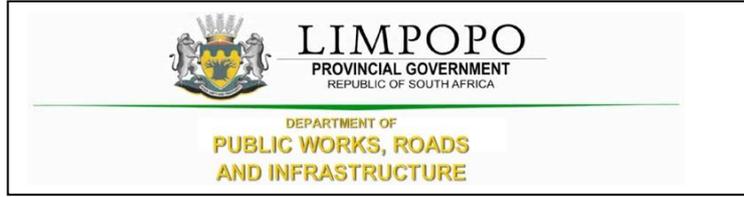
*Enterprise* \_\_\_\_\_



# 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:

**DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, 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 .....

    Details .....

.....

.....

.....

3 Subject .....

    Details .....

.....

.....

.....

4 Subject .....

    Details .....

.....

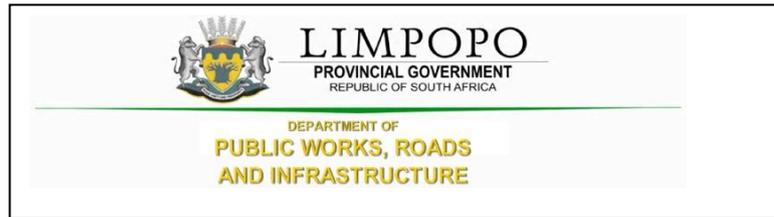
.....

.....

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.

.....



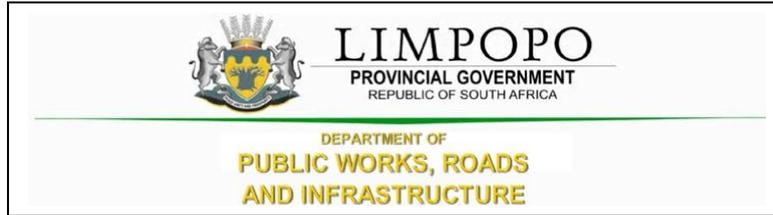
## C2.1 CONTRACT DATA

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**

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES NOTES</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>NOTES</u></b></p> <p>i) The agreement is based on the JBCC Principal Building Agreement (version 4.1). The additions, deletions and alterations to the JBCC PBA and the <b><i>Principal Building Agreement: Contract Data</i></b> and these documents have been incorporated in the Contract section of this document. The tenderer is deemed to have referred to these documents for the full and meaning of each clause. The clauses are referred to by the number and heading only. Where standard clauses or options are not applicable to the contract such notifications or corrections 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".</p> <p>ii) The Preliminaries for use with the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, edition code 2103 March 2005 and shall be deemed to be incorporated herein</p> <p>iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p>iv) Where standard clause or alternatives are not entirely applicable to this contract such modification, corrections or supplements as will apply are given under each relevant clause heading</p> <p>v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")</p> <p>vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied) "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.</p> <p><b><u>PRICING OF PRELIMINARIES</u></b></p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p> <p><b><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 4.1, March 2005)</u></b></p> <p><b><u>DEFINITIONS AND INTERPRETATION (A1)</u></b></p>			
1/1/1	<p>Clause 1.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><b><u>OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)</u></b></p>			
1/1/2	<p>Clause 2.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><b><u>DOCUMENTS (A3)</u></b></p>			
1/1/3	<p>Clause 3.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<b><u>DESIGN RESPOSIBILITY (A4)</u></b>			
1/1/4	Clause 4.0 F:..... V:..... T:.....	Item		
	<b><u>EMPLOYERS AGENTS (A5)</u></b>			
1/1/5	Clause 5.0 F:..... V:..... T:.....	Item		
	<b><u>SITE REPRESENTATIVE (A6)</u></b>			
1/1/6	Clause 6.0 F:..... V:..... T:.....	Item		
	<b><u>COMPLIANCE WITH LAWS AND REGULATIONS (A7)</u></b>			
1/1/7	Clause 7.0 F:..... V:..... T:.....	Item		
	<b><u>INSURANCE AND SECURITY</u></b>			
	<b><u>WORKS RISK (A8)</u></b>			
1/1/8	Clause 8.0 F:..... V:..... T:.....	Item		
	<b><u>INDEMNITIES (A9)</u></b>			
1/1/9	Clause 9.0 F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<b><u>WORKS INSURANCES (A10)</u></b>			
1/1/10	Clause 10.0 F:..... V:..... T:.....	Item		
	<b><u>LIABILITY INSURANCES (A11)</u></b>			
1/1/11	Clause 11.0 F:..... V:..... T:.....	Item		
	<b><u>EFFECTING INSURANCES (A12)</u></b>			
1/1/12	Clause 12.0 F:..... V:..... T:.....	Item		
	<b><u>NO CLAUSE (A13)</u></b>			
1/1/13	Clause 13.0 F:..... V:..... T:.....	Item		
	<b><u>SECURITY (A14)</u></b>			
1/1/14	Clause 14.0 F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	Brought Forward		R	
	<b><u>EXECUTION</u></b>			
	<b><u>PREPARATION FOR AND EXECUTION OF THE WORKS (A15)</u></b>			
1/1/15	Clause 15.0  F:..... V:..... T:.....	Item		
	<b><u>ACCESS TO THE WORKS (A13)</u></b>			
1/1/16	Clause 16.0  F:..... V:..... T:.....	Item		
	<b><u>CONTRACT INSTRUCTION (A17)</u></b>			
1/1/17	Clause 17.0  F:..... V:..... T:.....	Item		
	<b><u>SETTING OUT OF THE WORKS (A18)</u></b>			
1/1/18	Clause 18.0  F:..... V:..... T:.....	Item		
	<b><u>ASSIGNMENT (A19)</u></b>			
1/1/19	Clause 19.0  F:..... V:..... T:.....	Item		
	<b><u>NOMINATED SUBCONTRACTORS (A20)</u></b>			
1/1/20	Clause 20.0  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<b><u>SELECTED SUBCONTRACTORS (A21)</u></b>			
1/1/21	Clause 21.0  F:..... V:..... T:.....	Item		
	<b><u>EMPLOYERS DIRECT CONTRACTORS (A22)</u></b>			
1/1/22	Clause 22.0  F:..... V:..... T:.....	Item		
	<b><u>CONTRACTORS DOMESTIC SUBCONTRACTORS (A23)</u></b>			
1/1/23	Clause 23.0  F:..... V:..... T:.....	Item		
	<b><u>COMPLETION</u></b>			
	<b><u>PRACTICAL COMPLETION (A24)</u></b>			
1/1/24	Clause 24.0 Contract Period: The period commencing on actual <b>Site</b> hand over date to the <b>Contractor</b> and ending on the date of <b>Practical Completion</b> or authorised extensions thereto including all Annual Industrial Holiday Periods, Sundays and Public Holidays.  F:..... V:..... T:.....	Item		
	<b><u>WORKS COMPLETION (A25)</u></b>			
1/1/25	Clause 25.0  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<b><u>FINAL COMPLETION (A26)</u></b>			
1/1/26	Clause 26.0 F:..... V:..... T:.....	Item		
	<b><u>LATENT DEFECT'S LIABILITY PERIOD (A27)</u></b>			
1/1/27	Clause 27.0 F:..... V:..... T:.....	Item		
	<b><u>SECTIONAL COMPLETION (A28)</u></b>			
1/1/28	Clause 28.0 F:..... V:..... T:.....	Item		
	<b><u>REVISION OF THE DATE FOR PRACTICAL COMPLETION (A29)</u></b>			
1/1/29	Clause 29.0 F:..... V:..... T:.....	Item		
	<b><u>PENALTY FOR LATE OR NON-COMPLETION (A30)</u></b>			
1/1/30	Clause 30.0 F:..... V:..... T:.....	Item		
	<b><u>PAYMENT</u></b>			
	<b><u>INTERIM PAYMENT TO THE CONTRACTOR (A31)</u></b>			
1/1/31	Clause 31.0 F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	Brought Forward		R	
	<b><u>ADJUSTMENT OF THE CONTRACT VALUE (A32)</u></b>			
1/1/32	Clause 32.0 F:..... V:..... T:.....	Item		
	<b><u>RECOVERY OF EXPENSE AND/OR LOSS (A33)</u></b>			
1/1/33	Clause 33.0 F:..... V:..... T:.....	Item		
	<b><u>FINAL ACCOUNT AND FINAL PAYMENT (A34)</u></b>			
1/1/34	Clause 34.0 F:..... V:..... T:.....	Item		
	<b><u>PAYMENT TO OTHER PARTIES (A35)</u></b>			
1/1/35	Clause 35.0 F:..... V:..... T:.....	Item		
	<b><u>CANCELLATION</u></b>			
	<b><u>CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT (A36)</u></b>			
1/1/36	Clause 36.0 F:..... V:..... T:.....	Item		
	<b><u>CANCELLATION BY EMPLOYER - LOSS AND DAMAGE (A37)</u></b>			
1/1/37	Clause 37.0 F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	Brought Forward		R	
	<p><b><u>CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT (A38)</u></b></p>			
1/1/38	<p>Clause 38.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><b><u>CANCELLATION - CESSATION OF THE WORKS (A39)</u></b></p>			
1/1/39	<p>Clause 39.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><b><u>CANCELLATION - CESSATION OF THE WORKS (A39)</u></b></p>			
1/1/40	<p>Clause 39.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><b><u>DISPUTE</u></b></p> <p><b><u>SETTLEMENT OF DISAGREEMENTS AND DISPUTES (A40)</u></b></p>			
1/1/41	<p>Clause 40.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><b><u>SUBSTITUTE PROVISIONS</u></b></p> <p><b><u>STATE CLAUSES (A41)</u></b></p>			
1/1/42	<p>Clause 41.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p><b><u>SCHEDULE OF VARIABLES (A42)</u></b></p> <p>1/1/43 Clause 42.0</p> <p>F:..... V:..... T:.....</p> <p><b><u>AGREEMENT</u></b></p> <p><b><u>AGREEMENT</u></b></p>	Item		
	<p>1/1/44 Clause</p> <p>F:..... V:..... T:.....</p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p> <p><b><u>CONTRACT DETAILS</u></b></p> <p>Demolition of 03 classroom block, Refurbishment of 14 classrooms, 32 enviroloos, medium administration block and staff block and Construction of nutrition centre including all related external works</p> <p>Site Description:</p> <p>Moleshatlou Secondary School Maila Mapitsane Village, Sekhukhuneland, Limpopo Province</p> <p>Work for installation by direct contractors: <b>TBC</b></p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p>This agreement is for a government contract: <b>Yes</b></p> <p>Date on which possession of the site is intended to be given: <b>TBC</b></p> <p>Period for the commencement of the works after the contractor takes possession of the site: <b>10 days</b></p> <p>Completions in sections are required: <b>No</b></p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole:</p> <p><b>R4 200.00</b></p> <p>Contract duration : <b>20 months</b> including national builder's break</p> <p><b>SPECIAL COMPLETION REQUIREMENTS</b></p> <p>Beneficial occupation dates: <b>TBC</b></p> <p>Tenant Installations beneficial occupation</p> <p>F..... V..... T .....</p>			
1/1/45	<p>Arbitration rules as recommended by the Association of Arbitrators (SA)</p> <p>F ..... V ..... T .....</p>	Item		
1/1/46	<p>The law applicable to this agreement shall be that of South Africa</p> <p>F ..... V ..... T .....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p><b><u>INSURANCES</u></b></p>			
1/1/47	<p>Contract works insurance to be effected by: <b>Contractor</b></p> <p>For the amount of: The <b>Contract Sum</b> plus 20% with deductible of R20 000.00</p> <p>Notwithstanding the provisions of Clause 41.3.2, the first amount deductible will be for the <b>Contractor's</b> account</p> <p>SASRIA insurance required:</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/48	<p>Public liability insurance to be effected by <b>Contractor</b></p> <p>For the amount of: R 10 000 000.00</p> <p>With a deductible of: R 10 000.00 per claim</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><b><u>DOCUMENT</u></b></p> <p>Waivers of contractors lien is required: <b>Yes</b></p> <p>Number of construction document copies to be supplied free of charge: <b>3</b></p> <p>Number of days for submission of priced documents: <b>TBA</b></p> <p>Notwithstanding the provisions of the above clause, no payments will be certified unless the priced documents are agreed with the Quantity Surveyors.</p> <p>JBCC Engineering General Conditions are to be included in the documents: <b>No</b></p> <p>Alternative if contract value is not adjusted using Contract Price Adjustment Provision: <b>N/A</b></p> <p>Tender Price is requested for Fixed Rates.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Details of changes made to the provision of JBCC standard documentation:.....</p> <p>The Contractor shall issue a Tax Invoice immediately to enable the Employer to process payment.</p>				R
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>				R

	<b>Brought Forward</b>		R	
	<b><u>SECTION B: PRELIMINARIES</u></b>			
	<b><u>Definition and interpretation (B1)</u></b>			
1/1/49	Definition and interpretation (B1.1 - B1.6.5)  F:..... V:..... T:.....	Item		
	<b><u>Documents (B2)</u></b>			
1/1/50	Checking of documents (B2.1)  F:..... V:..... T:.....	Item		
1/1/51	These bills of quantities contain pages and annexures as indexed on the flyleaf  The items in these bills of quantities are to be read and priced in conjunction with the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 2008 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained.  F:..... V:..... T:.....	Item		
1/1/52	Provisional bills of quantities (B2.2)  F:..... V:..... T:.....	Item		
1/1/53	Availability of construction documentation for contracts based on provisional bills of quantities (B2.3)  F:..... V:..... T:.....	Item		
1/1/54	Interests of agents (B2.4)  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
1/1/55	Priced documents (B2.5)  F:..... V:..... T:.....	Item	
1/1/56	Tender submission (B2.6)  F:..... V:..... T:.....	Item	
1/1/57	Notwithstanding anything contained in this clause tenders shall be valid for a period of 90 days from the closing date of tenders  F:..... V:..... T:.....	Item	
<b><u>The site (B3)</u></b>			
1/1/58	Defined works area (B3.1)  F:..... V:..... T:.....	Item	
1/1/59	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent at the official site briefing meeting.  Site Meeting Date: <b>TBC</b> The meeting will be held at: <b>TBC</b> Tenderers are advise to arrive at least one hour earlier for the briefing meeting in order to avoid delays related to locating the venue.  F:..... V:..... T:.....	Item	
1/1/60	Inspection of the site (B3.3)  F:..... V:..... T:.....	Item	
<b>Carried Forward</b>			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
1/1/61	<p>A compulsory briefing meeting with representatives of the Employer will not take place due to the Covid-19 Lockdown restrictions. However, tenderers are welcomed to make arrangements to visit the site on a non-compulsory basis at the Moleshatlou Secondary School</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/62	<p>Existing premises occupied (B3.4)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/63	<p>Previous work - dimensional accuracy (B3.5)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/64	<p>Previous work - defects (B3.6)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/65	<p>Services - known (B3.7)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/66	<p>Services - unknown (B3.8)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/67	<p>Protection of trees etc (B3.9)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/68	<p>Articles of value (B3.10)</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
1/1/69	Inspection of adjoining properties etc (B3.11)  F:..... V:..... T:.....	Item	
<b><u>Management of contract (B4)</u></b>			
1/1/70	Management of the works (B4.1)  The contractor is to submit with his tender a synopsis of the proposed management team envisaged for this project.  F:..... V:..... T:.....	Item	
1/1/71	Programme for the works  The contractor is to submit with his tender a detailed program outlining the envisaged programming of the works  F:..... V:..... T:.....	Item	
1/1/72	Progress meetings (B4.3)  F:..... V:..... T:.....	Item	
1/1/73	Technical meetings (B4.4)  F:..... V:..... T:.....	Item	
<b><u>Samples and shop drawings and manufacturer's instructions (B5)</u></b>			
1/1/74	Samples of materials (B5.1)  F:..... V:..... T:.....	Item	
1/1/75	Workmanship samples (B5.2)  F:..... V:..... T:.....	Item	
<b>Carried Forward</b>			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
1/1/76	Shop drawings (B5.3)  F:..... V:..... T:.....	Item		
<b><u>Temporary works and plant (B6)</u></b>				
1/1/77	Deposits and fees (B6.1)  F:..... V:..... T:.....	Item		
1/1/78	Enclosure of the works (B6.2)  F:..... V:..... T:.....	Item		
1/1/79	Advertising (B6.3)  F:..... V:..... T:.....	Item		
1/1/80	Plant, equipment, sheds and offices (B6.4)  F:..... V:..... T:.....	Item		
1/1/81	Main notice board (B6.5)  Provision shall be made for 1 set of Professional boards  Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Limpopo Department of Education chromadek signage board that must be 2 x 4m.  F:..... V:..... T:.....	Item		
1/1/82	Subcontractors notice board (B6.6)  F:..... V:..... T:.....	Item		
<b>Carried Forward</b>			R	
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<b><u>Temporary services (B7)</u></b>			
1/1/83	Location (B7.1) F:..... V:..... T:.....	Item		
1/1/84	Water (B7.2) Alternative A F:..... V:..... T:.....	Item		
1/1/85	Electricity (B7.3) Alternative A F:..... V:..... T:.....	Item		
1/1/86	Telecommunication equipment (B7.4) Alternative A F:..... V:..... T:.....	Item		
1/1/87	Ablution facilities (B7.5) Alternative A F:..... V:..... T:.....	Item		
	<b><u>Prime cost amounts (B8)</u></b>			
1/1/88	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
	<b><u>Attendance on N/S Subcontractors (B9)</u></b>			
1/1/89	General attendance (B9.1) F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
1/1/90	Special attendance (B9.2) F:..... V:..... T:.....	Item		
1/1/91	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
	<b><u>Financial aspects (B10)</u></b>			
1/1/92	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
1/1/93	Provision for Value Added Tax (VAT) is made in the Final Summary F:..... V:..... T:.....	Item		
1/1/94	Payment of preliminaries (B10.2) F:..... V:..... T:.....	Item		
1/1/95	Adjustment of preliminaries (B10.3) F:..... V:..... T:.....	Item		
1/1/96	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
1/1/97	Contractor information supply (B10.5) F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
<b><u>General (B11)</u></b>			
1/1/98	Protection of works (B11.1) F:..... V:..... T:.....	Item	
1/1/99	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....	Item	
1/1/100	Site security (B11.3) F:..... V:..... T:.....	Item	
1/1/101	Notice before covering work (B11.4) F:..... V:..... T:.....	Item	
1/1/102	Disturbance (B11.5) F:..... V:..... T:.....	Item	
1/1/103	Works cleaning and clearing (B11.6) F:..... V:..... T:.....	Item	
1/1/104	Vermin (B11.7) F:..... V:..... T:.....	Item	
1/1/105	Overhand work (B11.8) F:..... V:..... T:.....	Item	
<b>Carried Forward</b>			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<b><u>Schedule of variables (B12)</u></b>			
1/1/106	Pre-tender information (B12.1)  F:..... V:..... T:.....  Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is not relevant to this specific contract	Item		
1/1/107	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: <b>Yes</b>  F:..... V:..... T:.....	Item		
1/1/108	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete: <b>Yes</b>  F:..... V:..... T:.....	Item		
1/1/109	12.1.3 Interest of agents (B2.4)  F:..... V:..... T:.....	Item		
1/1/110	12.1.4 Defined works area (B3.1)  F:..... V:..... T:.....	Item		
1/1/111	12.1.5 Geotechnical investigation (B3.2)  F:..... V:..... T:.....	Item		
1/1/112	12.1.6 Existing premises occupied (B3.4)  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
1/1/113	<p>12.1.7 Services - known (B3.7)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/114	<p>12.1.8 Protection of trees (B3.9)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/115	<p>12.1.9 Inspection of adjoining properties (B3.11)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/116	<p>12.1.10 Enclosure of the works (B6.2)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/117	<p>12.1.11 Offices (B6.4.3)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/118	<p>12.1.12 Main notice board (B6.5)</p> <p>Provision shall be made for 1 set of Professional boards</p> <p>Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Limpopo Department of Education chromadek signage board that must be 2 x 4m.</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/119	<p>12.1.13 Subcontractors notice board (B6.6)</p> <p>A notice board is required: <b>No</b></p> <p>F:..... V:..... T:.....</p>	Item	
<b>Carried Forward</b>			R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
1/1/120	<p>12.1.14 Water (B7.2) Alternative Selected: <b>A</b></p> <p>The contractor shall make provision for water connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local Authority. Should the local authority refuse services supply to site, the contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance with the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/121	<p>12.1.15 Electricity (B7.3) Alternative selected: <b>A</b></p> <p>The contractor shall make provision for electrical power connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local authority. The contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance with the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
1/1/122	<p>12.1.16 Telecommunications (B7.4) Alternative selected: <b>A</b></p> <p>The contractor shall make provision for telephone connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the relevant Agency. Should the Agency refuse services supply to site, the contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Agency would have supplied services to site ie in compliance wit the specifications of the Agency.</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/123	<p>12.1.17 Ablution facilities (B7.5) Alternative selected: <b>A</b></p> <p>The contractor shall make provision for sewer connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local authority. The contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance wit the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/124	<p>12.1.8 Special attendance (B9.2)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/125	<p>12.1.19 Protection of the works (B11.1)</p> <p>F:..... V:..... T:.....</p>	Item	
<b>Carried Forward</b>			R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
1/1/126	<p>12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: <b>Yes</b></p> <p><b>The contractor shall conduct an as built survey (photographic and written) prior to commencing works. All damage caused by the Contractor during the contract shall be rectified at the Contractors cost.</b></p> <p>F:..... V:..... T:.....</p>	Item		
1/1/127	<p>12.1.21 Disturbance (B11.5)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/128	<p>Post tender information (B12.2)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/129	<p>12.2.1 Payment of preliminaries Alternative selected: (A or B)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/130	<p>12.2.2 Adjustment of preliminaries Alternative selected: (A or B)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/131	<p>12.2.3 Additional agreed preliminaries items</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

	<b>Brought Forward</b>		R	
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>			
1/1/132	<p><b>GUARANTEE</b></p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by structural defects in the building in which case the responsibility for replacement shall rest entirely with the contractor unless found to be as a result of a design fault.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/133	<p><b>SHOP DRAWINGS</b></p> <p>The contractor and/or nominated/selected sub-contractor shall prepare and submit, at his own expense, three (3) copies of shop drawings of all fabricated work, working or setting out drawings shop details and schedules to the principal agent for approval prior to commencement of manufacture.</p> <p>Correction of shop drawings shall not constitute a change in scope of work unless the contractor notifies the Principal Agent in writing within seven (7) calendar days and shall not proceed with fabrication until so authorised by the principal agent</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
1/1/134	<p><b>SAMPLES</b></p> <p>Samples are physical examples furnished by the contractor to illustrate materials, equipment or workmanship and to establish standards by which the work will be judged. The contractor shall furnish without delay such samples and "mock ups" as may be called for by the Principal Agent, who may reject all material and workmanship not corresponding with the approved samples.</p> <p>Samples must be submitted in duplicate or as instructed and must allow a reasonable time for their consideration.</p> <p>Samples must be properly labelled with the project name and location, contractor's name, the type, finish composition of materials date of submission and the contract document reference in which the project is identified.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/135	<p><b>SITE INSTRUCTIONS</b></p> <p>Site instructions issued are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor.</p> <p>Site instructions to the various sub-contractors may be issued only by the Principal Agent and must be issued via the contractor.</p> <p>Copies of all site instructions issued are to be submitted for the principal agent and the quantity surveyors within two (2) days of issue.</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
1/1/136	<p><b>OVERTIME</b></p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/137	<p><b>CO-OPERATION OF CONTRACTOR FOR COST CONTROL</b></p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost control in an effort to prevent the final building cost from exceeding the budget.</p> <p>It is specifically agreed that the professionals and the contractor will endeavour to agree and sign off variations within sixty days of them arising.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/138	<p><b>SITE LEVELS</b></p> <p>Before commencement of the works, the contractor shall carry out and provide the principal agent, for approval, a survey of the existing site levels in sufficient details to enable the preparation of a final account.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/139	<p><b>PROPRIETARY BRANDED PRODUCTS</b></p> <p>The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

	<b>Brought Forward</b>		R	
1/1/140	<p><b>AS BUILT DRAWINGS</b></p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/141	<p><b>OCCUPATIONAL HEALTH AND SAFETY ACT</b></p> <p>In terms of the Occupational Health and Safety Regulations promulgated on 18 July 2003 and any latest editions/amendments, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained.</p> <p>F: ..... V: ..... T: .....</p>	Item		
1/1/142	<p><b>COVID-19 RELATED ITEMS</b></p> <p>In terms of the latest Covid-19 regulations and requirements, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained.</p> <p>F: ..... V: ..... T: .....</p>	Item		
<b>Carried to Final Summary</b>			R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>NOTES</u></b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><b><u>Filling</u></b></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p> <p>Excavations measured in successive depths of 2m.</p> <p><b><u>SITE CLEARANCE ETC</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 1 Earthworks</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

		Brought Forward		R
	<b><u>Site clearance</u></b>			
2/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	241	
	<b><u>EXCAVATIONS</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
2/1/2	Trenches	m3	69	
2/1/3	Holes	m3	1	
	<b><u>Extra over excavations in earth to trenches and holes for</u></b>			
2/1/4	Excavation in soft rock	m3	17	
2/1/5	Excavation in hard rock	m3	24	
	<b><u>CARTING AWAY OF EXCAVATED MATERIAL</u></b>			
	<b><u>Note:</u></b>			
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.			
2/1/6	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	38	
	<b><u>RISK OF COLLAPSE OF EXCAVATIONS</u></b>			
	<b><u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u></b>			
2/1/7	Trenches and holes	m2	208	
	<b><u>KEEPING EXCAVATIONS FREE FROM WATER</u></b>			
	<b><u>Keeping excavations free of water</u></b>			
2/1/8	Keeping excavations free of water		Item	
	<b>Carried Forward</b>			R
	Section No. 2 NUTRITION CENTRE Bill No. 1 Earthworks			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
<b><u>FILLING, ETC.</u></b>			
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u></b>			
2/1/9	Backfilling to trenches, holes, etc	m3	35
2/1/10	Under floors, steps, pavings, etc	m3	121
<b><u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u></b>			
2/1/11	Backfilling to trenches, holes, etc	m3	10
2/1/12	Under floors, steps, pavings, etc	m3	30
<b><u>Filling supplied by the Contractor under floors, trenches, etc.</u></b>			
2/1/13	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	30
<b><u>COMPACTION OF SURFACES</u></b>			
2/1/14	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	203
<b><u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u></b>			
<b><u>Protection against termites, ants, etc</u></b>			
2/1/15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	203
2/1/16	To bottom and sides of excavated trenches, Holes, etc.	m2	277
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 2 NUTRITION CENTRE Bill No. 1 Earthworks			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><b><u>Formwork</u></b></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 2 NUTRITION CENTRE Bill No. 2 Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".</p> <p>The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:-</p> <ul style="list-style-type: none"> <li>· Degree of accuracy: I</li> <li>· Finish: Smooth and even</li> <li>· Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>· Steel faced formwork. Joints grout-tight.</li> <li>· Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>· Formwork tie holes: to the approval of the architect</li> <li>· Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>· Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>· Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul> <p>Structural Concrete</p> <p>Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 NUTRITION CENTRE Bill No. 2 Concrete, Formwork and Reinforcement</p>		R	

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
<b><u>GENERAL NOTES TO TENDERERS</u></b>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>15Mpa/19mm concrete</u></b>			
2/2/1	Blinding	m3	3
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u></b>			
<b><u>25MPa/19mm Concrete</u></b>			
2/2/2	Strip footings	m3	17
2/2/3	Bases	m3	1
<b><u>REINFORCED CONCRETE CAST IN FORMWORK</u></b>			
<b><u>25MPa/19mm Concrete</u></b>			
2/2/4	Surface beds cast in panels	m3	26
2/2/5	Slabs including beams and inverted beams	m3	0.3
2/2/6	Ramps	m3	0.5
<b><u>TEST BLOCKS</u></b>			
<b><u>Notes:</u></b>			
Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)			
2/2/7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3
<b><u>SUNDRIES TO CONCRETE</u></b>			
Carried Forward			R
Section No. 2 NUTRITION CENTRE Bill No. 2 Concrete, Formwork and Reinforcement			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
<b><u>Surface treatment</u></b>			
2/2/8	Power float top surface of concrete surface bed to a true and even level finish	m2	205
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
<b><u>Rough formwork to sides</u></b>			
2/2/9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	70
2/2/10	Sloping and stepped outer edges of ramps not exceeding 300mm high extreme	m	11
<b><u>Rough formwork to soffits</u></b>			
2/2/11	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	1
<b><u>MOVEMENTS JOINTS ETC,</u></b>			
<b><u>Expansion joints</u></b>			
2/2/12	10mm soft board or similar approved between concrete and brick wall	m	65
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>High and mild tensile steel reinforcement to structural concrete work</u></b>			
2/2/13	All diameter bars	t	1
<b><u>Fabric reinforcement:</u></b>			
2/2/14	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	201
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 2 NUTRITION CENTRE Bill No. 2 Concrete,Formwork and Reinforcement			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Sizes in descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><b><u>Hollow walls etc</u></b></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 2 NUTRITION CENTRE Bill No. 3 Masonry</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
<b><u>Pointing</u></b>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
<b><u>BRICKWORK IN FOUNDATION</u></b>				
<b><u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u></b>				
2/3/1	One brick wall	m2	75	
<b><u>SUPERSTRUCTURE BRICKWORK</u></b>				
<b><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></b>				
2/3/2	One brick wall	m2	20	
2/3/3	Half brick wall	m2	80	
<b><u>FACE BRICKWORK</u></b>				
Bricks shall be ordered timeously to obtain uniformity in size and colour				
<b><u>"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions</u></b>				
2/3/4	Extra over brickwork for face brickwork in foundations (Provisional)	m2	150	
2/3/5	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	21	
2/3/6	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	15	
<b><u>BRICKWORK SUNDRIES</u></b>				
<b>Carried Forward</b>				R
Section No. 2 NUTRITION CENTRE Bill No. 3 Masonry				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
<b><u>Brickwork reinforcement</u></b>				
2/3/7	75mm Wide reinforcement built in horizontally	m	234	
2/3/8	150mm Wide reinforcement built in horizontally.	m	500	
<b><u>Precast concrete prestressed fabricated lintels</u></b>				
2/3/9	100 x 70mm Lintels in lengths not exceeding 3m	m	19	
2/3/10	175 x 70mm Lintels in lengths not exceeding 3m	m	19	
<b><u>Turning pieces</u></b>				
2/3/11	110mm Wide turning piece to flat brick lintels	m	30	
<b><u>Air bricks etc</u></b>				
2/3/12	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	3	
<b><u>Fair cutting to face brickwork</u></b>				
<b><u>Roof ties</u></b>				
2/3/13	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	58	
<b><u>MOVEMENTS JOINTS ETC,</u></b>				
<b><u>Expansion joints</u></b>				
2/3/14	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	14	
<b>Carried Forward to Summary of Section No.</b>				R
Section No. 2				
NUTRITION CENTRE				
Bill No. 3				
Masonry				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>			
2/4/1	Under cills, etc.	m2	3	
	<b><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></b>			
2/4/2	Under surface beds.	m2	203	
	<b><u>JOINTS SEALANTS, ETC.</u></b>			
	<b><u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u></b>			
2/4/3	10mm Isolation Joints between surface bed concrete and brick wall	m	65	
	<b>Carried Forward to Summary of Section No.</b>			
	Section No. 2 NUTRITION CENTRE Bill No. 4 Waterproofing			
				R

LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<b><u>ROOF SHEETING</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer</u></b>			
2/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	299	
2/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	24	
2/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	19	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b>Carried Forward</b>			R
	Section No. 2 NUTRITION CENTRE Bill No. 5 Roof Coverings			



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Fixing</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 6 Carpentry and Joinery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>Timber</u></p> <p>All softwood to be South African Pine</p> <p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p> <p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p>			R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 NUTRITION CENTRE Bill No. 6 Carpentry and Joinery</p>			R	

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p><b><u>ROOFS, ETC</u></b></p> <p><b><u>Plate nailed timber roof truss construction</u></b></p> <p>The following is applicable in respect of roof trusses:</p> <p>All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.</p> <p>Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.</p> <p>All joints to be close fitted butt joints.</p> <p><b>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</b></p> <p><b>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</b></p> <p><b>Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.</b></p> <p><b><u>Roof trusses</u></b></p> <p>2/6/1 Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan) <span style="float: right;">m2</span> <span style="float: right;">249</span></p> <p><b><u>Sawn softwood</u></b></p> <p>2/6/2 38 x 114mm Wall plates <span style="float: right;">m</span> <span style="float: right;">69</span></p> <p><b><u>Sundries</u></b></p> <p>2/6/3 Two coats creosote on sawn timbers <span style="float: right;">m2</span> <span style="float: right;">26</span></p> <p><b><u>Similar Approved</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 6 Carpentry and Joinery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
	<b><u>"Everite FC77" Fascia and badge boards</u></b>			
2/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	69	
	<b><u>DOORS ETC</u></b>			
	<b><u>44mm thick solid R&amp;F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u></b>			
2/6/5	813 x 2032mm single door	No	2	
2/6/6	914 x 2032mm single door	No	4	
2/6/7	1690 x 2064mm double door	No	1	
	<b><u>WINDOWS</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>"Nutec" fibre cement window cills</u></b>			
2/6/8	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	15	
	<b>Carried Forward to Summary of Section No.</b>			R
	Section No. 2 NUTRITION CENTRE Bill No. 6 Carpentry and Joinery			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Fixing</u></b></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p><b><u>Ceilings &amp; Bulkheads</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 7 Ceilings,Partitions and Access Flooring</p>			

	<b>Brought Forward</b>			R	
	<p><b><u>Proprietary suspended ceilings</u></b></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><b><u>Suspension systems</u></b></p> <p>Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.</p> <p><b><u>NAILED UP CEILINGS</u></b></p> <p><b><u>FIBRE - CEMENT BOARDS</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications</u></b></p>				
2/7/1	<p>2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails</p>	m2	16		
	<p><b><u>PLASTER BOARD CEILINGS</u></b></p>				
	<b>Carried Forward</b>			R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 7 Ceilings,Partitions and Access Flooring</p>				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward				R
	<p><b><u>6.4mm Gypsum plasterboard ceiling, fixed at same roof on 38 x 38mm saw brandering at 400mm centers, including all necessary hangers, braces, etc. fixed with staples or nails, finished with a 9.5mm thick gypsum plasterboard panels including wire lathing at all joints between ceiling panels and a coat of "Rhinolite" plaster, trowelled smooth to receive decoration by others, complete as per Architects Ceilings Specification.</u></b></p>			
2/7/2	Plasterboard Ceiling not exceeding 1m below timber trusses	m2	173	
	<p><b><u>CORNICES</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>"Rhino" plasterboard cornice</u></b></p>			
2/7/3	75mm Coved cornice, plugged to brickwork	m	155	
	<p><b><u>SUNDRIES</u></b></p> <p><b><u>Extra over for Trap Doors</u></b></p>			
2/7/4	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2	
	<p><b><u>CEILING INSULATION</u></b></p> <p><b><u>Insulation</u></b></p>			
2/7/5	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	189	
<b>Carried Forward to Summary of Section No.</b>				R
Section No. 2				
NUTRITION CENTRE				
Bill No. 7				
Ceilings,Partitions and Access Flooring				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 8</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.</p> <p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 8 Ironmongery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>		R
<u>Finishes to ironmongery</u>		
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		
AN Anodised natural		
AS Anodised silver		
AB Anodised bronze		
AG Anodised gold		
ABL Anodised black		
PB Polished brass		
PL Polished and lacquered		
PT Epoxy coated		
SD Sanded		
<u>Rates</u>		
The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.		
<b><u>DOOR FURNITURE</u></b>		
<b><u>Similar Approved</u></b>		
<b><u>Handles</u></b>		
2/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)	7.0
	Sets	
<b><u>Locks</u></b>		
2/8/2	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	7
	No	
2/8/3	SC 150mm Cabin hook (Code: CH 150)	2
	No	
<b><u>Kick and push plates</u></b>		
2/8/4	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	14
	No	
<b>Carried Forward</b>		R
Section No. 2 NUTRITION CENTRE Bill No. 8 Ironmongery		



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ALUMINIUM</u></b></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><b><u>SPECIFICATIONS</u></b></p> <p>User Note:</p> <p><b><u>Glazing</u></b></p> <p>All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.</p> <p><b><u>Ironmongery</u></b></p> <p>All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 9 Metalwork</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R
<p><b><u>Actuators</u></b></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p>			
<p><b><u>Scaffolding</u></b></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p>			
<p><b><u>Protection</u></b></p> <p>With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price.</p>			
<p><b><u>Installation</u></b></p> <p>All measurements to be checked on site prior to ordering and manufacturing.</p> <p>Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing.</p> <p>Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.</p>			
<p><b><u>Profiles</u></b></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p>			
<p><b><u>Structural Silicone</u></b></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p>			
<p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>			
<b>Carried Forward</b>			R
<p>Section No. 2 NUTRITION CENTRE Bill No. 9 Metalwork</p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><b><u>Tolerances:</u></b></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><b><u>Protection:</u></b></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><b><u>Cleaning:</u></b></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p>Note: All windows and doors should be read in conjunction with window and door schedules</p>			R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 NUTRITION CENTRE Bill No. 9 Metalwork</p>			R	

Brought Forward			R
<b><u>WELDED SCREENS, GATES, ETC.</u></b>			
<b><u>Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications</u></b>			
2/9/1	Steel gate to door, size 1690 x 2064mm high	No	1
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<b><u>1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u></b>			
2/9/2	813 x 2032mm single door	No	2
2/9/3	914 x 2032mm single door	No	3
<b><u>1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u></b>			
2/9/4	914 x 2032mm single door	No	1
2/9/5	1690 x 2064mm double door	No	1
<b><u>ROLLER SHUTTER DOORS</u></b>			
<b><u>Similar Approved</u></b>			
Carried Forward			R
Section No. 2 NUTRITION CENTRE Bill No. 9 Metalwork			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
	<p><b><u>"Wispeco Deluxe Roll-A-Door" standard Roller shutter door with Chromadeck finish, fixed to brickwork or concrete, complete with fittings as per manufacturer's recommendations</u></b></p>			
2/9/6	Roll-up garage door to suit opening 2185 x 2400mm high, installed in and including rollershutter frame, both with "Colourcoat HPS200 - Van Dyk Brown SC" finish, manually operated, including centre lift lock, weather strips, handles, Roll-A-Guides, hinges, fixing bolts, track etc. with minimum 00mm side room and 350mm headroom	No	7	
	<p><b><u>WINDOWS FRAMES, etc.</u></b></p> <p><b><u>Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification</u></b></p>			
2/9/7	Window size 534 x 648mm high	No	4	
2/9/8	Window size 1302 x 978mm high	No	10	
	<p><b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b></p> <p><b><u>304/VEM 320G expanded metal mesh size 1200mm x 2400mm manufactured in accordance with SANS 190-1:1983 fixed to 76 x 50mm timber purlins using 40x 0.5mm hat channels @ 400mm centres with 12 x 20mm tac screws.</u></b></p>			
2/9/9	In Ceiling voids	m2	173	
	<p><b><u>STEEL COLUMNS AND BEAMS</u></b></p> <p><b><u>Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to</u></b></p>			
2/9/10	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	80	
<b>Carried Forward to Summary of Section No.</b>				R
Section No. 2				
NUTRITION CENTRE				
Bill No. 9				
Metalwork				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLASTERING</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<b><u>SCREEDS</u></b>			
	<b><u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u></b>			
2/10/1	30mm Thick on floors and landings	m2	15	
2/10/2	30mm Thick to falls and currents	m2	1	
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u></b>			
2/10/3	On brick walls	m2	395	
2/10/4	On narrow widths	m2	39	
	<b>Carried Forward to Summary of Section No.</b>			R
	Section No. 2 NUTRITION CENTRE Bill No. 10 Plastering			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 11</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Pricing</u></b></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><b><u>Fixing</u></b></p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.</p> <p>Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 11 Tiling</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>			<b>R</b>
	<p><b><u>Wastage</u></b></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Note</u></p> <p>All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.</p> <p><b><u>WALL TILING</u></b></p> <p><b><u>150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications</u></b></p>			
2/11/1	Plastered walls	m2	31	
2/11/2	On narrow widths	m2	3	
2/11/3	Splash backs	m2	1	
	<p><b><u>FLOOR TILING</u></b></p> <p><b><u>300 x 300 x 8mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementitious grout</u></b></p>			
2/11/4	On floors	m2	8	
2/11/5	100mm high skirting	m	20	
	<b>Carried Forward</b>			<b>R</b>
	<p>Section No. 2 NUTRITION CENTRE Bill No. 11 Tiling</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
	<b><u>300 x 300 x 11.5mm Thick Porcelain tiles (P.C allowance of R 210.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive with flush painted with tinted waterproof jointing and grout to match tile</u></b>		
2/11/6	On floors	m2	8
2/11/7	75mm high skirting	m	20
	<b><u>ATTIC STOCK</u></b>		
2/11/8	150 x 150 x mm ceramic tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	3
2/11/9	300 x 300 x 8mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	1
2/11/10	300 x 300 x 11.5mm Thick Porcelain tiles_(P.C allowance of R 210.00/m2 excludes V.A.T. but includes delivery to site)	m2	1
	<b><u>SUNDRIES</u></b>		
	<b><u>10mm aluminium straight edge trim</u></b>		
2/11/11	Dividing strip between tiles and door frames	m	6
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 2 NUTRITION CENTRE Bill No. 11 Tiling			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>uPVC pipes and fittings:</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p><u>Excavations:</u></p> <p>No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.</p> <p>"Intermediate material" and " hard rock" shall be as defined in "Earthworks".</p> <p>Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 12 Plumbing and Drainage</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>		R
Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.		
<u>Laying, backfilling, bedding, etc., of pipes:</u>		
Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions		
<b><u>GENERAL NOTES TO TENDERERS</u></b>		
General notes, described in Bill No.1, shall equally apply to this Bill.		
<b><u>RAINWATER GOODS</u></b>		
<b><u>Similar Approved</u></b>		
<b><u>Gutters</u></b>		
2/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m 69
2/12/2	Extra over eaves gutter for stopped end	No 2
2/12/3	Extra over eaves gutter for corner	No 32
2/12/4	Extra over eaves gutter for outlet	No 8
<b><u>Rainwater downpipes</u></b>		
2/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m 28
2/12/6	Extra over downpipe for offset	No 16
2/12/7	Extra over downpipe for shoe	No 8
<b><u>SANITARY FITTINGS</u></b>		
Refer to sanitary schedule drawing for full description of abbreviations		
<b>Carried Forward</b>		R
Section No. 2 NUTRITION CENTRE Bill No. 12 Plumbing and Drainage		

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>			<b>R</b>
	<b><u>WASH HAND BASINS</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b>			
2/12/8	WHB	No	2	
	<b><u>WATER CLOSET</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b>			
2/12/9	WC, installed complete	No	2	
	<b><u>SINKS, etc.</u></b>			
	<b><u>Concrete double wash trough with outlets and three pedestals (PC allowance of R780.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b>			
2/12/10	1400 x 530 x 340mm deep Wash trough	No	1	
	<b><u>TOILET ROLL HOLDER</u></b>			
	<b><u>To be approved by Architect</u></b>			
2/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	2	
	<b>Carried Forward</b>			<b>R</b>
	Section No. 2 NUTRITION CENTRE Bill No. 12 Plumbing and Drainage			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
<b><u>TAPS, VALVES, ETC</u></b>				
<b><u>Similar Approved</u></b>				
2/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	11	
2/12/13	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	11	
<b>Carried Forward to Summary of Section No.</b>				R
Section No. 2 NUTRITION CENTRE Bill No. 12 Plumbing and Drainage				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 13</u></b>			
	<b><u>GLAZING</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>Note:</u>			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	<b><u>GLASS TO STEEL WITH PUTTY</u></b>			
	<b><u>5mm clear floated glass fixed glazing putty</u></b>			
2/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	13	
	<b><u>6mm obscure floated glass fixed glazing putty</u></b>			
2/13/2	Panes not exceeding 0.1m2	m2	1	
	<b><u>TOPS, SHELVES, DOORS, MIRROR ETC</u></b>			
	<b><u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u></b>			
2/13/3	Mirror 400 x 600 mm high	No	2	
	<b>Carried Forward to Summary of Section No.</b>			
	Section No. 2 NUTRITION CENTRE Bill No. 13 Glazing			R

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 14</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
	<b><u>FIBRE CEMENT</u></b>			
	<b><u>Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect</u></b>			
2/14/1	On internal ceilings and cornices	m2	202	
2/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	69	
	<b><u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u></b>			
2/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	15	
	<b><u>FLOATED PLASTER INTERNAL WALLS</u></b>			
	<b>Carried Forward</b>			R
	Section No. 2 NUTRITION CENTRE Bill No. 14 Paintwork			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
	<u>Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect</u>		
2/14/4	Plastered walls	m2	395
	<b><u>METAL SURFACES</u></b>		
	<u>Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect</u>		
2/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	22
2/14/6	On window frames	m2	14
2/14/7	On door frames	m2	20
2/14/8	On mild steel columns, beams, etc	m2	4
2/14/9	On gutters	m	69
2/14/10	On downpipes	m	28
	<b><u>WOOD</u></b>		
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u>		
2/14/11	On door	m2	42
	<u>Prepare and paint three coats clear varnish:</u>		
2/14/12	On door	m2	24
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 2 NUTRITION CENTRE Bill No. 14 Paintwork			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 15</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 2 NUTRITION CENTRE Bill No. 15 Provisional Sums</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p> <p><b><u>KITCHEN FITTINGS</u></b></p>			
2/15/1	Allow the amount of R223 532.13 (Two Hundred and Twenty Three Thousand Five Hundred and Thirty Two and Thirteen) for kitchen fittings, installed complete.	Item		223 532.13
2/15/2	Attendance		%	
2/15/3	Profit		%	
	<b>Carried Forward to Summary of Section No.</b>		R	
	Section No. 2 NUTRITION CENTRE Bill No. 15 Provisional Sums			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Bill No</b>	<b>SECTION SUMMARY</b>	<b>Page No</b>	<b>Amount</b>
2/1	Earthworks	2/3	
2/2	Concrete,Formwork and Reinforcement	2/7	
2/3	Masonry	2/10	
2/4	Waterproofing	2/11	
2/5	Roof Coverings	2/13	
2/6	Carpentry and Joinery	2/17	
2/7	Ceilings,Partitions and Access Flooring	2/20	
2/8	Ironmongery	2/23	
2/9	Metalwork	2/28	
2/10	Plastering	2/29	
2/11	Tiling	2/32	
2/12	Plumbing and Drainage	2/36	
2/13	Glazing	2/37	
2/14	Paintwork	2/39	
2/15	Provisional Sums	2/41	
	<b>Carried to Final Summary</b>		R
	Section No. 2 NUTRITION CENTRE		

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>NOTES</u></b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><b><u>Filling</u></b></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p> <p>Excavations measured in successive depths of 2m.</p> <p><b><u>SITE CLEARANCE ETC</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 1 Earthworks</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
	<b><u>Site clearance</u></b>			
3/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	21	
	<b><u>EXCAVATIONS</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
3/1/2	Trenches	m3	11	
	<b><u>Extra over excavations in earth to trenches and holes for</u></b>			
3/1/3	Excavation in soft rock	m3	3	
3/1/4	Excavation in hard rock	m3	4	
	<b><u>CARTING AWAY OF EXCAVATED MATERIAL</u></b>			
	<b><u>Note:</u></b>			
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.			
3/1/5	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	6	
	<b><u>RISK OF COLLAPSE OF EXCAVATIONS</u></b>			
	<b><u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u></b>			
3/1/6	Trenches and holes	m2	33	
	<b><u>KEEPING EXCAVATIONS FREE FROM WATER</u></b>			
	<b><u>Keeping excavations free of water</u></b>			
3/1/7	Keeping excavations free of water		Item	
	<b><u>FILLING, ETC.</u></b>			
	<b>Carried Forward</b>			R
	Section No. 3 GUARD HOUSE Bill No. 1 Earthworks			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u></b>			
3/1/8	Backfilling to trenches, holes, etc	m3	5
3/1/9	Under floors, steps, pavings, etc	m3	10
<b><u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u></b>			
3/1/10	Backfilling to trenches, holes, etc	m3	2
3/1/11	Under floors, steps, pavings, etc	m3	2
<b><u>Filling supplied by the Contractor under floors, trenches, etc.</u></b>			
3/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	2
<b><u>COMPACTION OF SURFACES</u></b>			
3/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	24
<b><u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u></b>			
<b><u>Protection against termites, ants, etc</u></b>			
3/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	24
3/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	44
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 3 GUARD HOUSE Bill No. 1 Earthworks			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><b><u>Formwork</u></b></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 2 Concrete, Formwork and Reinforcement</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".</p> <p>The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:-</p> <ul style="list-style-type: none"> <li>· Degree of accuracy: I</li> <li>· Finish: Smooth and even</li> <li>· Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>· Steel faced formwork. Joints grout-tight.</li> <li>· Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>· Formwork tie holes: to the approval of the architect</li> <li>· Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>· Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>· Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul> <p>Structural Concrete</p> <p>Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.</p>			R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 GUARD HOUSE Bill No. 2 Concrete, Formwork and Reinforcement</p>			R	

<b>Brought Forward</b>				<b>R</b>
<b><u>GENERAL NOTES TO TENDERERS</u></b>				
General notes, described in Bill No.1, shall equally apply to this Bill.				
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<b><u>15Mpa/19mm concrete</u></b>				
3/2/1	Blinding	m3	1	
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u></b>				
<b><u>25MPa/19mm Concrete</u></b>				
3/2/2	Strip footings	m3	3	
<b><u>REINFORCED CONCRETE CAST IN FORMWORK</u></b>				
<b><u>20Mpa/19mm concrete</u></b>				
3/2/3	Concrete Apron cast to fall etc,	m3	1	
<b><u>25MPa/19mm Concrete</u></b>				
3/2/4	Surface beds cast in panels	m3	1	
<b><u>TEST BLOCKS</u></b>				
<b><u>Notes:</u></b>				
Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
3/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1	
<b><u>SUNDRIES TO CONCRETE</u></b>				
<b>Carried Forward</b>				<b>R</b>
Section No. 3 GUARD HOUSE Bill No. 2 Concrete,Formwork and Reinforcement				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
<b><u>Surface treatment</u></b>			
3/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	24
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
<b><u>Rough formwork to sides</u></b>			
3/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	26
<b><u>MOVEMENTS JOINTS ETC,</u></b>			
<b><u>Expansion joints</u></b>			
3/2/8	10mm soft board or similar approved between concrete and brick wall	m	13
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>High and mild tensile steel reinforcement to structural concrete work</u></b>			
3/2/9	All diameter bars	t	0.2
<b><u>Fabric reinforcement:</u></b>			
3/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	10
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 3 GUARD HOUSE Bill No. 2 Concrete, Formwork and Reinforcement			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Sizes in descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><b><u>Hollow walls etc</u></b></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 3 GUARD HOUSE Bill No. 3 Masonry</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
<b><u>Pointing</u></b>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<b><u>BRICKWORK IN FOUNDATION</u></b>			
<b><u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u></b>			
3/3/1	One brick wall	m2	12
<b><u>SUPERSTRUCTURE BRICKWORK</u></b>			
<b><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></b>			
3/3/2	One brick wall	m2	41
3/3/3	Half brick wall	m2	9
3/3/4	Half brick wall, in beamfilling	m2	2
<b><u>FACE BRICKWORK</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<b><u>"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions</u></b>			
3/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	25
3/3/6	Extra over brickwork for face brickwork in superstructure	m2	41
3/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	10
<b>Carried Forward</b>			R
Section No. 3 GUARD HOUSE Bill No. 3 Masonry			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
3/3/8	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	10
3/3/9	Extra over brickwork for face brickwork in beamfilling	m2	2
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement</u></b>			
3/3/10	75mm Wide reinforcement built in horizontally	m	27
3/3/11	150mm Wide reinforcement built in horizontally.	m	194
<b><u>Precast concrete prestressed fabricated lintels</u></b>			
3/3/12	100 x 70mm Lintels in lengths not exceeding 3m	m	12
3/3/13	175 x 70mm Lintels in lengths not exceeding 3m	m	3
<b><u>Turning pieces</u></b>			
3/3/14	110mm Wide turning piece to flat brick lintels	m	12
<b><u>Air bricks etc</u></b>			
3/3/15	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	1
<b><u>Roof ties</u></b>			
3/3/16	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	15
<b><u>MOVEMENTS JOINTS ETC,</u></b>			
<b><u>Expansion joints</u></b>			
3/3/17	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	2
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 3 GUARD HOUSE Bill No. 3 Masonry			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WATERPROOFING</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>			
3/4/1	Under walls	m2	1	
3/4/2	Under cills, etc.	m2	2	
	<b><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></b>			
3/4/3	Under surface beds.	m2	24	
	<b><u>JOINTS SEALANTS, ETC.</u></b>			
	<b>Carried Forward</b>			R
	Section No. 3 GUARD HOUSE Bill No. 4 Waterproofing			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>			R
3/4/4	<p><b><u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u></b></p> <p>10mm Isolation Joints between surface bed concrete and brick wall</p>	m	13	
	<b>Carried Forward to Summary of Section No.</b>			R
	<p>Section No. 3 GUARD HOUSE Bill No. 4 Waterproofing</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<b><u>ROOF SHEETING</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer</u></b>			
3/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	25	
3/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	1	
3/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	12	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b>Carried Forward</b>			R
	Section No. 3 GUARD HOUSE Bill No. 5 Roof Coverings			



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Fixing</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 6 Carpentry and Joinery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>Timber</u></p> <p>All softwood to be South African Pine</p> <p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p> <p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p>			R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 GUARD HOUSE Bill No. 6 Carpentry and Joinery</p>			R	

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>		R
<b><u>ROOFS, ETC</u></b>		
<b><u>Plate nailed timber roof truss construction</u></b>		
The following is applicable in respect of roof trusses:		
All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.		
Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.		
All joints to be close fitted butt joints.		
<b>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</b>		
<b>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</b>		
<b>Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.</b>		
<b><u>Roof trusses</u></b>		
3/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2      21
<b><u>Sawn softwood</u></b>		
3/6/2	38 x 114mm Wall plates	m      18
<b><u>Sundries</u></b>		
3/6/3	Two coats creosote on sawn timbers	m2      7
<b><u>Similar Approved</u></b>		
<b>Carried Forward</b>		R
Section No. 3 GUARD HOUSE Bill No. 6 Carpentry and Joinery		

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
	<b><u>"Everite FC77" Fascia and badge boards</u></b>			
3/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	18	
	<b><u>DOORS ETC</u></b>			
	<b><u>44mm thick solid R&amp;F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u></b>			
3/6/5	813 x 2032mm single door	No	2	
3/6/6	914 x 2032mm single door	No	1	
	<b><u>WINDOWS</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>"Nutec" fibre cement window cills</u></b>			
3/6/7	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	10	
	<b>Carried Forward to Summary of Section No.</b>			R
	Section No. 3 GUARD HOUSE Bill No. 6 Carpentry and Joinery			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Fixing</u></b></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p><b><u>Ceilings &amp; Bulkheads</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 7 Ceilings,Partitions and Access Flooring</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>			R
	<p><b><u>Proprietary suspended ceilings</u></b></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><b><u>Suspension systems</u></b></p> <p>Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.</p> <p><b><u>NAILED UP CEILINGS</u></b></p> <p><b><u>FIBRE - CEMENT BOARDS</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications</u></b></p>			
3/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	11	
	<p><b><u>CORNICES</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>"Rhino" plasterboard cornice</u></b></p>			
3/7/2	75mm Coved cornice, plugged to brickwork	m	14	
	<b>Carried Forward</b>			R
	<p>Section No. 3 GUARD HOUSE Bill No. 7 Ceilings,Partitions and Access Flooring</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>			<b>R</b>
	<b><u>SUNDRIES</u></b>			
	<b><u>Extra over for Trap Doors</u></b>			
3/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1	
	<b><u>CEILING INSULATION</u></b>			
	<b><u>Insulation</u></b>			
3/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	11	
	<b>Carried Forward to Summary of Section No.</b>			
	Section No. 3 GUARD HOUSE Bill No. 7 Ceilings,Partitions and Access Flooring			<b>R</b>

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 8</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.</p> <p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 8 Ironmongery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>		R
<u>Finishes to ironmongery</u>		
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		
AN Anodised natural		
AS Anodised silver		
AB Anodised bronze		
AG Anodised gold		
ABL Anodised black		
PB Polished brass		
PL Polished and lacquered		
PT Epoxy coated		
SD Sanded		
<u>Rates</u>		
The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.		
<b><u>DOOR FURNITURE</u></b>		
<b><u>Similar Approved</u></b>		
<b><u>Handles</u></b>		
3/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)	Sets 3.0
<b><u>Locks</u></b>		
3/8/2	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No 3
3/8/3	SC 150mm Cabin hook (Code: CH 150)	No 1
<b><u>Kick and push plates</u></b>		
3/8/4	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No 6
<b>Carried Forward</b>		R
Section No. 3 GUARD HOUSE Bill No. 8 Ironmongery		

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	Brought Forward				
	<b><u>SUNDRIES</u></b>				R
	<b><u>Approved</u></b>				
3/8/5	"CZ8730SC" Door stop or similarly approved to wall or floors	No	3		
	<b>Carried Forward to Summary of Section No.</b>				R
	Section No. 3 GUARD HOUSE Bill No. 8 Ironmongery				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ALUMINIUM</u></b></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><b><u>SPECIFICATIONS</u></b></p> <p>User Note:</p> <p><b><u>Glazing</u></b></p> <p>All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.</p> <p><b><u>Ironmongery</u></b></p> <p>All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 9 Metalwork</p>			

	<b>Brought Forward</b>		R
<p><b><u>Actuators</u></b></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><b><u>Scaffolding</u></b></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><b><u>Protection</u></b></p> <p>With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price.</p> <p><b><u>Installation</u></b></p> <p>All measurements to be checked on site prior to ordering and manufacturing.</p> <p>Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing.</p> <p>Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.</p> <p><b><u>Profiles</u></b></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><b><u>Structural Silicone</u></b></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>			
	<b>Carried Forward</b>		R
<p>Section No. 3 GUARD HOUSE Bill No. 9 Metalwork</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<p style="text-align: center;"><b>Brought Forward</b></p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><b><u>Tolerances:</u></b></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><b><u>Protection:</u></b></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><b><u>Cleaning:</u></b></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p>Note: All windows and doors should be read in conjunction with window and door schedules</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 GUARD HOUSE Bill No. 9 Metalwork</p>		R	

Brought Forward			R
<b><u>WELDED SCREENS, GATES, ETC.</u></b>			
<b><u>Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications</u></b>			
3/9/1	Steel gate to door, size 813mm x 2032mm high	No	1
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<b><u>1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u></b>			
3/9/2	813 x 2032mm single door	No	1
<b><u>1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u></b>			
3/9/3	813 x 2032mm single door	No	1
3/9/4	914 x 2032mm single door	No	1
<b><u>WINDOWS FRAMES, etc.</u></b>			
<b><u>Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification</u></b>			
3/9/5	Window size 1511 x 1272mm high	No	1
3/9/6	Window size 1022 x 900mm high	No	4
3/9/7	Window size 1022 x 949mm high	No	4
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 3 GUARD HOUSE Bill No. 9 Metalwork			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLASTERING</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<b><u>SCREEDS</u></b>			
	<b><u>Granolithic screed on concrete, worked down to a true and even surface with a wood trowel</u></b>			
3/10/1	30mm Thick on floors	m2	11	
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u></b>			
3/10/2	On brick walls	m2	54	
3/10/3	On narrow widths	m2	5	
	<b>Carried Forward to Summary of Section No.</b>			R
	Section No. 3 GUARD HOUSE Bill No. 10 Plastering			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 11</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Pricing</u></b></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><b><u>Fixing</u></b></p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.</p> <p>Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 11 Tiling</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>			R
	<p><b><u>Wastage</u></b></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Note</u></p> <p>All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.</p> <p><b><u>WALL TILING</u></b></p> <p><b><u>150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications</u></b></p>			
3/11/1	Splash backs	m2	0.4	
	<p><b><u>ATTIC STOCK</u></b></p>			
3/11/2	150 x 150 x 6mm ceramic tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	1	
	<p><b><u>SUNDRIES</u></b></p> <p><b><u>10mm aluminium straight edge trim</u></b></p>			
3/11/3	Dividing strip between tiles and door frames	m	1	
	<b>Carried Forward to Summary of Section No.</b>			R
	<p>Section No. 3 GUARD HOUSE Bill No. 11 Tiling</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>uPVC pipes and fittings:</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p><u>Excavations:</u></p> <p>No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.</p> <p>"Intermediate material" and " hard rock" shall be as defined in "Earthworks".</p> <p>Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 12 Plumbing and Drainage</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>		R
Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.		
<u>Laying, backfilling, bedding, etc., of pipes:</u>		
Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions		
<b><u>GENERAL NOTES TO TENDERERS</u></b>		
General notes, described in Bill No.1, shall equally apply to this Bill.		
<b><u>RAINWATER GOODS</u></b>		
<b><u>Similar Approved</u></b>		
<b><u>Gutters</u></b>		
3/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m 18
3/12/2	Extra over eaves gutter for stopped end	No 2
3/12/3	Extra over eaves gutter for corner	No 8
3/12/4	Extra over eaves gutter for outlet	No 2
<b><u>Rainwater downpipes</u></b>		
3/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m 7
3/12/6	Extra over downpipe for offset	No 4
3/12/7	Extra over downpipe for shoe	No 2
<b><u>SANITARY FITTINGS</u></b>		
Refer to sanitary schedule drawing for full description of abbreviations		
<b>Carried Forward</b>		R
Section No. 3 GUARD HOUSE Bill No. 12 Plumbing and Drainage		

LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL

		Brought Forward		R
<b><u>WASH HAND BASINS</u></b>				
<b><u>Similar Approved</u></b>				
<b><u>Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b>				
3/12/8	WHB	No	1	
<b><u>WATER CLOSET</u></b>				
<b><u>Similar Approved</u></b>				
<b><u>Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b>				
3/12/9	WC, installed complete	No	1	
<b><u>TOILET ROLL HOLDER</u></b>				
<b><u>To be approved by Architect</u></b>				
3/12/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	1	
<b><u>TAPS, VALVES, ETC</u></b>				
<b><u>Similar Approved</u></b>				
3/12/11	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	5	
3/12/12	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	5	
<b>Carried Forward to Summary of Section No.</b>				R
Section No. 3 GUARD HOUSE Bill No. 12 Plumbing and Drainage				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 13</u></b>			
	<b><u>GLAZING</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>Note:</u>			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	<b><u>GLASS TO STEEL WITH PUTTY</u></b>			
	<b><u>5mm clear floated glass fixed glazing putty</u></b>			
3/13/1	Panes not exceeding 0.1m2	m2	8	
3/13/2	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	1	
	<b><u>TOPS, SHELVES, DOORS, MIRROR ETC</u></b>			
	<b><u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u></b>			
3/13/3	Mirror 400 x 600 mm high	No	1	
	<b>Carried Forward to Summary of Section No.</b>			R
	Section No. 3 GUARD HOUSE Bill No. 13 Glazing			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 14</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>			
	<b><u>FIBRE CEMENT</u></b>			
	<b><u>Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect</u></b>			
3/14/1	On internal ceilings and cornices	m2	12	
3/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	18	
	<b><u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u></b>			
3/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	10	
	<b><u>FLOATED PLASTER INTERNAL WALLS</u></b>			
	<b>Carried Forward</b>			R
	Section No. 3 GUARD HOUSE Bill No. 14 Paintwork			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
	<u>Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect</u>		
3/14/4	Plastered walls	m2	54
	<b><u>METAL SURFACES</u></b>		
	<u>Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect</u>		
3/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	4
3/14/6	On window frames	m2	9
3/14/7	On door frames	m2	4
3/14/8	On gutters	m	18
3/14/9	On downpipes	m	7
	<b><u>WOOD</u></b>		
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u>		
3/14/10	On door	m2	7
	<u>Prepare and paint three coats clear varnish:</u>		
3/14/11	On door	m2	3
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 3 GUARD HOUSE Bill No. 14 Paintwork			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 15</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 3 GUARD HOUSE Bill No. 15 Provisional Sums</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p> <p><b><u>CCTV INSTALLATION</u></b></p>			
3/15/1	Allow the amount of R120 000.00 (One Hundred and Twenty Thousand) for CCTV installation, installed complete.	Item		120 000.00
3/15/2	Attendance		%	
3/15/3	Profit		%	
	<b>Carried Forward to Summary of Section No.</b>		R	
	Section No. 3 GUARD HOUSE Bill No. 15 Provisional Sums			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Bill No</b>	<b>SECTION SUMMARY</b>	<b>Page No</b>	<b>Amount</b>
3/1	Earthworks	3/3	
3/2	Concrete,Formwork and Reinforcement	3/7	
3/3	Masonry	3/10	
3/4	Waterproofing	3/12	
3/5	Roof Coverings	3/14	
3/6	Carpentry and Joinery	3/18	
3/7	Ceilings,Partitions and Access Flooring	3/21	
3/8	Ironmongery	3/24	
3/9	Metalwork	3/28	
3/10	Plastering	3/29	
3/11	Tiling	3/31	
3/12	Plumbing and Drainage	3/34	
3/13	Glazing	3/35	
3/14	Paintwork	3/37	
3/15	Provisional Sums	3/39	
	<b>Carried to Final Summary</b>		R
	Section No. 3 GUARD HOUSE		

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>DEMOLITIONS AND ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Subterranean water</u></b></p> <p>No subterranean water is expected</p> <p><b><u>Excavation for working space in rock</u></b></p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be</p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><b><u>Filling</u></b></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material</p> <p style="text-align: center;">_____</p> <p><b><u>Testing</u></b></p> <p><i>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D</i></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 1 Demolitions and Alterations</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R
<p><b><u>Existing structures</u></b></p> <p>In taking down and removing existing work, the utmost care shall be taken to prevent any structural or other damage to the remaining portions on the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work, Any damage to the structure and/or building as well as the rectification of same will be for the contractor's account</p> <p><b><u>Services</u></b></p> <p>Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary.</p> <p><b><u>Dust and noise</u></b></p> <p>The Contractor is to take all necessary precautions to the satisfaction of the Representative/Agent to prevent any nuisance from the dust and /or noise whilst carrying out the work.</p> <p><b><u>Disposal of debris</u></b></p> <p>The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work which removal is deemed to be included in the rates unless otherwise stated.</p> <p>Rates for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p><b><u>Temporary support to openings through existing walls</u></b></p> <p>Making openings, altering openings in existing walls and removing lintels above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling, strutting, turning pieces, etc. to walls openings is deemed to be included in the contractor's rates.</p>			
<b>Carried Forward</b>			
<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 1 Demolitions and Alterations</p>			R

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Electrical and Mechanical</u></b></p> <p>Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.</p> <p>Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard</p> <p>Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.</p> <p>Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 1 Demolitions and Alterations</p>		R	

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
<p>Tenderers are to fully acquaint themselves with the construction period and shall allow for any night shift if required. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p><b><u>REMOVAL OF EXISTING WORK</u></b></p> <p><b><u>Demolitions of existing structures all complete</u></b></p>			
4/1/1	Single storey brick and mortar classroom block with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses, including wash hand basins & WC porcelain close couple and with plumbing complete.	m2	207
<p><b><u>Breaking up/demolishing and removal of walls, slabs, surface beds etc</u></b></p>			
4/1/2	100mm thick concrete aprons	m2	180
4/1/3	25mm thick concrete screed	m2	1 660
<p><b><u>Taking down and removing panelling, ceilings, partitions, etc</u></b></p>			
4/1/4	Nailed-up ceilings including brandering	m2	1 840
4/1/5	Ceiling trap door	No	14
<p><b><u>Taking out and removing glass and mirrors</u></b></p>			
4/1/6	Glass from steel windows including cleaning out rebates and preparing to receive new glass	m2	315
<p><b><u>Hacking up/off and removing floor tile and wall finishes, including removing mortar bed or backing from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u></b></p>			
4/1/7	Ceramic tiles to walls including preparing walls to receive new wall tiles	m2	1 840
<p><b><u>Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)</u></b></p>			
4/1/8	813mm x 2032mm high timber door including metal frame, ironmongery etc.	No	24
<p><b><u>Taking out and removing ironmongery</u></b></p>			
4/1/9	Remove pinning board and make good wall finishes	No	51
<b>Carried Forward</b>			R
<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 1 Demolitions and Alterations</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
4/1/10	Remove green chalk board and make good wall finishes	No	16	
4/1/11	Remove brass sliding stays, peg stay, handles window ironmongery	No	315	
	<b><u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u></b>			
4/1/12	Remove water closet with cistern and make good wall and floor finishes	No	2	
4/1/13	Remove wash hand basin and make good wall finishes	No	2	
	<b><u>Taking out and removing sundry joinery work</u></b>			
4/1/14	Timber skirting from brickwork	m	834	
	<b><u>Taking out and removing roof coverings, roof accessories and rainwater disposal fittings, keeping roof structure intact</u></b>			
4/1/15	Remove roof sheeting, roof accessories, timber roof structure, ceilings etc.	m2	1 840	
4/1/16	Remove steel gutters, keeping barge boards intact	m	238	
4/1/17	Remove barge board	m	146	
4/1/18	Remove fascia board	m	738	
4/1/19	Remove ridge capping, keeping roof covering intact	m	162	
	<b><u>Repairing cracks</u></b>			
4/1/20	On plastered brick walls	m2	91	
	<b><u>Making good plaster</u></b>			
4/1/21	Wall plaster in patches	m2	119	
	<b><u>Face bricks</u></b>			
4/1/22	Clean and treat face bricks with approved oxidation preventative solution	m2	1 120	
<b>Carried Forward to Summary of Section No.</b>				R
Section No. 4				
DEMOLITION OF 3 CLASSROOM & RENOVATION OF				
Bill No. 1				
Demolitions and Alterations				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>NOTES</u></b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><b><u>Filling</u></b></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p> <p><b><u>EXCAVATION OTHER THAN BULK, ETC</u></b></p> <p><b><u>Excavation in earth not exceeding 2m deep</u></b></p>			
4/2/1	Holes	m3	81	
	<p><b><u>Extra over trench and hole excavations in earth for excavation in</u></b></p>			
4/2/2	Soft rock	m3	8	
4/2/3	Hard rock	m3	4	
	<b>Carried Forward</b>			R
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 2 Earthworks</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
	<b><u>Extra over all excavations for carting away</u></b>		
4/2/4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	81
	<b><u>Keeping excavations free of water</u></b>		
4/2/5	Keeping excavations free of water		Item
	<b><u>Selected (G5) layer earth filling supplied by the contractor, compacted in 150mm thick layers, compacted to 93% Mod AASHTO density</u></b>		
4/2/6	Under floors, steps, pavings, etc	m3	12
	<b><u>COMPACTION OF SURFACES</u></b>		
	<b><u>Prepare ground surface by scarifying for a depth of 150mm, breaking down oversized material, adding suitable material where necessary and re-compacting to 90% modified AASHTO density</u></b>		
4/2/7	Under floors, steps, paving, etc	m2	230
	<b><u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u></b>		
	<b><u>Protection against termites, ants, etc</u></b>		
4/2/8	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	230
<b>Carried Forward to Summary of Section No.</b>			
Section No. 4			R
DEMOLITION OF 3 CLASSROOM & RENOVATION OF			
Bill No. 2			
Earthworks			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><b><u>Formwork</u></b></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 3 Concrete,Formwork and Reinforcement</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".</p> <p>The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:-</p> <ul style="list-style-type: none"> <li>· Degree of accuracy: I</li> <li>· Finish: Smooth and even</li> <li>· Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>· Steel faced formwork. Joints grout-tight.</li> <li>· Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>· Formwork tie holes: to the approval of the architect</li> <li>· Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>· Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>· Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul> <p>Structural Concrete</p> <p>Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b></p> <p><b><u>10MPa/19mm concrete</u></b></p>			
4/3/1	Surface blinding under bases	m3	4	
	<b>Carried Forward</b>		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 3 Concrete, Formwork and Reinforcement</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
<b><u>20MPa/19mm concrete</u></b>			
4/3/2	Holes	m3	34
4/3/3	Concrete apron, cast to falls	m3	180
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>30MPa/19mm concrete</u></b>			
4/3/4	Surface beds	m3	5
<b><u>TEST BLOCKS</u></b>			
<b><u>Notes:</u></b>			
Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)			
4/3/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	61
<b><u>SUNDRIES TO CONCRETE</u></b>			
<b><u>Surface treatment</u></b>			
4/3/6	Power float top surface of concrete surface bed to a true and even level finish	m2	180
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
<b><u>Rough formwork to sides</u></b>			
4/3/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	54
<b><u>High tensile steel reinforcement</u></b>			
4/3/8	All diameter bars	t	0.80
<b><u>Fabric reinforcement</u></b>			
4/3/9	Type 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	180
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 3 Concrete, Formwork and Reinforcement			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Sizes in descriptions</u></b></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><b><u>Hollow walls etc</u></b></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.</p> <p><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><u>Pointing</u></b></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p><b><u>BRICKWORK IN FOUNDATION</u></b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 4 Masonry</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
	<b><u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar</u></b>		
4/4/1	One brick wall	m2	58
	<b><u>SUPERSTRUCTURE BRICKWORK</u></b>		
	<b><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></b>		
4/4/2	One brick wall	m2	25
	<b><u>FACE BRICKWORK</u></b>		
	Bricks shall be ordered timeously to obtain uniformity in size and colour		
	<b><u>"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions</u></b>		
4/4/3	Extra over brickwork for face brickwork in superstructure	m2	37
	<b><u>BRICKWORK SUNDRIES</u></b>		
	<b><u>Brickwork reinforcement</u></b>		
4/4/4	150mm wide reinforcement built in horizontally.	m	38
<b>Carried Forward to Summary of Section No.</b>			
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 4 Masonry			R

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 5</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b></p> <p><b><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></b></p>			
4/5/1	Under surface beds.	m2	180	
	<p><b><u>PROTECTIVE ROOFING PAINT</u></b></p> <p><b><u>Two coats bituminous aluminium paint</u></b></p>			
4/5/2	On roofs	m2	293	
	<p><b>Carried Forward to Summary of Section No.</b></p>			
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 5 Waterproofing</p>			
				R

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 6</u></b>			
	<b><u>ROOF COVERINGS</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<b><u>ROOF SHEETING</u></b>			
	<b><u>Similar Approved</u></b>			
	<b><u>0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer</u></b>			
4/6/1	Roof sheeting pitch not exceeding 25 degrees	m2	2 392	
4/6/2	550mm girth ridge capping, 3 times bent and notched on site to suit roof profile	m	162	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>Similar Approved</u></b>			
	<b>Carried Forward</b>			
	R			
	Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 6 Roof Coverings			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>			R	
4/6/3	<p><b><u>Sisalation "Bubble Foil" aluminium foil banded insulation</u></b></p> <p>135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories</p>	m2	2 393		
	<b>Carried Forward to Summary of Section No.</b>			R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 6 Roof Coverings</p>				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 7</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Fixing</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>Timber</u></p> <p>All softwood to be South African Pine</p> <p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 7 Carpentry and Joinery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<p style="text-align: center;"><b>Brought Forward</b></p> <p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p> <p><b><u>ROOFS, ETC</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>Roof trusses</u></b></p> <p>4/7/1 Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan) m2 1 754</p>		R	
	<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 7 Carpentry and Joinery</p>		R	

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
<b><u>"Everite FC77" fascia and barge boards</u></b>				
4/7/2	15 x 225mm pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per Architect's specification	m	738	
4/7/3	15 x 225mm pressed fibre cement barge boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per Architect's specification	m	146	
<b><u>DOORS ETC</u></b>				
<b><u>44mm thick solid R&amp;F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u></b>				
4/7/4	813 x 2032mm single door	No	32	
4/7/5	914 x 2032mm single door	No	36	
<b>Carried Forward to Summary of Section No.</b>				R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 7 Carpentry and Joinery				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 8</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Fixing</u></b></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p><b><u>Ceilings &amp; Bulkheads</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p><b><u>Proprietary suspended ceilings</u></b></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 8 Ceilings,Partitions and Access Flooring</p>			R

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
	<p>Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><b><u>Suspension systems</u></b></p> <p>Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.</p> <p><b><u>NAILED UP CEILINGS</u></b></p> <p><b><u>FIBRE - CEMENT BOARDS</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications</u></b></p>			
4/8/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	1 754	
4/8/2	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	15	
	<p><b><u>CORNICES</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>"Rhino" plasterboard cornice</u></b></p>			
4/8/3	75mm Coved cornice, plugged to brickwork	m	760	
	<p><b><u>CEILING INSULATION</u></b></p>			
	<b>Carried Forward</b>			R
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 8 Ceilings,Partitions and Access Flooring</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>			R
4/8/4	<p><b><u>Insulation</u></b></p> <p>125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.</p>	m2	1 754	
	<b>Carried Forward to Summary of Section No.</b>			R
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 8 Ceilings,Partitions and Access Flooring</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 9</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.</p> <p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 9 Ironmongery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
<p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p> <p>AB Anodised bronze            ABL Anodised black            AG Anodised gold            AN Anodised natural            AS Anodised silver            BS Satin bronze lacquered            CH Chromium plated            GE Grey enamelled            NP Nickel plated            PB Polished brass            PL Polished and lacquered            PT Epoxy coated            SC Satin chromium plated            SD Sanded            SE Silver enamelled            SN Satin nickel            SS Stainless steel</p> <p><u>Rates</u></p> <p>The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.</p> <p><b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.</u></b></p> <p><b><u>Pinning board consisting of pinning material/carpet surface laminated to a soft board core, complete with beading all around with a natural anodised aluminium channel surround, and surround mitred at the corners</u></b></p>			
4/9/1	<p>2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations</p>	No	32
<p><b><u>Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray</u></b></p>			
4/9/2	<p>2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations</p>	No	28
<b>Carried Forward</b>			R
<p>Section No. 4            DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF            Bill No. 9            Ironmongery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			<b>R</b>
<b><u>DOOR FURNITURE</u></b>			
<b><u>Similar Approved</u></b>			
<b><u>Handles</u></b>			
4/9/3	SS Pull handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 6 countersunk holes for screw fixing (Code: DHP-430-BL 150X300)	No	7
<b><u>Locks</u></b>			
4/9/4	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	7
4/9/5	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	24
4/9/6	SC 150mm Cabin hook (Code: CH 150)	No	17
<b><u>Kick and push plates</u></b>			
4/9/7	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	48
4/9/8	SS 150 x 300 x 1.2mm thick Grade 430 steel plate, with cylinder cutout right, with steel plate to have 6 countersunk holes for screw fixing (Code: DPP-430-CR 150X300)	No	7
<b><u>Panic hardware</u></b>			
4/9/9	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	17
4/9/10	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	17
<b><u>Door closers</u></b>			
4/9/11	Non hold open cam action slide channel door closer for 950mm maximum door width, with closing force EN 3, with hydraulic speed control, with pull-side door leaf fixing (standard) and push-side transom fixing (Colour: Silver) (Code: TS91B)	No	7
<b><u>Sundries</u></b>			
4/9/12	Male / Female fixing screws (Qty 4 per pack)	Sets	7
<b>Carried Forward</b>			<b>R</b>
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 9 Ironmongery			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
4/9/13	NP floor mounted Door stop (Code: DDS-NP-018)	No	7
<b><u>WINDOW FURNITURE</u></b>			
<b><u>Similar Approved</u></b>			
4/9/14	Brass spring catch	No	15
4/9/15	Brass peg stay	No	150
4/9/16	Brass handle	No	150
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 9 Ironmongery			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 10</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ALUMINIUM</u></b></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><b><u>SPECIFICATIONS</u></b></p> <p>User Note:</p> <p><b><u>Glazing</u></b></p> <p>All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.</p> <p><b><u>Ironmongery</u></b></p> <p>All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.</p> <p><b><u>Actuators</u></b></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 10 Metalwork</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
<p><b><u>Scaffolding</u></b></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><b><u>Protection</u></b></p> <p>With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price.</p> <p><b><u>Installation</u></b></p> <p>All measurements to be checked on site prior to ordering and manufacturing.</p> <p>Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing.</p> <p>Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.</p> <p><b><u>Profiles</u></b></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><b><u>Structural Silicone</u></b></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p>				
<b>Carried Forward</b>				
<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 10 Metalwork</p>			R	

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Fixing:</u></b></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><b><u>Tolerances:</u></b></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><b><u>Protection:</u></b></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><b><u>Cleaning:</u></b></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p>Note: All windows and doors should be read in conjunction with window and door schedules</p>			R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 10 Metalwork</p>			R	

LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL

Brought Forward			R
<b><u>WELDED SCREENS, GATES, ETC.</u></b>			
<b><u>Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications</u></b>			
4/10/1	Steel gate to door, size 914mm x 2032mm high	No	14
4/10/2	Steel gate to door, size 1500 x 2032mm high	No	4
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<b><u>1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u></b>			
4/10/3	914 x 2032mm single door	No	20
<b><u>1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u></b>			
4/10/4	813 x 2032mm single door	No	32
4/10/5	914 x 2032mm single door	No	16
<b><u>CEILING MESH</u></b>			
<b><u>304/VEM 320G expanded metal mesh size 1200mm x 2400mm manufactured in accordance with SANS 190-1:1983 fixed to 76 x 50mm timber purlins using 40x 0.5mm hat channels @ 400mm centres with 12 x 20mm tac screws.</u></b>			
4/10/6	In Ceiling voids	m2	380
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 10 Metalwork			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 11</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>SCREEDS</u></b></p> <p><b><u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u></b></p>			
4/11/1	30mm thick on floors and landings	m2	905	
	<p><b>Carried Forward to Summary of Section No.</b></p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 11 Plastering</p>			R

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 12</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Pricing</u></b></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><b><u>Fixing</u></b></p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.</p> <p>Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.</p> <p><b><u>Wastage</u></b></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 12 Tiling</p>			R

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
	<u>Note</u>		
	All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.		
	<b><u>FLOOR TILING</u></b>		
	<b><u>420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementitious grout</u></b>		
4/12/1	On floors	m2	1 273
4/12/2	75mm high skirting	m	1 307
	<b><u>ATTIC STOCK</u></b>		
4/12/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	127
	<b><u>SUNDRIES</u></b>		
	<b><u>10mm aluminium straight edge trim</u></b>		
4/12/4	Dividing strip between tiles and door frames	m	14
	<b><u>25 x 25mm aluminium angle</u></b>		
4/12/5	Trim to edge of concrete, to be secured with screws	m	18
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 4			
DEMOLITION OF 3 CLASSROOM & RENOVATION OF			
Bill No. 12			
Tiling			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 13</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>uPVC pipes and fittings:</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p><u>Excavations:</u></p> <p>No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.</p> <p>"Intermediate material" and " hard rock" shall be as defined in "Earthworks".</p> <p>Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.</p> <p>Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.</p> <p><u>Laying, backfilling, bedding, etc., of pipes:</u></p> <p>Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 13 Plumbing and Drainage</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
<b><u>GENERAL NOTES TO TENDERERS</u></b>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<b><u>RAINWATER GOODS</u></b>			
<b><u>Similar Approved</u></b>			
<b><u>Gutters</u></b>			
4/13/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	238
4/13/2	Extra over eaves gutter for outlet	No	28
<b><u>Rainwater downpipes</u></b>			
4/13/3	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	126
4/13/4	Extra over rainwater pipe for offset	No	56
4/13/5	Extra over rainwater pipe for shoe	No	28
4/13/6	Extra over rainwater pipe for bend	No	42
<b><u>SANITARY FITTINGS</u></b>			
Refer to sanitary schedule drawing for full description of abbreviations			
<b><u>WASH HAND BASINS</u></b>			
<b><u>Similar Approved</u></b>			
<b><u>Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b>			
4/13/7	WHB, installed complete	No	2
<b><u>WATER CLOSET</u></b>			
<b><u>Similar Approved</u></b>			
<b>Carried Forward</b>			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 13 Plumbing and Drainage			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
	<p><b><u>Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b></p>		
4/13/8	WC, installed complete	No	2
	<p><b><u>TOILET ROLL HOLDER</u></b></p> <p><b><u>To be approved by Architect</u></b></p>		
4/13/9	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	2
	<p><b><u>TAPS, VALVES, ETC</u></b></p> <p><b><u>Similar Approved</u></b></p>		
4/13/10	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	14
	<p><b><u>TANKS</u></b></p> <p><b><u>Similar Approved</u></b></p>		
4/13/11	1900mm dia. x 2040mm high 2500L JoJo water storage tank (Colour: JoJo Green), installed on a brick base with compacted fill (measured elsewhere)	No	14
	<p>Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions</p> <p><b><u>FIRE FIGHTING EQUIPMENT</u></b></p> <p><b><u>Extinguishers including initial charge and setting up in position:</u></b></p>		
4/13/12	9kg dry chemical powder fire extinguisher	No	17
4/13/13	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	7
	<p><b><u>TESTING</u></b></p>		
4/13/14	Testing water pipe system		Item
<b>Carried Forward</b>			R
<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 13 Plumbing and Drainage</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
4/13/15	<p><b><u>BUDGETARY ALLOWANCE</u></b></p> <p>Allow an amount of R25 076.16 (Twenty Five Thousand and Seventy Six and Sixteen) for the supply and installation of Sanitary Fitting Sundries</p>	Item		25 076.16
	<b>Carried Forward to Summary of Section No.</b>		R	
	Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 13 Plumbing and Drainage			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 14</u></b>			
	<b><u>GLAZING</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<b><u>GENERAL NOTES TO TENDERERS</u></b>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>Note:</u>			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	<b><u>GLASS TO STEEL WITH PUTTY</u></b>			
	<b><u>5mm clear floated glass fixed glazing putty</u></b>			
4/14/1	Panes not exceeding 0.1m2	m2	311	
4/14/2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	2	
4/14/3	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	2	
	<b><u>TOPS, SHELVES, DOORS, MIRROR ETC</u></b>			
	<b><u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u></b>			
4/14/4	Mirror 400 x 600 mm high	No	2	
	<b>Carried Forward to Summary of Section No.</b>			
	Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 14 Glazing			R

LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 15</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>PAINTWORK TO PREVIOUS PAINTED</u></b></p> <p><b><u>FLOATED PLASTER INTERNAL WALLS</u></b></p> <p><b><u>Prepare and apply one coat merit universal undercoat and two coats super Acrylic PVA paint or similar approved, colour to be confirmed by Architect</u></b></p>			
4/15/1	On walls	m2	4 192	
	<p><b><u>FIBRE CEMENT</u></b></p> <p><b><u>Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by Architect</u></b></p>			
4/15/2	On internal ceilings and cornices	m2	380	
	<p><b><u>METAL SURFACES</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by Architect</u></b></p>			
4/15/3	On window frames	m2	630	
4/15/4	On door frames	m2	31	
	<b>Carried Forward</b>			R
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM &amp; RENOVATION OF Bill No. 15 Paintwork</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>				R
4/15/5	On roof sheeting	m2	382	
4/15/6	On steel columns	m2	34	
<b><u>BRICKWORK</u></b>				
<b><u>Similar Approved</u></b>				
<b><u>Three coats brick dressing</u></b>				
4/15/7	On face brickwork	m2	1 120	
<b><u>PAINTWORK ETC TO NEW WORK</u></b>				
<b><u>FIBRE CEMENT</u></b>				
<b><u>Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by Architect</u></b>				
4/15/8	On internal ceilings and cornices	m2	1 820	
4/15/9	Fibre cement fascia/barge boards	m2	469	
<b><u>METAL SURFACES</u></b>				
<b><u>Similar Approved</u></b>				
<b><u>Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by Architect</u></b>				
4/15/10	On door frames	m2	71	
4/15/11	On gutters	m	238	
4/15/12	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	56	
4/15/13	On downpipes	m	28	
<b><u>WOOD</u></b>				
<b><u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by Architect</u></b>				
4/15/14	On door	m2	84	
<b>Carried Forward to Summary of Section No.</b>				
Section No. 4				R
DEMOLITION OF 3 CLASSROOM & RENOVATION OF				
Bill No. 15				
Paintwork				

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Bill No</b>	<b>SECTION SUMMARY</b>	<b>Page No</b>	<b>Amount</b>
4/1	Demolitions and Alterations	4/5	
4/2	Earthworks	4/7	
4/3	Concrete, Formwork and Reinforcement	4/10	
4/4	Masonry	4/12	
4/5	Waterproofing	4/13	
4/6	Roof Coverings	4/15	
4/7	Carpentry and Joinery	4/18	
4/8	Ceilings, Partitions and Access Flooring	4/21	
4/9	Ironmongery	4/25	
4/10	Metalwork	4/29	
4/11	Plastering	4/30	
4/12	Tiling	4/32	
4/13	Plumbing and Drainage	4/36	
4/14	Glazing	4/37	
4/15	Paintwork	4/39	
	<b>Carried to Final Summary</b>		
	Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF		R

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>BUDGETARY ALLOWANCES</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 5 PROVISIONAL SUMS Bill No. 1 Budgetary Allowance</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p> <p><b><u>LOCAL AUTHORITY FEES</u></b></p> <p><b><u>Local authority fees for connections</u></b></p>			
5/1/1	Provide the sum of R35 000.00 (Thirty Five Thousand) for sewer, water and electrical connections, etc to the local authority	Item		35 000.00
	<p><b><u>MOBILES ON SITE</u></b></p> <p><b><u>Relocation of mobiles</u></b></p>			
5/1/2	Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand) for the relocation of mobiles	Item		250 000.00
	<p><b><u>NUTRITION CENTRE</u></b></p> <p><b><u>Earthworks</u></b></p>			
5/1/3	Provide the sum of R100 000.00 (One Hundred Thousand) for additional earthworks for the Nutrition Centre	Item		100 000.00
	<p><b><u>Electrical works</u></b></p>			
5/1/4	Provide the sum of R208 000.00 (Two Hundred and Eight Thousand) for the electrical installation to the Nutrition Centre	Item		208 000.00
	<b>Carried Forward to Summary of Section No.</b>		R	
	Section No. 5 PROVISIONAL SUMS Bill No. 1 Budgetary Allowance			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO. 2</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 5 PROVISIONAL SUMS Bill No. 2 Provisional Sums</p>			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

	<b>Brought Forward</b>		R	
	<u>General attendance on nominated/selected subcontractors</u>			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	<u>Builder's work</u>			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	<b><u>Signage Installation</u></b>			
5/2/1	Allow an amount of R25 500.00 (Twenty Five Thousand Five Hundred) for the supply and installation of Signage	Item		25 500.00
5/2/2	Attendance		%	
5/2/3	Profit		%	
	<b><u>Joinery Fittings</u></b>			
5/2/4	Allow an amount of R378 065.00 (Three Hundred and Seventy Eight Thousand and Sixty Five) for the supply and installation of Joinery Fittings	Item		378 065.00
5/2/5	Attendance		%	
5/2/6	Profit		%	
	<b><u>School Furniture and Fittings</u></b>			
5/2/7	Allow an amount of R2 865 000.00 (Two Million Eight Hundred and Sixty Five Thousand) for the supply and installation of School Furniture and Fittings	Item		2 865 000.00
5/2/8	Attendance		%	
5/2/9	Profit		%	
	<b>Carried Forward</b>		R	
	Section No. 5 PROVISIONAL SUMS Bill No. 2 Provisional Sums			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

<b>Brought Forward</b>			R
<b><u>Decanting Allowance</u></b>			
5/2/10	Allow an amount of R2 397 150.00 (Two Million Three Hundred and Ninety Seven Thousand One Hundred and Fifty) for provision of decanting	Item	2 397 150.00
5/2/11	Attendance		%
5/2/12	Profit		%
<b><u>Community Liaison Officer</u></b>			
5/2/13	Allow an amount of R180 000.00 (One Hundred and Eighty Thousand) for provision of Community Liaison Officer	Item	180 000.00
5/2/14	Attendance		%
5/2/15	Profit		%
<b><u>Project Steering Committee</u></b>			
5/2/16	Allow an amount of R36 000.00 (Thirty Six Thousand) for provision of Project Steering Committee	Item	36 000.00
5/2/17	Attendance		%
5/2/18	Profit		%
<b><u>WORK EXECUTED BY SEPARATE DIRECT SERVICE PROVIDERS</u></b>			
<p>The following work will be executed by Service Providers under direct agreement with the Employer. The Contractor is to accommodate these Service Providers and allow them to execute their work unhindered and allow them the use of water and toilet facilities. Damage caused by these Service Providers to work completed by the principal Contractor is to be recorded in detail to enable the Employer to counter-charge the direct Service Providers the cost of making good such damages.</p>			
<b>Carried Forward</b>			R
Section No. 5 PROVISIONAL SUMS Bill No. 2 Provisional Sums			

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
<b><u>Occupational Health and Safety Consultant</u></b>			
5/2/19	Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of an Occupational Health and Safety Consultant	Item	500 000.00
5/2/20	Attendance		%
5/2/21	Profit		%
<b><u>Social Facilitator</u></b>			
5/2/22	Allow an amount of R340 000.00 (Three Hundred and Forty Thousand) for provision of a Social Facilitator	Item	340 000.00
5/2/23	Attendance		%
5/2/24	Profit		%
<b>Carried Forward to Summary of Section No.</b>			R
Section No. 5 PROVISIONAL SUMS Bill No. 2 Provisional Sums			



**MOLESHATLOU SECONDARY SCHOOL**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1	MV Reticulation	
2	LV Reticulation	
3	3 Classroom Block 1 Renovations	
4	3 Classroom Block 2 Renovations	
5	3 Classroom Block 3 Renovations	
6	3 Classroom Block 4 Renovations	
7	3 Classroom Block 5 Renovations	
8	Administration Block 1 Renovations	
9	Administration Block 1 Renovations	
10	Public Address	
11	Area Lighting	
12	HVAC	
13	ICT	
	<b>TOTAL CARRIED TO FINAL SUMMARY</b>	

**ELECTRICAL INSTALLATION**

## MV Reticulation

<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	Provide the sum of R 235 545,80 for Installation of MV RETICULATION	Item	1		
	Contractors Markup	Item			
	Contractors Attendance	Item			
<b>Total for installation Carried to Summary of Cost (Excl.VAT)</b>					

**ELECTRICAL INSTALLATION**

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
1	<p><b><u>Excavation and Trenching</u></b></p> <p>General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services</p> <p>Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall siteworks.</p>				
1,1	Excavation and backfilling in soft soil	m <sup>3</sup>	108		
1.2.	Excavation and backfilling in hard rock-supply cable	m <sup>3</sup>	54		
2	<p><b><u>Cable and Data Sleeves</u></b></p> <p>Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends</p>				
2,1	110mm Diameter for power cable	m	200		
	<u>Radius bends:</u>				
2,3	110mm Diameter	No	20		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
3	<b>Kiosk</b> Supply and install kiosk as per drawings, complete with breakers				
3,1	Main Kiosk	each	1		
4	<b><u>Low Voltage PVC Cables</u></b> Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches				
4,1	16mm <sup>2</sup> 4 core PVC SWA Cable	m	300		
4,2	16mm <sup>2</sup> 2 core PVC SWA Cable	m	800		
4,3	16mm <sup>2</sup> BCEW	m	1100		
5	<b><u>Treminations:</u></b>				
5,1	16mm <sup>2</sup> 4 core PVC SWA Cable	No	2		
5,2	16mm <sup>2</sup> 2 core PVC SWA Cable	No	10		
5,3	16mm <sup>2</sup> BCEW	No	20		
6	<b><u>Electrical Tests</u></b> Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
6,1	Kiosks	Sum	1		
7	<b><u>Others</u></b>				
7,1	Concrete cable markers	each	20		
7,2	Danger Tape	m	1100		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

3 Classroom Block 1 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<b><u>Cable and Data Sleeves</u></b> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
2	<p><b><u>Draw Wires</u></b></p> <p>Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation</p>	m	100		
3	<p><b><u>Distribution Boards</u></b></p> <p>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards</p>				
3,1	SU 1 Distribution board	No	1		
	<p>Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.</p> <p><u>Built or Chase into brick or concrete work:</u></p>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<b><u>Conduit Boxes</u></b>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<b><u>Wall Boxes</u></b>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<b><u>PVC Wiring</u></b>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm <sup>2</sup> for lights circuits	m	500		
6,2	4mm <sup>2</sup> for plug sockets circuits	m	250		
7	<b><u>Stranded Bare Copper Earth Wire</u></b>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm <sup>2</sup>	m	250		
7,2	4mm <sup>2</sup>	m	125		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
8	<b><u>Light Switches</u></b> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<b><u>Socket Outlets</u></b> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  All flush type boxes and special pedestals measured elsewhere.  <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<b><u>Light Fittings</u></b> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.  Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
11	<b><u>Electrical Tests</u></b>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<b><u>Other</u></b>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

3 Classroom Block 2 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<b><u>Cable and Data Sleeves</u></b> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
2	<p><b><u>Draw Wires</u></b></p> <p>Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation</p>	m	100		
3	<p><b><u>Distribution Boards</u></b></p> <p>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards</p>				
3,1	SU 1 Distribution board	No	1		
3,2	<p>Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.</p> <p><u>Built or Chase into brick or concrete work:</u></p> <p>20mm PVC Conduit</p>	m	300		
3,3	25mm PVC Conduit	m	200		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<b><u>Conduit Boxes</u></b>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<b><u>Wall Boxes</u></b>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<b><u>PVC Wiring</u></b>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm <sup>2</sup> for lights circuits	m	500		
6,2	4mm <sup>2</sup> for plug sockets circuits	m	250		
7	<b><u>Stranded Bare Copper Earth Wire</u></b>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm <sup>2</sup>	m	250		
7,2	4mm <sup>2</sup>	m	125		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
8	<b><u>Light Switches</u></b> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<b><u>Socket Outlets</u></b> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  All flush type boxes and special pedestals measured elsewhere.  <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<b><u>Light Fittings</u></b> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.  Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
11	<b><u>Electrical Tests</u></b>  Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<b><u>Other</u></b>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

3 Classroom Block 3 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<b><u>Cable and Data Sleeves</u></b> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
2	<p><b><u>Draw Wires</u></b></p> <p>Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation</p>	m	100		
3	<p><b><u>Distribution Boards</u></b></p> <p>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards</p>				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<b><u>Conduit Boxes</u></b>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<b><u>Wall Boxes</u></b>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<b><u>PVC Wiring</u></b>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm <sup>2</sup> for lights circuits	m	500		
6,2	4mm <sup>2</sup> for plug sockets circuits	m	250		
7	<b><u>Stranded Bare Copper Earth Wire</u></b>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm <sup>2</sup>	m	250		
7,2	4mm <sup>2</sup>	m	125		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
8	<b><u>Light Switches</u></b> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<b><u>Socket Outlets</u></b> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  All flush type boxes and special pedestals measured elsewhere.  <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<b><u>Light Fittings</u></b> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.  Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
11	<b><u>Electrical Tests</u></b>  Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<b><u>Other</u></b>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

## LIMPOPO: DEPARTMENT OF EDUCATION

## ELECTRICAL INSTALLATION

Internal Installation

## 3 Classroom Block 4 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<b><u>Cable and Data Sleeves</u></b> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
2	<p><b><u>Draw Wires</u></b></p> <p>Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation</p>	m	100		
3	<p><b><u>Distribution Boards</u></b></p> <p>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards</p>				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<b><u>Conduit Boxes</u></b>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<b><u>Wall Boxes</u></b>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<b><u>PVC Wiring</u></b>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm <sup>2</sup> for lights circuits	m	500		
6,2	4mm <sup>2</sup> for plug sockets circuits	m	250		
7	<b><u>Stranded Bare Copper Earth Wire</u></b>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm <sup>2</sup>	m	250		
7,2	4mm <sup>2</sup>	m	125		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
8	<b><u>Light Switches</u></b> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<b><u>Socket Outlets</u></b> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  All flush type boxes and special pedestals measured elsewhere.  <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<b><u>Light Fittings</u></b> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.  Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
11	<b><u>Electrical Tests</u></b>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<b><u>Other</u></b>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

## LIMPOPO: DEPARTMENT OF EDUCATION

## ELECTRICAL INSTALLATION

Internal Installation

## 3 Classroom Block 5 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<b><u>Cable and Data Sleeves</u></b> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
2	<b><u>Draw Wires</u></b> Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
2,1					
3	<b><u>Distribution Boards</u></b> Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<b><u>Conduit Boxes</u></b>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<b><u>Wall Boxes</u></b>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<b><u>PVC Wiring</u></b>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm <sup>2</sup> for lights circuits	m	500		
6,2	4mm <sup>2</sup> for plug sockets circuits	m	250		
7	<b><u>Stranded Bare Copper Earth Wire</u></b>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm <sup>2</sup>	m	250		
7,2	4mm <sup>2</sup>	m	125		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
8	<b><u>Light Switches</u></b> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<b><u>Socket Outlets</u></b> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  All flush type boxes and special pedestals measured elsewhere.  <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<b><u>Light Fittings</u></b> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.  Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
11	<b><u>Electrical Tests</u></b>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<b><u>Other</u></b>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

## LIMPOPO: DEPARTMENT OF EDUCATION

## ELECTRICAL INSTALLATION

Internal Installation

Administration Block 1

Item	Description	Unit	Quantity	Rate	Amount
1	<b><u>Cable and Data Sleeves</u></b> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	15		
1,2	110mm Diameter for power cable	m	15		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	2		
1,4	110mm Diameter	No	2		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
2	<b><u>Draw Wires</u></b>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	400		
3	<b><u>Distribution Boards</u></b>				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
3,1	SU 2 Distribution board	No	1		
4	<b><u>Conduit Work</u></b>				
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
4,1	20mm PVC Conduit	m	700		
4,2	25mm PVC Conduit	m	400		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
<u>In Ceiling space and Tinber work:</u>					
4,3	20mm PVC Conduit	m	300		
4,4	25mm PVC Conduit	m	200		
5	<b><u>Conduit Boxes</u></b>				
Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.					
5,1	20mm diameter 4 way type(round box)	No	55		
6	<b><u>Wall Boxes</u></b>				
Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.					
<u>Flush mounted type:</u>					
6,1	100 x 50 x 50mm	No	8		
6,2	100 x 100 x 50mm	No	24		
7	<b><u>PVC Wiring</u></b>				
<u>PVC Wiring in conduits:</u>					
7,1	2.5mm <sup>2</sup> for lights circuits	m	1500		
7,2	4mm <sup>2</sup> for plug sockets circuits	m	800		
7,3	6,0 mm <sup>2</sup> for plug sockets circuits	m	350		
8	<b><u>Stranded Bare Copper Earth Wire</u></b>				
Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.					
8,1	2.5mm <sup>2</sup>	m	750		
8,2	4mm <sup>2</sup>	m	400		
8,3	6mm <sup>2</sup>	m	175		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
9	<b><u>Light Switches</u></b> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
9,1	1 Lever 1 way	No	8		
9,2	2 Lever 2 way	No	2		
10	<b><u>Socket Outlets</u></b> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  All flush type boxes and special pedestals measured elsewhere.  <u>Flush switched sockets type:</u>				
10,1	16A SA/Euro combined socket outlet	No	8		
11	<b><u>Light Fittings</u></b> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.  Fittings to be equal and similar approved to the below quoted manufacture.				
11,1	Ceiling mounted fitting 2x18W CFL - Interior	No	2		
11,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	10		
11,3	1200mm Open channel Fluorescent fitting 2x49W	No	2		
11,4	1200x600 Recessed Fluorescent 3x28W LBR	No	20		
11,5	1200mm Open channel Fluorescent fitting 2x28W	No	2		
11,6	1x18W CFL circular downlighters	No	10		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
12	<b><u>Electrical Tests</u></b> Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
12,1	Building installation	Sum	1		
13	<b><u>Others</u></b>				
13,1	300 x 300mm - Telephone DB	No	1		
13,2	100 x 100 x 50mm - Draw box for Communication complete with blank cover	No	1		
13,2	Power Skirting 2 compartment c/w divider	m	40		
13,3	Telephone points	No	8		
13,4	Data points	No	8		
13,5	20A Isolator	No	4		
13,6	30A Isolator points	No	2		
13,7	40A Isolator points	No	2		
14	<b><u>Lightning Protection</u></b>				
14,1	1,5m earth spike complete with clamps	No	4		
14,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
14,3	Testing and installation of installation	Sum	1		
15	<b><u>Provisional Sum</u></b>				
15.1.1	Internet WI-FI	Prov Sum	1		
	Overhead, charges and profit on item 15.1.1	%	0		
15.1.2	Public Address	Prov Sum	1		
	Overhead, charges and profit on item 15.1.2	%	0		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

Administration Block 2

Item	Description	Unit	Quantity	Rate	Amount
1	<b><u>Cable and Data Sleeves</u></b> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	15		
1,2	110mm Diameter for power cable	m	15		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	2		
1,4	110mm Diameter	No	2		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
2	<b><u>Draw Wires</u></b>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	400		
3	<b><u>Distribution Boards</u></b>				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
3,1	SU 2 Distribution board	No	1		
4	<b><u>Conduit Work</u></b>				
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
4,1	20mm PVC Conduit	m	700		
4,2	25mm PVC Conduit	m	400		
<b>Sub Total Carried Forward</b>					

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
	<u>In Ceiling space and Tinber work:</u>				
4,3	20mm PVC Conduit	m	300		
4,4	25mm PVC Conduit	m	200		
5	<b><u>Conduit Boxes</u></b>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
5,1	20mm diameter 4 way type(round box)	No	55		
6	<b><u>Wall Boxes</u></b>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
6,1	100 x 50 x 50mm	No	8		
6,2	100 x 100 x 50mm	No	24		
7	<b><u>PVC Wiring</u></b>				
	<u>PVC Wiring in conduits:</u>				
7,1	2.5mm <sup>2</sup> for lights circuits	m	1500		
7,2	4mm <sup>2</sup> for plug sockets circuits	m	800		
7,3	6,0 mm <sup>2</sup> for plug sockets circuits	m	350		
8	<b><u>Stranded Bare Copper Earth Wire</u></b>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
8,1	2.5mm <sup>2</sup>	m	750		
8,2	4mm <sup>2</sup>	m	400		
8,3	6mm <sup>2</sup>	m	175		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
	<b>Sub Total Brought Forward</b>				
9	<b><u>Light Switches</u></b> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
9,1	1 Lever 1 way	No	8		
9,2	2 Lever 2 way	No	2		
10	<b><u>Socket Outlets</u></b> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  All flush type boxes and special pedestals measured elsewhere.  <u>Flush switched sockets type:</u>				
10,1	16A SA/Euro combined socket outlet	No	8		
11	<b><u>Light Fittings</u></b> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.  Fittings to be equal and similar approved to the below quoted manufacture.				
11,1	Ceiling mounted fitting 2x18W CFL - Interior	No	2		
11,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	10		
11,3	1200mm Open channel Fluorescent fitting 2x49W	No	2		
11,4	1200x600 Recessed Fluorescent 3x28W LBR	No	20		
11,5	1200mm Open channel Fluorescent fitting 2x28W	No	2		
11,6	1x18W CFL circular downlighters	No	10		
	<b>Sub Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					
12	<b><u>Electrical Tests</u></b> Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
12,1	Building installation	Sum	1		
13	<b><u>Others</u></b>				
13,1	300 x 300mm - Telephone DB	No	1		
13,2	100 x 100 x 50mm - Draw box for Communication complete with blank cover	No	1		
13,2	Power Skirting 2 compartment c/w divider	m	40		
13,3	Telephone points	No	8		
13,4	Data points	No	8		
13,5	20A Isolator	No	4		
13,6	30A Isolator points	No	2		
13,7	40A Isolator points	No	2		
14	<b><u>Lightning Protection</u></b>				
14,1	1,5m earth spike complete with clamps	No	4		
14,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
14,3	Testing and installation of installation	Sum	1		
15	<b><u>Provisional Sum</u></b>				
15.1.1	Internet WI-FI	Prov Sum	1		
	Overhead, charges and profit on item 15.1.1	%	0		
15.1.2	Public Address	Prov Sum	1		
	Overhead, charges and profit on item 15.1.2	%	0		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

**ELECTRICAL INSTALLATION**

**PUBLIC ADDRESS**

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
	<b>PUBLIC ADDRESS</b>				
1	Provide the sum of R35,000-00 for Installation of Access Control and related accessories	Item	1		
	Contractors Markup	Item			
	Contractors Attendance	Item			
<b>Total for installation Carried to Summary of Cost (Excl.VAT)</b>					

## ELECTRICAL INSTALLATION

## Area Lighting

Item	Description	Unit	Quantity	Rate	Amount
<b>1</b>	<b>Public Lighting</b>				
1,1	1 x 57W CFL Post top fitting with electronic gear. To be approved by the Engineer.	No.	25		
1,2	3m galvanised steel poles	No.	25		
1,3	Excavation and backfilling in soft soil	m <sup>3</sup>	3,6		
1,4	Excavation and backfilling in hard rock	m <sup>3</sup>	18		
1,5	6mm <sup>2</sup> 4 core PVC SWA Cable	m	600		
1,6	6mm <sup>2</sup> BCEW	m	600		
	<u>Terminations:</u>				
1,8	6mm <sup>2</sup> 4 core PVC SWA Cable	No	25		
1,9	6mm <sup>2</sup> BCEW	No	25		
1,10	Electrical Danger tape	m	300		
<b>Total for internal installation Carried to Summary of Cost (Excl.VAT)</b>					

**ELECTRICAL INSTALLATION****HVAC**

Internal Installation

<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount</b>
1	<b>HVAC</b> Provide the sum of R 217 391,30 for Installation of HVAC  Contractors Markup  Contractors Attendance	Item  Item  Item	2		
<b>Total for installation Carried to Summary of Cost (Excl.VAT)</b>					R 0,00

**ELECTRICAL INSTALLATION**

**ICT**

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
1	<p><b>ICT</b></p> <p>Provide the sum of R 288 968,40 for Installation of ICT and related accessories in the administration block</p> <p>Contractors Markup</p> <p>Contractors Attendance</p>	<p>Item</p> <p>Item</p> <p>Item</p>	2		
<b>Total for installation Carried to Summary of Cost (Excl.VAT)</b>					

Item No.	Payment Refers	Short Description	Unit	Quantity	Rate	Amount
<b>2</b>	<b>SABS 1200A</b>	<b>SCHEDULE 1 - STEEL PALISADE FENCING</b>				
2.1	PCC-4.1	Steel palisade fencingn 2,4m high according to specification including excavations, foundation concreting, posts, pales and ground beams. All as per drawing.	m	520.00		
2.2	PCC-4.1	Supply and install according to specification a 6m wide vehicular gate	No	1.00		
2.3	PCC-4.1	Supply and install according to specification 1.5m wide pedestrian gate as per drawing	No	1.00		
2.4	PCC-4.1	Repainting of the existing fence	m <sup>2</sup>	0.00		
<b>SUB - TOTAL CARRIED TO SUMMARY</b>						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
		<b>SCHEDULE 2 : WATER SUPPLY PIPELINES AND WATER SOURCE</b>				
<b>3.1</b>	<b>SABS 1200DB</b>	<b>EARTHWORKS : PIPE TRENCHES</b>				
		<b>SITE CLEARANCE</b>				
3.1.1	8.3.1(a)	Clear 2m wide vegetation and trees of girth up to 1m	m	110.00		
3.1.2	8.3.1(b)	Remove trees over 1 m and up to 2 m girth	No.	0.00		
<b>3.2</b>	<b>PSDB12</b>	<b>EXCAVATION</b>				
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	m <sup>3</sup>	110.00		
3.2.1.1	8.3.2(b)	Extra-over item 3.2.1 incl. for excavation (provisional) in :				
		a) Intermediate material	m <sup>3</sup>	22.00		
		b) Hard rock material	m <sup>3</sup>	16.50		
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	m <sup>3</sup>	110.00		
<b>3.2.2</b>		<b>EXCAVATION ANCILLARIES</b>				
3.2.2.1	8.3.3.1(a)	Imported backfill materials from designated borrow pits (Only if approved by Engineer)	m <sup>3</sup>	38.50		
3.2.2.2	8.3.3.2	Opening up and closing down of designated borrow pit	P.Sum	1.00		
3.2.2.3	8.3.3.3	Compaction in road reserves	m <sup>3</sup>	0.00		
3.2.2.4	8.3.3.4	Overhaul :				
		a) Short haul	m <sup>3</sup>	-		
		b) Truck haul	m <sup>3</sup> /km	-		
<b>3.2.4</b>	<b>SABS1200 LB</b>	<b>PROVISION OF BEDDING (PIPES)</b>				
3.2.4.1	8.2.1	Provision of bedding material from trench excavations				
		a) Selected granular material	m <sup>3</sup>	16.50		
		b) Selected fill material	m <sup>3</sup>	38.50		
3.2.4.2		Provision of bedding material by importation from other necessary excavations (freehaul within the village boundaries)				
		a) Selected granular material	m <sup>3</sup>	19.80		
		b) Selected fill material	m <sup>3</sup>	46.20		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
3.2.4.4	8.2.3	Concrete bedding	m <sup>3</sup>	5.00		
3.2.4.5	8.2.4	Encasing of pipes in Class 19/20 concrete	m <sup>3</sup>	5.00		
3.2.4.6	8.2.5	Overhaul of material for bedding cradle and selected fill blanket	m <sup>2</sup> km	0.00		
3.2.5	1200L	<b>PIPEWORK</b>				
	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	m	-		
		b) 75 Class 9	m	-		
3.2.5.2		HDPE pipes Type IV				
		a) 20 mm class 6	m	60.00		
		b) 50 mm class 6	m	30.00		
		c) 75 mm class 10	m	20.00		
3.2.5.3		GMS pipes (medium duty)				
		a) 15 mm Ø	m	-		
		b) 20 mm Ø	m	-		
		c) 25 mm Ø	m	-		
3.2.6		<b>VALVES</b>				
3.2.6.1		<b>Line valve assemblies.</b>				
		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	No.	4.00		
		b) 75 mm	No.	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	No.	-		
		b) 32 Ø	No.	-		
		c) 40 Ø	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		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
3.2.10		<b>FITTINGS FOR HDPE PIPES</b>				
3.2.11		<b>SUNDRIES</b>				
3.2.11.3		Thrust blocks as per typical details on specification Drawing				
		a) Concrete Class 15/19	m <sup>3</sup>	1.00		
		b) Rough formwork	m <sup>2</sup>	1.00		
3.2.14		<b>BOREHOLE DEVELOPMENT - (PROVISIONAL)</b>				
		<b>Geohydrological Servies</b>				
		Sitting of drilling sites. Allowance to be made for desk study, site assessment, drilling supervision, testing supervision, and reporting.	No	1.00		
		<b>Borehole Drilling</b>				
		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	1.00		
		<b>Drilling</b>				
		Drilling of 165mm diameter borehole in non-collapsible material.	m	100.00		
		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	120.00		
		Steel casing (plain), 165 mm (state wall thickness here as 3 mm)	m	35.00		
		Steel casing (slotted), 165 mm (state wall thickness here as 4 mm)	m	0.00		
		<b>Pump testing of borehole.</b>				
		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		
		<b>Site finishing</b>				
		Borehole finishing, rate to include borehole disinfection, concrete collar in Grade 20Mpa concrete, normal saintary seal, borehole making.	No	1.00		
		<b>Reporting</b>				
		Complete Geohydrology report signed by a registered personnel	No	1.00		
3.2.15		<b>BOREHOLE REHABILITATION - (PROVISIONAL)</b>				
		<b>Site Establishment/De-establishment</b>				
		Mobilisation and set up of plant to/at first borehole. Rate to include inter-borehole moves and de-establishment from site	No	1.00		
		<b>Removal of existing pumphouse</b>	No	1.00		
		<b>Removal of existing pump</b>	No	1.00		
		<b>Positive displacement pump</b>				
		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		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.16		<b>Site Establishment/De-establishment</b>				
		Mobilisation and set up of plant to/at first borehole. Rate to including inter-borehole moves and de-estabishment from Site, of the given drilling batch	No	1.00		
		<b>Pump testing of borehole.</b>				
		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		
		<b>BOREHOLE PUMPS AND APPURTENANCES</b>				
		<b>NEW BOREHOLE INSTALLATION</b>				
		<i>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 accordance to manufactures and Engineers' specification.</i>				
		<b>Submersible pumpsets and fittings</b>				
		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. <i>Engineer to approve prior to installation.</i> Pump Installation, Head & Flow fas per borehole test report	No	1.00		
		Electric Motor installation, as per pump size requirements determined in item above.	No	1.00		
		<b>Pump Protection</b>				
		Mechanical pressure switch, PN16, Complete with cabling to panel : Limits between 160m and 80m, WIKA PSM-550 or Equivalent	No	1.00		
		Mechanical flow switch, PN16, Complete with cabling to panel	No	1.00		
	Float Switch for Switching off Pump on Low Level, c/w wiring to panel's liquid level control relay.	No	1.00			
	<b>Electric Motor Control Panel</b>					
	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	1.00			
	<b>Pipework</b>					
	<i>Supply and install borehole discharge pipework complete with flow meter, non return and pressure valves on the following pipework.</i>					
	Submersed pipe: Ø 63mm HDPE, Class 12, 7,1mm Wall thickness, SANS 4427, Borehole to Surface	m	110.00			
	Metal Base plate - Double choke	No.	1.00			
	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			
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.18		65 NB Flanged Non Return Valve,tilted disc type, PN 10	No.	1.00		
		65 NB Flanged Mechanical flow meter, PN 10	No.	1.00		
		M16 galvanized 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.	1.00		
		T-Pieces and Bushes to mount Pressure gauge, Pressure Switch and Flow Switch	No.	3.00		
		<b>Submersible pump steel cage</b>				
		Supply and install borehole discharge pipework complete as per	No	1.00		
		<b>TESTING AND COMMISSIONING</b>				
		Testing and commission borehole installation including pumps, motrs, control system and verify discharge and head characteristics	No	1.00		
		<b>Eletricity Supply</b>				
		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		
	<b>WATER TREATMENT (PROVISIONAL)</b>					
	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			
	Overheads, charges and profit.	%				
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		<b>WATER STORAGE</b>				
		<b>Water Tanks</b>				
		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.	No	1		
		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	2		
		Elevated 4.5m Steel Stand Tankstand Refurbishment including, modification to concrete foundations, pipe work, brackets, surface preparation and re-painting	Sum	3		
		Elevated 4.5m Steel Stand Refurbishment (Provisional) Refurbish existing steel stand - including repainting, rust protection and replacing corroded purlins	P.Sum	1		
		<b>Outlet and overflow Pipe Schedule for items below:</b>	Sum	3		
		a) 1½" to 50mm MALE ELBOW (Plasson)				
		b) 50mm Ø HDPE PIPE CLASS 10	m	3	Included	
		c) 50mm Ø PLASSON ELBOW	No	3	Included	
		d) 50mm Ø MALE ADAPTER (Plasson)	No	3	Included	
		e) 50GMS bend F/F	No	3	Included	
		f) 50mm Ø x 3000 GMS STAND PIPE	No	3	Included	
		g) 50mm Ø BRASS BALL VALVE (COBRA)	No	3	Included	
		h) 50mm Ø GMS NIPPLE	No	3	Included	
		i) 50mm Ø GMS UNION	No	3	Included	
		k) 50mm Ø GMS PIPE 6000 LONG	No	3	Included	
		l) 50mm Ø GMS ELBOW F/F	No	3	Included	
		m) 50mm Ø GMS STAND PIPE 300 LONG (400 long in sandy conditions)	No	3	Included	
		n) 50mm Ø GMS STAND PIPE 700 LONG	No	3	Included	
		o) 50mm Ø GMS SOCKET	No	3	Included	
		p) 50mm Ø GMS STAND PIPE 150mm	No	3	Included	
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
		<b>Inlet Pipe Schedule (From Pump)</b>	Sum	3		
		a) 1½ "TO 40mm MALE ELBOW (Plasson)	No	3	Included	
		b) 40mm Ø HDPE PIPE CLASS 10	m	3	Included	
		c) 40mm Ø PLASSON ELBOW	No	3	Included	
		d) 40mm Ø MALE ADAPTER (Plasson)	No	3	Included	
		k) 40mm Ø GMS PIPE 6000 LONG	No	3	Included	
		l) 40mm Ø GMS ELBOW F/F	No	3	Included	
		m) 40mm Ø GMS STAND PIPE 300 LONG (400 long in sandy conditions)	No	3	Included	
		n) 40mm Ø GMS STAND PIPE 700 LONG	No	3	Included	
		o) 40mm Ø Galvanised socket	No	3	Included	
		p) 40mm Ø Galvanised standpipe 150 mm long	No	3	Included	
<b>3.2.7</b>		<b>DRAW-OFFS</b>				
3.2.7.1		Complete supply, install and test single rudimentary domestic drawoff standard type as detailed in Drawing with :				
		i) 2 Taps	No.	6.00		
		ii) 4 Taps	No.	0.00		
3.2.7.3		Complete supply, install and test garden standpipe as detailed in Drawing	No.	1.00		
		<b>DECOMMISSIONING OF OLD SERVICES</b>				
		Removal of old water supply equipment including old tanks, tank stands, and pumps etc.	No	2		
<b>TOTAL CARRIED TO SUMMARY</b>						

Item	Description	Unit	Qty	Rate	Amount
	<b>SCHEDULE 3 : EXTERNAL SEWER RETICULATION</b>				
4.1	<b>EARTHWORKS (PIPE TRENCHES)</b>				
4.1.1	<b>Excavation</b>				
	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	m <sup>3</sup>	50.00		
	b) Exceeding 1,0m but not exceeding 2.0m	m <sup>3</sup>	2.50		
4.2	<b>Extra-over all excavations in pickable material irrespective of depth. for excavating in:-</b>				
4.2.1	Intermediate excavation	m <sup>3</sup>	10.00		
4.2.2	Hard rock excavation	m <sup>3</sup>	7.50		
4.3	<b>Excavation Ancilliaries</b>				
4.3.1	Excavate and dispose of unsuitable material from trench bottom (provisional)	m <sup>3</sup>	2.50		
4.3.2	Make deficiency in backfill material (Provisional)				
	a) from other necessary excavation on Site	m <sup>3</sup>	2.50		
	b) by importation designated borrow pits	m <sup>3</sup>	2.50		
	c) Compaction in platform reserves	m <sup>3</sup>	2.50		
4.4	<b>Existing services</b>				
	a) Services that adjoin a trench	m	12.00		
	b) Services that intersect a trench	No	5.00		
<b>Amount Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
<b>Amount Brought Forward</b>					
4.5	<b>BEDDING (PIPES)</b>				
4.5.1	Provision of Bedding from Trench Excavation				
	a) Selected granular material	m <sup>3</sup>	7.50		
	b) Selected fill material	m <sup>3</sup>	21.00		
4.5.2	Supply only of Bedding by Importation From Commercial Sources (provisional)				
	a) Selected granular material	m <sup>3</sup>	7.50		
	b) Selected fill material	m <sup>3</sup>	21.00		
4.6	<b>SEWERS PIPELINES</b>				
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	50.00		
	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	-		
<b>Amount Carried Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
<b>Amount Brought Forward</b>					
4.7	<b>Sundries</b>				
4.7.1	Breaking into and connecting into existing manhole	No	6.00		
4.8	<b>MANHOLES</b>				
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	1.00		
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	1.00		
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	<b>PIPE ANCILLARIES</b>				
4.9.1	Encasing around pipe				
4.9.1.1	Anchor blocks in strength concrete 25Mpa /19mm including all formwork, reinforcement, reinforcement, etc.				
4.9.1.2	Anchor block size 600 x 600mm	No	10.00		
4.10	<b>EXISTING SERVICES</b>				
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		
<b>Amount Carried to Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
<b>Amount Brought Forward</b>					
<b>4.11</b>	<b>SEPTIC TANK</b>				
4.11.1	<b>Septic tank:</b>				
	Excavate in soft material exceeding 2m deep.	m <sup>3</sup>	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.	m <sup>3</sup>	10.95		
	Risk of collapse to sides septic tank excavations not exceeding 1,5m deep.	m <sup>2</sup>	49.09		
	Earthfilling obtained from the excavations or stock piles compacted to 93% in septic tank.	m <sup>3</sup>	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.	m <sup>3</sup>	5.48		
	25 MPa Reinforced concrete base.	m <sup>3</sup>	5.48		
	Backfilling to sides of septic tank.	m <sup>3</sup>	7.30		
	Type 395 fabric reinforcement in concrete surface beds, floor slabs, etc.	m <sup>2</sup>	40		
	Rough formwork to soffit of slab.	m <sup>2</sup>	36.51		
	Plaster to vertical surfaces.	m <sup>2</sup>	49.09		
	One brick wall in commons including wire ties for septic tank walls.	m <sup>2</sup>	6.588		
	Two brick wall in commons including wire ties for septic tank walls.	m <sup>2</sup>	49.09		
	Lintels as permanent shutters	m	73.017		
	600 x 600mm Cast iron manhole covers	No	2		
	<b>Pipework</b>				
	Extra over excavation in soft material for pipe trenches, chambers, etc. for excavation in intermediate material.	m <sup>3</sup>	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		
<b>Amount Carried to Forward</b>					

Item	Description	Unit	Qty	Rate	Amount
<b>Amount Brought Forward</b>					
	<p><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.</p> <p>Extra over soakaway excavations for carting away surplus material from excavations to a dumping site to be located by the Contractor.</p> <p>Risk of collapse to sides of soakaway excavations exceeding 1,5m and not exc. 2m deep.</p> <p>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape laid over soak away</p> <p>0,6mm IBR sheeting laid across walls.</p> <p>Lintels laid above soakaway</p>	<p>m</p> <p>m<sup>3</sup></p> <p>m<sup>2</sup></p> <p>m<sup>2</sup></p> <p>m<sup>2</sup></p> <p>m</p>	<p>35</p> <p>5</p> <p>28</p> <p>35</p> <p>35</p> <p>35</p>		
<b>Amount Carried to Final Summary</b>					

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
	<b>SABS 1200 GB</b>	<b>SCHEDULE 4 : WALKWAYS AND CARPORTS</b>				
<b>5.1</b>		<b>FORMWORK</b>				
5.1.1	8.2.1(b)	Normal formwork to c) Column Foundations	m <sup>3</sup>	116.48		
<b>5.2</b>		<b>REINFORCEMENT</b>				
5.2.1	8.2.4	Mild steel bars of nominal diameter				
5.2.1.1		12mm	t	4.66		
5.2.2		High-tensile steel bars of nominal diameter				
5.2.2.1		16mm	t	6.99		
5.2.3		High-tensile welded mesh of nominal mass				
5.2.3.1		a) 3.95 kg/m <sup>2</sup>	m <sup>2</sup>	0.00		
<b>5.3</b>		<b>CONCRETE</b>				
5.3.1	8.2.5	Strength concrete, Grade 25MPa/19 mm in Column Footings	m <sup>3</sup>	11.65		
5.3.2		Blinding layer, Grade 10/19,0 mm	m <sup>3</sup>	1.46		
5.3.4	8.2.6	Unformed surface finishes				
5.3.4.1		Wood-float to all floors except	m <sup>2</sup>	29.12		
	<b>SABS 1200 AH</b>	<b>SECTION : STRUCTURAL STEELWORK</b>				
5.5	<b>8.3.1</b>	<b>PRELIMINARY AND GENERAL</b>				
5.5.1	8.3.1	<b>SUPPLY AND FABRICATION</b>				
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, aussets, packs, 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	2.62		
5.5.2.2		Square Tubing Beams - beams (welded)	t	0.91		
5.5.2.3		Square Tubing purlins	t	2.65		
5.5.2.4		Unequal Angle rafter bracing	t	3.07		
5.5.2.5		200 x 200 x 6mm Base Plates	No.	148.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	444.00		
		Sika Non-shrink grout or Similar	m <sup>3</sup>	1.18		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	592.00		
		b) Using steel to SABS 1431 Grade 350WA for assembly				
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						
		Simple Square Tubing - columns (welded)	t	0.24		
		Square Tubing Beams - beams (welded)	t	0.20		
		Square Tubing purlins	t	0.24		
		Unequal Angle rafter bracing	t	0.24		
		200 x 200 x 6mm Base Plates	No.	12.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	36.00		
		Sika Non-shrink grout or Similar	m <sup>3</sup>	0.10		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	48.00		
		c) Using steel to SABS 1431 Grade 350WA for carports				
		Simple Square Tubing - columns (welded)	t	0.81		
		Square Tubing Beams - beams (welded)	t	0.50		
		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.	22.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	66.00		
		Sika Non-shrink grout or Similar	m <sup>3</sup>	0.18		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	88.00		
<b>TOTAL CARRIED FORWARD</b>						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
<b>TOTAL BROUGHT FORWARD</b>						R -
5.5.5	8.3.5	<b>SITE WELDING</b>				
5.5.5.1		Site weld items inclusive	m	54.60		
		<b>CLADDING AND SHEETING</b>				
		<b>ROOF CLADDING</b>				
5.6		Supply, deliver to Site, erect and fix green chromedek sheeting/cladding etc, including the supply of all necessary fasteners etc. and cutting and notching: (See Drawings)	m <sup>2</sup>	488.60		
5.6.2	8.2.3	Approved troughed profile-sheeting to roofs, 0,6mm Ridge flashing 450-600mm girth x 1mm - 3 bends, baked enamel external finish	m	5.00		
	8.3.1	<b>GUTTERS AND RAINWATER PIPES</b>				
		<b>Galvanized mild steel</b>				
		3mm Thick box gutter, 100mm girth 6 times bent along length to detail, including straps, stiffeners,etc as per drawing	m	276.00		
		Extra for stopped end	no	6.00		
		Extra for 150mm diameter outlet	no	42.50		
		1mm Thick 150mm diameter rainwater pipe including straps, fixed to steel columns	m	110.50		
		Extra for 45° bend	no	42.50		
	<b>SABS 1200 HC</b>	<b>CORROSION PROTECTION OF STRUCTURAL STEELWORK</b>				
		Steelwork included under Items 1 to 7inclusive, of Section 1200H (Supply, Fabrication and Erection)	t	10.18		
5.7	8.2.1	<b>SURFACE DRESSING AND REPAIRS AT PLACE OF FABRICATION</b>				
		Remove slag and weld spatter, grind welds to smooth profile. radius sharp edges as specified.	t	10.18		
5.7.1	8.2.3	<b>SURFACE PREPARATION AND COATING APPLICATION</b>				
5.7.1.1		Shopwork. Prepare surface and apply coat(s) as specified.	t	10.18		
5.7.2		Sitework. Clean down surfaces, touch up damaged shop coats and apply finish coats as specified	t	10.18		
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	10.18		
<b>TOTAL CARRIED TO SUMMARY</b>						

# DEPARTMENT OF EDUCATION : LIMPOPO

IDT STORM DAMAGED SCHOOL: MOLESHATLOU SECONDARY SCHOOL

PRELIMINARY COSTS ESTIMATE FOR CIVIL ENGINEERINGS SERVICES

## SUMMARY OF BILL OF QUANTITIES

SCHEDULE 1: STEEL PALISADE FENCE

SCHEDULE 2: WATER SUPPLY PIPELINES AND WATER SOURCE

SCHEDULE 3: EXTERNAL SEWER RETICULATION

SCHEDULE 4: COVERED WALKWAYS

TENDER (CONTRACT) SUM (CIVIL AND STRUCTURAL WORKS)

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	1/30	
2	NUTRITION CENTRE	2/42	
3	GUARD HOUSE	3/40	
4	DEMOLITION OF 3 CLASSROOM & RENOVATION OF 17 CLASSROOM, 2 ADMIN & 32 ENVIRO-LOO	4/40	
5	PROVISIONAL SUMS	5/7	
	Sub- Total (PART A - MAIN BUILDING WORKS)		R
	<b><u>PART B - ELECTRICAL AND MECHANICAL WORK</u></b>		
	TENDER AMOUNT CARRIED OVER FROM PART B (ELECTRICAL AND MECHANICAL WORK)	Item	
	<b><u>PART C - CIVIL WORK</u></b>		
	TENDER AMOUNT CARRIED OVER FROM PART C (CIVIL WORK)	Item	
	Sub- Total - BUILDING COSTS		R
	<b><u>CONTINGENCY ALLOWANCE TO THE CONTRACT</u></b>		
	<u>Contingencies:</u>		
	Allow an amount of R1 300 000.00 ( One Million Three Hundred Thousand ) for contingency allowance to the contract ,to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item	
	<b><u>PRICE ADJUSTMENT FOR INFLATION TO THE CONTRACT</u></b>		
	<u>Inflation:</u>		
	Allow an amount of R1 400 000.00 ( One Million Four Hundred Thousand ) for price adjustment for inflation.	Item	
	<b>Carried Forward</b>		R

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
MOLESHATLOU SECONDARY SCHOOL**

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
	<b>Brought Forward</b>			R
	Sub- Total Excluding VAT			R
	Tax			R
	<b>Carried to Form of Tender</b>			R

## **PART C3 SCOPE OF WORKS**



## **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**



**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS  
AND INFRASTRUCTURE**

## **PART C4 SITE INFORMATION**

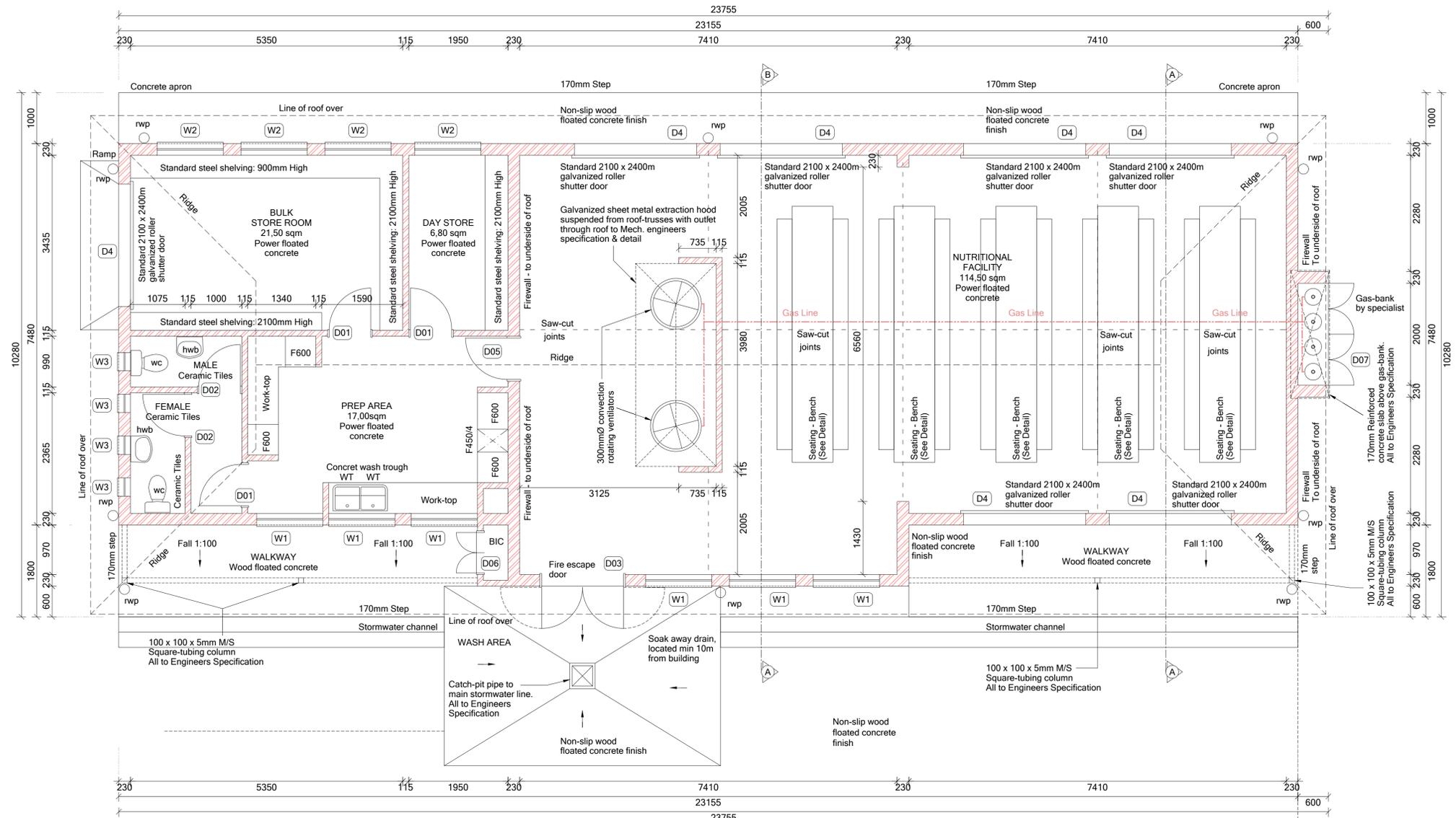


## **C4.1 DRAWINGS**

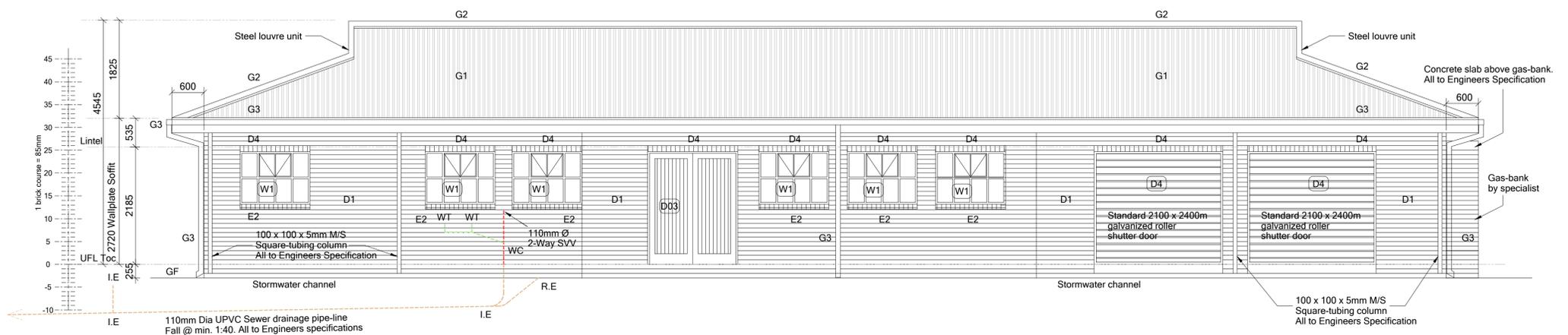
Moleshatlou Secondary School											Sheet 1 of 1									
Project No.		2020_76				2023.06.23														
Register date of issue:		2023.06.23																		
Distribution:						Date and quantity:														
Client:		LIMPOPO DEP. OF EDUCATION				x														
Civil Engineer:		MUTEO CONSULTANTS																		
Electrical Engineer:		MUTEO CONSULTANTS																		
Fire Consultant:																				
Mechanical Engineer:		MUTEO CONSULTANTS																		
Structural Engineer:		MUTEO CONSULTANTS																		
Project Manager		RUBEN REDDY ARCHITECTS																		
Quantity Surveyor:		PROSERVE CONSULTANTS																		
Wet Services Engineer:		MUTEO CONSULTANTS																		
Transport Engineer																				
Health and Safety Consultant																				
Landscape Architect																				
Contractor																				
Other:																				
Drawing No.		Drawing Description			Size:	Revisions:														
<b>SITE PLAN</b>																				
2020_76 SDP-001		Site development Plan			A0	A														
<b>NUTRITION BLOCK</b>																				
2020_76-NU-001		Ground Floor Plan and Elevations			A1	A														
2020_76-NU-002		Sections & Elevations			A1	A														
2020_76-NU-003		Electrical & Sewer			A1	A														
2020_76-NU-004		Water Reticulation & Fire			A1	A														
2020_76-NU-005		Joinery & Details			A1	A														
2020_76-NU-006		Roof Plan & Ceiling Layout			A1	A														
2020_76-NU-007		Foundation Layout			A1	A														
2020_76-NU-008		Door & Window Schedules			A1	A														
<b>GUARD HOUSE</b>																				
2020_76-GH-001		Ground Floor Plan and Elevations			A1	A														
2020_76-GH-002		Elevations, Sections & Ceiling Plan			A1	A														
2020_76-GH-003		Foundation, Sewer, Electrical, Water and Fire Plans			A1	A														
2020_76-GH-004		Door & Window Schedules			A1	A														
<b>AS-BUILT BLOCKS</b>																				
2020_76-MSR-001		Staff Room Block			A1	A														
2020_76-SAR-001		Small Admin.			A1	A														
2020_76-3CLR-001		3 Classroom Block			A1	A														
2020_76-2CLR-001		2 Classroom Block			A1	A														
2020_76-ENVLR-001		Enviro-Loo Block			A1	A														
PURPOSE OF ISSUE:		<b>TENDER</b>			ISSUED BY:						Signature:									
DATE RECEIVED:					RECEIVED BY:						Signature:									
Key:		Issued in colour - C			Issued by fax - F				Issued via e-mail - E				Issued on a disk - CD							

**NOTES :**

- 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 800 mm Built in Balustrade
- 4) Gully 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) Vest 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



**GROUND FLOOR PLAN  
NUTRITION CENTER  
Scale 1:50**



**FRONT ELEVATION  
NUTRITION CENTRE  
Scale 1:50**

**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

REVISIONS  
SIZE ON ORIGINAL DRAWING 100 mm



**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**EDUCATION**

INSTITUTION  
**MOLESHSTLOU SECONDARY SCHOOL**

INSTITUTION EMIS NUMBER  
**920210128**

SERVICE  
**NEW BUILDINGS**

CONTRACT - SECTION  
**DOCUMENTATION & PROCUREMENT**

DISCIPLINE	PROJECT STAGE
<b>ARCHITECTURAL</b>	<b>4</b>

DRAWING DESCRIPTION  
**NUTRITION BLOCK  
PLAN AND ELEVATION**

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

DRAWING CO-ORDINATED

CONSULTANT :

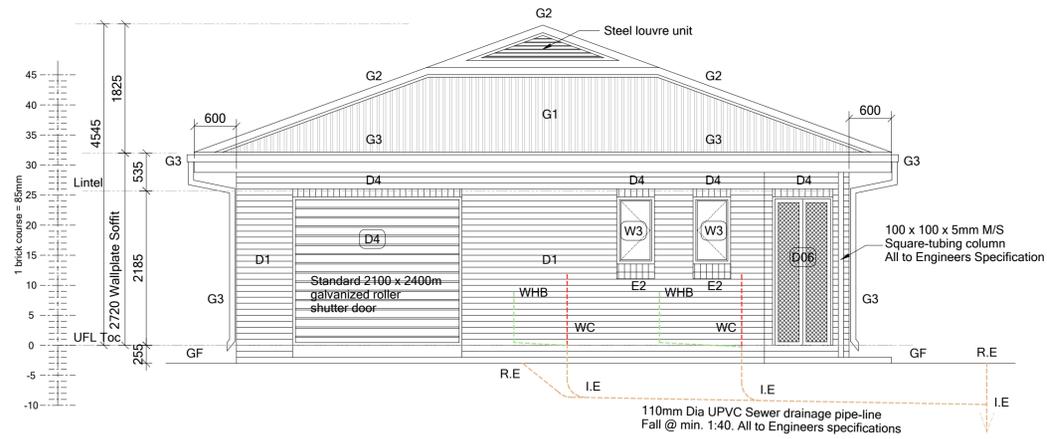


ruben reddy architects

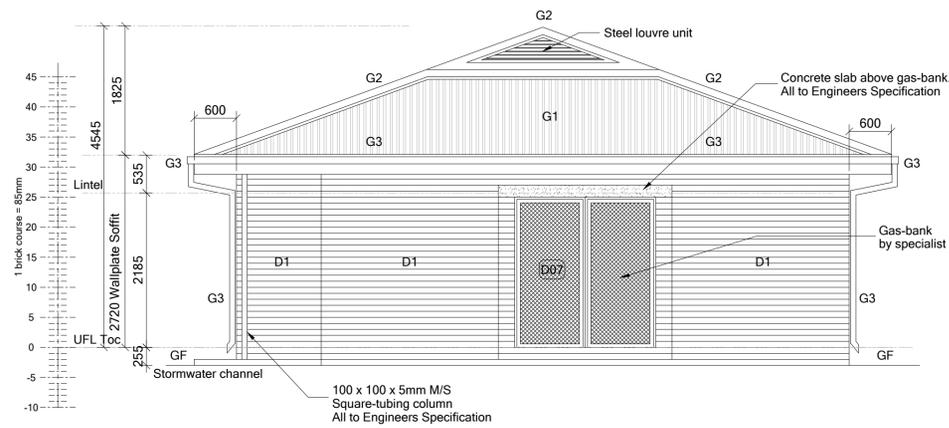
Scale 4 No 8 Service Office Building  
6 Harrow Street, Polokwane, 0959 South Africa  
Tel: +27 15 065 0845, Fax: +27 11 475 8364,  
Email: info@rubenreddyarch.co.za  
Web: www.rubenreddyarch.co.za

CADD SYSTEM	AUTO CAD	FILE NAME
SIZE	DRAWING NUMBER	REVZ

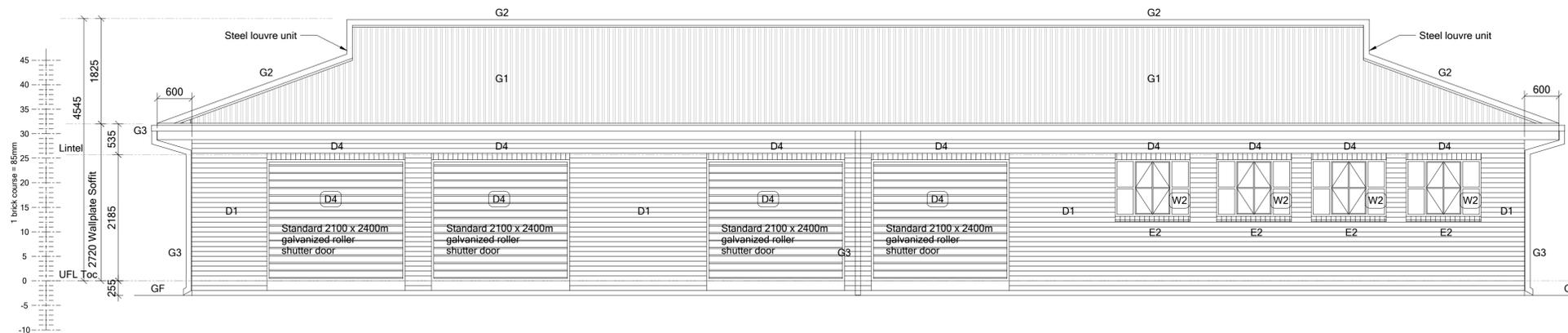
A 1	2020_20-NU-001	A
-----	----------------	---



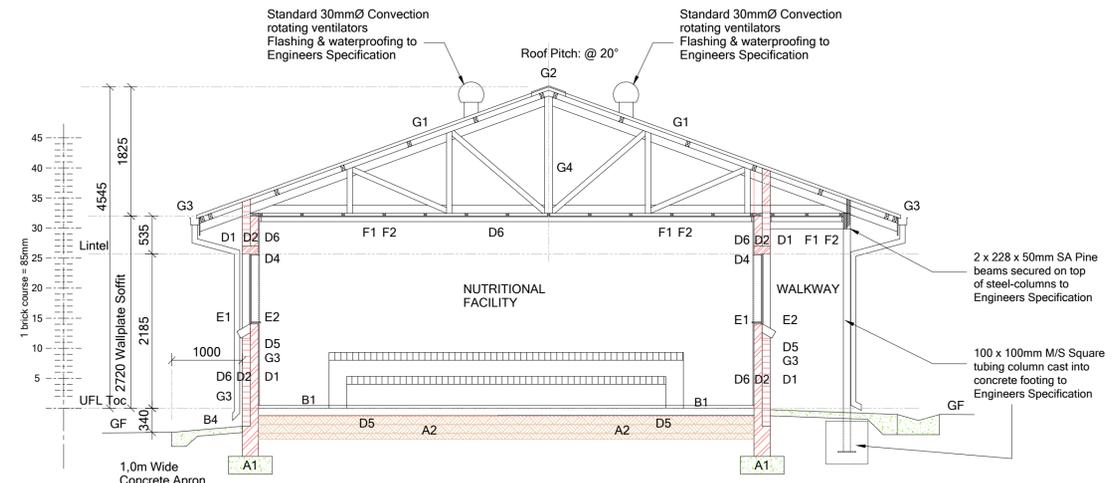
SIDE ELEVATION:  
NUTRITION CENTRE  
Scale 1:50



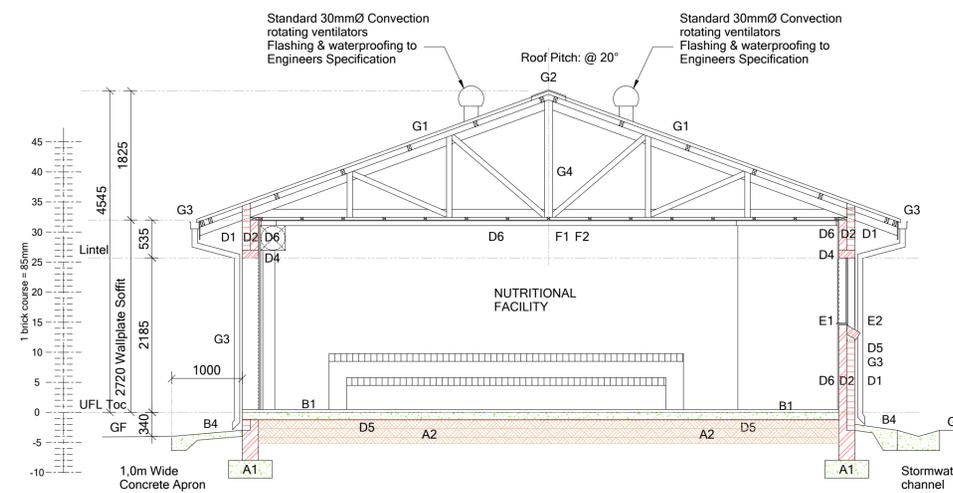
SIDE ELEVATION:  
NUTRITION CENTRE  
Scale 1:50



REAR ELEVATION:  
NUTRITION CENTRE  
Scale 1:50



SECTION B-B  
Scale 1:50



SECTION A-A  
Scale 1:50

NOTES :

- 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 800 mm Built in Balustrade
- 4) Gully 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

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

REVISIONS

SIZE ON ORIGINAL DRAWING 100 mm



DEPARTMENT OF  
EDUCATION

INSTITUTION

MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER

920210128

SERVICE

NEW BUILDINGS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

NUTRITION BLOCK

DRAWING DESCRIPTION

SECTIONS AND ELEVATIONS

FILE No. ITEM No.

DESIGN DRAWN

SCALE 1:100 CHECKED

DATE RESPONSIBLE PROFESSIONAL NAME SIGNATURE PR NUMBER

2023.06.20 YUSUF VAHED PA7812

DRAWING CO-ORDINATED

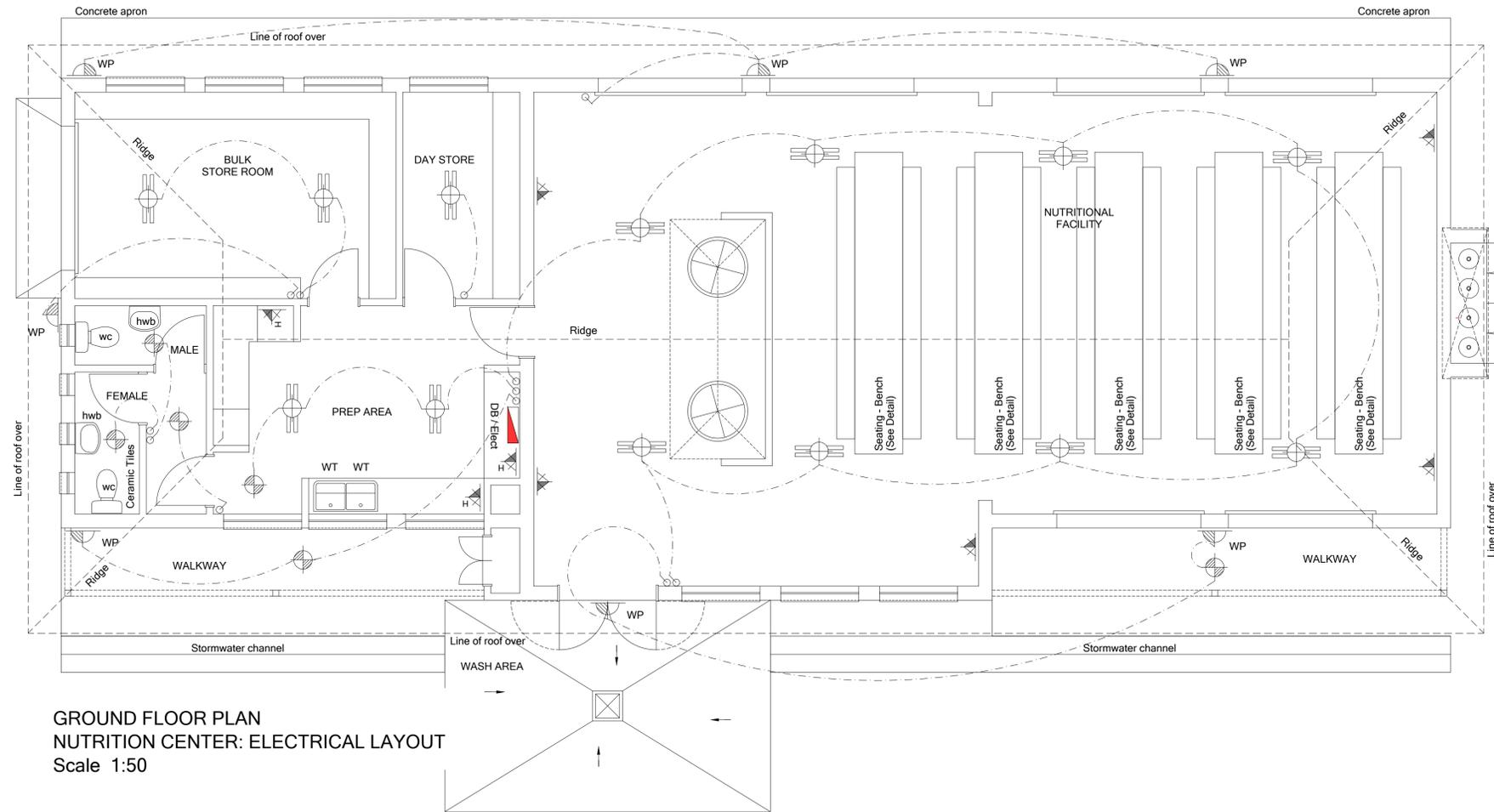
CONSULTANT :



CONTRACTOR :

CADD SYSTEM AUTO CAD DRAWING NUMBER FILE NAME

SIZE 2020\_20-NU-002 A



**GROUND FLOOR PLAN  
NUTRITION CENTER: ELECTRICAL LAYOUT  
Scale 1:50**

ELECTRICAL LEGEND			
	CEILING LIGHT FITTING		15 AMP DOUBLE PLUG BUILT IN 300mm ABOVE FFL
	DECORATIVE WALL LIGHT FITTING		15 AMP DOUBLE PLUG POINT BUILT IN 1000mm ABOVE FFL
	DECORATIVE WATERPROOF EXTERNAL WALL MOUNTED LIGHT FITTING		TELEPHONE POINT
	DOUBLE TUBE LIGHT FITTING FLUORESCENT LIGHT COMPLETE WITH DIFFUSER		12 AMP ISOLATOR FOR AC UNIT MOUNTED 150mm BELOW CEILING
	DISTRIBUTION BOARD & PRE PAID METERBOX		40 AMP ISOLATOR FOR AC UNIT MOUNTED 150mm BELOW ROOF'S EAVE
			LIGHT SWITCH

- NOTES :**
- 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 800 mm Built in Balustrade
  - 4) Gully 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) Vest 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

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

REVISIONS  
SIZE ON ORIGINAL DRAWING 100 mm



INSTITUTION  
**MOLESHSTLOU SECONDARY SCHOOL**

INSTITUTION EMIS NUMBER  
**920210128**

SERVICE  
**NEW BUILDINGS**

CONTRACT - SECTION  
**DOCUMENTATION & PROCUREMENT**

DISCIPLINE PROJECT STAGE  
**ARCHITECTURAL 4**

WORK DESCRIPTION - SUB DIVISION  
**NUTRITION BLOCK**

DRAWING DESCRIPTION  
**ELECTRICAL AND SEWER PLAN**

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

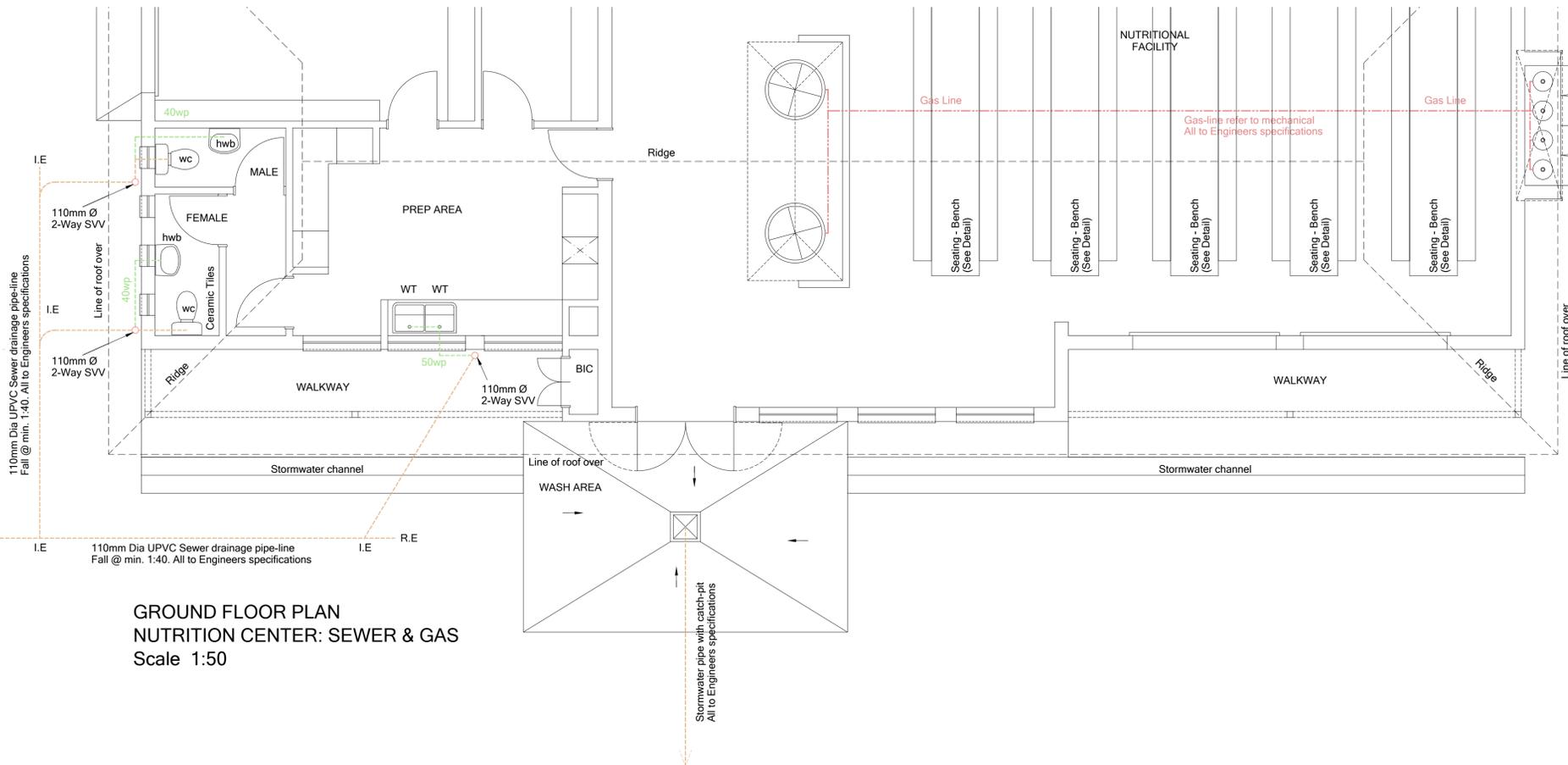
DRAWING CO-ORDINATED

CONSULTANT :

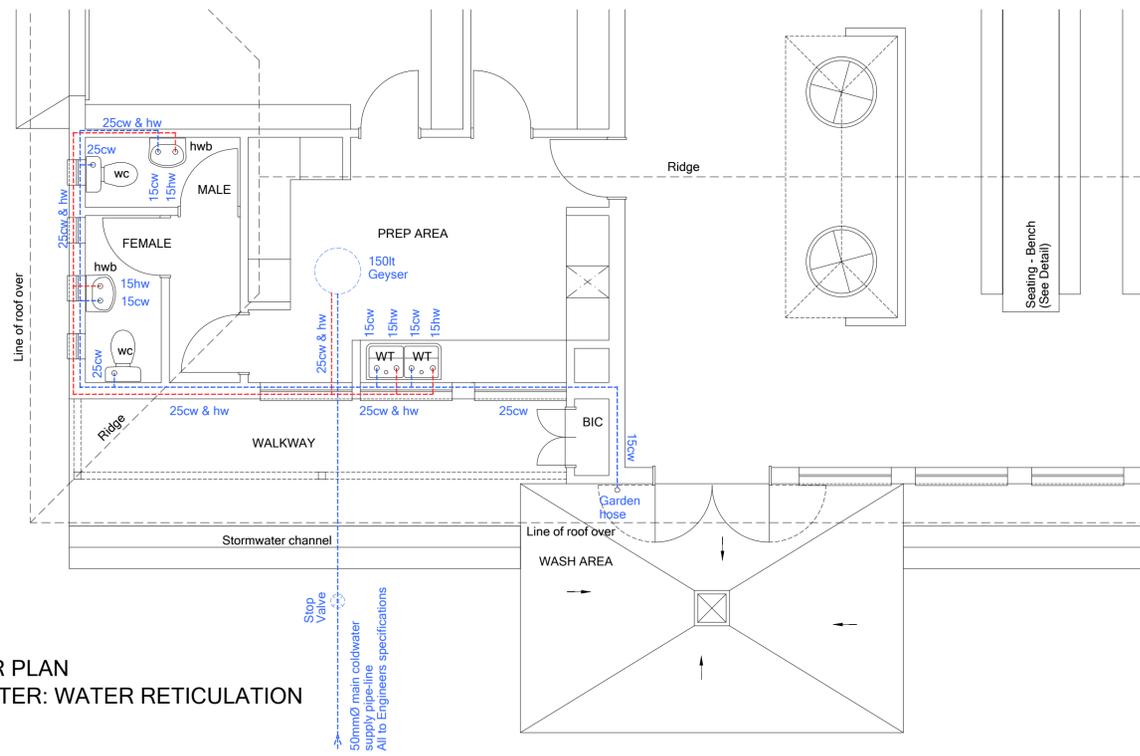
Scale 4 No 6 (same) Office Building  
6 Harrow Street, Polokwane, 0959 South Africa  
Tel: +27 15 065 0845, Fax: +27 11 475 8364  
Email: info@rubenreddyarch.co.za  
Web: www.rubenreddyarch.co.za

CONTRACTOR :

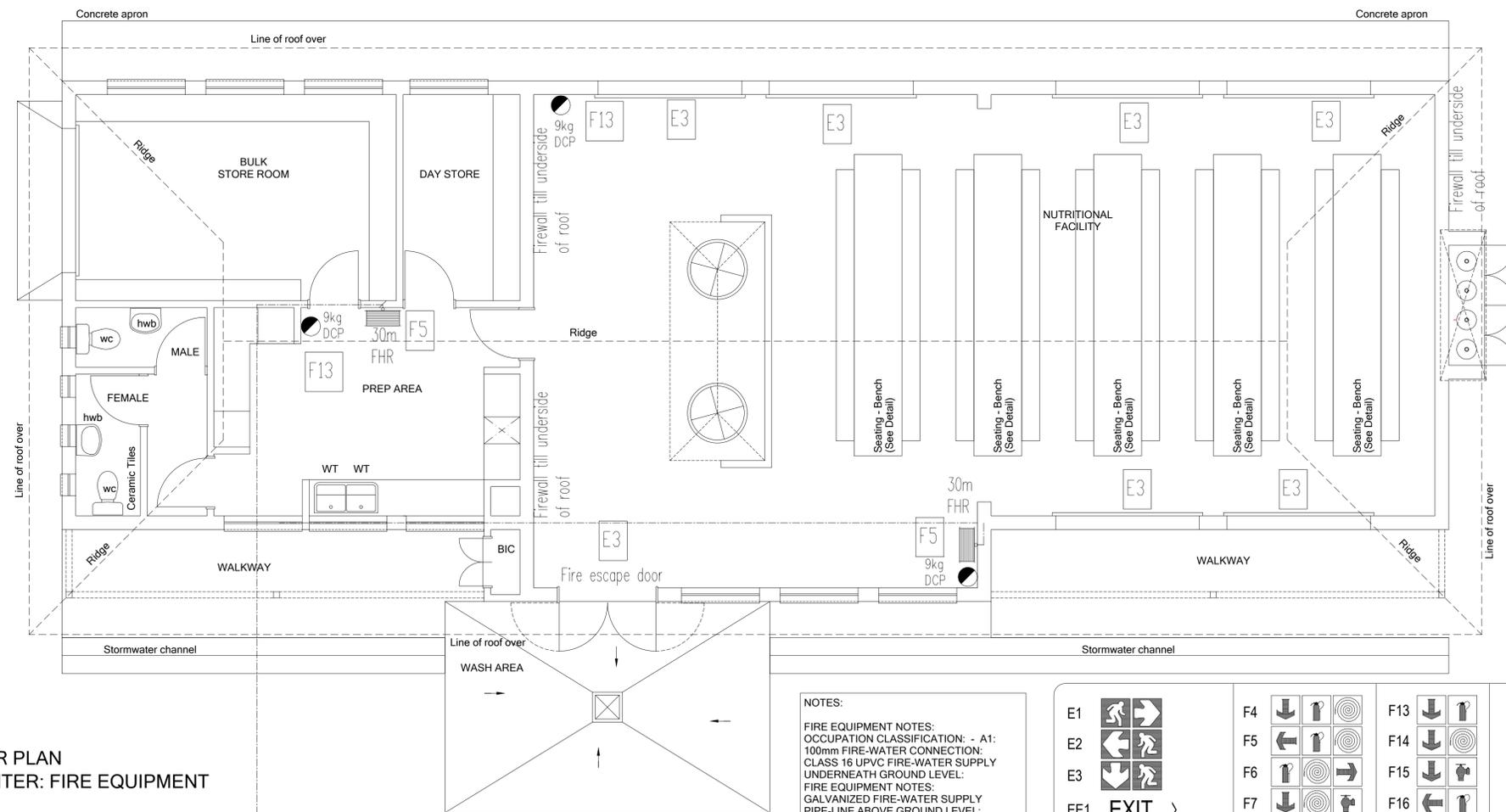
CADD SYSTEM	AUTO CAD	FILE NAME
A 1	2020_20-NU-003	A



**GROUND FLOOR PLAN  
NUTRITION CENTER: SEWER & GAS  
Scale 1:50**



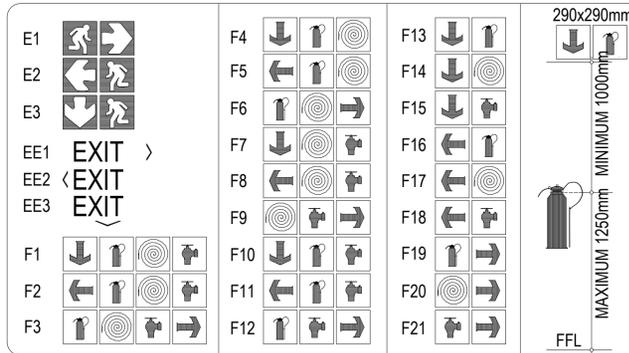
**GROUND FLOOR PLAN  
NUTRITION CENTER: WATER RETICULATION**  
Scale 1:50



**GROUND FLOOR PLAN  
NUTRITION CENTER: FIRE EQUIPMENT**  
Scale 1:50

50mm Dia UPVC Class 16 underneath ground level & galvanized pipes above floor level.  
Refer to engineers drawings & detail

**NOTES:**  
FIRE EQUIPMENT NOTES:  
OCCUPATION CLASSIFICATION: - A1:  
100mm FIRE-WATER CONNECTION:  
CLASS 16 UPVC FIRE-WATER SUPPLY  
UNDERNEATH GROUND LEVEL:  
FIRE EQUIPMENT NOTES:  
GALVANIZED FIRE-WATER SUPPLY  
PIPE-LINE ABOVE GROUND LEVEL:  
ACC. TO TT33.WW5  
3 x 9KG DCP: 1/200sqm. ACC. TO TT37.  
2 x 30m FIRE HOSE REEL ACC. TO TT34  
SIGNAGE & EQUIPMENT ACC. TO TT32  
SIZES OF SIGNAGE MINIMUM 150x150mm  
PROVIDED BY SPECIALIST ACC. NBR &  
MUNICIPAL APPROVAL.  
SIZES OF STEPS: RISERS: 170mm  
TREADS: 250mm  
ACC. TO MM2.3 & 2.4 REF TO SECTION.



**NOTES :**

- 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 800 mm Built in Balustrade
- 4) Gully 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) Vest 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

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

**REVISIONS**

SIZE ON ORIGINAL DRAWING 100 mm



**DEPARTMENT OF  
EDUCATION**

INSTITUTION

**MOLESHSTLOU SECONDARY SCHOOL**

INSTITUTION EMIS NUMBER

920210128

SERVICE

**NEW BUILDINGS**

CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**

DISCIPLINE PROJECT STAGE

**ARCHITECTURAL 4**

WORK DESCRIPTION - SUB DIVISION

**NUTRITION BLOCK**

DRAWING DESCRIPTION

**WATER RETICULATION AND FIRE**

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE NAME	PROFESSIONAL SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

DRAWING CO-ORDINATED

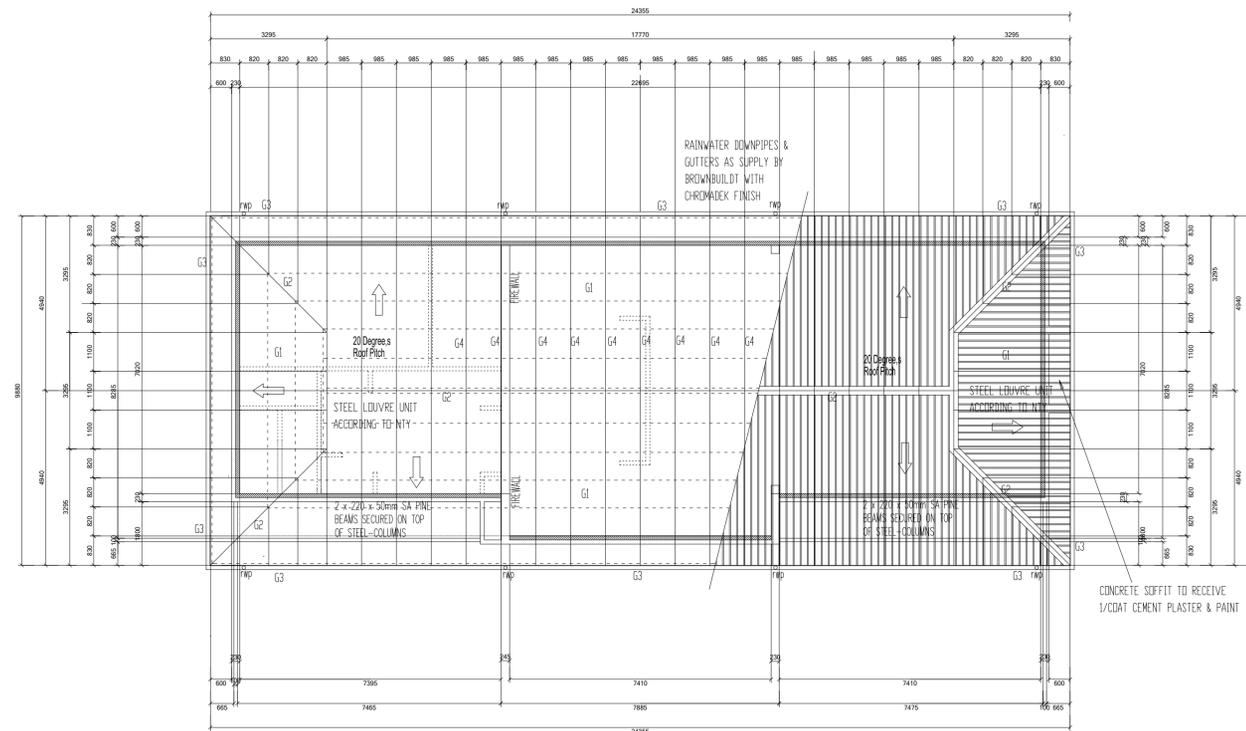
CONSULTANT :



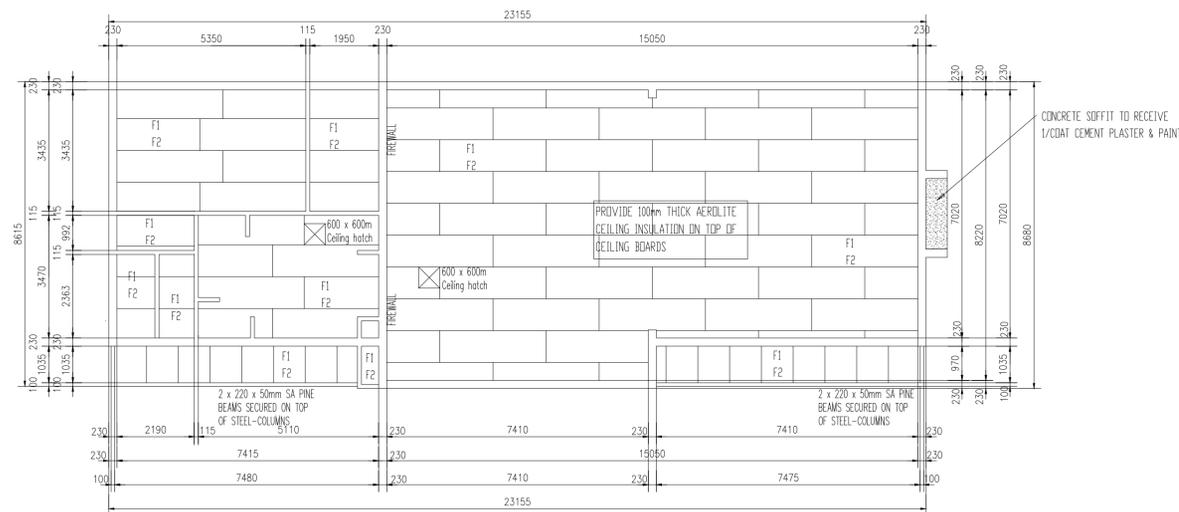
CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
SIZE	DRAWING NUMBER	REVZ
A 1	2020_20-NU-004	A





ROOF PLAN:  
NUTRITION CENTRE:  
Scale 1:50



CEILING PLAN:  
NUTRITION CENTRE:  
Scale 1:100

NOTES :

- 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 800 mm Built in Balustrade
- 4) Gully 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

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

REVISIONS

SIZE ON ORIGINAL DRAWING 100 mm



DEPARTMENT OF  
**EDUCATION**

INSTITUTION

**MOLESHSTLOU SECONDARY SCHOOL**

INSTITUTION EIMS NUMBER

920210128

SERVICE

NEW BUILDINGS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

**NUTRITION BLOCK**

DRAWING DESCRIPTION

**ROOF PLAN AND CEILING LAYOUT**

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED
1:100	

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

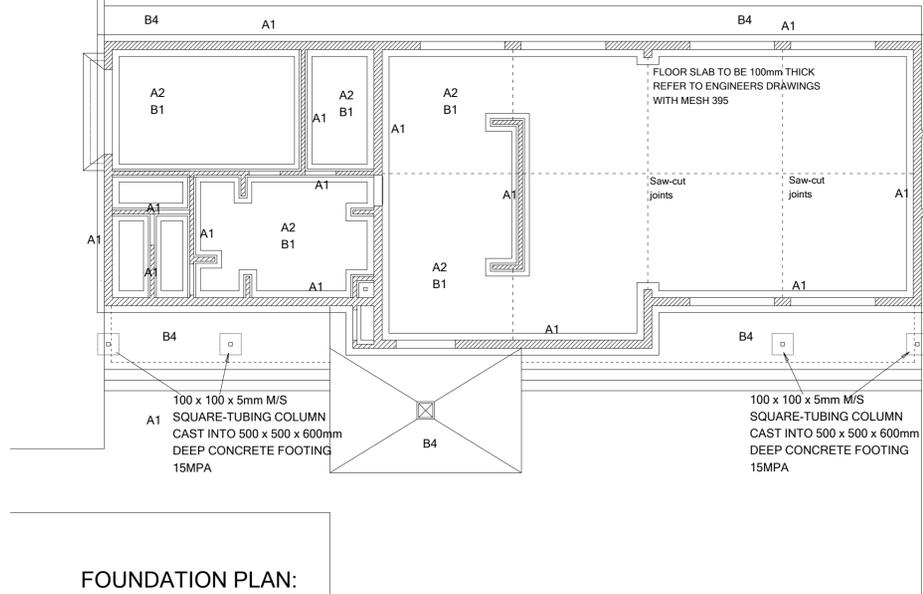
DRAWING CO-ORDINATED

CONSULTANT :



CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
SCALE	DRAWING NUMBER	REVZ
A 1	2020_20-NU-006	A



FOUNDATION PLAN:  
NUTRITION CENTRE:  
Scale 1:100.

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 drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m<sup>2</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>2</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>2</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.

**Skirtings**  
C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrand 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. Brickwork - Brickforce to 15 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 grth 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 Aqualolv 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.  
D4. 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.  
D5. Lintol - Corobrik brick-on-edge face brick lintol over all window, door and clear openings with 10 x 6mm square recessed joints.  
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 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 Ultra (X44) suede varnish to cornice.  
F2. Ceilings - 6mm Everite Nutec fire-cement boards nailed to 38 x 38mm SAP brundering 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 Kilg-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 well 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 louvers - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or gable flashing with Globalcoat finish (colour Traffic Green).  
G8. Flashings at bottom of louvers - 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-E05/2AS aluminium fire extinguisher sign and Union AL5066-E05/2AS 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 Aqualolv 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 fire sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

NOTES :

- 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 800 mm Built in Balustrade
- 4) Gully 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
- 7) West Facing Facades to have standardised aluminium louvers from below eaves to drop of 1200 mm
- 8) 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 :

REVISIONS	
SIZE ON ORIGINAL DRAWING	mm

  
**LIMPOPO**  
 PROVINCIAL GOVERNMENT  
 REPUBLIC OF SOUTH AFRICA  
  
 DEPARTMENT OF  
**EDUCATION**

INSTITUTION

MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER

920210128

SERVICE

NEW BUILDINGS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE	PROJECT STAGE
ARCHITECTURAL	4

WORK DESCRIPTION - SUB DIVISION

**NUTRITION BLOCK**

DRAWING DESCRIPTION

**FOUNDATION LAYOUT**

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE NAME	PROFESSIONAL SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

DRAWING CO-ORDINATED

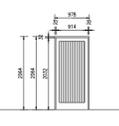
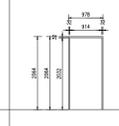
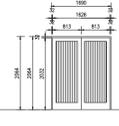
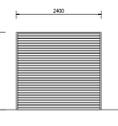
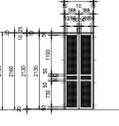
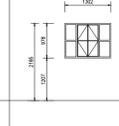
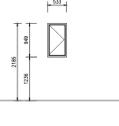
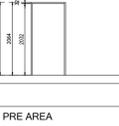
CONSULTANT :

  
 ruben reddy architects  
 Suite 4 No 8 Unit: Office Building  
 6 Harrow Street, Polokwane, 0959 South Africa  
 Tel: +27 15 065 0645, Fax: +27 11 475 8364,  
 Email: info@rubenreddyarch.co.za  
 Web: www.rubenreddyarch.co.za

CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
SCALE	DRAWING NUMBER	REVZ

A 1 2020\_20-NU-007 A

DOOR SCHEDULE: Scale 1:50.			DOOR SCHEDULE: Scale 1:50.		
					
<b>DOOR NUMBER:</b> D1	<b>D2</b>	<b>D3</b>	<b>D4</b>	<b>D6</b>	<b>D6</b>
<b>POSITION:</b> BULK STORE ROOM, DAY STORE AREA TOILET	ENTRANCE TO TOILET	ENTRANCE TO NUTRITION FACILITY	NUTRITION FACILITY		
<b>QUANTITY:</b> 3 (2=RH) (1=LH)	2 (2 = LH) (0 = RH)	1	7	1	
<b>DOOR-FRAME DESCRIPTION:</b> 1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 115MM WALL TO RECEIVE PLASTER ON ONE-SIDE	1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 115MM WALL TO RECEIVE PLASTER ON ONE-SIDE	1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 230MM WALL TO RECEIVE PLASTER ON ONE-SIDE	STANDARD WISPECO 2185 x 2400mm ROLLERSHUTTER DOOR WITH CHROMADEX FINISH COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER.	FRAME OUT OF 50 x 25 x 1,6mm MS RECTANGULAR TUBING MITRE 45 DEGREE S AT CORNER BEFORE WELDED AND SECURED IN OPENING WITH BRACKETS WELDED TO GATE & BOLTED TO WALL	
<b>FINISHES:</b> 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	FINISH: CHROMADEX FINISH - COLOUR BY ARCHITECT	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	
<b>DOOR DESCRIPTION:</b> 2032 x 914 x 40mm THICK SOLID HARDWOOD DOOR WITH MASONITE BACKING. TYPE OF HARDWOOD DOOR ACCORDING TO OWNERS CHOICE.	2032 x 914 x 40mm THICK SOLID HARDWOOD DOOR WITH MASONITE FACINGS TO RECEIVE 1/COAT UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT.	2032 x 1025 x 40mm THICK SOLID HARDWOOD DOOR WITH MASONITE BACKING. TYPE OF HARDWOOD DOOR ACCORDING TO OWNERS CHOICE.	STANDARD WISPECO 2185 x 2400mm ROLLERSHUTTER DOOR WITH CHROMADEX FINISH COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER.	GATE OUT OF 25 x 25 x 1,6mm MS SQUARE-TUBING SECTIONS WITH EXPANDED METAL MESH ON INSIDE OF OPENING ELDED TO FRAME WITH 10 x 10mm MS SOLID BAR ON BOTH SIDES OF MESH	
<b>IRON MONGERY:</b> HINGES - 2x100mm MS STEEL BUTT HINGES PER DOOR LEAF	HINGES - 2x100mm MS STEEL BUTT PER DOOR LEAF	HINGES - 1x100mm MS PIVOT HINGE PER DOOR LEAF	STANDARD WISPECO 2185 x 2400mm ROLLERSHUTTER DOOR WITH CHROMADEX 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.	
<b>FINISHES:</b> PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	1/UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT FINISH.	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	FINISH: CHROMADEX FINISH - COLOUR BY ARCHITECT	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	
<b>GLASS:</b> NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
<b>WINDOW SCHEDULE: Scale 1:50.</b>			<b>DOOR SCHEDULE: Scale 1:50.</b>		
					
<b>WINDOW NUMBER:</b> W1	<b>W2</b>	<b>W3</b>	<b>DOOR NUMBER:</b> D5	<b>D7</b>	
<b>POSITION:</b> PREP AREA , NUTRITION FACILITY TOILET.	BULK & DAY STORE	TOILETS	ENTRANCE PRE AREA	GAS-BANK	
<b>DESCRIPTION:</b> 6	4	4	<b>QUANTITY:</b> 1 (1 = LH) (0 = RH)	1	
<b>WINDOW-FRAME DESCRIPTION:</b> STANDARD SS INDUSTRIAL TYPE STEEL WINDOW-FRAME CATALOGUE NUMBER S5415541 COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	STANDARD SS INDUSTRIAL TYPE STEEL WINDOW-FRAME CATALOGUE NUMBER S542 COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	STANDARD E-TYPE TOP-HUNG STEEL WINDOW-FRAME CATALOGUE NUMBER NE 1 COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 230MM WALL TO RECEIVE PLASTER ON ONE-SIDE	FRAME OUT OF 50 x 25 x 1,6mm MS RECTANGULAR TUBING MITRE 45 DEGREE S AT CORNER BEFORE WELDED AND SECURED IN OPENING WITH BRACKETS WELDED TO GATE & BOLTED TO WALL	
<b>WINDOW FINISHES:</b> 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-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	
<b>GLASS:</b> 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	5mm THICK PACIFIC OCEAN BLUE GLAZING SECURED IN FRAME WITH SABS APPROVED GLAZING PUTTY	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 MS SQUARE-TUBING SECTIONS WITH EXPANDED METAL MESH ON INSIDE OF OPENING ELDED TO FRAME WITH 10 x 10mm MS SOLID BAR ON BOTH SIDES OF MESH	
<b>BURGLAR-BARS:</b> OUT OF 10mm WIDE FLAT-BARS	OUT OF 10mm WIDE FLAT-BARS	OUT OF 10mm WIDE FLAT-BARS	HINGES - 2x100mm MS STEEL BUTT HINGES PER DOOR LEAF	2/PAIRS 100mm BULLET HINGES WELDED TO FRAME & GATE. LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	
<b>FINISHES:</b> 1/COAT RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT.	1/COAT RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT.	1/COAT RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT.	1/UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT FINISH.	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	
<b>GLASS:</b> 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	5mm THICK PACIFIC OCEAN BLUE GLAZING SECURED IN FRAME WITH SABS APPROVED GLAZING PUTTY	NOT APPLICABLE	NOT APPLICABLE	

**NOTES :**

- 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 800 mm Build in Balustrade
- 4) Gully 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 louvers from below eaves to drop of 1200 mm
- 8) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers

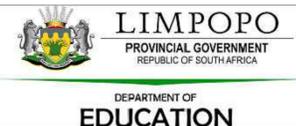
**ISSUED FOR TENDER**

**SIGNATURE TABLE**

DISCIPLINE	SIGNATURE	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL OFFICER		
ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No	DATE	DESCRIPTION

**REVISIONS**  
SIZE ON ORIGINAL DRAWING 100 mm



**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**EDUCATION**

**INSTITUTION**

**MOLESHSTLOU SECONDARY SCHOOL**

**INSTITUTION EMIS NUMBER**

**920210128**

**SERVICE**

**NEW BUILDINGS**

**CONTRACT - SECTION**

**DOCUMENTATION & PROCUREMENT**

DISCIPLINE	PROJECT STAGE
ARCHITECTURAL	4

**WORK DESCRIPTION - SUB DIVISION**

**NUTRITION BLOCK**

**DRAWING DESCRIPTION**

**WINDOW AND DOOR SCHEDULE**

FILE No.	ITEM No.

DESIGN	DRAWN

SCALE	CHECKED
1: 100	

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

DRAWING CO-ORDINATED

CONSULTANT :



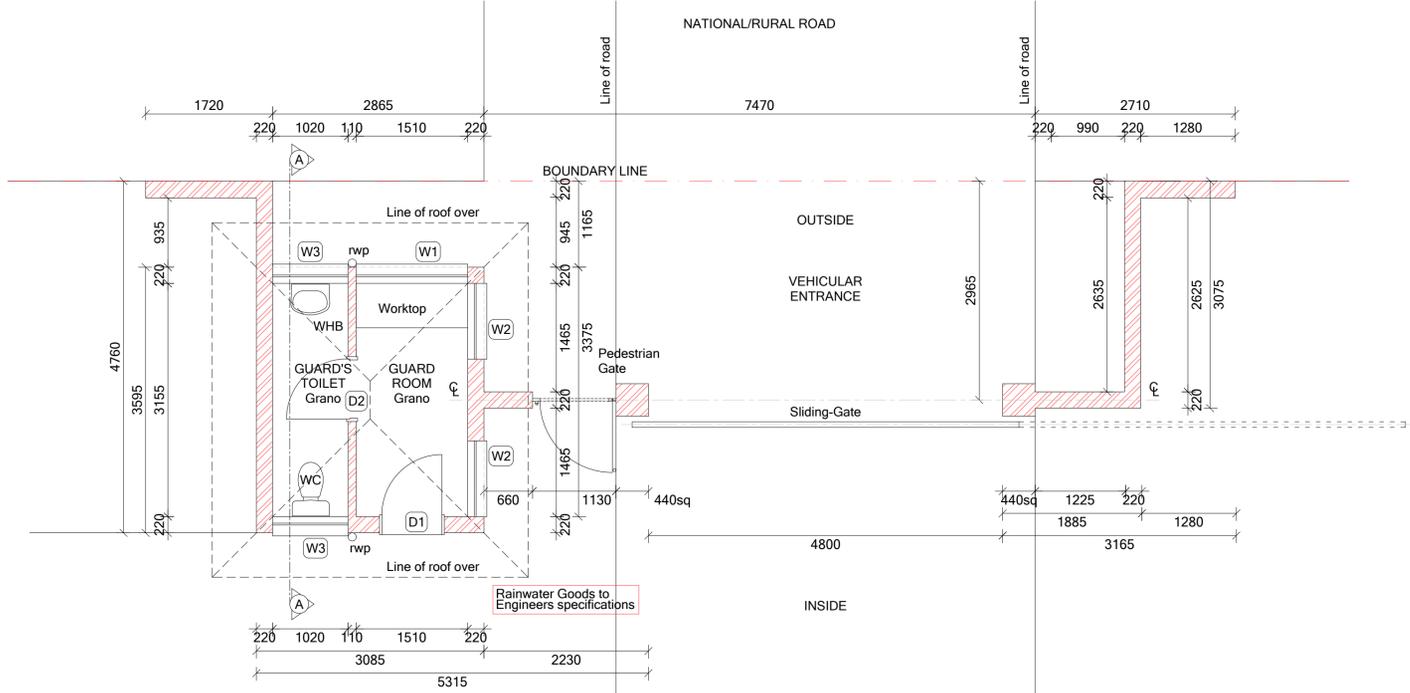
ruben reddy architects

Scale 4 No 6 (www) Office Building  
6 Harrow Street, Polokwane, 0699 South Africa  
Tel: +27 15 065 0845, Fax: +27 11 475 8364,  
Email: info@rubenreddyarch.co.za  
Web: www.rubenreddyarch.co.za

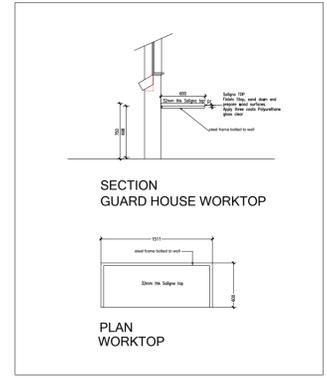
CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
A 1	2020_20-NU-008	A

SCALE	DRAWING NUMBER	REV
A 1	2020_20-NU-008	A

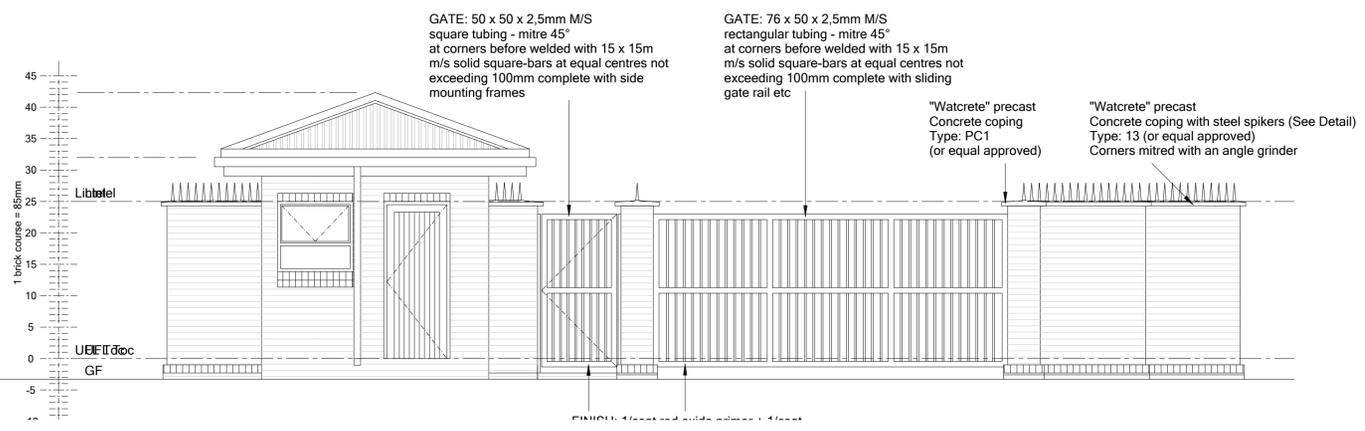


PLAN: Gate-House  
Scale 1:50



SECTION  
GUARD HOUSE WORKTOP

PLAN  
WORKTOP



GATE: 50 x 50 x 2.5mm M/S square tubing - mitre 45° at corners before welded with 15 x 15m/s solid square-bars at equal centres not exceeding 100mm complete with side mounting frames

GATE: 76 x 50 x 2.5mm M/S rectangular tubing - mitre 45° at corners before welded with 15 x 15m/s solid square-bars at equal centres not exceeding 100mm complete with sliding gate rail etc

"Watcrete" precast Concrete coping Type: PC1 (or equal approved)

"Watcrete" precast Concrete coping with steel spikers (See Detail) Type: 13 (or equal approved) Corners mitred with an angle grinder

**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.
- Skirtings**  
**C1.** 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrand 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 20mm 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 Aquasolv 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.  
**D4.** 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.  
**D5.** DPC - SANS Specified Type B approved 375 micron black dpc in walls at floor level above 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 joints.  
**Corices 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 bracing 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 60 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 200mm 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 louvers - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or gable flashing with Globalcoat finish (colour Traffic Green).  
**G8.** Flashings at bottom of louvers - 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 and 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) and then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E08/2AS 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 (C-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fire sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

**NOTES :**

- 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 800 mm Built in Balustrade
- 4) Gully 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
- 7) Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
- 8) West Facing Facades to have standardised aluminium louvers from below eaves to drop of 1200 mm
- 9) 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

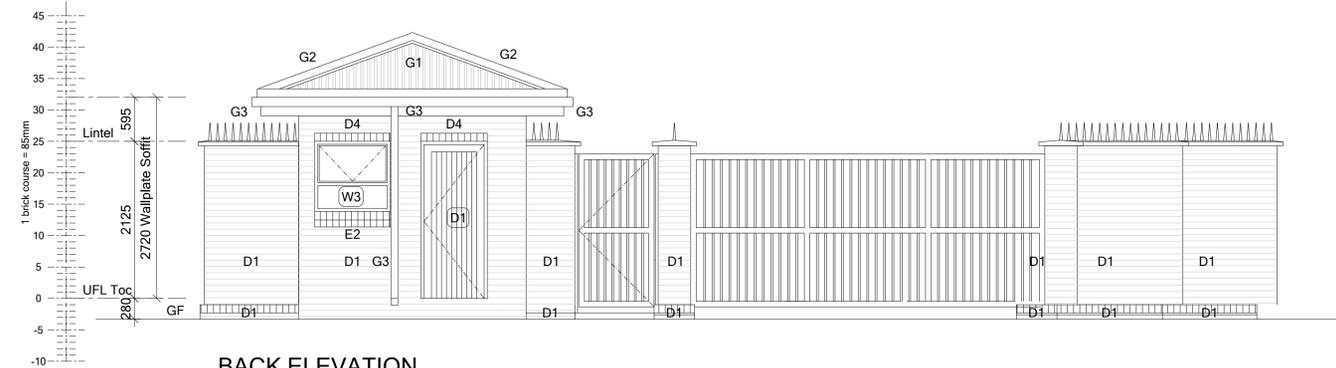


INSTITUTION	
MOLESHSTLOU SECPNDARY SCHOOL	
INSTITUTION EMIS NUMBER	
920210128	
SERVICE	
NEW BUILDINGS	
CONTRACT - SECTION	
DOCUMENTATION & PROCUREMENT	
DISCIPLINE	PROJECT STAGE
ARCHITECTURAL	4
WORK DESCRIPTION - SUB DIVISION	
GUARD HOUSE	
DRAWING DESCRIPTION	
PLAN, ELEVATIONS AND JOINERY	
FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED
1:100	
RESPONSIBLE PROFESSIONAL	
DATE	NAME
2020/06/20	YUSUF VAHED
SIGNATURE	PR NUMBER
	PA7812
DRAWING CO-ORDINATED	
CONSULTANT :	
CONTRACTOR :	

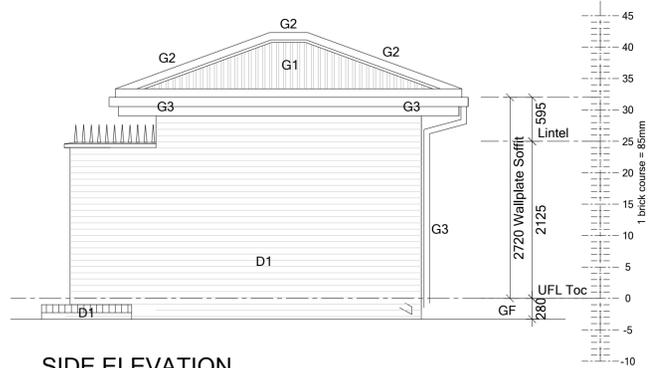
CADD SYSTEM	AUTO CAD	FILE NAME
SCALE	DRAWING NUMBER	REV
A 1	2020_76-GH-001	A

**NOTES :**

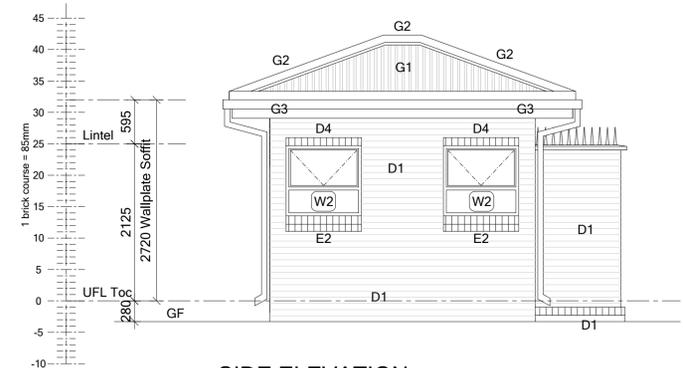
- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
- 2) Light Switch in Disabled toilet to be at 1200 mm above FFL
- 3) If Step over 800 mm Built in Balustrade
- 4) Gully positions to be determined as per site prescribed overall drainage design
- 5) 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) Vest 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



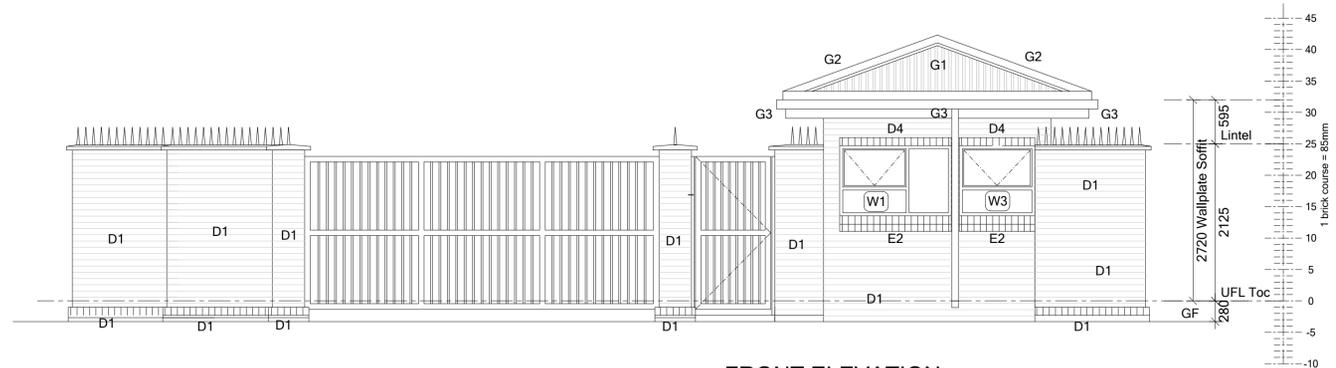
**BACK ELEVATION**  
Scale 1:50



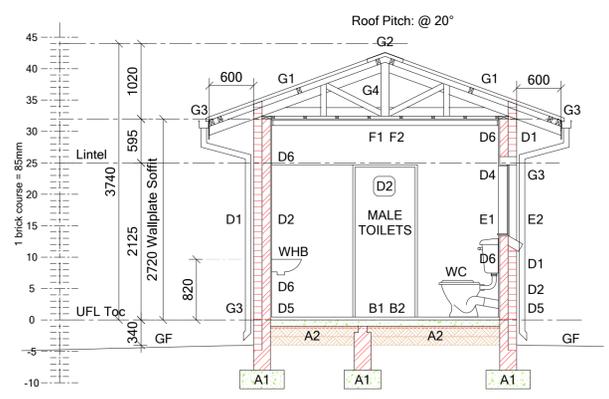
**SIDE ELEVATION**  
Scale 1:50



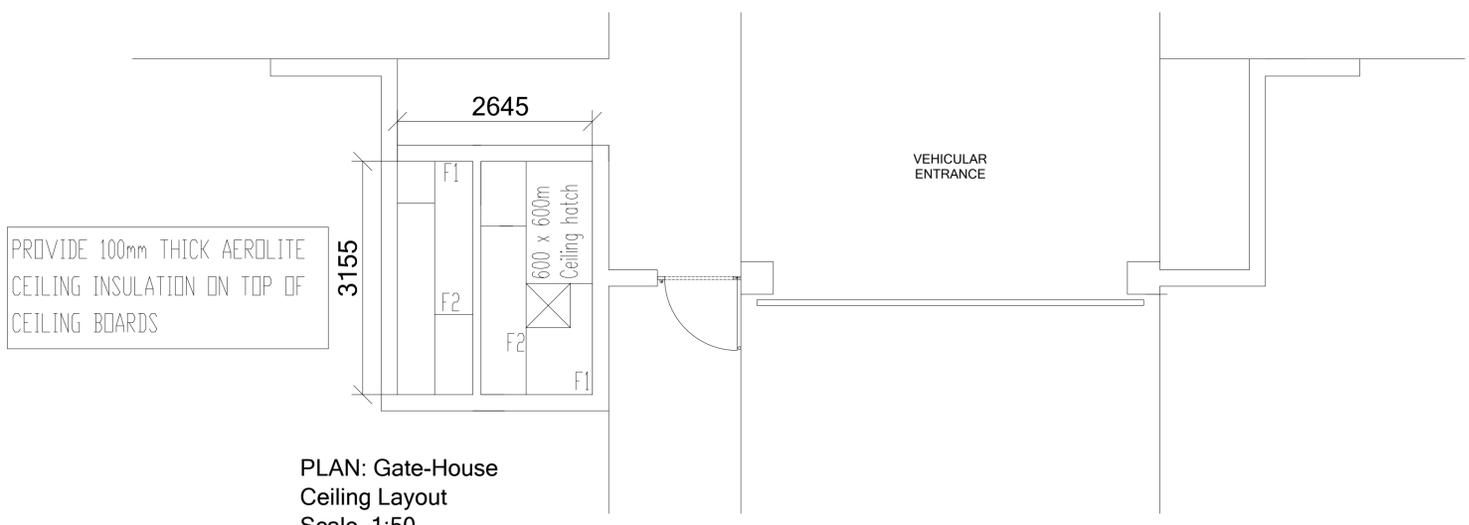
**SIDE ELEVATION**  
Scale 1:50



**FRONT ELEVATION**  
Scale 1:50



**SECTION A-A**  
Scale 1:50



**PLAN: Gate-House**  
Ceiling Layout  
Scale 1:50

**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:

**REVISIONS**

SIZE ON ORIGINAL DRAWING 100 mm

  
**LIMPOPO**  
 PROVINCIAL GOVERNMENT  
 REPUBLIC OF SOUTH AFRICA  
 DEPARTMENT OF  
**EDUCATION**

INSTITUTION

**MOLESHSTLOU SECPNDARY SCHOOL**

INSTITUTION EMIS NUMBER

**920210128**

SERVICE

**NEW BUILDINGS**

CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**

DISCIPLINE PROJECT STAGE

**ARCHITECTURAL 4**

WORK DESCRIPTION - SUB DIVISION

**GUARD HOUSE**

DRAWING DESCRIPTION

**SECTION, ELEVATIONS AND CEILING**

FILE No. ITEM No.

DESIGN DRAWN

SCALE 1:100 CHECKED

RESPONSIBLE PROFESSIONAL NAME SIGNATURE PR NUMBER

2023.06.20 YUSUF VAHED PA7812

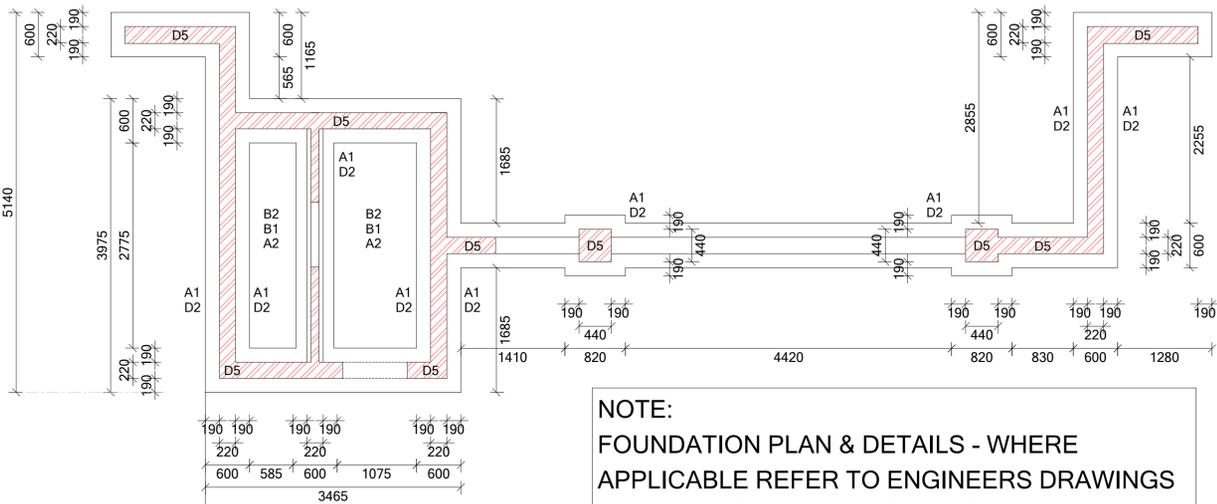
DRAWING CO-ORDINATED

CONSULTANT :

  
 ruben reddy architects  
 Suite 4 No 6 Unit: Office Building  
 6 Heron Street, Polokwane, 0999 South Africa  
 Tel: +27 15 065 0845, Fax: +27 11 475 8364  
 Email: info@rubenreddyarch.co.za  
 Web: www.rubenreddyarch.co.za

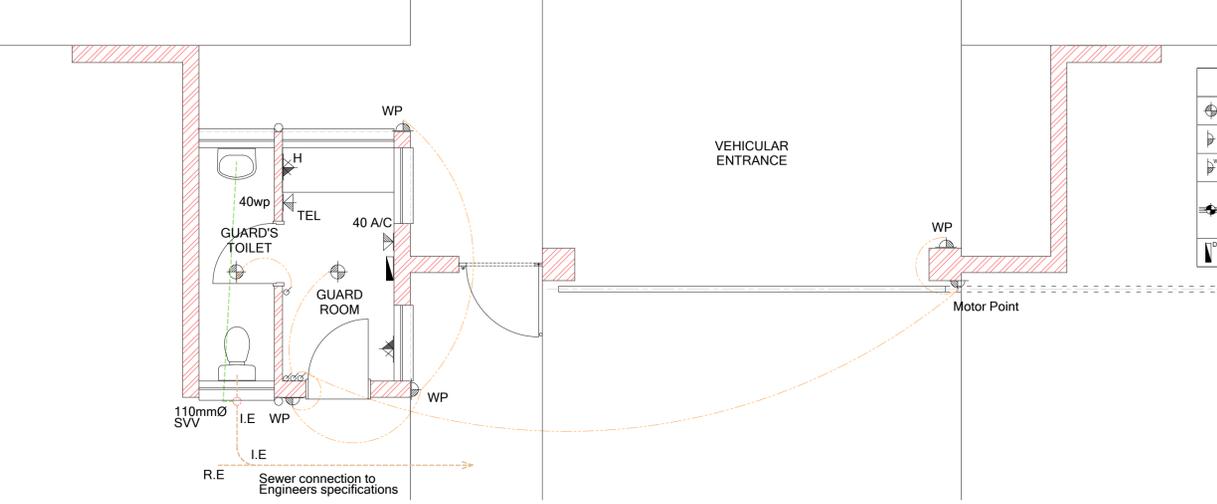
CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
SIZE	DRAWING NUMBER	REV
<b>A 1</b>	<b>2020_76-GH-002</b>	<b>A</b>

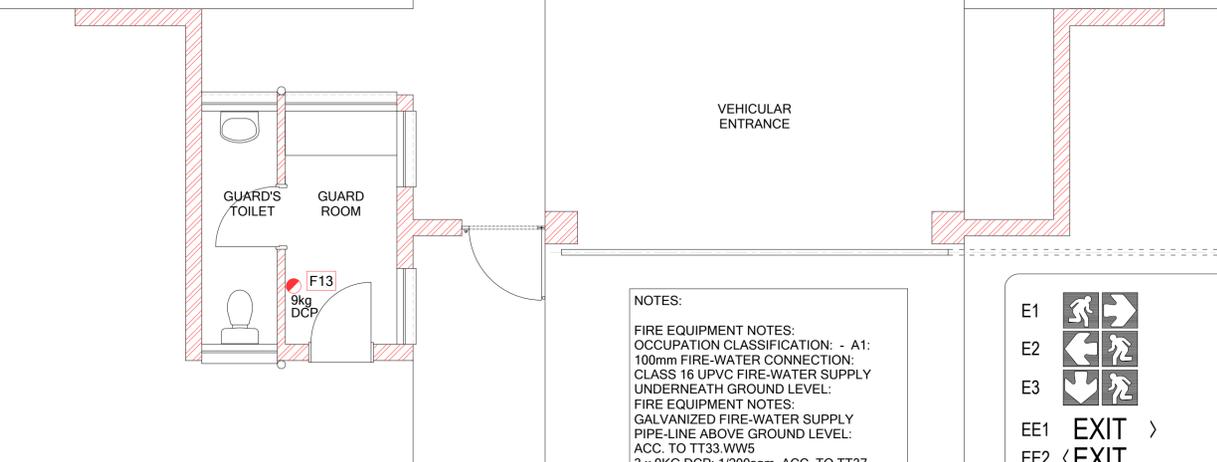


**NOTE:**  
**FOUNDATION PLAN & DETAILS - WHERE APPLICABLE REFER TO ENGINEERS DRAWINGS & DETAILS FOR REINFORCED CONCRETE FOUNDATIONS.**

**FOUNDATION PLAN - Gate-House**  
 Scale 1:50

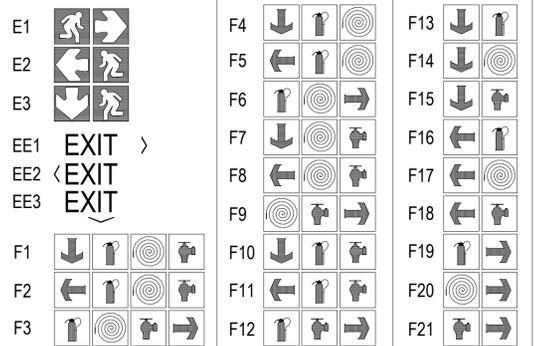


**PLAN: Gate-House**  
**Sewer Drainage & Electrical Layout**  
 Scale 1:50



**PLAN: Gate-House**  
**Water & Fire Equipment Layout**  
 Scale 1:50

**NOTES:**  
**FIRE EQUIPMENT NOTES:**  
 OCCUPATION CLASSIFICATION: - A1:  
 100mm FIRE-WATER CONNECTION:  
 CLASS 16 UPVC FIRE-WATER SUPPLY UNDERNEATH GROUND LEVEL:  
**FIRE EQUIPMENT NOTES:**  
 GALVANIZED FIRE-WATER SUPPLY PIPE-LINE ABOVE GROUND LEVEL:  
 ACC. TO TT33.WW5  
 3 x 9KG DCP: 1/200sqm. ACC. TO TT37.  
 2 x 30m FIRE HOSE REEL ACC. TO TT34  
 SIGNAGE & EQUIPMENT ACC. TO TT32  
 SIZES OF SIGNAGE MINIMUM 150x150mm PROVIDED BY SPECIALIST ACC. NBR & MUNICIPAL APPROVAL.  
 SIZES OF STEPS, RISERS: 170mm TREADS: 250mm  
 ACC. TO MM2.3 & 2.4 REF TO SECTION.



**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 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>3</sup> filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with anti 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.

**Skirtings**  
**C1** 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrant 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** 15 x 75 x 3mm Thick tubular sections 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 Aquasolv Degreaser (GR1), remove any 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.  
**D4** Untreated 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.  
**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 Chantreuse (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.

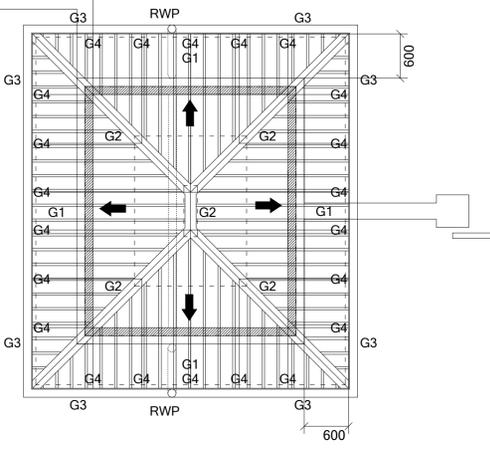
**Window**  
**E1** Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.  
**E2** External window 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 Woodcare Ultra (X44) suede varnish to cornices.  
**F2** Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP bracing 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 banded cover 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 carboliteum 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 carboliteum 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 purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knoths 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 and 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 C25 double door steel cupboard with hard 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) and then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E05/2AS 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 20mm 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 (C-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fire sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.



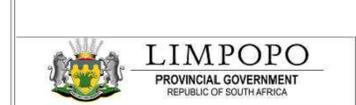
**ROOF PLAN: Gate-House**  
 Scale 1:50

- NOTES :**
- 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 800 mm Built in Balustrade
  - 4) Gully 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
  - 7) Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
  - 8) West Facing Facades to have standardised aluminium louvers from below eaves to drop of 1200 mm
  - 9) 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



INSTITUTION

MOLESHSTLOU SECPNDARY SCHOOL

INSTITUTION EMIS NUMBER

920210128

NEW BUILDINGS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

GUARD HOUSE

DRAWING DESCRIPTION

FOUNDATION, SEWER, FIRE AND ROOF

FILE No. ITEM No. DESIGN DRAWN SCALE 1:100 CHECKED

RESPONSIBLE PROFESSIONAL NAME SIGNATURE PR NUMBER DATE 2023/06/20 YUSUF VAHED PA7812 DRAWING CO-ORDINATED CONSULTANT: ruben reddy architects CONTRACTOR:

CADD SYSTEM AUTO CAD FILE NAME SIZE DRAWING NUMBER REV A 1 2020\_76-GH-003 A





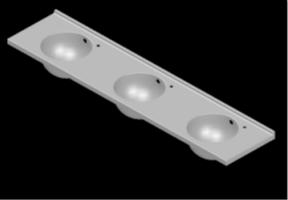








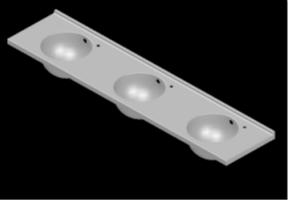
ENVIRO-LOO BLOCK		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
	S0016176	LESEDI 600	2	
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	2	
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	2	
	S0012304	EVOX Angle valve	2	
	C-15/350	Flexible connector, fxf, chrome	8	
	S0013672	Evox KELIA Basin Mixer Chrome	2	

GRADE R 1 CLASSROOM		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
<b>LEARNER ABLUTIONS</b>				
	S0016178	EVOX LESEDI Triple Basin Set Acrylic White 1800x400x400mm	1	
	S0016261	EVOX MARU Junior One-piece Toilet White Vitreous China, size 500x285X530mm, P-trap 180mm, Vitreous China, size 500x285X530mm, P-trap 180mm,Top dual flush 3/4 liters	4	
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	3	
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	3	
	S0012304	EVOX Angle valve	7	
	S0013672	Evox KELIA Basin Mixer Chrome	3	

	C-15/350	Flexible connector, fxf, chrome	7
<b>STAFF ABLUTION</b>			
	S0013672	Evox KELIA Basin Mixer Chrome	1
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	1
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	1
	S0012304	EVOX Angle valve	2
	ATLBASWH U0500UE	Atlas 50cm Basin & Semi Pedestal	1
	C-15/350	Flexible connector, fxf, chrome	1

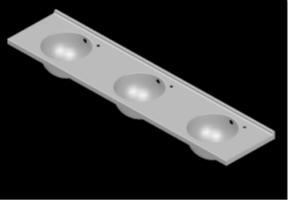
	S0015157	EVOX SKYE Close Coupled Toilet Round	1
<b>GRADE R CLASSROOMS</b>			
	S0013674	EVOX KELIA Sink Mixer Chrome	1
	SCO-800-SE	Kwikot SCO-800-SE Sit On Sink	1
	S0000084	Franke Spazio 1 Plumbing Kit	1
	S0012304	EVOX Angle valve	2



GRADE R 2 CLASSROOM		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
<b>LEARNER ABLUTIONS</b>				
	S0016178	EVOX LESEDI Triple Basin Set Acrylic White 1800x400x400mm	1	
	S0016261	EVOX MARU Junior One-piece Toilet White Vitreous China, size 500x285X530mm, P-trap 180mm, Vitreous China, size 500x285X530mm, P-trap 180mm,Top dual flush 3/4 liters	4	
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	3	
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	3	
	S0012304	EVOX Angle valve	7	
	S0013672	Evox KELIA Basin Mixer Chrome	3	

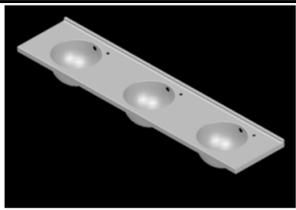
	C-15/350	Flexible connector, fxf, chrome	7
<b>STAFF ABLUTION</b>			
	S0013672	Evox KELIA Basin Mixer Chrome	1
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	1
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	1
	S0012304	EVOX Angle valve	2
	ATLBASWH U0500UE	Atlas 50cm Basin & Semi Pedestal	1
	C-15/350	Flexible connector, fxf, chrome	1

	S0015157	EVOX SKYE Close Coupled Toilet Round	1
<b>GRADE R CLASSROOMS</b>			
	S0013674	EVOX KELIA Sink Mixer Chrome	2
	SCO-800-SE	Kwikot SCO-800-SE Sit On Sink	2
	S0000084	Franke Spazio 1 Plumbing Kit	2
	S0012304	EVOX Angle valve	4

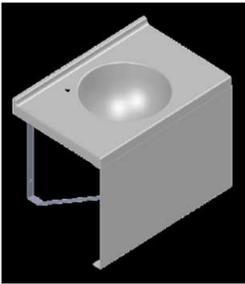
GRADE R 3 CLASSROOM		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
<b>LEARNER ABLUTIONS</b>				
	S0016178	EVOX LESEDI Triple Basin Set Acrylic White 1800x400x400mm	2	
	S0016261	EVOX MARU Junior One-piece Toilet White Vitreous China, size 500x285X530mm, P-trap 180mm, Vitreous China, size 500x285X530mm, P-trap 180mm,Top dual flush 3/4 liters	8	
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	6	
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	6	
	S0012304	EVOX Angle valve	6	
	S0013672	Evox KELIA Basin Mixer Chrome	6	

	C-15/350	Flexible connector, fxf, chrome	14
<b>STAFF ABLUTION</b>			
	S0013672	Evox KELIA Basin Mixer Chrome	2
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	2
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	2
	S0012304	EVOX Angle valve	2
	ATLBASWHU0 500UE	Atlas 50cm Basin & Semi Pedestal	2
	C-15/350	Flexible connector, fxf, chrome	4

	S0015157	EVOX SKYE Close Coupled Toilet Round	2
<b>GRADE R CLASSROOMS</b>			
	S0013674	EVOX KELIA Sink Mixer Chrome	3
	SCO-800-SE	Kwikot SCO-800-SE Sit On Sink	3
	S0000084	Franke Spazio 1 Plumbing Kit	3
	S0012304	EVOX Angle valve	3

GRADE R 4 CLASSROOM BLOCK SANWARE SCHEDULE			REV00
Picture	Code	Description	Qty
	S0016178	EVOX LESEDI Triple Basin Set Acrylic White 1800x400x400mm	2
	S0016261	EVOX MARU Junior One-piece Toilet White Vitreous China, size 500x285X530mm, P-trap 180mm, Vitreous China, size 500x285X530mm, P-trap 180mm,Top dual flush 3/4 liters	8
	ATLBASWHU0500 UE	Atlas 50cm Basin & Semi Pedestal	2
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	20
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	20
	S0012304	EVOX Angle valve	20

	C-15/350	Flexible connector, fxf, chrome	15
	S0013672	Evox KELIA Basin Mixer Chrome	2
	S0015157	EVOX SKYE Close Coupled Toilet Round	2
	S0013674	EVOX KELIA Sink Mixer Chrome	3
	SCO-800-SE	Kwikot SCO-800-SE Sit On Sink	3
	S0000084	Franke Spazio 1 Plumbing Kit	3

GUARD HOUSE		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
	S0016176	LESEDI 600	1	
	S0012393	Neo Deluxe TF Close-Coupled Toilet	1	
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	1	
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	1	
	S0012304	EVOX Angle valve	1	
	C-15/350	Flexible connector, fxf, chrome	2	

	S0013672	Evox KELIA Basin Mixer Chrome	1
---	----------	-------------------------------	---

**Ironmongery Schedule - ENVIROLOO**

**Recipe: D01 - WC FEMALE ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6000SS	IRONWARE 150*150MM O/L ENGR SIGN SS FEMALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 - WC FEMALE ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	ENVIROLOO	D1		D1	WC FEMALE ENTRANCE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - ENVIROLOO**

**Recipe: D01 - WC MALE ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6001SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 - WC MALE ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	ENVIROLOO	D1		D1	WC MALE ENTRANCE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - ENVIROLOO**

**Recipe: D02 / D03- CUBICLES**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW1320/170	CALINI ROUND PULL HANDLE: LENGTH = 170MM   CTC =150MM   POST =19MM   SS	SS	Each	1.0
2		PPH1.2*15*25CTC130MM	1.2S.S PLATE FOR PULL 150*250CTC150MM	SS	Each	1.0
3		IW1925	WC INDICATOR SET SC	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**4 Doors on Recipe D02 / D03- CUBICLES**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	ENVIROLOO	D2		D2	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	ENVIROLOO	D2		D2	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	ENVIROLOO	D2		D2	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	ENVIROLOO	D2		D2	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**6**

**Ironmongery Schedule - GAURD HOUSE**

**Recipe: D01 - GAURD HOUSE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 - GAURD HOUSE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GAURD HOUSE	D1		D1	GAURD HOUSE ENTR	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GAURD HOUSE**

**Recipe: D02 / D03- CUBICLES**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW1320/170	CALINI ROUND PULL HANDLE: LENGTH = 170MM   CTC =150MM   POST =19MM   SS	SS	Each	1.0
2		PPH1.2*15*25CTC130MM	1.2S.S PLATE FOR PULL 150*250CTC150MM	SS	Each	1.0
3		IW1925	WC INDICATOR SET SC	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**1 Door on Recipe D02 / D03- CUBICLES**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GAURD HOUSE	D2		D2	GAURD BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**2**

**Ironmongery Schedule - 4 CLASSROOM BLOCK**

**Recipe: D01 - CLASSROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0
4		IW5017	IW CABIN HOOK 150MM SS304		Each	1.0

**4 Doors on Recipe D01 - CLASSROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	4 CLASSROOM BLOCK	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	4 CLASSROOM BLOCK	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	4 CLASSROOM BLOCK	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	4 CLASSROOM BLOCK	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**4**

**Ironmongery Schedule - GR R 2 CLASS ROOM**

**Recipe: D01 - CLASSROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0
4		IW5017	IW CABIN HOOK 150MM SS304		Each	1.0

**2 Doors on Recipe D01 - CLASSROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 2 CLASS ROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 2 CLASS ROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 2 CLASS ROOM**

**Recipe: D01 / D02 / D05 - STORE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**3 Doors on Recipe D01 / D02 / D05 - STORE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 2 CLASS ROOM	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 2 CLASS ROOM	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	GR R 2 CLASS ROOM	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 2 CLASS ROOM**

**Recipe: D02 / - STAFF WC**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D02 / - STAFF WC**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 2 CLASS ROOM	D2		D2	STAFF BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 2 CLASS ROOM**

**Recipe: D02 / D03- CUBICLES**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW1320/170	CALINI ROUND PULL HANDLE: LENGTH = 170MM   CTC =150MM   POST =19MM   SS	SS	Each	1.0
2		PPH1.2*15*25CTC130MM	1.2S.S PLATE FOR PULL 150*250CTC150MM	SS	Each	1.0
3		IW1925	WC INDICATOR SET SC	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**4 Doors on Recipe D02 / D03- CUBICLES**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 2 CLASS ROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 2 CLASS ROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	GR R 2 CLASS ROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	GR R 2 CLASS ROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 2 CLASS ROOM**

**Recipe: TBC - WC UNISEX ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6002SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE AND FEMALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**CONFIRM DOOR AND SIGNAGE**

**1 Door on Recipe TBC - WC UNISEX ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 2 CLASS ROOM	TBC		TBC	ENTRANCE TO BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**11**

**Ironmongery Schedule - 4 CLASSROOM AND STORE BLOCK**

**Recipe: D01 - CLASSROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0
4		IW5017	IW CABIN HOOK 150MM SS304		Each	1.0

**4 Doors on Recipe D01 - CLASSROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	4 CLASSTROOM AND STORE BLOCK	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	4 CLASSTROOM AND STORE BLOCK	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	4 CLASSTROOM AND STORE BLOCK	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	4 CLASSTROOM AND STORE BLOCK	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - 4 CLASSROOM AND STORE BLOCK**

**Recipe: D01 / D02 / D05 - STORE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**4 Doors on Recipe D01 / D02 / D05 - STORE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	4 CLASSTROOM AND STORE BLOCK	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	4 CLASSTROOM AND STORE BLOCK	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	4 CLASSTROOM AND STORE BLOCK	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	4 CLASSTROOM AND STORE BLOCK	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**8**

**Ironmongery Schedule - GR R 1 ROOMS**

**Recipe: D01 - CLASSROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0
4		IW5017	IW CABIN HOOK 150MM SS304		Each	1.0

**1 Door on Recipe D01 - CLASSROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 1 ROOMS	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 1 ROOMS**

**Recipe: D01 / D02 / D05 - STORE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**2 Doors on Recipe D01 / D02 / D05 - STORE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 1 ROOMS	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 1 ROOMS	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 1 ROOMS**

**Recipe: D02 / - STAFF WC**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D02 / - STAFF WC**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 1 ROOMS	D2		D2	STAFF BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 1 ROOMS**

**Recipe: D02 / D03- CUBICLES**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW1320/170	CALINI ROUND PULL HANDLE: LENGTH = 170MM   CTC =150MM   POST =19MM   SS	SS	Each	1.0
2		PPH1.2*15*25CTC130MM	1.2S.S PLATE FOR PULL 150*250CTC150MM	SS	Each	1.0
3		IW1925	WC INDICATOR SET SC	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**4 Doors on Recipe D02 / D03- CUBICLES**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 1 ROOMS	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 1 ROOMS	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	GR R 1 ROOMS	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	GR R 1 ROOMS	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 1 ROOMS**

**Recipe: TBC - WC UNISEX ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6002SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE AND FEMALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**CONFIRM DOOR AND SIGNAGE**

**1 Door on Recipe TBC - WC UNISEX ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 1 ROOMS	TBC		TBC	ENTRANCE TO BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**9**

**Ironmongery Schedule - 5 CLASS ROOM**

**Recipe: D01 - CLASSROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0
4		IW5017	IW CABIN HOOK 150MM SS304		Each	1.0

**5 Doors on Recipe D01 - CLASSROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	5 CLASS ROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	5 CLASS ROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	5 CLASS ROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	5 CLASS ROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
5	5 CLASS ROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**5**

**Ironmongery Schedule - 5 CLASSROOM BLOCK WITH STORE**

**Recipe: D01 - CLASSROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0
4		IW5017	IW CABIN HOOK 150MM SS304		Each	1.0

**5 Doors on Recipe D01 - CLASSROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	5 CLASSROOM BLOCK WITH STORE	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	5 CLASSROOM BLOCK WITH STORE	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	5 CLASSROOM BLOCK WITH STORE	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	5 CLASSROOM BLOCK WITH STORE	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
5	5 CLASSROOM BLOCK WITH STORE	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - 5 CLASSROOM BLOCK WITH STORE**

**Recipe: D01 / D02 / D05 - STORE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**5 Doors on Recipe D01 / D02 / D05 - STORE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	5 CLASSROOM BLOCK WITH STORE	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	5 CLASSROOM BLOCK WITH STORE	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	5 CLASSROOM BLOCK WITH STORE	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	5 CLASSROOM BLOCK WITH STORE	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
5	5 CLASSROOM BLOCK WITH STORE	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**10**

**Ironmongery Schedule - MEDIUM ADMIN**

**Recipe: D01 - ENTRANCE DOUBLE DOOR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW1051	CALINI LEVER HANDLE ON ROSE SS	SS	Pair	1.0
2		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
3		IW2140SS	IRONWARE REBATE KIT FOR IW2207   IW2219 LOCK	SS	Each	1.0
4		IW1904KHSS	CALINI ROUND SCREW TYPE KEYHOLE ESCUTCHEON SS	SS	Pair	1.0
5		IW4060SS	IRONWARE DUST EXCLUDING SOCKET	SS	Each	1.0
6		IW4123SS	IRONWARE 150MM FLUSH LEVER BOLT	SS	Each	1.0
7		IW4125SS	IRONWARE 300MM FLUSH LEVER BOLT	SS	Each	1.0
8		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	2.0
9		IW5002SC	IRONWARE DOOR STOP	SC	Each	2.0

**2 Doors on Recipe D01 - ENTRANCE DOUBLE DOOR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	MEDIUM ADMIN	D1		D1	ENTRANCE HALL	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	MEDIUM ADMIN	D1		D1	ENTRANCE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - MEDIUM ADMIN**

**Recipe: D02 / D04 - WC ENTR FEMALE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2031	IRONWARE WC DEAD LOCK WITH 8MM FOLLOWER	SS	Each	1.0
2		IW1926	IRONWARE WC INDICATOR SET	SS	Each	1.0
3		IW6000SS	IRONWARE 150*150MM O/L ENGR SIGN SS FEMALE	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**1 Door on Recipe D02 / D04 - WC ENTR FEMALE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	MEDIUM ADMIN	D4		D4	WC FEMALE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - MEDIUM ADMIN**

**Recipe: D02 / D04 - WC ENTR MALE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2031	IRONWARE WC DEAD LOCK WITH 8MM FOLLOWER	SS	Each	1.0
2		IW1926	IRONWARE WC INDICATOR SET	SS	Each	1.0
3		IW6001SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**1 Door on Recipe D02 / D04 - WC ENTR MALE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	MEDIUM ADMIN	D4		D4	WC MALE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - MEDIUM ADMIN**

**Recipe: D03 - KITCHEN**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6007SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS TEA CUP	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
5		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D03 - KITCHEN**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	MEDIUM ADMIN	D3		D3	KITCHEN	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - MEDIUM ADMIN**

**Recipe: D05 - STRONG ROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IBM	Ironmongery by manufacturer	Other	Not Specified	1.0

**1 Door on Recipe D05 - STRONG ROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	MEDIUM ADMIN	D5		D5	STRONG ROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - MEDIUM ADMIN**

**Recipe: D1 / D2 / D3 OFFICE DOORS**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**7 Doors on Recipe D1 / D2 / D3 OFFICE DOORS**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	MEDIUM ADMIN	D2		D2	SICK ROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	MEDIUM ADMIN	D2		D2	PRINT ROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	MEDIUM ADMIN	D2		D2	VICE PRINCIPAL	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	MEDIUM ADMIN	D2		D2	GENERAL OFFICE	0	Recipe Applied	MK: GMK: GGMK: KA:	
5	MEDIUM ADMIN	D2		D2	PRINCIPAL OFFICE	0	Recipe Applied	MK: GMK: GGMK: KA:	
6	MEDIUM ADMIN	D2		D2	STATIONARY STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
7	MEDIUM ADMIN	D3		D3	RECEPTION / CLERK OFFICE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**13**

**Ironmongery Schedule - GR R 3 CLASSROOM**

**Recipe: D01 - CLASSROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0
4		IW5017	IW CABIN HOOK 150MM SS304		Each	1.0

**3 Doors on Recipe D01 - CLASSROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 3 CLASSROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 3 CLASSROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	GR R 3 CLASSROOM	D1		D1	CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 3 CLASSROOM**

**Recipe: D01 - WC FEMALE ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6000SS	IRONWARE 150*150MM O/L ENGR SIGN SS FEMALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 - WC FEMALE ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 3 CLASSROOM	TBC		D3	ENTRANCE TO BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 3 CLASSROOM**

**Recipe: D01 - WC MALE ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6001SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 - WC MALE ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 3 CLASSROOM	TBC		D3	ENTRANCE TO BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 3 CLASSROOM**

**Recipe: D01 / D02 / D05 - STORE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**5 Doors on Recipe D01 / D02 / D05 - STORE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 3 CLASSROOM	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 3 CLASSROOM	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	GR R 3 CLASSROOM	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	GR R 3 CLASSROOM	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
5	GR R 3 CLASSROOM	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 3 CLASSROOM**

**Recipe: D02 / - STAFF WC**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**2 Doors on Recipe D02 / - STAFF WC**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 3 CLASSROOM	D2		D2	STAFF BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 3 CLASSROOM	D2		D2	STAFF BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - GR R 3 CLASSROOM**

**Recipe: D02 / D03- CUBICLES**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW1320/170	CALINI ROUND PULL HANDLE: LENGTH = 170MM   CTC =150MM   POST =19MM   SS	SS	Each	1.0
2		PPH1.2*15*25CTC130MM	1.2S.S PLATE FOR PULL 150*250CTC150MM	SS	Each	1.0
3		IW1925	WC INDICATOR SET SC	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**8 Doors on Recipe D02 / D03- CUBICLES**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	GR R 3 CLASSROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	GR R 3 CLASSROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	GR R 3 CLASSROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	GR R 3 CLASSROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
5	GR R 3 CLASSROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
6	GR R 3 CLASSROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
7	GR R 3 CLASSROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
8	GR R 3 CLASSROOM	D3		D3	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**20**

**Ironmongery Schedule - WATERBORNE BATHROOMS**

**Recipe: D01 - WC FEMALE ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6000SS	IRONWARE 150*150MM O/L ENGR SIGN SS FEMALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 - WC FEMALE ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	WATERBORNE BATHROOMS	D1		D1	WC FEMALE ENTRANCE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - WATERBORNE BATHROOMS**

**Recipe: D01 - WC MALE ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6001SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 - WC MALE ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	WATERBORNE BATHROOMS	D1		D1	WC MALE ENTRANCE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - WATERBORNE BATHROOMS**

**Recipe: D02 / D03- CUBICLES**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW1320/170	CALINI ROUND PULL HANDLE: LENGTH = 170MM   CTC =150MM   POST =19MM   SS	SS	Each	1.0
2		PPH1.2*15*25CTC130MM	1.2S.S PLATE FOR PULL 150*250CTC150MM	SS	Each	1.0
3		IW1925	WC INDICATOR SET SC	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**4 Doors on Recipe D02 / D03- CUBICLES**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	WATERBORNE BATHROOMS	D2		D2	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	WATERBORNE BATHROOMS	D2		D2	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	WATERBORNE BATHROOMS	D2		D2	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	WATERBORNE BATHROOMS	D2		D2	CUBICLE DOORS	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**6**

**Ironmongery Schedule - SMALL ADMINISTRATION**

**Recipe: D01 / D02 / D05 - STORE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 / D02 / D05 - STORE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	SMALL ADMINISTRATION	D2		D2	STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - SMALL ADMINISTRATION**

**Recipe: D01 / D03 - WC UNISEX ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6002SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE AND FEMALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 / D03 - WC UNISEX ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	SMALL ADMINISTRATION	D3		D3	STAFF BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - SMALL ADMINISTRATION**

**Recipe: D03 - WC DISABLED**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW1321	CALINI ROUND PULL HANDLE: LENGTH = 625MM & 325MM   CTC = 600mm & 300mm   POST =25MM   SS	SS	Set	1.0
2		IW2031	IRONWARE WC DEAD LOCK WITH 8MM FOLLOWER	SS	Each	1.0
3		IW1926	IRONWARE WC INDICATOR SET	SS	Each	1.0
4		IW9130	EN2-5 D/A S/CHAN CAM ACTION CLOSER SIL	SIL	Each	1.0
5		IW6005SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS DISABLED	SS	Each	1.0
6		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0

**1 Door on Recipe D03 - WC DISABLED**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	SMALL ADMINISTRATION	D3		D3	WC DISABLED	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - SMALL ADMINISTRATION**

**Recipe: D05 - STRONG ROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IBM	Ironmongery by manufacturer	Other	Not Specified	1.0

**1 Door on Recipe D05 - STRONG ROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	SMALL ADMINISTRATION	D5		D5	STRONG ROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - SMALL ADMINISTRATION**

**Recipe: D1 / D2 / D3 OFFICE DOORS**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**5 Doors on Recipe D1 / D2 / D3 OFFICE DOORS**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	SMALL ADMINISTRATION	D1		D1	WWAITING AREA	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	SMALL ADMINISTRATION	D1		D1	ENTR DOOR	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	SMALL ADMINISTRATION	D2		D2	ACCOUNTS	0	Recipe Applied	MK: GMK: GGMK: KA:	
4	SMALL ADMINISTRATION	D2		D2	PRINCIPAL OFFICE	0	Recipe Applied	MK: GMK: GGMK: KA:	
5	SMALL ADMINISTRATION	D2		D2	DEPUTY PRINCIPAL	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**9**

**Ironmongery Schedule - MULTIPURPOSE CLASS ROOM**

**Recipe: D01 - CLASSROOM**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0
4		IW5017	IW CABIN HOOK 150MM SS304		Each	1.0

**1 Door on Recipe D01 - CLASSROOM**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	MULTIPURPOSE CLASS ROOM	D1		D1	MULTI PURPOSE CLASSROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**1**

**Ironmongery Schedule - NUTRITION BLOCK**

**Recipe: D01 / D02 / D05 - STORE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
3		IW5002SC	IRONWARE DOOR STOP	SC	Each	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**3 Doors on Recipe D01 / D02 / D05 - STORE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	NUTRITION BLOCK	D1		D1	BULK STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	NUTRITION BLOCK	D1		D1	DAY STORE	0	Recipe Applied	MK: GMK: GGMK: KA:	
3	NUTRITION BLOCK	D5		D5	PREP AREA	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - NUTRITION BLOCK**

**Recipe: D01 / D03 - WC UNISEX ENTR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW6002SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE AND FEMALE	SS	Each	1.0
3		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
4		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**1 Door on Recipe D01 / D03 - WC UNISEX ENTR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	NUTRITION BLOCK	D1		D1	ENTRANCE TO BATHROOM	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - NUTRITION BLOCK**

**Recipe: D02 / D04 - WC ENTR FEMALE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2031	IRONWARE WC DEAD LOCK WITH 8MM FOLLOWER	SS	Each	1.0
2		IW1926	IRONWARE WC INDICATOR SET	SS	Each	1.0
3		IW6000SS	IRONWARE 150*150MM O/L ENGR SIGN SS FEMALE	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**1 Door on Recipe D02 / D04 - WC ENTR FEMALE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	NUTRITION BLOCK	D2		D2	FEMALE CUBICLE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - NUTRITION BLOCK**

**Recipe: D02 / D04 - WC ENTR MALE**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2031	IRONWARE WC DEAD LOCK WITH 8MM FOLLOWER	SS	Each	1.0
2		IW1926	IRONWARE WC INDICATOR SET	SS	Each	1.0
3		IW6001SS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MALE	SS	Each	1.0
4		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	1.0
5		IW5034	IRONWARE HOOK & BUFFER	SS	Each	1.0

**1 Door on Recipe D02 / D04 - WC ENTR MALE**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	NUTRITION BLOCK	D2		D2	MALE CUBICLE	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - NUTRITION BLOCK**

**Recipe: D03 - ESCAPE DOOR**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW8003	IW DBL DOOR P/BOLT 3PT RED/BLK	BLK	Each	1.0
2		IW6012LSS	IRONWARE 150*150MM OUTLINE ENGRAVED SS MAN RUNNING LEFT	SS	Each	1.0

**1 Door on Recipe D03 - ESCAPE DOOR**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	NUTRITION BLOCK	D3		D3	ESCAPE DOOR	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - NUTRITION BLOCK**

**Recipe: D06 - BIC**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW2140SS	IRONWARE REBATE KIT FOR IW2207   IW2219 LOCK	SS	Each	1.0
3		IW4060SS	IRONWARE DUST EXCLUDING SOCKET	SS	Each	1.0
4		IW4123SS	IRONWARE 150MM FLUSH LEVER BOLT	SS	Each	1.0
5		IW4125SS	IRONWARE 300MM FLUSH LEVER BOLT	SS	Each	1.0
6		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	2.0
7		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**ALL TO BE CONFIRMED**

**1 Door on Recipe D06 - BIC**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	NUTRITION BLOCK	D6		D6	BIC	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Ironmongery Schedule - NUTRITION BLOCK**

**Recipe: D07 - GAS BANK**

	Image	Product Code	Product Description	Finish	Unit	Qty
1		IW2009SC	IRONWARE 76MM SABS VARI LEVER SASH LOCK	SC	Each	1.0
2		IW2140SS	IRONWARE REBATE KIT FOR IW2207   IW2219 LOCK	SS	Each	1.0
3		IW4060SS	IRONWARE DUST EXCLUDING SOCKET	SS	Each	1.0
4		IW4123SS	IRONWARE 150MM FLUSH LEVER BOLT	SS	Each	1.0
5		IW4125SS	IRONWARE 300MM FLUSH LEVER BOLT	SS	Each	1.0
6		IW3001SS	IRONWARE 100*76*3MM 4BB BUTT HINGES	SS	Pair	2.0
7		IW1226KHSN	IRONWARE L/HANDLE ON B/PLATE KEYHOLE SN		Pair	1.0

**2 Doors on Recipe D07 - GAS BANK**

	Floor/Level	Door Number	Hand	Type Mark	Area / Location	Rev	Change Details	Master Key Reference	Remarks
1	NUTRITION BLOCK	D7		D7	GAS BANK	0	Recipe Applied	MK: GMK: GGMK: KA:	
2	NUTRITION BLOCK	D7		D7	GAS BANK	0	Recipe Applied	MK: GMK: GGMK: KA:	

**Total number of doors**

**10**



MEDIUM ADMIN BLOCK		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
	SCO-800-SE	Kwikot SCO-800-SE Sit On Sink	1	
	SCO-800-SE	Kwikot SCO-800-SE Sit On Sink	1	
	S0013674	EVOX KELIA Sink Mixer Chrome	1	
	S0012304	EVOX Angle valve	4	
	S0015157	EVOX SKYE Close Coupled Toilet Round	2	
	ATLBASWHU 0500UE	Atlas 50cm Basin & Semi Pedestal	3	

	S0013672	Evox KELIA Basin Mixer Chrome	3
	PARSETLLBOR AIBE	Atlas (Raised Height) Paraplegic Low-Level Combo: Toilet and 2x Grab Rails	1
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	4
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	3
	C-15/350	Flexible connector, fxf, chrome	4

NUTRITION BLOCK		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
	S0015157	EVOX SKYE Close Coupled Toilet Round	2	
	ATLBASWH U0500UE	Atlas 50cm Basin & Semi Pedestal	2	
	S0013672	Evox KELIA Basin Mixer Chrome	2	
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	2	
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	2	
	C-15/350	Flexible connector, fxf, chrome	4	



S0012304

EVOX Angle valve

2

# **SCHEDULE & SPECIFICATION INFORMATION**

FOR

## **LIMPOPO SCHOOLS**

14 August 2023

Revision 00

<b>1. SPECIFICATIONS AND FINISHES</b>
<b>2. PALISADE FENCE SPECIFICATION</b>
<b>3. FURNITURE SCHEDULE</b>
<b>4. IRONMONGERY SCHEDULE</b>
<b>5. SANITARYWARE SCHEDULE</b>

**NB.**

**ALL DIMENSIONS AND QUANTITIES TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION.**

**DISCREPANCIES TO BE REPORTED TO THE ARCHITECT AND QS.**

**SPECIFIED OR SIMILAR APPROVED SANITARYWARE AND IRONMONGERY APPLICABLE.**

## **1. SPECIFICATIONS AND FINISHES**

### **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.

### **SKIRTINGS**

**C1.** Skirting formed of cut Kilimanjaro floor tile - cut to 420x75mm high.

### **WALLS AND STRUCTURE**

**D1.** External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints

**D2.** Brick force - 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 Aqualsovl 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 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 stock brick 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 stock brick 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 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 Woodcare Ultra (X44) suede varnish to cornices.

**F2.** Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP brander 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 Global coat 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 Global coat 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 fascia 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 Global coat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Global coat to match colour of gutters.

**G6.** Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Global coat 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 Global coat 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 Global coat finish (Colour Traffic Green)

**FITTINGS (REFER TO REVISED NOTES)**

H1. 2 x white Porcelain white magnetic marker board 2000x1300 per class.

H2. 2 x Pinning board per class 2400 x 1350mm. Colour: Stone. 75 x 38mm aluminium frame with 12 x 12 mm rebate and 12mm soft board glued to wall with SABS approved adhesive.

H3. Greenfield G25 double door steel cupboard with standard baked enamelled 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**

9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. *AS PER MECHANICAL ENGINEERS DETAILS AND SEPCIFICATIONS*  
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.

12 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. *AS PER MECHANICAL ENGINEERS DETAILS AND SEPCIFICATIONS*

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. *AS PER MECHANICAL ENGINEERS DETAILS AND SEPCIFICATIONS*

## **REVISED NOTES**

### **FLOOR FINISH:**

420x420 x 11.5mm Kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edge trim.

*Sample to be provided for architect and school approval.*

### **TOILET WALL FINISH:**

Install new interior 150 x 150 x 6mm ceramic wall tiles.

*Sample to be provided for architect and school approval.*

### **BALUSTRADES FOR RAMPS:**

Raking welded balustrading 1050mm high. 50 x 75 x 3mm hollow section posts at 1200mm centres with 50 x 50 x 3mm hollow section top and bottom rails. 19 x 19mm square vertical uprights at 100mm centres. 150 x 150 x 6mm baseplate, 4 x holed and welded to soffit posts. M16 x 100mm expansion bolts.

### **BALUSTRADE FOR WALKWAYS:**

Horizontal welded balustrading 1000mm high. 70 x 70 x 2.5mm hollow section posts at 1600mm centres; 40 x 40 x 2.5mm hollow section top and bottom rails. 10mm diameter vertical uprights at 100mm centres as per engineers detail.

### **WALKWAYS:**

15mm High strength wood floated, to comply with BRE category 'B' testing method, floor screed all done in accordance with the Sand and Cement Institute method of construction on minimum 85mm thick reinforced concrete surface bed with fall to sides of 10mm according to typical section dimensions; with wood floated concrete finish with edges finished off smooth with edging tool with expansion joints in slab at centre line of Portal Framed, all on 250 micron USB Green DPM on compacted hardcore fill, all as per Engineer's specifications . Note Final floor finish of walkways to be lower than final floor finish of classrooms.

PAVING: Courtyards : Infraset Masonique

Walkways : Infraset Cottagestone

## **2. PALISADE FENCE SPECIFICATION**

### **STEEL PALISADE FENCE AND ACCESORIES SPECIFICATIONS**

**1. Panels: 1.8 x 3m**

**2. Fence bearers:**

- 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

**3. Palings “Devil fork”**

- 21 palings per panel
- 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.

**4. Posts:**

- 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 to engineer's design

**5. Palisade Gates**

**5.1. Sliding Gate:**

- 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.

5.2. **Pedestrian gate:**

- 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

**6. Painting**

- 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. The colour of the Gloss enamel paint shall be Traffic Green unless directed otherwise by the Limpopo Department of Education (not school)
- No brush painting

### **3. FURNITURE SCHEDULE**

<b>Guard House - Furniture</b>	
<b>Qty</b>	<b>Description</b>
1	Lockable locker
1	1000 x 450 table
1	Upholstered Chair - Rickstacker type
<b>Medium Administration block Furniture</b>	
<b>Qty</b>	<b>Description</b>
	<b>Principals Office – Executive type furniture</b>
1	1x Office desk fitted with 3 drawers (1500 x 850 x 750 H)
1	1x Credenza (900 x 450 x 750 H) sliding doors + 90degree corner link
1	1x Chair (high back swivel and tilt chair to match)
2	2x Visitors Chairs (low back chair to match)
1	1 x Wooden filling cabinet (+/- 480 W x 550 D x 1350 H)
1	1x Wooden hinged double door cupboard with shelves (+/- 900 W x 450 D x 1500 H)
	<b>Department Head</b>
1	1x Office desk fitted with 3 drawers (1500 x 850 x 750 H)
1	1x Credenza (900 x 450 x 750 H) sliding doors + 90degree corner link
1	1x Chair (medium back swivel and tilt chair to match)
2	2x Visitors chairs (low back chair to match)
1	1 x Wooden filling cabinet (+/- 480 W x 550 D x 1350 H)
1	1x Wooden hinged double door cupboard with shelves (+/- 900 W x 450 D x 1500 H)
	<b>HOD's Office 1</b>
1	1x Office desk fitted with 3 drawers (1500 x 850 x 750 H)
1	1x Credenza (900 x 450 x 750 H) sliding doors + 90degree corner link
1	1x Hexagonal meeting table (6 seater to match office desk)
1	1x Chair (medium back swivel and tilt chair to match)
6	6x Visitors chairs (low back chair to match)
2	2x Wooden filling cabinet (+/- 480 W x 550 D x 1350 H)
	2x Wooden hinged double door cupboard with shelves (+/- 900 W x 450 D x 1500 H)
	<b>HOD's Office 2</b>
2	2x Office desk fitted with 3 drawers (1500 x 850 x 750 H)
2	2x Credenza (900 x 450 x 750 H) sliding doors + 90degree corner link
2	2x Chair (medium back swivel and tilt chair to match)
4	4x Visitors chairs (low back chair to match)
2	2x Wooden filling cabinet (+/- 480 W x 550 D x 1350 H)

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**

<b>Counselling Room</b>	
1	1x Office desk fitted with 3 drawers (1500 x 850 x 750 H)
1	1x Credenza (900 x 450 x 750 H) sliding doors + 90degree corner link
1	1x Chair (medium back swivel and tilt chair to match)
2	2x Visitors chairs (low back chair to match)
<b>Print Room</b>	
1	1 x Desk/worktop (steel frame with 25mm laminated saligna top) with drawers, 1500 x 850 x 750 High
1	1x Wooden hinged double door cupboard with shelves (+/- 900 W x 450 D x 1500 H)
<b>Administration Office</b>	
2	2x Office desk fitted with 3 drawers (1500 x 850 x 750 H)
2	2x Chair (medium back swivel and tilt chair to match)
2	2x Wooden filling cabinet (+/- 480 W x 550 D x 1350 H)
<b>Waiting Area</b>	
1	Slatted bench, 450mm wide x 2800mm long, floor mounted
<b>Reception</b>	
2	2x Chair (medium back swivel and tilt chair to match)
2	2x Wooden hinged double door cupboard with shelves (+/- 900 W x 450 D x 1500 H)
<b>Staff Room</b>	
6	6 x Meeting tables (1500 x <b>750</b> x 750mm H) easily movable
25	25x Upholstered staking chairs (low back chair to match) contract fabric
<b>Sickroom (x2)</b>	
2	1x Visitors chairs (low back chair to match)
2	Beds - Single - hospital non fold type with bedding, sheets, blankets and pillows
2	Medicine floor standing cabinets - Timber
<b>Note</b>	Catalogue identifying the above mentioned goods is available from Montana Industries for reference purposes only. Goods are available from various suppliers. PSP and Contractor are responsible for identifying relevant Service Providers.
<b>GRADE R CLASSROOM FURNITURE - Units per classroom</b>	
Qty	Description
10	4 piece open front cubicles in either assorted colours or varnished saligna. Colours subject to availability of the units must match Jolly Furniture .
10	10 Jolly tables in various colour sets available from Rand Plastics
40	40 Jolly Chairs in sets of 8 to match jolly tables.
2	Storage Cabinets - Standard Steel Shelvng

<b>SIGNAGE</b>	
1	Indicative of GRADE R Classroom Identification eg (GRADE R - Room A) to be fixed above door lintels
<b>OUTDOOR EQUIPMENT TO BE INSTALLED IN ENCLOSED PLAY YARD</b>	
1	Easy assembly plastic or metal slide, free standing with wide base for stability. Safety grip handles with no sharp or protruding edges. Easy to clean
1	Easy assembly see - saw or combo gym set with multiple activity play equipment. Wide base, sculptured seating, no sharp or protruding edges. Easy to clean
1	Jungle Gym World Type - Super Jumbo Gym or similar. Rigid Construction
2	2.4m x 2.4m "Just for Kids" or similar type Sand lot with durable cover - Easy assembly and installation in quadrant units.
<b>GRADE R TOY PACKAGE</b>	
5	Early Learning Games - Developmental
40	Various Short Story books
2	Sort & stack thread
2	Block sets & Containers
2	Posting Boxes
2	Giant Ludos
2	Giant Snake & Ladders
2	Memory games
2	Match of colours games
2	Giant Pegboards
2	Dominoes, Wooden animals, dots and shapes
5	Big Dice - Assorted sets
5	Packet of Marbles
10	25mm coloured beads - 50 per packet
3	Rakes and spades
5	Brm Brm wheelers
5	Trowel
5	mini buckets
2	Water trough and stands
5	Beach moulds
10	Assorted visual charts and Teaching Aids
5	Bendy bells
5	Guitars
5	Tambourines
5	Maracas
5	Hand drums
5	Caster nets
20	Bean bags
20	Hoola hoops
20	skipping ropes

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**

5	Soccer balls
4	Carpets - assorted colours for story time 2.5m x 2.5m
1	Play stoves
2	Play Cots
3	Play irons with stand
2	Play hammers and hammer benches
5	Step & catch boards
5	Anatomical dolls
2	Traffic carprt road safety signs
10	Small cars
10	Medium Cars
10	Big cars
2	large play tea sets
40	Wild / farm animals - assorted
5	Play Doctor's sets
5	Aprons
30	Jumbo Khokis
8	5kg Dough sets
5	Play sieves
10	Glue Spreaders
2	Wooden Rolling pins
5	Painting Easels
5	Coloured chalk sets
5	Sets of non spill paint pots
5	Dough cutters
40	No 18 brushes
10	2kg Powder paint
2	5l Glue
5	Leech powder glue
40	C9 crayons
20	Pre- school scissors
2	Teachers scissors
20	Prestik sets
40	Abacus for learners
1	Teachers demonstration abacus
1	Doll houses
10	Teddy bears
1	Combination TV & DVD
Not e	Catalogue identifying the above mentioned items is available from Sebenzani Trading. Goods are available from various Suppliers to be identified by PSP and Contractor.

<b>Classroom Furniture - Primary School - Units per classroom</b>	
<b>Qty</b>	<b>Description</b>
20	double combination primary school desks in saligna
1	teachers desks
1	teachers chairs
2	Steel storage cabinets with adjustable shelving - standard
<b>Classroom Furniture - Secondary School - Units per classroom</b>	
<b>Qty</b>	<b>Description</b>
35	Single combination secondary school desks in saligna
1	teachers desks
1	teachers chairs
2	Steel storage cabinets with adjustable shelving - standard
<b>ADMINISTRATION BLOCK COMPUTER EQUIPMENT</b>	
<b>Qty</b>	<b>Description</b>
6	Intel Tunnel Mountain Core i7 ATX M/B
6	MECER Micro ATX tower+300wPSU ATX2 W/front and USB
6	4GBDDR3-1333
6	Microsoft Optical wheel Mouse and USB Key board bundle
6	DVD +RW/DVD-Ram Super Multi Drive
6	Windows7 Starter 32 bit (MS School grant Software)
6	802.11b/g/n Internal Wireless card
6	19" 4x3 TFT LCD Wide Monitor
6	500Gb 7200rpm 16MB Cache HDD
6	Flatbed colour laser printer/scanner /copier
1	Wireless Access point
6	Apc Back up
1	Flatbed colour laser Multifunction centre
Note	Speciflicated items above are for reference purposes only. PSP and Contractor must source the relevant items from Suppliers and must ensure that the capacity and functions indicated per item must be available in the sourced items. PSP must ensure that goods are of a reputable quality (Approved by CETA) and market related pricing prior to issuing instruction to Contractor to proceed with procurement and Installation
<b>SIGNAGE</b>	
<b>Qty</b>	<b>Description</b>
	Indicative of GRADE R Classroom Identification eg (GRADE R - Room A) to be fixed above door lintels
	"DO NOT DRINK WATER" Rain water harvesting tanks signs, in different languages - Similar to EVN Africa sample 290 x 290 on Abs - fixed to each tank on site.
Notes	Quantities depend on the number of Classrooms and other spaces at the respective schools. Samples of Rain Water Harvesting stickers are available from PMU

<b>Computer Laboratory Equipment - Option 1</b>	
<b>QTY</b>	<b>DESCRIPTION</b>
40	Sahara student workstations - intel core 2 duo 2.0ghz/320gb/2048mb ram / dvd rom, cd-rw combo drive 52 x 32 x 52/ 17" LCD Monitor. MS base operating system upgrade as per schools agreement software. MS Office 2003 as per schools agreement software / including multitude of Education Based Learning Content (free)
1	Sahara teachers' workstation - intel core 2 duo 2.6ghz/500gb/4gb ram / dvd-rw drive 20X/ 17" LCD Monitor. MS base operating system upgrade as per schools agreement software. MS Office 2003 as per schools agreement software.
41	Sahara 600VA UPS
2	Lexmark Network Printer - wireless network
1	Digilife Projector
1	Universal Mounting Brackets
1	Matt White Manual Pull down screen 4:3 ratio 1800 x 1350 max size
1	12U Network Cabinet including switch and panel)
41	Sahara security brackets
41	Monitor cable locks
43	Network points installed incl printers
1	Warranty for PC's
1	Warranty for printers
1	Warranty for projectors
1	Online telephone support - toll free access for Management
1	Labour including delivery, installation, networking and management
1	Training of 2 x personnel - Optional
<p>Service Provider is not obligated to utilize the product name (manufacturer) The indication is strictly for identification and reference purposes. The Client requires that the specifications with regard to capacity and features of the products to be supplied are approved by CETA. The Supplier of this item must be registered on the LDOE Supplier Database as a approved supplier of the IT items.</p>	
<b>Computer Laboratory Specification - Option 2</b>	
<b>Qty</b>	<b>Description</b>
41	Intel Warm River Core 2 Quad Micro ATX M/B
41	MECER Micro ATX tower+250wPSU ATX2 W/front and USB
40	2GB DDR 3 1333
1	4GB DDR 3 1333
41	Microsoft Optical wheel Mouse and USB Key board bundle
1	Mecer 2.1 Channel amplified Speaker 800w
40	DVD +RW/DVD-Ram Super Multi Drive
1	DVD +RW/DVD-Ram Super Multi Drive light scribe
41	Windows7 Starter 32 bit (MS School grant Software)
42	802.11b/g/n Internal Wireless card
2	Apc Back up

40	17" 4x3 TFT LCD Wide Monitor
1	19" 4x3 TFT LCD Wide Monitor
40	250Gb 7200rpm 16MB Cache HDD
2	500Gb 7200rpm 16MB Cache HDD
1	Wireless Access point
1	Ceilling mounted projector
1	Wireless Mouse Presenter
1	Screen wall/Ceiling mounted 2030x1520
1	78" Interactive White Board + equipment
4	A4 27ppm duplex printer
<b>Multi-Purpose Hall</b>	
<b>Qty</b>	<b>Description</b>
600	Stackable Utility Chairs (orange) - 445 W x 380 D x 750 H
<b>Tuck Shop</b>	
<b>Qty</b>	<b>Description</b>
1	Gas height adjustable draughtsman / typist type Chair on swivel nylon base castor, with backrack mechanism, steel backboast inclusive of height adjustable bolt upholsters in burgandy with no arms.
1	Mimimum 300 L fridge and freezer Combo - Supplier should size to fit
	White Melamine store shelving to fit.
<b>Kitchen/Nutrition Block?</b>	
<b>Qty</b>	<b>Description</b>
1	Mimimum 300 L fridge and freezer Combo - Supplier should size to fit
1	40 L Microwave
2	20 L capacity Electrical Water urn
2	Waste bins
<b>Library</b>	
<b>Qty</b>	<b>Description</b>
12	12x Reading Tables 1200 L x 750 W x 750 H
42	42x Chairs to match
1	Image Range Typed (Similar to those Manufactured by Montana Industries) - High Back leather Chair - Plush leather finish
1*	1x Teachers Desk with 2 drawers (1500 W x 850 D x 750 H)
1*	1x Low Back, Upholstered Teachers Chairs to match Table
2*	2x Credenza with sliding doors (min 900 W x 450 D x 750 H)
Where the old Design is utilized and Offices for the Librarian are provided then the credenzas should be provided.	
	Printing facilities Scanning facilities Computer for managing library book stock, loans, etc... Scanner for book barcodes Software
<b>LABORATORIES</b>	

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**

Note	EQUIPMENT IS AVAILABLE IN VARIOUS PACKAGES - PREVIOUSLY THE DPEARTMENT HAS MOST PROJECTS HAVE SOURCED THESE GOODS FROM RUTLAND INDUSTRIES OR ITOKISENG BUSINESS ENTERPRISES / MINI SCIENCE PACKS ARE ALSO AVAILABLE FROM GUNDA RESELLERS- PSP AND CONTRACT MAY SOURCE FROM OTHER ALTERNATIVE SUPPLIERS OF THE GOODS
<b>PRIMARY SCHOOL GENERAL SCIENCE LABORATORY EQUIPMENT</b>	
QTY	DESCRIPTION
1	Orbiter Illuminated
2	Orbiter Tellerion Sun/Earth
2	Political World Globe
2	Solar System Simulator
1	Tube del 6 x 6mm + 450mm Tube
1	Vaseline 50g
2	Vial Plastic with Pins x 50 in Pack
2	Plastic Windmill on a Stick
2	200mm Wire Cabtyre Flex 3-Core
4	200mm Black Strip Stranded Wires
4	200mm Red Strip Stranded Wires
1	Wooden Cubes 10mc - Pkt of 20
2	Calcium Carbonate Powder 250g
2	100g Magnesium Sulphate
2	500ml 325 Hydrochloric Acid
1	150g Charcoal Lumps
2	250g Manganese Dioxide
2	500ml Hydrogen Peroxide
2	250g Granular Zinc Metal
2	250g Soluble Starch
1	280mm x 200mm Aqaurium Persplex
1	Aquarium Persplex Guaze Cover
2	Dissecting Awl
2	100mm Potting Soils Bags
1	Bird Seed
1	20g Cotton Wool
2	Biology Dissecting Set
1	Drawing Pins in Vial x10
1	100ml Ethyl Acetate
2	Jar of Fish Flake Food
2	100ml 40% Formalin
1	1 Hole Honey Jar with Lid
1	Black Marking Ink
1	Set of 3 Insect Blocks in Cork
2	375ml Glass Jar with Twist-on Lid
1	0.5l Lunch Trough
5	50mm Plastic Hand Magnifying Glass

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**

1	Net for Fish Aquarium
1	Net for Insects
1	280 x 280mm Blotting Paper - Pk of 20
1	No 8 Type Paper Clips in Vial
1	Pkt of 24 Wooden Clothes Pegs
5	90mm Plastic Petri Dish
1	Wooden Plant Press
1	Softwood Stems Rooting Hormone
1	White Plastic K Screen
1	PKT Seed Beans
1	PKT Mielie Seeds
1	PKT Sunflower seeds
2	50g String Ball
2	Windvane Stand
1	2Pan Balance Rocker/beamer
2	1N Balance Spring
2	10N Brown Balance Tube
2	PKT 10 Balloons
2	1-4 Cell Battery Holder Steel
2	1.5V Power Plus Battery Torch
2	400ml Beaker Squat
2	32x32x180mm PSP Block Wooden
2	100ml Bottle Glass Ointment
2	100ml Bromothymol Blue
2	Beaker Brush
2	Brush Test Tube(II)
2	Plastic Burette 25ml
2	70g Calcium Hydroxide
2	In/Out Calipers Bow Steel
2	Candle Household in Pieces
1	PKT5 Cloth Dish Swabs
2	Flannel Cloth
2	10g IN Vial Cobalt Chloride
2	16mm Campass Plotting Dialface
2	35mm Compass Pocket
2	Small-Urban Compound Cylinder
2	24x140mm Copper Strip
1	250g (Cupric) Copper Sulphate
1	1g PKT50 PSP Cubes Plastic 1cm
2	Ring & Disc Apparatus
3	90mm Filter Paper
2	250ml Flask Flat Bottom
2	75mm Polythene Funnel Plastic
2	80x80mm Small Plain Gauze Wire

2	6x140mm Glass Tube
2	6x140mm Glass Tube Capillary
1	3 Metals Heat Conductivity
1	PSP Instruction Manual
1	100g Iron Filings
1	70x35mm PKT 15 Labels Blank
2	Mes Lamp Holder
2	1.5V Lamp Mes
1	6V Lamp Mes
2	1m Long Leads Croc/croc Black
2	1m Long Leads Croc/croc Red
1	Litmus Paper Neutral Box of 10
1	Litmus Paper Blue Box of 10
2	0.5L + Lid Lunch Tin/Trough
2	75x10x7mm Alinico Magnet
2	75x15x10mm Alinico Magnet
2	Filings Demo Jar Magnetic Iron
2	PKT 10 Small Magnetic Oddments
2	Magnetic Oddments Set in vial
2	50mm Magnifier Plastic Hand
2	0.5 Masspiece Newton With Ring
2	1 Masspiece Newton With Ring
2	50g Masspiece Brass
2	100g Masspiece Brass
2	1-20g Masspiece Set Plastic
1	PSP Matches Box
2	400ml Square Measuring Cylinder
2	100ml Measuring Cylinder
5	15ml&L Measurng Tube Plast
2	Wood Metre Rule
2	Small Motor
5	100mm Nails Iron
2	K Needles Wire for Magnetising
2	3ml Pipette Dropper Plastic
2	10ml Grad Pipette Plastic
2	Electrical Household Plug-3pin
2	100g Potassium Permanganate
2	Prestik 10g In Plastic Vial
2	No Spike K Rain Gauge V-100mm
5	5x150mm Rod Brass
2	100x6mm Rod Carbon
1	40 PKT Rubber Band for Urban
2	11 Hole (6mm) Rubber Stop
2	21 1H (5mm nole) Rubber Stop

2	29 1Hole Rubber Stop
2	300mm Ruler Plastic
2	75mm Screw Driver Flat
2	50ml - Kits Silver Nitrate SOL
2	100g Sodium Chloride
2	100g - KIT Sodium Hyd Carbonate
2	Simple Metal LID Spirit Burner
2	Spirit Burner Wick
1	60x110x30mm Sponge
2	PKT 10 Plastic Spoon
2	Extension Spring W/Hook PK10
1	Burette Stand Metal Plate
5	6H Steel 16mm Stand Test Tube
2	Turbine Tin Steam Engine
2	Steel bent Strip With Tin
2	25g Steel Wool
1	PKT 20 Straws Drinking
1	50g String Ball
2	100mm For PSP Strip Bimetallic
2	250mm Strip Plastic Negative
2	250mm Strip Plastic Positive
2	Small Negative Strip Plastic
2	Small Positive Strip Plastic
2	Strip Stand Pivot for Strips
5	20ml Syringe Disposable
2	1.5 Metre Tape Dressmakers
2	100g Tartaric Acid
2	16x150 Test Tube Box For 50 BOR
2	24x150 BORO Test Tube
2	Holder Peg Type Test Tube
2	Alcohol Thermomer - 10/110x1
2	Oral Clinical Thermometer
2	2 Cell Torch
2	75mm Plastic Gratnell Tray
2	150mm Plastic Gratnell Tray
2	Translucent Lid Clip-on Tray
2	Mini Tropod Stand
<b>HIGH SCHOOL LABORATORY EQUIPMENT</b>	
<b>QTY</b>	<b>DESCRIPTION</b>
1	Aquarium Gauze Top Cover 600mm
1	Aquarium Gauze 600mmx300x325
2	Aquarium Perspex 280x200mm
1	Awl Dissecting
2	Bags Potting 100mm

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**

2	Bags Potting 150mm
1	Balance Triple Beam Econo
1	Beaker Plastic 100ml
1	Beaker Plastic 150ml
2	Beaker Squat 100ml
2	Beaker Squat 150ml
2	Beaker Squat 400ml
1	Beaker Squat 600ml
1	Beaker Squat 1000ml
1	Bell Jar Knob 180x250
1	Bell Jar Knob 200X300
2	Blood Lancet (One)
2	Board Dissecting 540x360mm
1	Borer Cork Set of 6 Econo
2	Bosshead
1	Bottle Drop 30ml Clear Pipett
1	Bottle Drop 60ml Clear Pipett
1	Brush Beaker
1	Brush Test Tube (II)
1	Cage Earthworm (Wormery)
1	Cage Insect
1	Chart Algae
1	Chart Amoeba
1	Chart Corn
1	Chart Digestive System
1	Chart Ear
1	Chart Earthworm
1	Chart Eye
1	Chart Fern
1	Chart Flowers
1	Chart Germination
1	Chart Heart
1	Chart Rat
1	Chart Roots
1	Chart Tapeworm
1	Chart Vertebrates
1	Clamp Retort 4 Jaw
1	Clamp Retort 3 Prongs
1	Clinostat Electric 4 Rph
1	Corks Sheets 300x150x6mm
1	Dish Dissecting S/Steel Small
2	Dissecting Set
1	File Triangular 100mm
1	Filter Paper 110mm

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**

2	Flask Erlenmeyer 150ml
2	Flask Erlenmeyer 250ml
2	Flask Erlenmeyer 500ml
2	Flower Pot 80x50x70mm
2	Flower Pot Saucer 100mm
1	Funnel Plastic 75mm Polythene
1	Funnel Tullgren
1	Glass Rod Stirrer 250x9mm
1	Glass Tube 5x100mm
6	Gloves Latex Disposable (Pair)
1	Insect Display Case Wood
2	Insect Mounting Block
2	Jar Glass 250ml Twiston
2	Jar Glass 750ml Twiston
2	Jar Plastic Clear 350ml
2	Magnifier Plastic Hand 50mm
1	Magnifier Nature Wiewer 2-Way
1	Magnifier Pocket Double 10x
2	Measuring Cylinder 10ml
2	Measuring Cylinder 50ml
2	Measuring Cylinder 100ml
1	Measuring Cylinder 250ml
1	Measuring Cylinder 500ml
3	Medicine Dropper Rubber + Teat
2	Micro Slide Viewer (Bioviewer)
1	Micro-Air Pollution & Human
1	Micro-Algae
1	Micro-Animal Mitosis
1	Micro-Animal Tissue-Muscle
1	Micro-Animal Tussue Epith & Cart
1	Micro-Cells Plants & Animals
1	Micro-Chromosomes & Genes
1	Micro-Fern Life Cycle
1	Micro-Flower of Flowering Plan
1	Micro-Human Blood
1	Micro-Kingdom Fungi
1	Micro-Leaf of Flowering Plant
1	Micro-Meiosis
1	Micro-Monocots & Dicots
1	Micro-Moss Life Cycle
1	Micro-Photosynthesis
1	Micro-Root of Flowering Plant
1	Micro-Stem of Flowrign Plant
1	Micro-The Hydra

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**

1	Micro-Virus
1	Microscope Cover Slips 18x18mm
1	Microscope Dissecting MS-2 20x
1	Microscope Pocket Illuminated
1	Microscope S-100GL Lamp + Case
1	Microscope Stereo S-10
1	Model Animal Cell
1	Model Brain Econ
1	Model Dicot Stem Shm
1	Model Dna
1	Model Ear Econ
1	Model Eye 5 x Enlarged
1	Model Heat Econ
1	Model Lungs Demo Jar Inh/Exh
1	Model Monocot Stem
1	Model Skeleton Human B-Grade
1	Model Skin Econ
1	Model Spinal Cord & Nerves Shm
1	Model Torso Large Shm
1	Mortar & Pestle 100mm
1	Net Insect
1	Osmosis Apparatus Simple Small
2	Petri Dish Plastic 90mm
1	Pins Insect pkt of 100
2	Pipette Dropper Plastic 1ml
2	Pipette Dropper Plastic 3ml
1	PIPETTE Grad 1ml
1	Pipette Grad 10ml Zero Bott
1	Pipette Graduated 25ml
1	Plant Press Wooden
1	Potometer ganongs
1	Ring Retort 80x6mm
2	Rubber Stop 11 1 Hole (6mm)
2	Rubber Stop 13 Solid
2	Rubber Stop 21 1 Solid
2	Rubber Stop 21 1 Hole
1	Rubber Stop 21 2 Hole
2	Seedling Trays
1	Slide M/Scope 1-1.2mm Pkt 50
1	Slides Prepared Set/10 Assort
1	Slides Prepared Set/25 Assort
1	Soil Test Kit (Solutions)
1	Spatula Spood End
1	Specimen Display Jar 120x90

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**

1	Speciment Display Jar 180x120
1	Speciment Display Jar 210x120
1	SH=Sphygemomanometer
1	Stand Retort 178x127mm
1	Stand Test Tube 6H 6P Steel 16mm
1	Stethoscope
1	Syringe Disposable 5ml
1	Syringe Disposable 10ml
10	Test Tube 16x150 Boro
1	Test Tube 24x150 Box of 20 Boro
2	Test Tube Holder Peg Type
2	Thermometer Alcohol - 10/110x1
1	Thermometer Clinical Oral
1	Tube Del Glass 5x60x100mm Bent
1	Tube Fermentation
1	Tubing Clear Plast Thin 3mm
1	Tubing Clear Plast Thin 5mm
1	Tubing Dialysis-Viskinb 5mx14
1	Vivarium
1	Wash Botle Plastic 250ml

### Small Administration block Furniture

Qty	Description
<b>Principals Office – Executive type furniture</b>	
1	1x Office desk fitted with 3 drawers (1500 x 850 x 750 H)
1	1x Credenza (900 x 450 x 750 H) sliding doors + 90degree corner link
1	1x Chair (high back swivel and tilt chair to match)
2	2x Visitors Chairs (low back chair to match)
1	1 x Wooden filling cabinet (+/- 480 W x 550 D x 1350 H)
1	1x Wooden hinged double door cupboard with shelves (+/- 900 W x 450 D x 1500 H)
<b>Department Head</b>	
1	1x Office desk fitted with 3 drawers (1500 x 850 x 750 H)
1	1x Credenza (900 x 450 x 750 H) sliding doors + 90degree corner link
1	1x Chair (medium back swivel and tilt chair to match)
2	2x Visitors chairs (low back chair to match)
1	1 x Wooden filling cabinet (+/- 480 W x 550 D x 1350 H)
1	1x Wooden hinged double door cupboard with shelves (+/- 900 W x 450 D x 1500 H)
<b>Administration Office</b>	
2	2x Office desk fitted with 3 drawers (1500 x 850 x 750 H)

2	2x Chair (medium back swivel and tilt chair to match)
2	2x Wooden filling cabinet (+/- 480 W x 550 D x 1350 H)
<b>Waiting Area</b>	
1	Slatted bench, 450mm wide x 2800mm long, floor mounted
<b>Staff Room</b>	
6	6 x Meeting tables (1500 x 750 x 750mm H) easily movable
25	25x Upholstered staking chairs (low back chair to match) contract fabric

<b>ADMINISTRATION BLOCK COMPUTER EQUIPMENT</b>	
<b>Qty</b>	<b>Description</b>
TBC	Intel Tunnel Mountain Core i7 ATX M/B
TBC	MECER Micro ATX tower+300wPSU ATX2 W/front and USB
TBC	4GBDDR3-1333
TBC	Microsoft Optical wheel Mouse and USB Key board bundle
TBC	DVD +RW/DVD-Ram Super Multi Drive
TBC	Windows7 Starter 32 bit (MS School grant Software)
TBC	802.11b/g/n Internal Wireless card
TBC	19" 4x3 TFT LCD Wide Monitor
TBC	500Gb 7200rpm 16MB Cache HDD
TBC	Flatbed colour laser printer/scanner /copier
TBC	Wireless Access point
TBC	Apc Back up
TBC	Flatbed colour laser Multifunction centre
Not e	Specified items above are for reference purposes only. PSP and Contractor must source the relevant items from Suppliers and must ensure that the capacity and functions indicated per item must be available in the sourced items. PSP must ensure that goods are of a reputable quality (Approved by CETA) and market related pricing prior to issuing instruction to Contractor to proceed with procurement and Installation

#### **4. IRONMONGERY SCHEDULE (quantities to be confirmed on site)**

**Refer to attached documents:**

- Limpopo School Rev 0 - Ironmongery Schedule – 4 CLASSROOM AND STORE BLOCK
- Limpopo School Rev 0 - Ironmongery Schedule – 4 CLASSROOM BLOCK
- Limpopo School Rev 0 - Ironmongery Schedule – 5 CLASSROOM BLOCK
- Limpopo School Rev 0 - Ironmongery Schedule - 5 CLASSROOM BLOCK WITH STORE
- Limpopo School Rev 0 - Ironmongery Schedule – ENVIROLOO
- Limpopo School Rev 0 - Ironmongery Schedule - GR R 1 ROOMS
- Limpopo School Rev 0 - Ironmongery Schedule - GR R 2 CLASSROOM
- Limpopo School Rev 0 - Ironmongery Schedule - GR R 3 CLASSROOM
- Limpopo School Rev 0 - Ironmongery Schedule - GUARD HOUSE
- Limpopo School Rev 0 - Ironmongery Schedule - MEDIUM ADMIN
- Limpopo School Rev 0 - Ironmongery Schedule - NUTRITION BLOCK
- Limpopo School Rev 0 - Ironmongery Schedule - MULTIPURPOSE CLASSROOM
- Limpopo School Rev 0 - Ironmongery Schedule - SMALL ADMINISTRATION
- Limpopo School Rev 0 - Ironmongery Schedule - WATERBORNE BATHROOMS

## **5. SANITARYWARE SCHEDULE (quantities to be confirmed on site)**

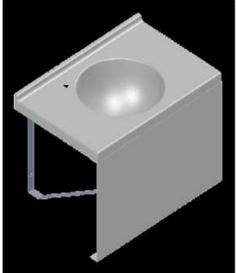
### **Refer to attached documents:**

- WATERBORNE TOILET BLOCK - SANITARY SCHEDULE
- GUARD HOUSE – SANITARY SCHEDULE
- MEDIUM ADMIN BLOCK – SANITARY SCHEDULE
- GR R 2 CLASSROOM BLOCK – SANITARY SCHEDULE
- SMALL ADMIN BLOCK – SANITARY SCHEDULE
- NUTRITION BLOCK – SANITARY SCHEDULE
- ENVIRO-LOO BLOCK – SANITARY SCHEDULE
- GR R 1 CLASSROOM BLOCK – SANITARY SCHEDULE
- GR R 3 CLASSROOM BLOCK – SANITARY SCHEDULE
- GR R 4 CLASSROOM BLOCK – SANITARY SCHEDULE
-

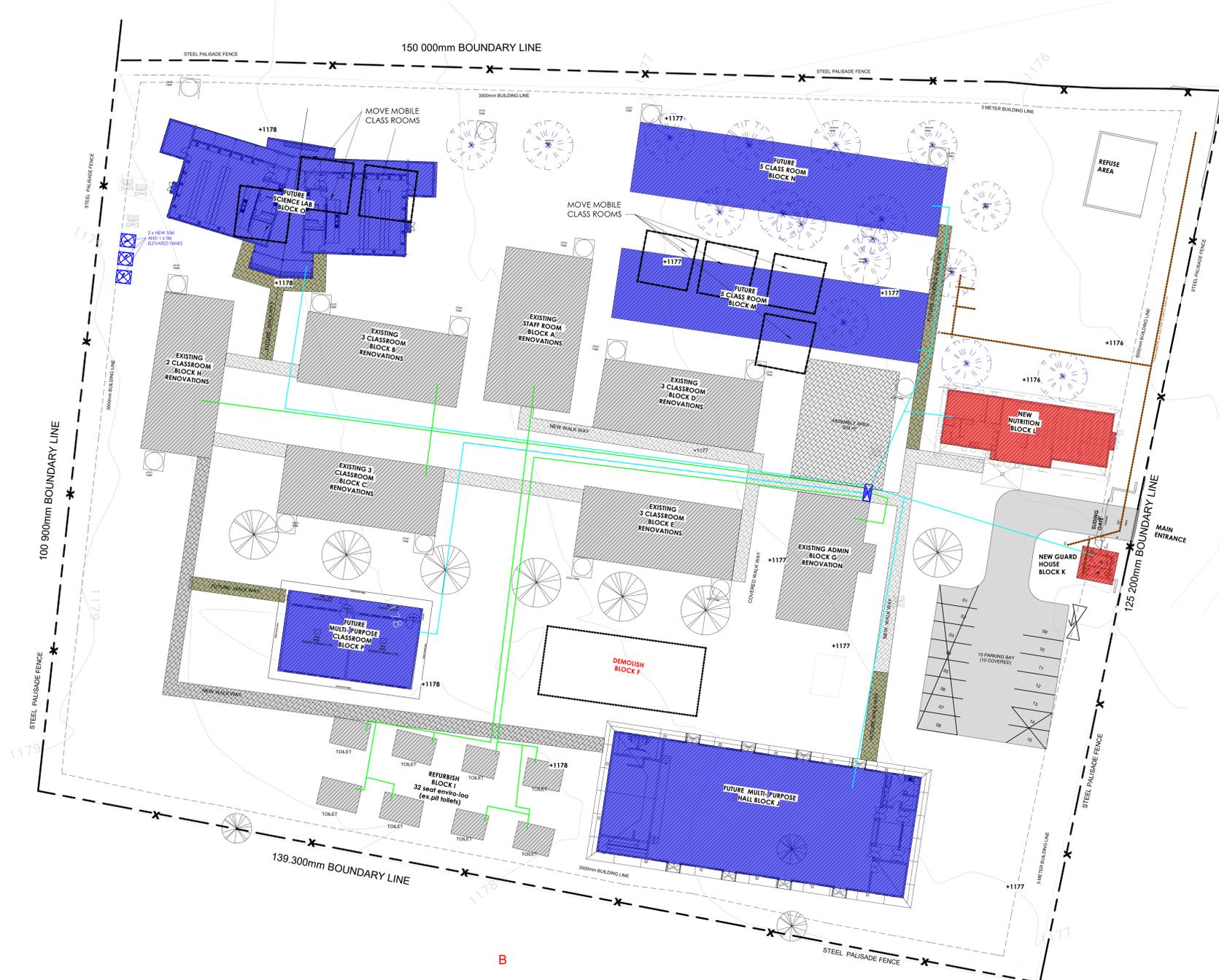


SMALL ADMIN BLOCK		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
	SCO-800-SE	Kwikot SCO-800-SE Sit On Sink	1	
	SCO-800-SE	Kwikot SCO-800-SE Sit On Sink	1	
	S0013674	EVOX KELIA Sink Mixer Chrome	1	
	S0012304	EVOX Angle valve	4	
	S0015157	EVOX SKYE Close Coupled Toilet Round	1	
	ATLBASWHU 0500UE	Atlas 50cm Basin & Semi Pedestal	2	

	S0013672	Evox KELIA Basin Mixer Chrome	2
	PARSETLLBOR AIBE	Atlas (Raised Height) Paraplegic Low-Level Combo: Toilet and 2x Grab Rails	1
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	2
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	2
	C-15/350	Flexible connector, fxf, chrome	2

WATERBORNE TOILETS		SANWARE SCHEDULE		REV00
Picture	Code	Description	Qty	
	S0012393	Neo Deluxe TF Close-Coupled Toilet	4	
	S0016176	LESEDI 600, Acrylic basin	4	
	308/N	Unslotted. With flanged back nut and washer, and plug. 62mm	4	
	30931010	WIRQUIN BOTTLE TRAP NEO 50MM	4	
	C-15/350	Flexible connector, fxf, chrome	4	

	S0013672	Evox KELIA Basin Mixer Chrome	4
	S0012304	EVOX Angle valve	12



LOCALITY MAP

**TABLE 2A: DEMOLITION WORKS**

NO	Building Usage	(sqm)	QUANTITY
01	BLOCK F	210	1
02			
03			
04			
05			
06			
07			

**TABLE 2B: RENOVATION/REFURBISHMENT WORKS**

NO	Building Usage	(sqm)	QUANTITY
01	BLOCK A - Admn block	240	1
02	BLOCK B - 3 classroom block	207	1
03	BLOCK C - 3 classroom block	207	1
04	BLOCK D - 3 classroom block	215	1
05	BLOCK E - 3 classroom block	215	1
06	BLOCK G - Staff block	185	1
07	BLOCK H - 3 classroom block	207	1
08	BLOCK I - 32 SEAT ENVIRO LOO		

**TABLE 2C: NEW WORKS**

NO	Building Usage	(sqm)	QUANTITY
01	NUTRITION CENTRE	185	1
02	GUARD HOUSE	15	1
03	ASSEMBLY AREA	200	1
04	15 PARKING BAYS		15
05	STEEL PALISADE FENCE		
06			
07			

**TABLE 2D: FUTURE PROPOSAL**

NO	Building Usage	(sqm)	QUANTITY
01	MULTIPURPOSE HALL	865	1
02	MULTIPURPOSE CLASSROOM	207	1
03	SCIENCE LAB	250	1
04	COMPUTER LAB	250	1
05	5 CLASSROOM BLOCK	410	2
06			
07			

**TABLE 2D: CLASSROOM SUMMARY**

CLASSROOM BLOCK	QUANTITY
2 CLASSROOM BLOCK	1
3 CLASSROOM BLOCK	4
5 CLASSROOM BLOCK	2

**GENERAL DRAWING NOTES**

- 1) RKMANSHIP TO COMPLY WITH STANDARD SPECIFICATION OF MATERIALS AND METHODS TO BE USED - SABS 0400
- 2) LIGHT SWITCH IN DISABLED TOILET TO BE AT 1200MM ABOVE FFL
- 3) IF STEP OVER 500MM 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) 50MM MINERAL WOOL INSULATION TO BE INSTALLED WHERE THERE ARE CEILING, BUBBLE PLASTIC INSULATION WITH FILL BACKING TO BE INSTALLED WITH WIRE SUPPORTS IN ALL AREAS THAT DO NOT HAVE CEILING
- 7) WEST FACING FACADES TO HAVE STANDARDISED ALUMINIUM LOUVERES FROM BELOW EAVES TO DROP OF 1200MM
- 8) TRUSSES TO BE DESIGNED IN ACCORDANCE WITH SABS 0400 & APPROVED BY PROJECT ENGINEER

**TABLE 01: SUMMARY FOR HUMAN CAPITAL**

**TABLE 1A: Grade Enrolment Figures For:**

GRADES	Number Of Pupils:		
	BOYS	GIRLS	TOTAL
GRADE 8	0	0	0
GRADE 9	0	0	0
GRADE 10	0	0	0
GRADE 11	0	0	0
GRADE 12	0	0	0
	0	0	0
	0	0	0
	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>
TEACHERS	0	0	0

**LEGEND**

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

**ISSUED FOR TENDER**

**SIGNATURE TABLE:**

DISCIPLINE:	SIGNATURE:	DATE:
CLIENT:		
PLAN EXAMINER:		
FIRE CONTROL:		
ENVIRONMENTAL OFFICER:		
ROADS/STORMWATER:		
WATER AND SANITATION:		
ENVIRONMENTAL OFFICER:		

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA  
Department of Public Works

INSTITUTION: MOLESHATLOU SECONDARY SCHOOL  
INSTITUTION DRAW NUMBER: 920219128  
SERVICE: NEW BUILDINGS & ALTERATIONS  
CONTRACT - SECTION: DOCUMENTATION & PROCUREMENT  
DRAWING NUMBER: 04  
PROJECT STAGE: ARCHITECTURAL  
DRAWING DESCRIPTION: SITE DEVELOPMENT PLAN (SDP)

DATE: 2023.06.19  
Y: VAMED  
R: 7912

CONSULTANT: **ruben redy architects**  
RUBEN & REDY ARCHITECTS  
101 RIVERVIEW DRIVE, SANDHURST, 7613  
TEL: +27 21 851 6122  
F: +27 21 851 6122

CONTRACTOR:

DRAWING SYSTEM: A0  
REV: 01  
DATE: 2020\_91-SDP-001  
FILE NAME: 00

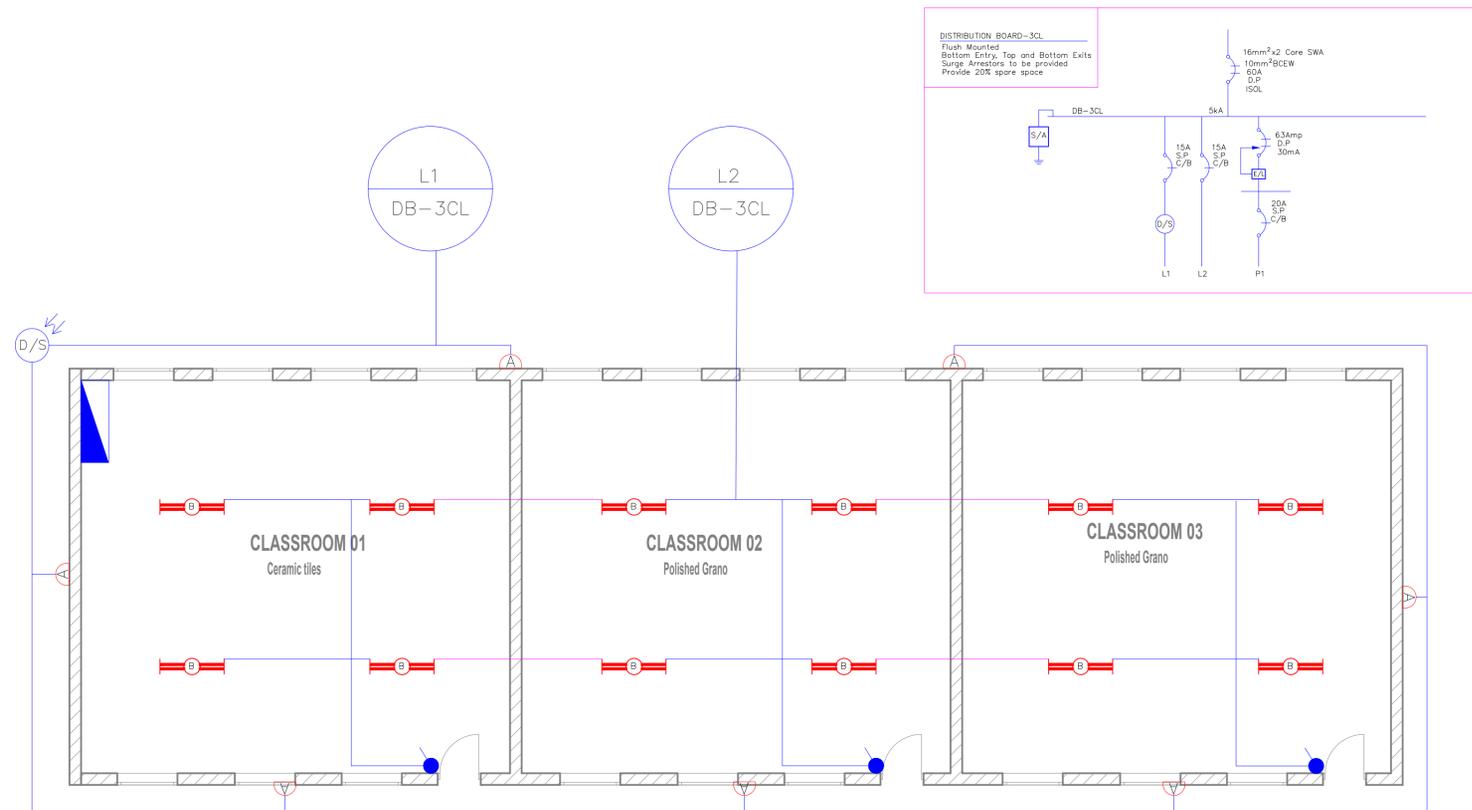
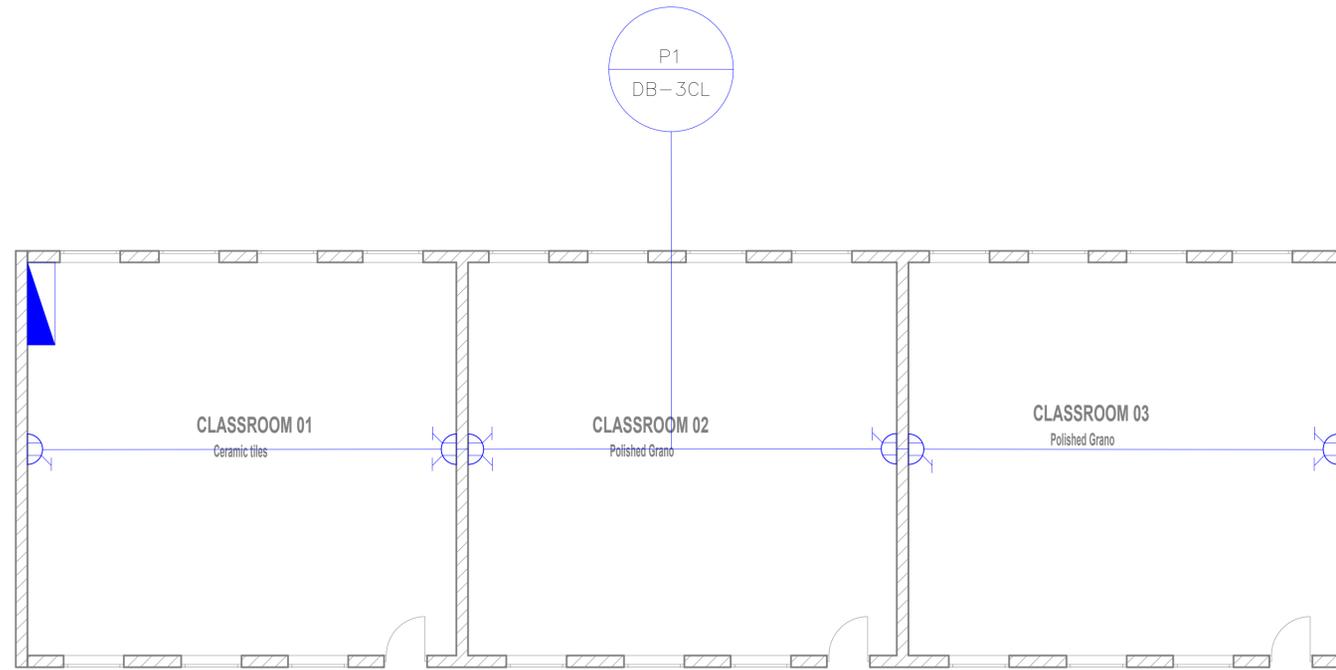
**1** SITE DEVELOPMENT PLAN  
1:250



ISSUED FOR TENDER

**COPYRIGHT**  
 This document and all the information thereon remains the property of Muteo Consulting and may not be copied, reproduced or transmitted in part or in full without the written consent of Muteo Consulting. This document should not be relied on nor used in circumstances other than those for which it was originally prepared and for which Muteo Consulting was commissioned, as defined on this drawing. Refer to the contract for full terms and conditions. Muteo Consulting shall not be liable for the consequences of using this document other than for the purpose for which it was commissioned. Any user and any other person using or relying on the document for such purpose, will by such use or reliance be taken to confirm his agreement to indemnify Muteo Consulting for all loss or damage resulting there from.

- GENERAL NOTES:**
- REFER TO ALL RELEVANT DRAWINGS AND SPECIFICATIONS, DO NOT SCALE ANY DIMENSIONS.
  - WHERE DISCREPANCIES OCCUR BETWEEN THE PROJECT DRAWINGS OR SPECIFICATIONS, THESE SHOULD BE REPORTED IMMEDIATELY TO THE PRINCIPAL AGENT.
  - ALL EQUIPMENTS AND INSTALLATIONS TO COMPLY WITH SANS 10142.
  - INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS2305-1.
  - DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.



**POWER LEGEND**

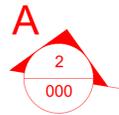
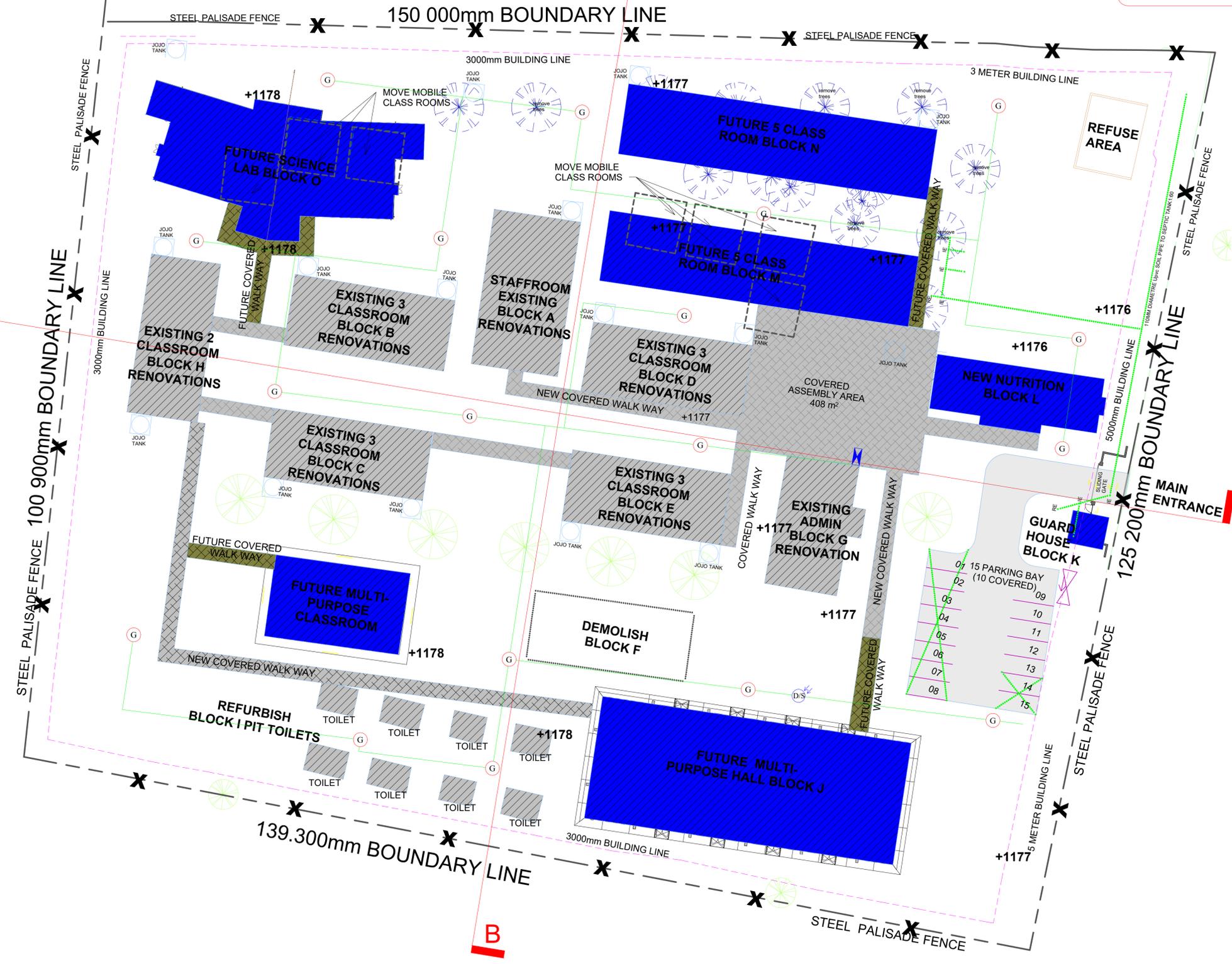
G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
Ⓜ	2x23W 1.2m T5 FLUORESCENT FITTING
Ⓜ	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
Ⓜ	16A SA/EURO SWITCH SOCKET OUTLET
Ⓜ	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
Ⓜ	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
Ⓜ	LIGHTNING PROTECTION
Ⓜ	1 LEVER 1 WAY SWITCH
Ⓜ	2 LEVER 1 WAY SWITCH
Ⓜ	1 LEVER 2 WAY SWITCH
DS	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
Ⓜ	DISTRIBUTION BOARD NORMAL
Ⓜ	KIOSK
Ⓜ	CIRCUIT
Ⓜ	SWITCHING
Ⓜ	LOW VOLTAGE CABLE SWA
Ⓜ	CABLE PVC SLEEVES

				CLIENT	MUTEO CONSULTING	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	SCALE	TITLE
							DESIGNED	21/10/2021	E.KHUMALO		DO NOT SCALE IF IN DOUBT ASK.	MOLESHATLOU SECONDARY SCHOOL THREE CLASSROOM BLOCK LIGHTS AND PLUGS LAYOUT
							CHECKED	21/10/2021	V.FUNGHEHLE			
							DRAWN	21/10/2021	E.KHUMALO			
							PROJECT MNG.	-	-			
							APPROVED	-	-			
REV	DATE	CHK	APP	DESCRIPTION			PROJECT No.	DRG SIZE	DRAWING No.			
1								A1	MC/LDPWRI/EE/002			

ISSUED FOR COORDINATION

**COPYRIGHT**  
 This document and all the information herein remains the property of Muteo Consulting and may not be copied, reproduced or transmitted in part or in full without the written consent of Muteo Consulting. This document should not be relied on for use in circumstances other than those for which it was originally prepared and for which Muteo Consulting was commissioned, as defined on this drawing. Refer to the contract for full terms and conditions.  
 Muteo Consulting shall not be liable for the consequences of using this document other than for the purpose for which it was commissioned. Any user and any other person using or relying on the document for such purpose, will by such use or reliance be taken to confirm his agreement to indemnify Muteo Consulting for all loss or damage resulting there from.

**GENERAL NOTES:**  
 1. REFER TO ALL RELEVANT DRAWINGS AND SPECIFICATIONS, DO NOT SCALE ANY DIMENSIONS.  
 2. WHERE DISCREPANCIES OCCUR BETWEEN THE PROJECT DRAWINGS OR SPECIFICATIONS, THESE SHOULD BE REPORTED IMMEDIATELY TO THE PRINCIPAL AGENT.  
 3. ALL EQUIPMENTS AND INSTALLATIONS TO COMPLY WITH SANS 10142.  
 4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS2003-1.  
 5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.



**POWER LEGEND**

	57W CFL POST TOP FITTING ON 3M POLE FUTURE
	57W CFL POST TOP FITTING ON 3M POLE
	2x18W ROUND CEILING MOUNT BULKHEAD
	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2x23W 1.2m T5 FLUORESCENT FITTING
	2x37W 1.5m T5 FLUORESCENT FITTING
	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
	1 LEVER 2 WAY SWITCH
	DAYLIGHT SWITCH 16A
	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	FUTURE LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION

CLIENT  
  
 LIMPOPO PROVINCIAL GOVERNMENT  
 REPUBLIC OF SOUTH AFRICA  
 Department of Public Works, Roads and Infrastructure

MUTEO CONSULTING

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	14/10/2021	E.KHUMALO	
CHECKED	14/10/2021	V.FUNGHANI	
DRAWN	14/10/2021	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE	TITLE
DO NOT SCALE IF IN DOUBT ASK.	MOLESCHATLOU SECONDARY SCHOOL AREA LIGHTING LAYOUT
PROJECT No. DRG SIZE A1	DRAWING No. MC/LDPWRI/EE/005



### Drawing Register

<b>Author:</b>	Management Representative	<b>Issue Date:</b>	20 January 2016
<b>Approver:</b>	Chief Executive Officer	<b>Revised Date:</b>	20 January 2016
<b>Doc. No:</b>	FM-QMS-23	<b>Issue No:</b>	01

**Project:** MOLESHATLOU SECONDARY SCHOOL

**Date:** 21/02/2022

**Subdivision:** Electrical

### DRAWING REGISTER

Register No 001

Date: 21/02/2022

Issued For:

Tender

Architect Rev No:	DRAWING NO.	TITLE	DRG SIZE	Done By	Date Latest Rev Issued	REVISION NO								
						0	1	2	3					
	MC/LDWRI/EE/001	Administration block lights and plugs layout	A1	E.K	14/08/2021	X								
	MC/LDWRI/EE/002	3 Classroom Block lights and plugs layout	A1	E.K	14/08/2021	X								
	MC/LDWRI/EE/003	Kiosk layout	A1	E.K	14/08/2021	X								
	MC/LDWRI/EE/004	Cable Layout	A1	E.K	14/08/2021	X								
	MC/LDWRI/EE/005	Area layout	A1	E.K	14/08/2021	X								

**Issuer Name: Edwin Khumalo**

**Received by –**

*This document is only valid for the date and the time that it was printed. This document is the property of Muteo Consulting. It is strictly confidential and may on no account be reproduced, copied or divulged without prior authorisation.*

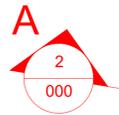
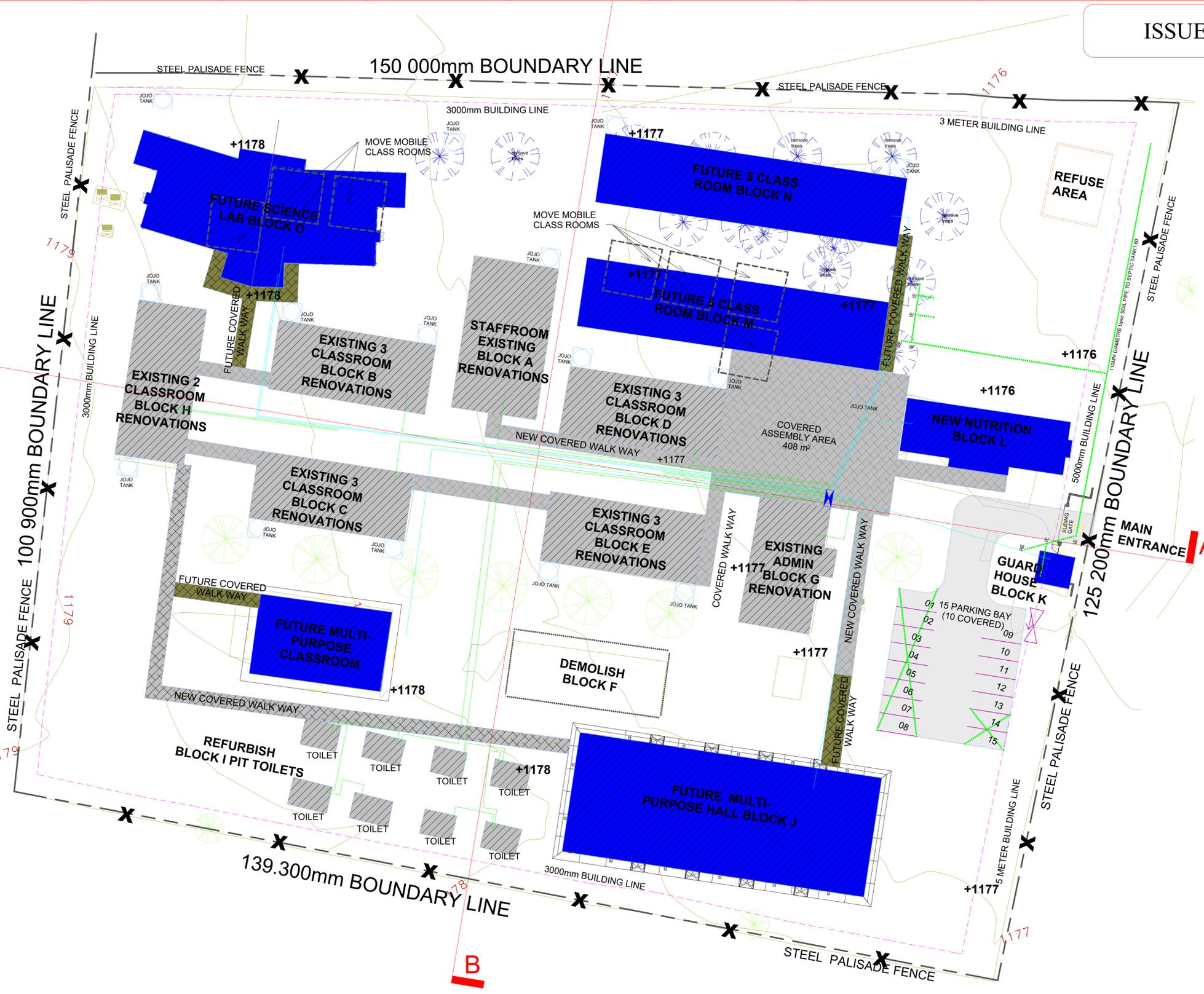
ISSUED FOR COORDINATION

**COPYRIGHT**  
 This document and all the information herein remains the property of Muteo Consulting and may not be copied, reproduced or transmitted in part or in full without the written consent of Muteo Consulting. This document should not be relied on for use in circumstances other than those for which it was originally prepared and for which Muteo Consulting was commissioned, as defined on this drawing. Refer to the contract for full terms and conditions.  
 Muteo Consulting shall not be liable for the consequences of using this document other than for the purpose for which it was commissioned. Any user and any other person using or relying on the document for such purpose, will by such use or reliance be taken to confirm his agreement to indemnify Muteo Consulting for all loss or damage resulting there from.

- GENERAL NOTES:**
- REFER TO ALL RELEVANT DRAWINGS AND SPECIFICATIONS, DO NOT SCALE ANY DIMENSIONS.
  - WHERE DISCREPANCIES OCCUR BETWEEN THE PROJECT DRAWINGS OR SPECIFICATIONS, THESE SHOULD BE REPORTED IMMEDIATELY TO THE PRINCIPAL AGENT.
  - ALL EQUIPMENTS AND INSTALLATIONS TO COMPLY WITH SANS 10142.
  - INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS20035-1.
  - DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

**POWER LEGEND**

	57W CFL POST TOP FITTING ON 3M POLE FUTURE
	57W CFL POST TOP FITTING ON 3M POLE
	2x18W ROUND CEILING MOUNT BULKHEAD
	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2x23W 1.2m T5 FLUORESCENT FITTING
	2x37W 1.5m T5 FLUORESCENT FITTING
	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
	1 LEVER 2 WAY SWITCH
	DAYLIGHT SWITCH 16A
	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	FUTURE LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES



REV	DATE	CHK	APP	DESCRIPTION



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	14/10/2021	E.KHUMALO	
CHECKED	14/10/2021	V.FUNGHANI	
DRAWN	14/10/2021	E.KHUMALO	
PROJECT MNG.	-	-	-
APPROVED	-	-	-
CLIENT	-	-	-

SCALE
DO NOT SCALE IF IN DOUBT ASK.

TITLE
MOLESHATLOU SECONDARY SCHOOL CABLE LAYOUT
PROJECT No. DRG SIZE A1 DRAWING No. MC/LDPWRI/EE/004



**Drawing Register**

<b>Author:</b>	Management Representative	<b>Issue Date:</b>	20 January 2016
<b>Approver:</b>	Chief Executive Officer	<b>Revised Date:</b>	20 January 2016
<b>Doc. No:</b>	FM-QMS-23	<b>Issue No:</b>	2

**Project: Renovations and additions to MOLESHATLOU Primary School**

**Date: 23 June 2023**

<b>DRAWING REGISTER</b>	<b>Register No 001</b>	
	<b>Issued For:</b>	<b>Construction</b>

Item No:	DRAWING NO.	TITLE	DRG SIZE	Done By	Date of Latest Revision	REVISION NO.								
						0	1	2	3	4	5	6	7	
1	LDPWRI SCHOOLS/B/MOLESHATLOU/01	WATER AND SEWER LAYOUT	A1	NM	23-Jun-23	x								
2	LDPWRI SCHOOLS/B/MOLESHATLOU/11	PAVING LAYOUT DRAWING	A1	NM	23-Jun-23	x								
3	LDPWRI SCHOOLS/B/MOKHARI/08	SEPTIC TANK	A1	NM	23-Jun-23	x								
4	LDPWRI SCHOOLS/B&C/01	STEEL PALISADE FENCE	A1	NM	23-Jun-23	x								
5	LDPWRI SCHOOLS/B&C/02	BOREHOLE SPECIFICATIONS	A1	NM	23-Jun-23	x								
6	LDPWRI SCHOOLS/B&C/03	PVC TANK AND STEEL TANK	A1	NM	23-Jun-23	x								
7	LDPWRI SCHOOLS/NUTRISION/2	NUTRISION BLOCK FLOOR JOINTS	A1	NM	23-Jun-23	x								
8	LDPWRI SCHOOLS/RAFTNUTRISION/03	NUTRISION BLOCK FOUNDATION LAYOUT AND DETAILS	A1	NM	23-Jun-23	x								
9	LDPWRI SCHOOLS/GUARDHOUSERAFT/01	GUARDHOUSE FOUNDATION LAYOUT AND DETAILS	A1	NM	23-Jun-23	x								
10	LDPWRI SCHOOLS/GUARDHOUSERAFT/02	GUARDHOUSE BLOCK FLOOR JOINTS	A1	NM	23-Jun-23	x								
11	LDPWRI SCHOOLS/CMOLESHATLOU/03	3 X CLASSROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
12	LDPWRI SCHOOLS/CMOLESHATLOU/04	3 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
13	LDPWRI SCHOOLS/C/MOLESHATLOU/01	2 X CLASSROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
14	LDPWRI SCHOOLS/B/MOLESHATLOU /02	2 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
15	LDPWRI SCHOOLS/C/MOLESHATLOU/08	SMALL ADMIN BLOCK RENOVATION FLOOR JOINTS & DETAILS	A1	NM	23-Jun-23	x								
16	LDPWRI SCHOOLS/C/MOLESHATLOU/07	SMALL ADMIN BLOCK RENOVATION FOUNDATION LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
17	LDPWRI SCHOOLS/C/MOLESHATLOU/06	STAFF ROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
18	LDPWRI SCHOOLS/C/MOLESHATLOU/05	STAFF ROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								

Issued by: NICHOLAS MASHEGO

Received by: \_\_\_\_\_

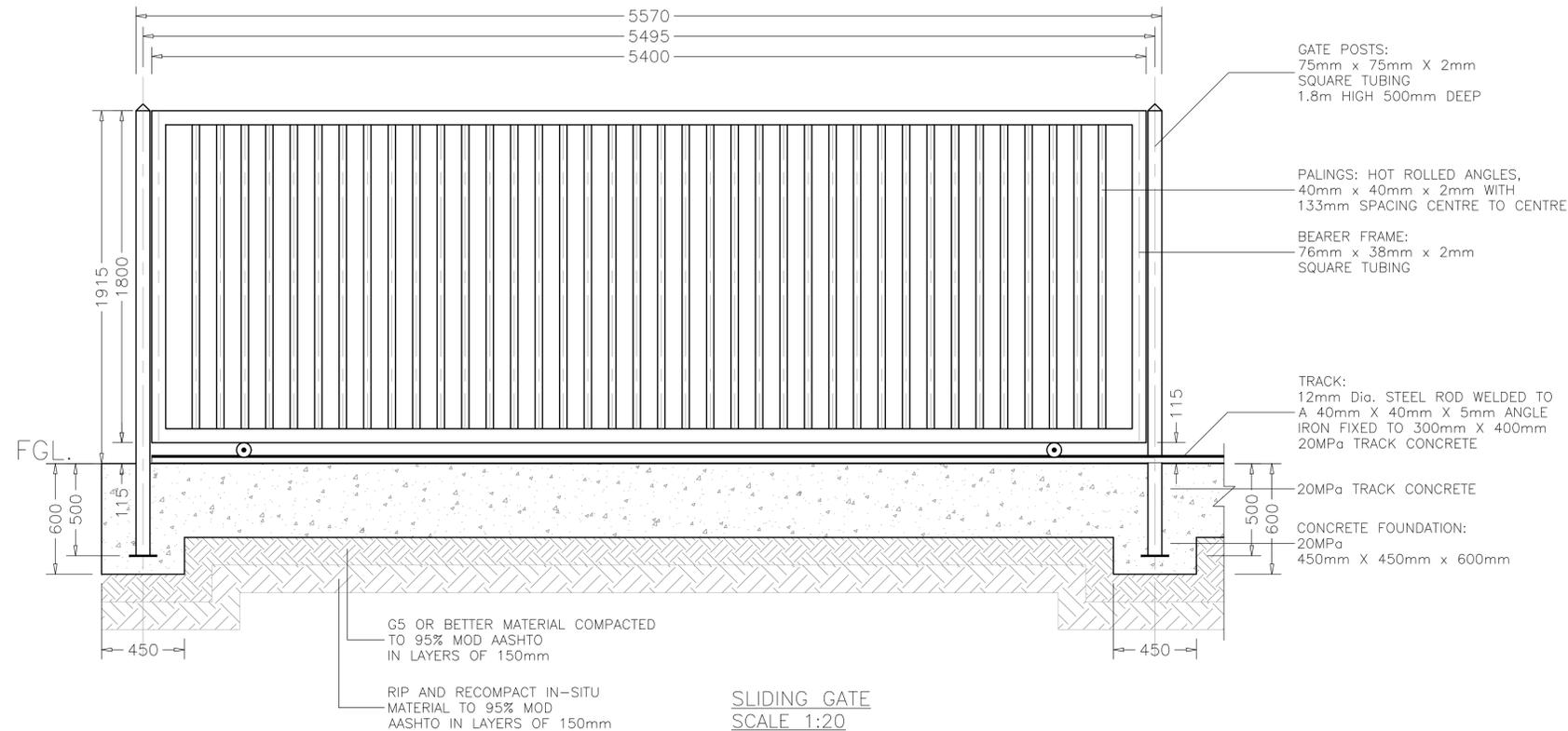
Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: 2023/06/23

Date: \_\_\_\_\_

ISSUED FOR TENDER



NOTES.

1. Panels: 1.8 x 3m

- Fence bearers:
  - 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.
- Palings "Devil fork"
  - 21 palings per panel.
  - 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.
- Posts:
  - 76 x 76 x 2 mm steel square tubing with closing pyramid caps on top.
  - Post must 2.4m high and 600mm will be planted into concrete footing.

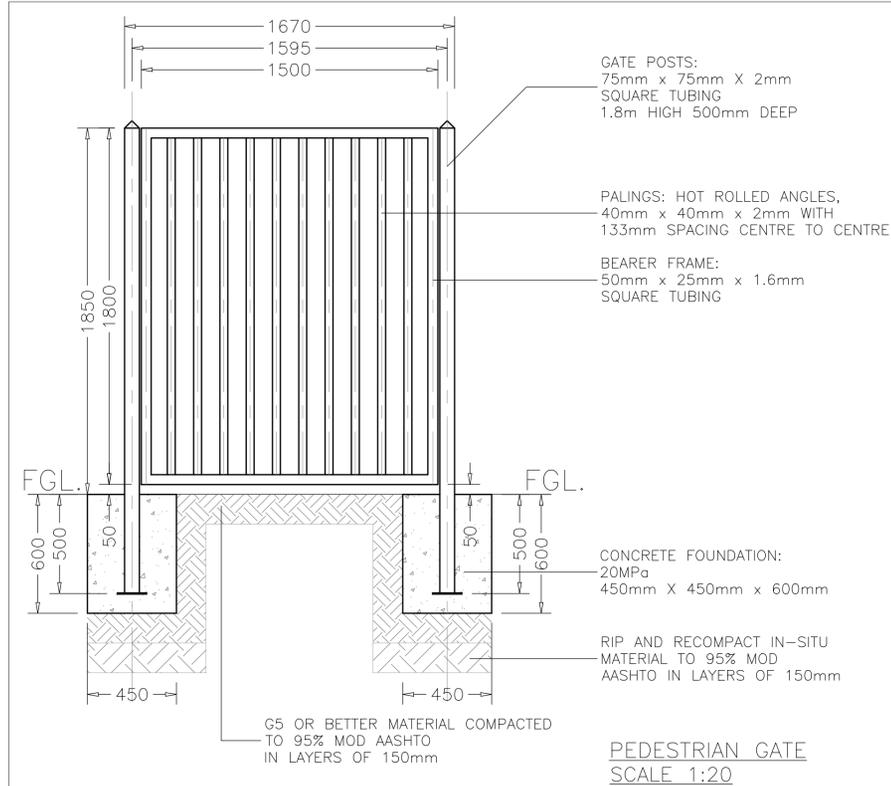
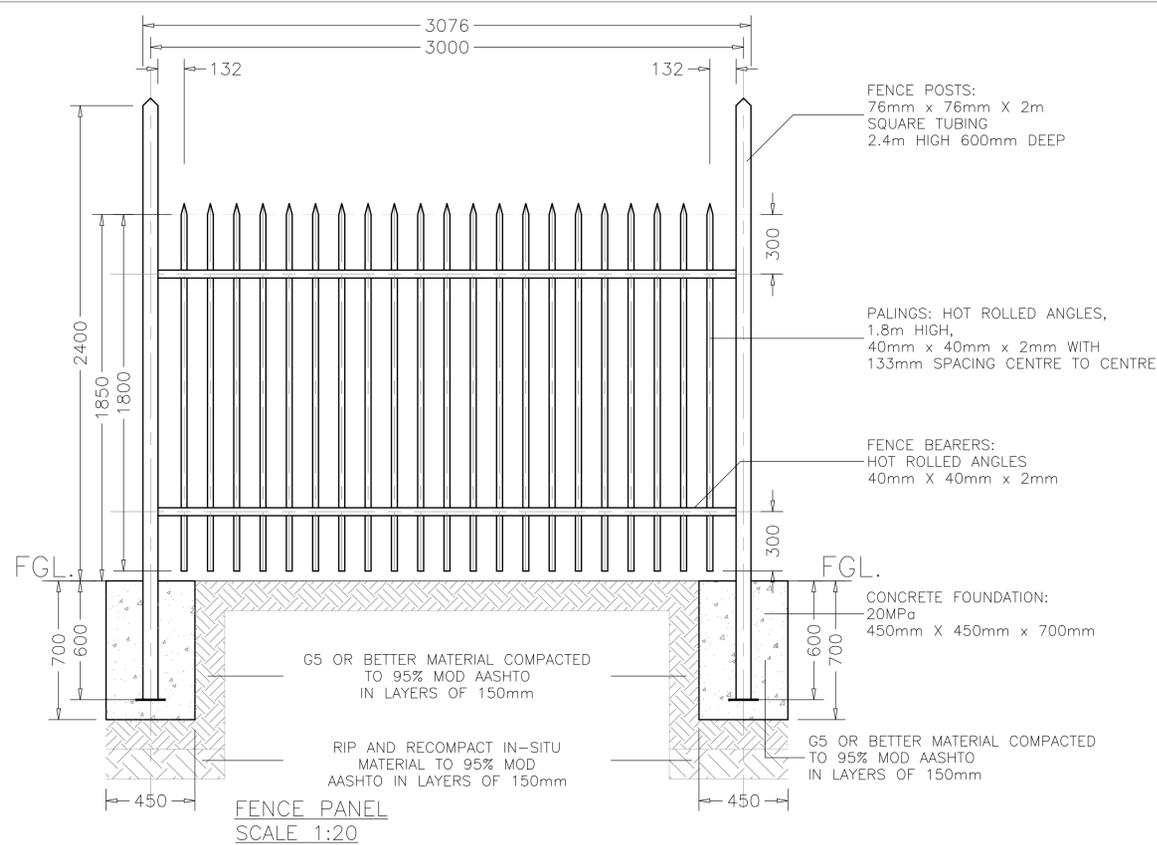
Palisade Gates

- Sliding Gate:
  - 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.

- Pedestrian gate:
  - 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.

Painting

- 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.



				CLIENT	MUTEO CONSULTING	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	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE
							DESIGNED	02 July 2021	V.M		DO NOT SCALE IF IN DOUBT ASK.	TITLE
							CHECKED	02 July 2021	E.M			PROJECT No.
							DRAWN	02 July 2021	V.M		LDPWRI-PROF/16003B	DRAWING No.
							PROJECT MNG.				A1	LDPWRI SCHOOLS/B&C/01
							APPROVED					REV
REV	DATE	CHK	APP	DESCRIPTION			CLIENT					0



**LEGEND:**

-  **NEW BLOCKS - NOTE 2 Jojo tanks on each block**
-  **FUTURE BLOCKS - NOTE 2 Jojo tanks on each block, Phase 2**
-  **EXISTING BUILDING TO REMAIN UNCHANGED**
-  **EXISTING BUILDING TO BE RENOVATED - NOTE 2 Jojo tanks on each block**
-  **EXISTING BUILDING TO BE DEMOLISHED**
-  **NEW COVERED WALKWAYS**
-  **EXISTING WALKWAYS**
-  **FUTURE COVERED WALKWAYS**
-  **EXISTING MOBILE CLASSROOMS**
-  **EXISTING MOBILE CLASSROOMS**
-  **WATER SUPPLY PIPES - HDPE CLASS 6**
-  **SEWER PIPES - PVC CLASS 6**
-  **ELEVATED WATER TANKS**
-  **RAINWATER HARVESTING TANKS**
-  **STANDPIPE**
-  **BOREHOLE**
-  **ISOLATION VALVE**

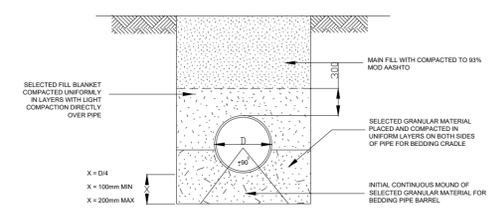


**TABLE 3A: WATER SCOPE**

NO.	Description	Unit	QUANTITY
01	Ø20mm HDPE Pipe	m	60
02	Ø50mm HDPE Pipe	m	30
03	Ø75mm HDPE Pipe	m	20
04	New 5kl PVC Tank on 4.5m Elevated Steel Stand	No.	1
05	New 10kl PVC Tank on 4.5m Elevated Steel Stand	No.	2
06	Refurbish existing taps	No.	6
07	Test and refurbish existing BH	No.	1

**TABLE 3B: SANITATION SCOPE**

NO.	Description	Unit	QUANTITY
01	Ø110mm PVC Pipe to Septic Tank	m	20
02	Septic Tank	No.	1
03			
04			
05			
06			
07			



CONSTRUCTION OF PIPES ON CLASS B BEDDING

REV	DATE	CHK	APP	DESCRIPTION

 DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE	 MUTEO CONSULTING	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. BY: V.M. DESIGNED BY: V.M. CHECKED BY: E.M. DRAWN BY: V.M. PROJECT MNG. APPROVED CLIENT	DATE: 19 Oct 2021 DATE: 19 Oct 2021 DATE: 19 Oct 2021	SIGNATURE:	SCALE: DO NOT SCALE IF IN DOUBT ASK. PROJECT No. LDPWRI-B/20- DRG SIZE: A1	TITLE: <b>RENOVATION AND ADDITIONS TO STORM DAMAGED SCHOOL - CLUSTER B MOLESHTLOU SECONDARY SCHOOL WATER AND SEWER LAYOUT</b> DRAWING No. <b>LDPWRI SCHOOLS/B/MOLESHTLOU/01</b>
--	---	---	---	---	------------	--	--



**Drawing Register**

<b>Author:</b>	Management Representative	<b>Issue Date:</b>	20 January 2016
<b>Approver:</b>	Chief Executive Officer	<b>Revised Date:</b>	20 January 2016
<b>Doc. No:</b>	FM-QMS-23	<b>Issue No:</b>	2

**Project: Renovations and additions to MOLESHATLOU Primary School**

**Date: 23 June 2023**

<b>DRAWING REGISTER</b>	<b>Register No 001</b>
	<b>Issued For: Construction</b>

Item No:	DRAWING NO.	TITLE	DRG SIZE	Done By	Date of Latest Revision	REVISION NO.								
						0	1	2	3	4	5	6	7	
1	LDPWRI SCHOOLS/B/MOLESATLOU/01	WATER AND SEWER LAYOUT	A1	NM	23-Jun-23	x								
2	LDPWRI SCHOOLS/B/MOLESATLOU/11	PAVING LAYOUT DRAWING	A1	NM	23-Jun-23	x								
3	LDPWRI SCHOOLS/B/MOKHARI/08	SEPTIC TANK	A1	NM	23-Jun-23	x								
4	LDPWRI SCHOOLS/B&C/01	STEEL PALISADE FENCE	A1	NM	23-Jun-23	x								
5	LDPWRI SCHOOLS/B&C/02	BOREHOLE SPECIFICATIONS	A1	NM	23-Jun-23	x								
6	LDPWRI SCHOOLS/B&C/03	PVC TANK AND STEEL TANK	A1	NM	23-Jun-23	x								
7	LDPWRI SCHOOLS/NUTRISION/2	NUTRISION BLOCK FLOOR JOINTS	A1	NM	23-Jun-23	x								
8	LDPWRI SCHOOLS/RAFTNUTRISION/03	NUTRISION BLOCK FOUNDATION LAYOUT AND DETAILS	A1	NM	23-Jun-23	x								
9	LDPWRI SCHOOLS/GUARDHOUSERAFT/01	GUARDHOUSE FOUNDATION LAYOUT AND DETAILS	A1	NM	23-Jun-23	x								
10	LDPWRI SCHOOLS/GUARDHOUSERAFT/02	GUARDHOUSE BLOCK FLOOR JOINTS	A1	NM	23-Jun-23	x								
11	LDPWRI SCHOOLS/CMOLESATLOU/03	3 X CLASSROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
12	LDPWRI SCHOOLS/CMOLESATLOU/04	3 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
13	LDPWRI SCHOOLS/C/MOLESATLOU/01	2 X CLASSROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
14	LDPWRI SCHOOLS/B/MOLESATLOU /02	2 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
15	LDPWRI SCHOOLS/C/MOLESATLOU/08	SMALL ADMIN BLOCK RENOVATION FLOOR JOINTS & DETAILS	A1	NM	23-Jun-23	x								
16	LDPWRI SCHOOLS/C/MOLESATLOU/07	SMALL ADMIN BLOCK RENOVATION FOUNDATION LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
17	LDPWRI SCHOOLS/C/MOLESATLOU/06	STAFF ROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
18	LDPWRI SCHOOLS/C/MOLESATLOU/05	STAFF ROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								

Issued by: NICHOLAS MASHEGO

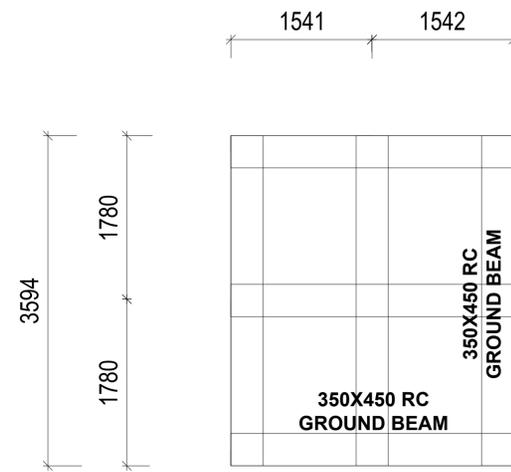
Received by: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: 2023/06/23

Date: \_\_\_\_\_



**FOUNDATION LAYOUT - PLAN**

**CONCRETE NOTES:**

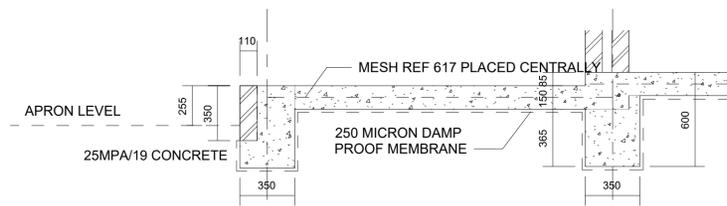
1. ALL CIVIL ENGINEERING WORK TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200
2. CONCRETE TO BE "STRENGTH CONCRETE" AS SPECIFIED BELOW UNLESS OTHERWISE NOTED.  
MASS CONCRETE GRADE 10/19  
BLINDING CONCRETE GRADE 10/19  
STRUCTURAL CONCRETE GRADE 25/19
3. 250 MICRON PVC SHEETING IN ACCORDANCE WITH SABS 952 -1985 TYPE C TO BE PROVIDED UNDER ALL GROUND SLABS.
4. EXPOSED UNFORMED SURFACES TO BE "STEEL FLOAT FINISH" UNLESS OTHERWISE NOTED.
5. THE MINIMUM DESIGN BEARING PRESSURE FOR FOUNDATIONS IS 150MPa UNLESS OTHERWISE NOTED.
6. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF BLINDING AND TO BE KEPT DRY AT ALL TIMES.

**CONSTRUCTION NOTES:**

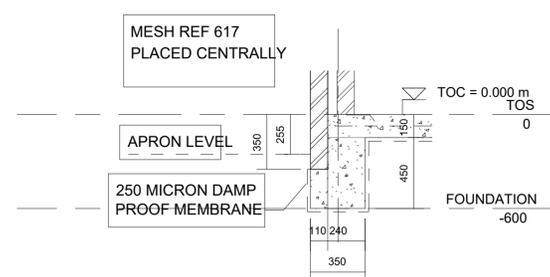
1. CONSTRUCTION PROCEDURE, SEQUENCE AND POSITIONING OF COSTRUCTION JOINTS TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING THE RAFT.
2. CONSTRUCTION JOINT PREPARATION: THE SURFACE OF THE FIRST CAST CONCRETE FORMING A CONSTRUCTION JOINT SHALL HAVE A LAITANCE REMOVED TO EXPOSE THE COARSE AGGREGATE AND A 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 BEING POLISHED. METHOD TO BE 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.

**GEOTECHNICAL CONSIDERATIONS**

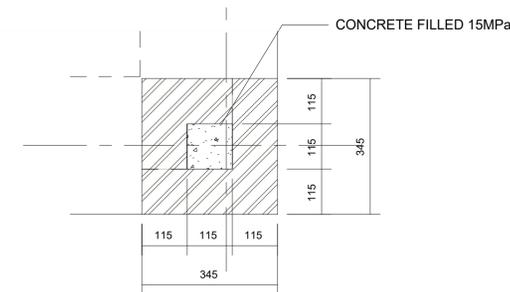
1. COGNISANCE HAS BEEN TAKEN OF THE DOLOMITE CONDITIONS AND THE FOUNDATIONS HAVE BEEN ACCORDING TO THE FOLLOWING;
2. DOLOMITE AREA DESIGNATION - D3
3. SINKHOLE MAXIMUM SIZE - 5M DIAMETER



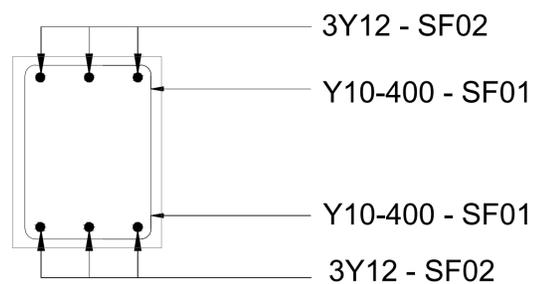
DETAIL A



DETAIL B

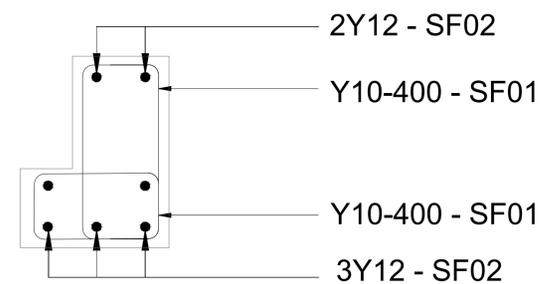


PLAN ON 345x345 PIER (2 No. PLACES)  
DETAIL C



GROUND BEAMS REINFORCEMENT

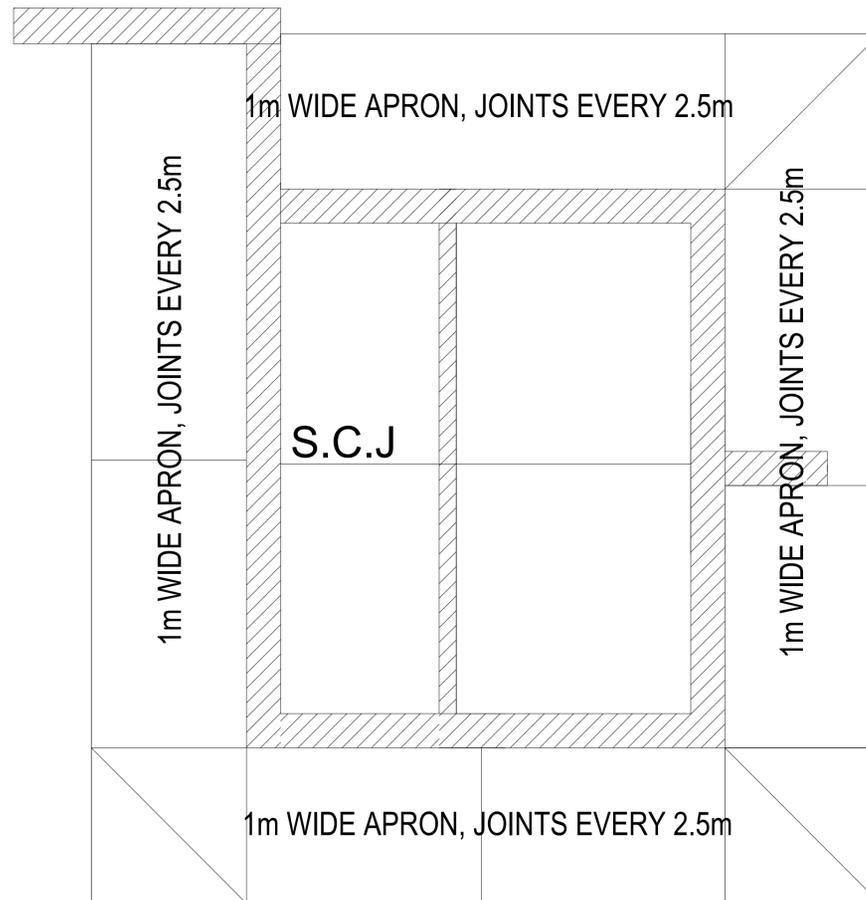
See Bending Schedule for Details



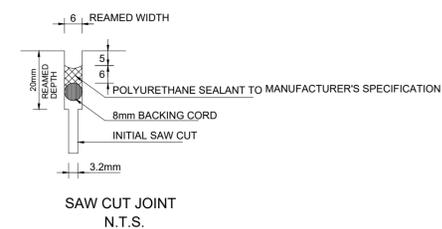
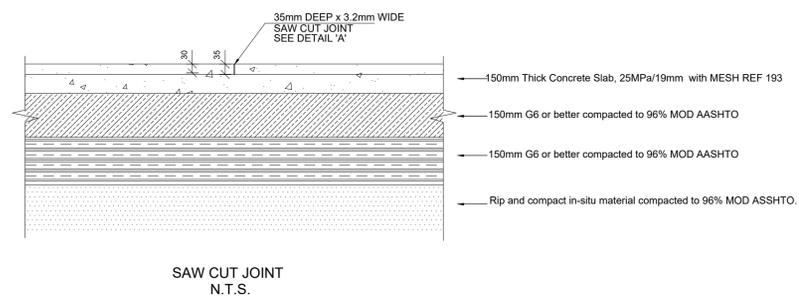
GROUND BEAMS REINFORCEMENT

See Bending Schedule for Details

				CLIENT	MUTEO CONSULTING	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	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
							DESIGNED	02 May 2023	S.D		DO NOT SCALE IF IN DOUBT ASK.	TITLE	
							CHECKED	02 May 2023	E.M			PROJECT No.	<p><b>GUARDHOUSE BLOCK</b> <b>FOUNDATION LAYOUT &amp; DETAILS</b></p>
								DRAWN	02 May 2023	S.D		LDPWRI-PROF/16003B	
								PROJECT MNG.				DRAWING No.	
								APPROVED				DRG SIZE	A1
								CLIENT				GUARDHOUSE/RAFT/001	REV
REV	DATE	CHK	APP	DESCRIPTION									0



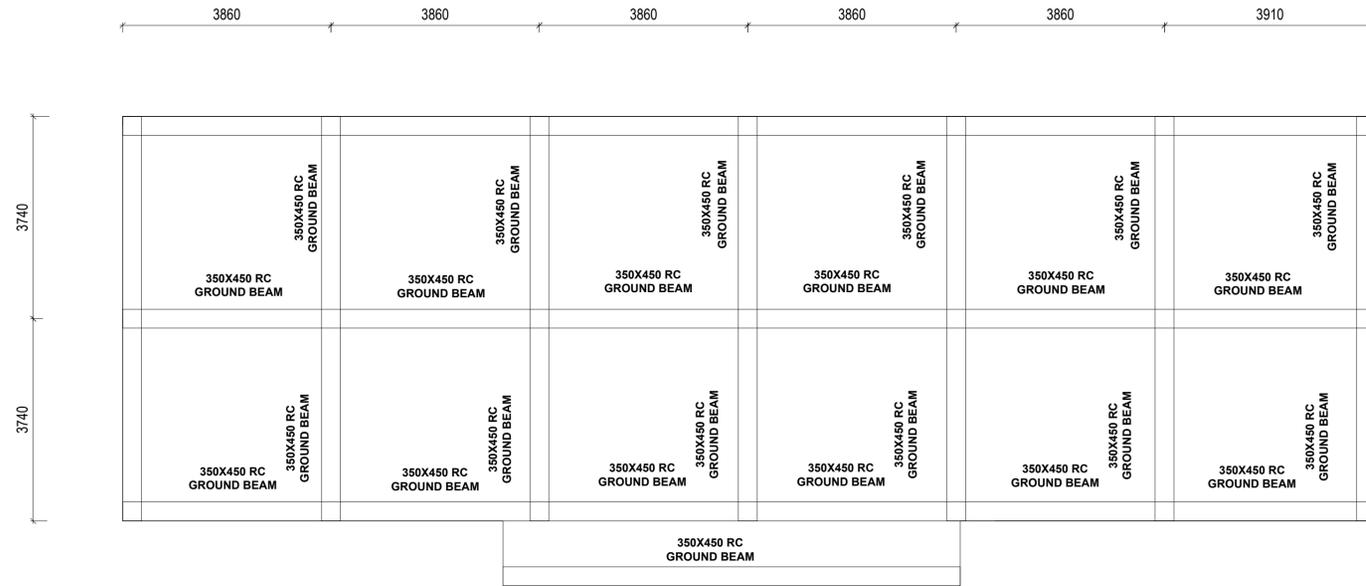
## FLOOR JOINTS



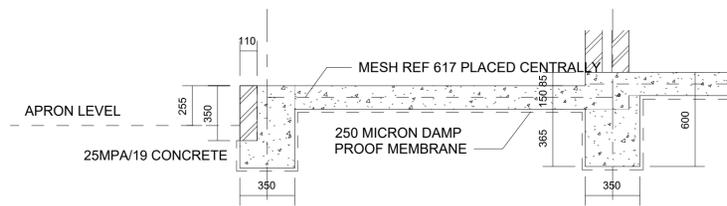
## JOINT DETAILS - SECTIONS

		CLIENT		MUTEO CONSULTING	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	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
		 LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE		 MUTEO CONSULTING		DESIGNED	02 May 2023	S.D		DO NOT SCALE IF IN DOUBT ASK.	TITLE	
						CHECKED	02 May 2023	E.M		PROJECT No.	GUARDHOUSE BLOCK FLOOR JOINTS	
						DRAWN	02 May 2023	S.D		LDPWRI-PROF/16003B		
REV	DATE	CHK	APP	DESCRIPTION		PROJECT MNG.				DRG SIZE	A1	DRAWING No.
						APPROVED						GUARDHOUSE/RAFT/002 REV 0
						CLIENT						

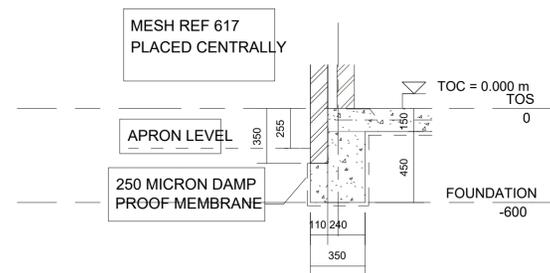




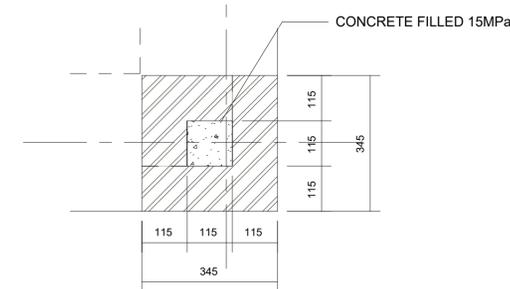
FLOOR JOINT LAYOUT - PLAN



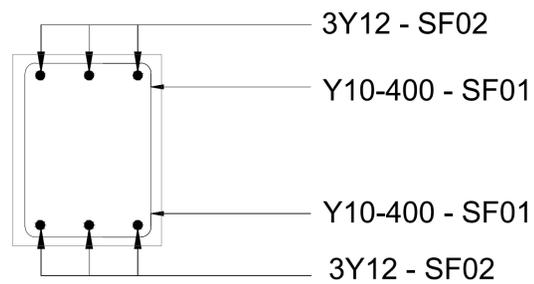
DETAIL A



DETAIL B

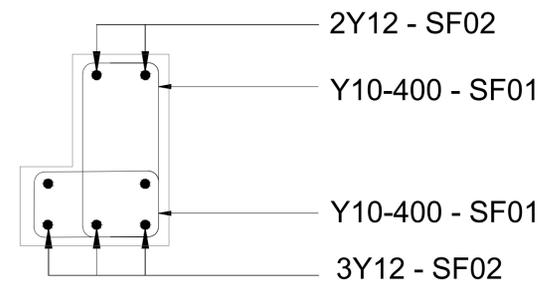


PLAN ON 345x345 PIER (2 No. PLACES)  
DETAIL C



GROUND BEAMS REINFORCEMENT

See Bending Schedule for Details



GROUND BEAMS REINFORCEMENT

See Bending Schedule for Details

CONCRETE NOTES:

1. ALL CIVIL ENGINEERING WORK TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200
2. CONCRETE TO BE "STRENGTH CONCRETE" AS SPECIFIED BELOW UNLESS 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 FINISH" UNLESS OTHERWISE NOTED.
5. THE MINIMUM DESIGN BEARING PRESSURE FOR FOUNDATIONS IS 150MPa UNLESS OTHERWISE NOTED.
6. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF BLINDING AND TO BE KEPT DRY AT ALL TIMES.

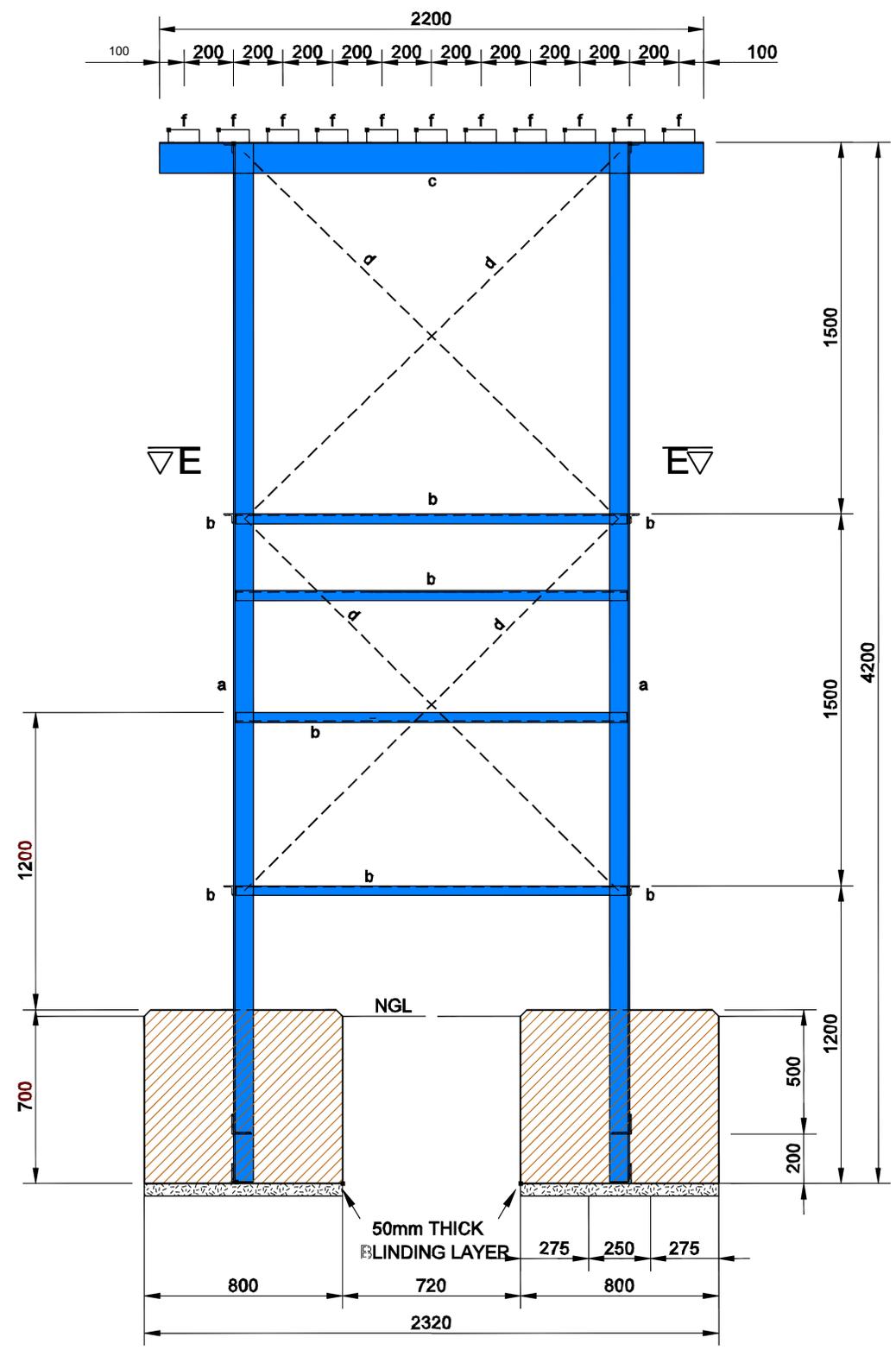
CONSTRUCTION NOTES:

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 BEING POLISHED. METHOD TO BE 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.

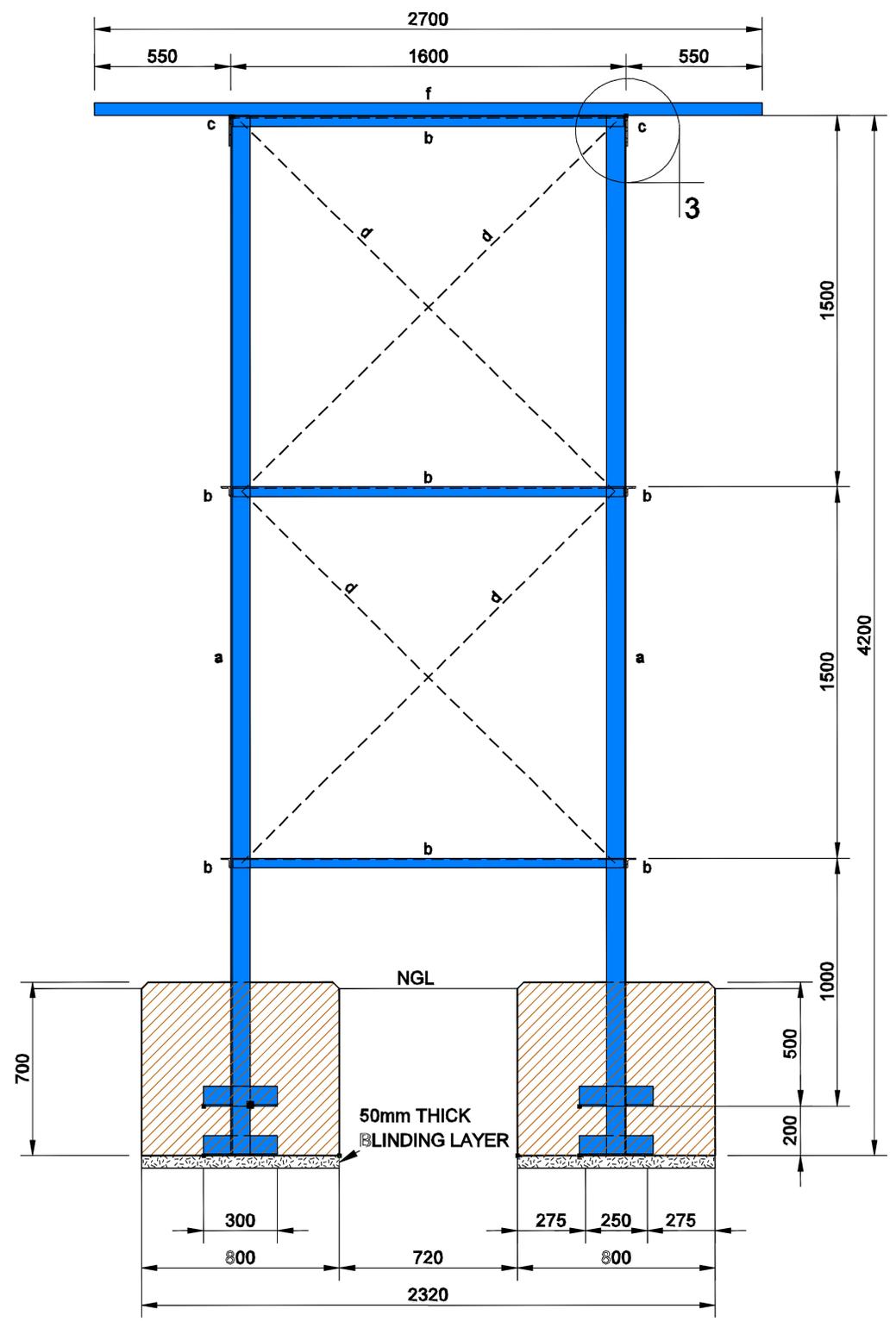
GEOTECHNICAL CONSIDERATIONS

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

				CLIENT	MUTEO CONSULTING	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	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE
							DESIGNED	02 May 2023	S.D		DO NOT SCALE IF IN DOUBT ASK.	TITLE
				DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE			CHECKED	02 May 2023	E.M			NUTRISION BLOCK FOUNDATION LAYOUT & DETAILS
							DRAWN	02 May 2023	S.D		PROJECT No.	
							PROJECT MNG.				LDPWRI-PROF/16003B	
							APPROVED				DRG SIZE	DRAWING No.
							CLIENT				A1	NUTRISION/RAFT/003
REV	DATE	CHK	APP	DESCRIPTION								REV
												0



SECTION C-C



SECTION D-D

**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 – 30x5 flat bar made 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.

REV	DATE	CHK	APP	DESCRIPTION

CLIENT

LIMPOPO  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF  
PUBLIC WORKS, ROADS & INFRASTRUCTURE

MUTEO CONSULTING

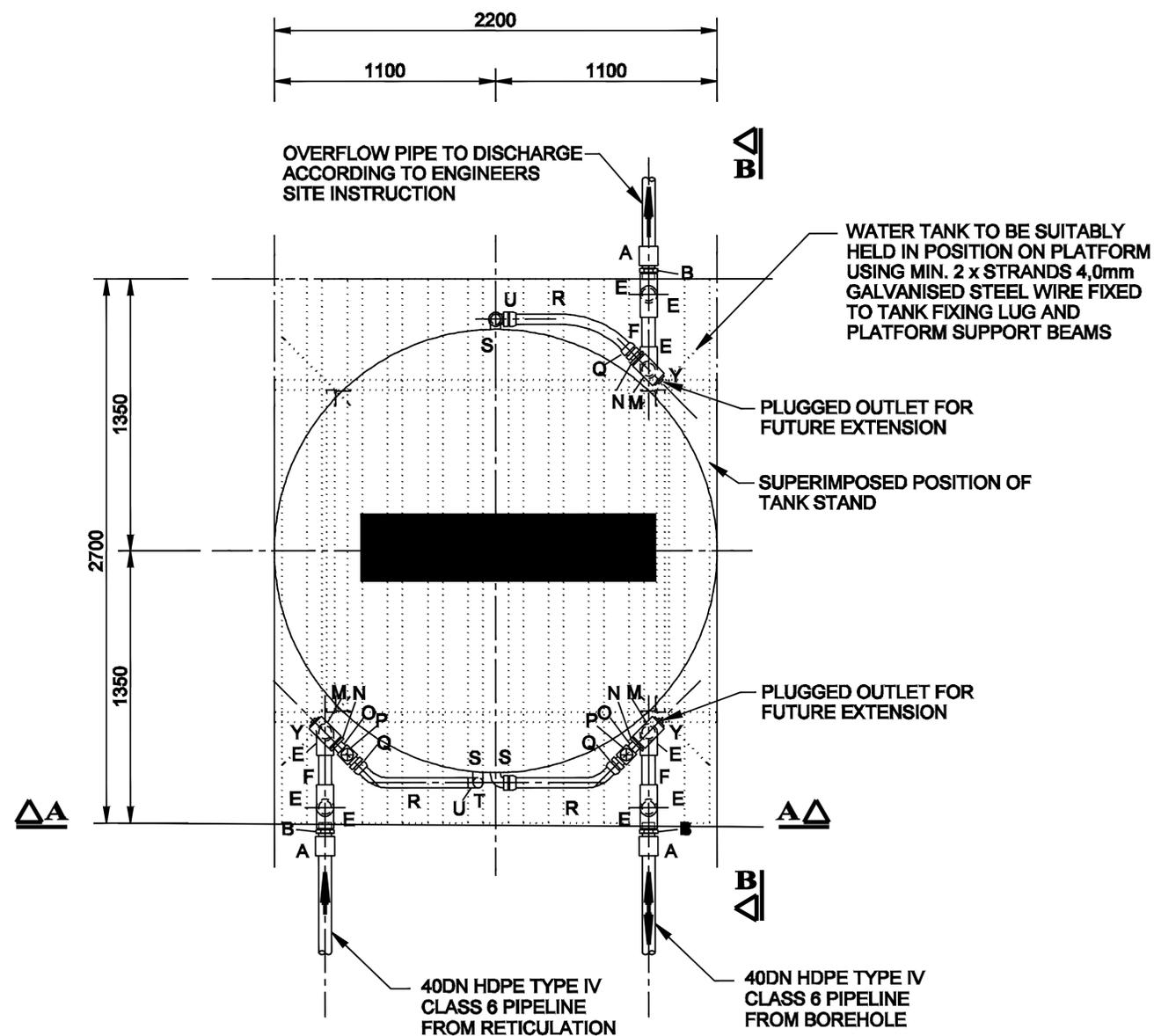
MUTEO  
CONSULTING

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	10/08/2021	V.M	
CHECKED	10/08/2021	E.M	
DRAWN	10/08/2021	V.M	
PROJECT MNG.			
APPROVED			
CLIENT			

SCALE
DO NOT SCALE IF IN DOUBT ASK.
PROJECT No. LDPWRI-PROF/16003B
DRG SIZE A1

ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
TITLE	LDPWRI STORM DAMAGED SCHOOLS PVC TANK STAND DETAILS
DRAWING No.	LDPWRI SCHOOLS/B&C/03A
REV	0



**PLAN**  
NTS

		SCHEDULE OF FITTINGS					
REF	NB	DESCRIPTION	WALL Ψ mm	FLANGE DRILLING	TREATMENT		QTY
					GALVA NISED	EPOXY RESIN PAINT	
A	40	'PLASSON' MALE ADAPTOR COMPRESSION FITTING					3no
B	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			*		9no
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		*		2no
H	65	MGI CONICAL SEAT UNION			*		2no
J	65	MGI BARREL NIPPLE			*		2no
K	65	BRASS FEMALE THREADED FULLWAY GATE VALVE			*		2no
L	65	2000mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		2no
M	65	65x65x65ND MGI FEMALE EQUAL TEE			*		3no
N	65x50	65x50ND MGI REDUCING BUSH			*		3no
O	50	MGI BARREL NIPPLE			*		2no
P	50	BRASS FEMALE THREADED FULLWAY GATE VALVE			*		2no
Q	50	50NDx50BSP MALE ADAPTOR COMPRESSION FITTING			*		3no
R	50	600mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 633)			*		3no
S	50x40	50NDx40BSP MALE ELBOW COMPRESSION FITTING			*		3no
T	50	2800mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 633)			*		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	100 mm LONG GALVANISED STEEL PIPE THREADED BOTH ENDS	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

REV	DATE	CHK	APP	DESCRIPTION

CLIENT

LIMPOPO  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF  
PUBLIC WORKS, ROADS & INFRASTRUCTURE

MUTEO CONSULTING

MUTEO  
CONSULTING

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	10/08/2021	V.M	
CHECKED	10/08/2021	E.M	
DRAWN	10/08/2021	V.M	
PROJECT MNG.			
APPROVED			
CLIENT			

SCALE
DO NOT SCALE IF IN DOUBT ASK.
PROJECT No. LDPWRI-PROF/16003B
DRG SIZE A1

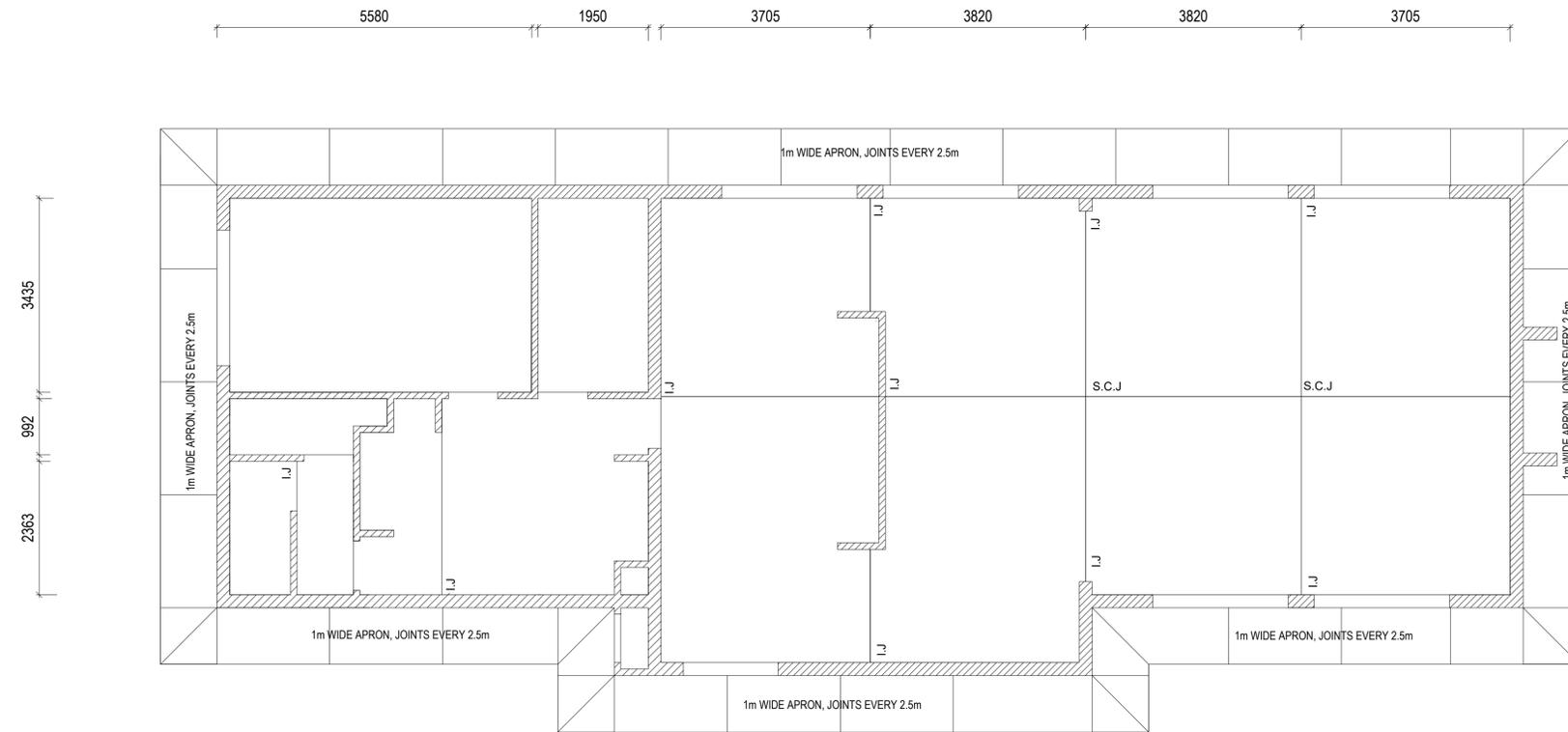
ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE

TITLE  
**LDPWRI STORM DAMAGED SCHOOLS  
PVC TANK PIPE FITTINGS**

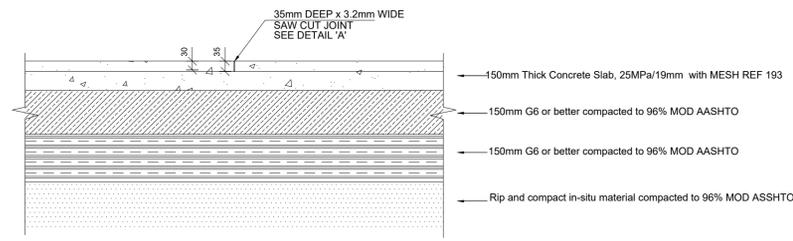
DRAWING No.  
LDPWRI SCHOOLS/B&C/03B

REV  
0

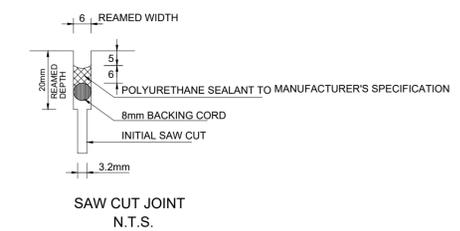




1564 3657 **FLOOR JOINT LAYOUT - PLAN**



SAW CUT JOINT  
N.T.S.

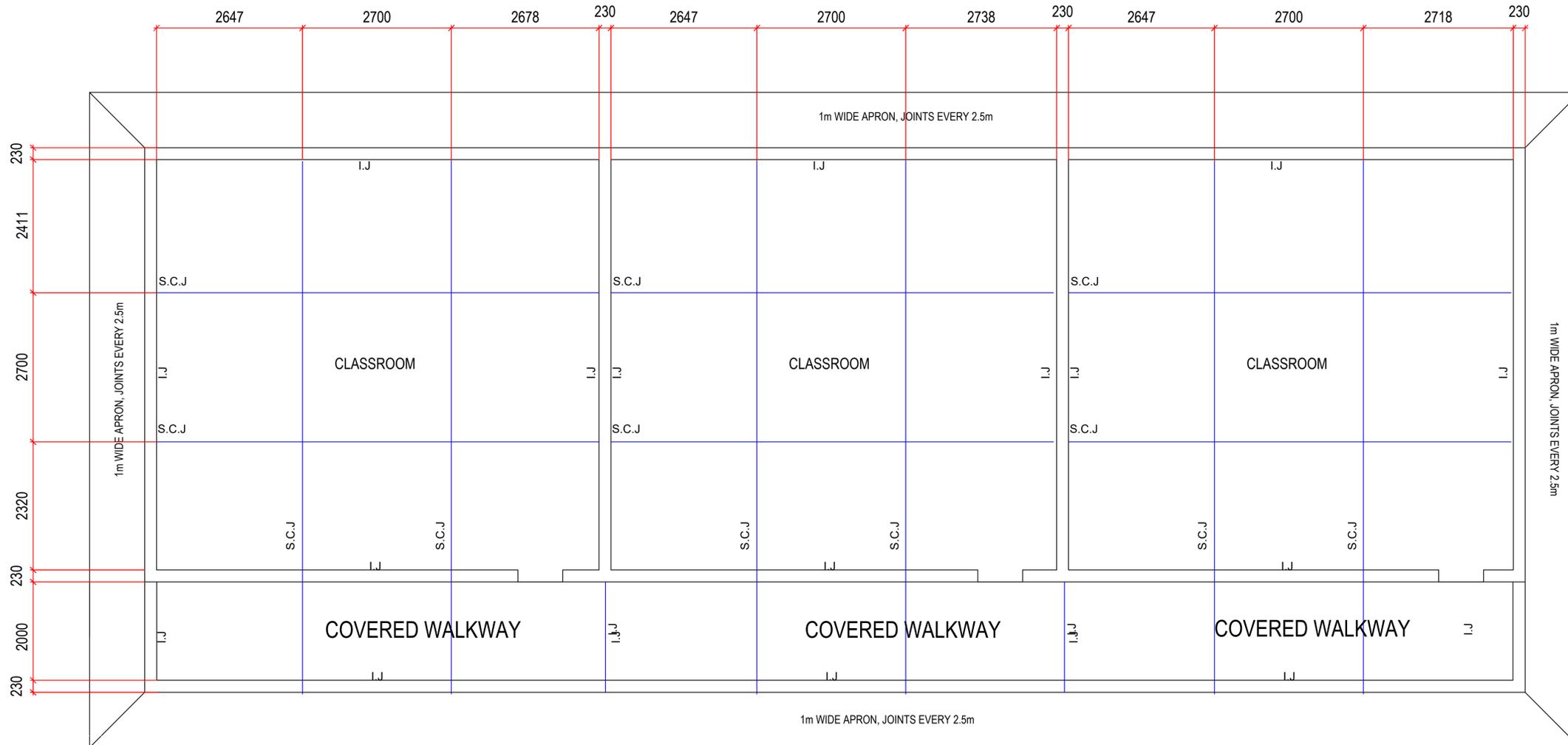


SAW CUT JOINT  
N.T.S.

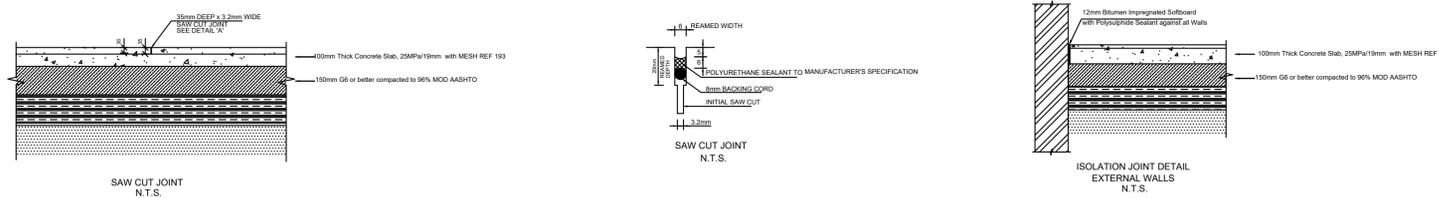
**JOINT DETAILS - SECTIONS**

				CLIENT	MUTEO CONSULTING	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	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
				 DEPARTMENT OF <b>PUBLIC WORKS, ROADS &amp; INFRASTRUCTURE</b>			DESIGNED	02 May 2023	S.D		DO NOT SCALE IF IN DOUBT ASK.	TITLE	
							CHECKED	02 May 2023	E.M				PROJECT No. LDPWRI-PROF/16003B
								DRAWN	02 May 2023	S.D		<b>NUTRISION BLOCK FLOOR JOINTS</b>	
								PROJECT MNG.					DRAWING No. NUTRISION/RAFT/004
								APPROVED				REV	
REV	DATE	CHK	APP	DESCRIPTION				CLIENT			DRG SIZE	A1	0





**FLOOR JOINTS**



**JOINT DETAILS - SECTIONS**

**1. GENERAL NOTES**

- All work to be done in accordance with the National Building Regulations and the relevant SABS Specifications.
- All drawings to be read in conjunction with Architect's drawings and any discrepancies must be reported to the Engineer prior to any setting out of work.
- No structural alterations are to be made without amended drawings.
- All drawings must be checked by the Contractor and any discrepancies should be reported to the Engineer before any work commences.
- All waterproofing and drainage to be to Architect's details and instructions.
- Contractor to ensure that stability of banks and excavations are continuously maintained throughout the construction period.

**2. R.C. CONSTRUCTION**

- No concrete is to be poured before the Engineer has inspected and approved the fixing of the reinforcement, 48 hours notice is required.
- Breaks in concrete and construction joints are to be made only with Engineer's approval.
- Shuttering and propping may be struck only after the lapse of the following times (in days):
 

Beam sides, walls and unloaded columns	2
Slab soffits without removal of slab props	4
Beam soffits without removal of beam props	7
Props unloaded slabs	10
Props unloaded beams	14
- Minimum concrete cover to reinforcement (in mm)
 

piler	50	beams	30
pile caps	50	slabs	20
ground beams	50	retaining walls (earth face)	30
columns	30	retaining walls (exposed face)	30
- Concrete cube strength at 28 days in (MPa)
 

blinding	15	beams	25
Mortar(Class A)	15	slabs	25
columns	30	walls	25
- Concrete cover to reinforcing to be maintained by the use of either nylon spacers or precast concrete blocks with binding wires cast in.
- All floor levels, unless otherwise indicated, are structural slab levels.

**3. FOUNDING**

- Foundations are subject to alterations as excavations proceed.
- No foundations are to be cast or reinforcement fixed in bases until excavations have been approved by an Engineer.
- All backfill material under foundations and floors to be as follows:
  - G6 Material or better
  - PI < 6
  - Compacted to 96% MOD AASHTO in layers of 150mm
  - Non-cohesive and free draining

**4. ADDITIONAL NOTES**

- All exposed concrete slabs and beams bearing on brickwork to have a slip joint made up of 2 sheets of masonite with smooth faces abutting each other at top of brick-concrete interface. Joint to extend through plaster.
- Special attention to be given to curing of concrete. Exact details to be discussed with Engineer on site prior to pouring of any concrete.
- Two lintels plus five courses of brickwork to be built over all openings - reinforced every course with brickforce.
- All brickwork to have a minimum compressive strength of 15MPa.
- A construction joint sealed with suitable flexible sealant is to be formed at all junctions between new brickwork and existing brickwork.
- No brickwork is to be built onto suspended slabs or beams until slabs/beams have attained their full strength and have been depropped.
- All deviations from architect's drawing to be confirmed by architect prior to construction.
- All work to be carried out in accordance with the National Building Regulations, Environmental and Occupational Health and Safety Act, (latest revision), and the Construction Regulations.
- The main contractor is to ensure that a competent person, approved by the South African Qualification Authority supervises and approves all aspects of the requirements of the Occupational Health and Safety Act, latest revision.
- All temporary works to be designed, detailed, supervised and certified by a competent person or professional engineer as defined in the OHS ACT.
- The works will be inspected from time to time by the consulting engineer to ascertain that the contractor is carrying out the work in general conformity with the engineering drawings and documents. Such inspections are not carried out for the benefit of the contractor, and do not relieve him of the responsibility for the proper construction of the works in accordance with the engineering drawings, documents & good building practice.

**5. COMPLETION CERTIFICATE**

- No completion certificate shall be issued if all material and compaction test results are not submitted to the Engineer.

				CLIENT	MUTEO CONSULTING	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	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE
							DESIGNED	22 June 2021	N.M		DO NOT SCALE IF IN DOUBT ASK.	TITLE
							CHECKED	22 June 2021	E.M		PROJECT No.	LDPWRI-PROF/16003B
							DRAWN	22 June 2021	N.M		DRAWING No.	LDPWRI SCHOOLS/C/MOLESHATLOU/04
REV	DATE	CHK	APP	DESCRIPTION			APPROVED				DRG SIZE	A1
							CLIENT					REV 0