

CONTRACT No. LDPWRI-B/20299



BID NUMBER: LDPWRI-B/20299

APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, 8 CLASSROOMS, THE REFURBISHMENT OF 6 CLASSROOMS, 20 ENVIROLOO SEATS AND THE CONSTRUCTION OF SMALL ADMINISTRATION BLOCK, 4 CLASSROOM BLOCK, 2 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK AND EXTERNAL WORKS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT.

for

LIMPOPO DEPARTMENT OF EDUCATIONECON (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

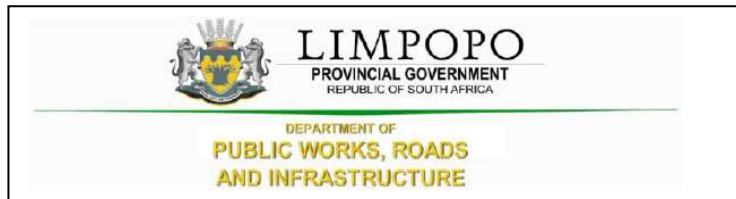
Contact Person: General Queries

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

Technical: Technical Queries

Name : Mr K Modjadji
Tel No. : 083 673 5436
Email : ModjadjiM@dpw.limpopo.gov.za

Name of the Bidder :



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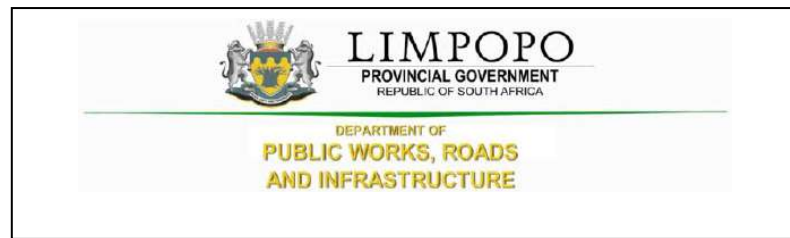
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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT.

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PART T1: TENDERING PROCEDURE

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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 ADMINISTRATION BLOCK, 8 CLASSROOMS, THE REFURBISHMENT OF 6 CLASSROOMS, 20 ENVIROLOO SEATS AND THE CONSTRUCTION OF SMALL ADMINISTRATION BLOCK, 4 CLASSROOM BLOCK, 2 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK AND EXTERNAL WORKS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE)** for a period of 18 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

Project Name	DEMOLITION OF ADMINISTRATION BLOCK, 8 CLASSROOMS, THE REFURBISHMENT OF 6 CLASSROOMS, 20 ENVIROLOO SEATS AND THE CONSTRUCTION OF SMALL ADMINISTRATION BLOCK, 4 CLASSROOM BLOCK, 2 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK AND EXTERNAL WORKS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR A PERIOD OF 18 MONTHS.	
Tender Number	LDPWRI- B/20299	
Tender documents availability	Limpopo Department of Public Works, Roads and Infrastructure website	
Address for submission of tenders	DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.	
Closing date of the tender	As per Tender invite	
Closing time of the tender	As per Tender invite	
Compulsory briefing meeting (<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 checked="" type="checkbox"/> No <input type="checkbox"/>	
	Meeting venue	As per Tender invite
	Date	As per Tender invite
	Time:	As per Tender invite
Evaluation criteria	<ol style="list-style-type: none"> 1. Compliance with mandatory or compulsory requirements 2. Risk assessment on current projects 3. Price 4. Preference 	
Mandatory or Compulsory Requirements (<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	
	Priced Bills of Quantities	
	SBD 1.	
	Declaration on the status of Administration compliance.	
	Completed and signed Form of Offer	



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 www.cidb.org.za) 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 No. 36190 of 25 February 2013. In this case, contractor shall provide a minimum Contract Participation Goal (CPG) of 5% 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

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C.1.2	<p>The Tender Part T1: Tendering procedures T1.1 Tender notice and invitation to tender T1.2 Tender data</p> <p>Part T2: Returnable documents T2.1 List of returnable documents T2.2 Returnable schedules</p> <p>The Contract Part C1: Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Joint Venture Agreement (If Applicable)</p> <p>The Contract Part C2: Pricing data C2.1 Pricing instructions C2.2 Bills of Quantities</p> <p>Part 3: Scope of work C3.1 Special Notes to Bidders C3.2 OHS Specifications</p> <p>Part 4: Site information C4 Drawings</p>
C.1.4	<p>The employer's representative is:</p> <p>Name : Mr K Modjadji Tel No. : 083 673 5436 Email : ModjadjiM@dpw.limpopo.gov.za</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>Eligibility in respect of CIDB grading</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>Cost of tendering</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>

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C.2.7	<p>Compulsory site briefing</p> <p>A compulsory briefing meeting will be held as per Tender invite</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>Alterations to the documents</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>Alternative tender offer</p> <p>No alternative tender offer is permitted in this tender.</p>
C.2.13.2	<p>Replace sub-clause C.2.13.2 with the following; Return all returnable documents to the employer after completing them in their entirety by writing in non-erasable black ink (Black pen)</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>Location of tender box: DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699 Identification details: Sealed Tender with Tender reference number, Title of Tender and the closing date and time of the tender.</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 12 weeks or 90 days.</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"> - Persons who had no franchise in national elections prior to 1983 and 1993 - Women - Disabled persons - Promotion of SMMEs - Enterprises located in Limpopo Province - Promotion of youth - South African owned enterprises

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	<p>CIDB Grading Certificate</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>Letter of Good Standing</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 not 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"> (i) Stage 1: Compliance with mandatory requirements as stated in Part T1.1 (ii) Stage 2: Risk assessment on current projects (iii) Stage 3: Price (iv) Stage 4: Preference <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&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.¹</p> <ul style="list-style-type: none"> a) Stage 1: Administrative Compliance: The Compliance or compulsory documents and returnables are detailed in Section T.2.1 of this tender document. Failure to submit, complete or comply with these requirements will lead to automatic disqualification. b) Stage 2: Risk assessment on current projects <p>The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade.</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

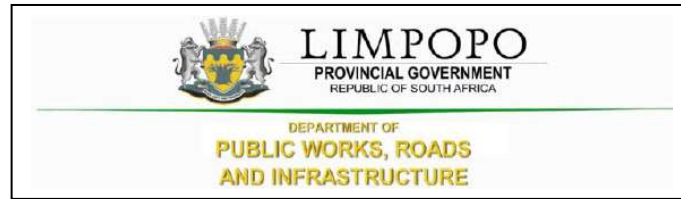
P_m is the lowest Comparative bid price

P_o is the comparative price under consideration

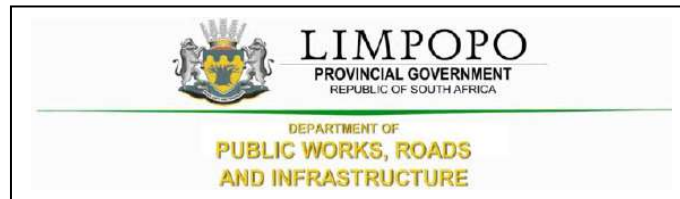
- b) N_P is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT.

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PART T2: RETURNABLE DOCUMENTS



T2.1 : LIST OF RETURNABLE DOCUMENTS

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

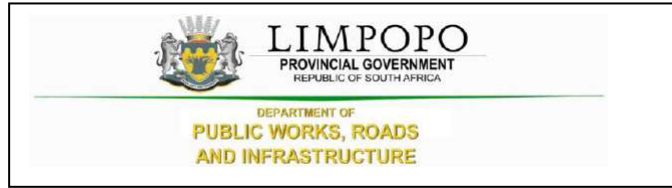
- 2.1 Fully completed Form of Offer
- 2.2 Bills of Quantities
- 2.3 Record of Addenda to tender documents (if applicable)
- 2.4 Proposed amendments and qualifications (if applicable)
- 2.5 Proof of specific goal for award of the preference points as determined on the Request for Proposal
- 2.6 SBD 1.
- 2.7 SBD 6.1
- 2.8 Declaration on the status of Administration compliance.
- 2.9 CIDB grading certificate
- 2.10 CSD Report
- 2.11 Tax clearance certificate
- 2.12 Declaration of current projects

Failure by the service provider to submit or complete item 2.1, 2.2, 2.3, 2.4, 2.6, 2.8, and 2.12 will render their proposal not responsive and will not be considered.

Failure by the service provider to fully complete SBD 6.1 item 4.3 to 4.6 (Declaration with regard to company/firm) 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.

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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 (if applicable)	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.	Proposed amendments and qualifications (if applicable)	<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.	CSD Summary report	<input type="checkbox"/> Yes <input type="checkbox"/> No
11.	Original tax clearance certificate or tax pin	<input type="checkbox"/> Yes <input type="checkbox"/> No
12.	Declaration of current projects	<input type="checkbox"/> Yes <input type="checkbox"/> No

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Declaration on the status of administrative compliance

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

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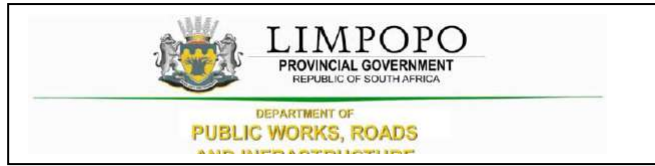
.....

Signed Date _____

Name Position _____

Enterprise

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Record of Addenda to tender documents

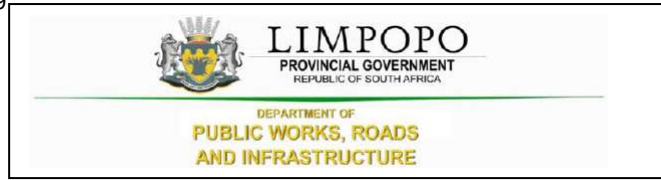
We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

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

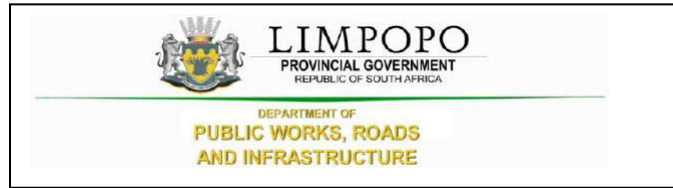
Signed _____ Date _____

Name _____ Position _____

Tenderer _____

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**SBD 1
PART A: INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE LIMPOPO DEPARTMENT OF PUBLIC WORKS, ROADS AND INFRASTRUCTURE

BID NUMBER:	LDPWRI-B/20299	CLOSING DATE	As per Tender Advert	CLOSING TIME:	As per Tender Advert
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DESCRIPTION **DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT.**

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

CONTACT PERSON Mr. NJ Motsopye

TELEPHONE NUMBER 0152847126 E-MAIL ADDRESS motsopyen@dpw.limpopo.gov.za

CONTACT PERSON (TECHNICAL) Mr. K Modjadji

TELEPHONE NUMBER 083 673 5436 E-MAIL ADDRESS ModjadjiM@dpw.limpopo.gov.za

SUPPLIER INFORMATION

NAME OF BIDDER

POSTAL ADDRESS

STREET ADDRESS

TELEPHONE NUMBER CODE NUMBER

CELLPHONE NUMBER

E-MAIL ADDRESS

VAT REGISTRATION NUMBER

SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:	OR	CENTRAL SUPPLIER DATABASE No:	MAAA
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ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED? Yes No [IF YES ENCLOSE PROOF]

ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<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.

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PART B: TERMS AND CONDITIONS FOR BIDDING

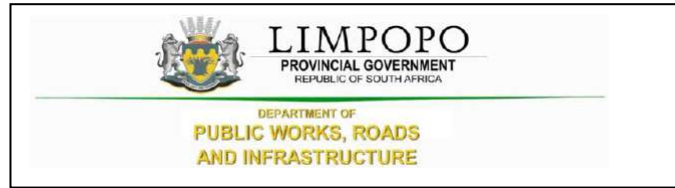
1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM.
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

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

SIGNATURE OF BIDDER:

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

DATE:



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.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

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

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

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

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 (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	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 (Attach certified copy of South African ID as proof)	2	6		
Women (Attach Director's certified copy of South African ID as proof + company registration documents)	1	3		
Disabled persons (Attach letter from a Health Professional as proof)	1	2		
Promotion of SMMEs (Attach latest financial statement as proof)	1	2		
Enterprises located in Limpopo Province (Attach proof of address / Lease agreement as proof)	2	4		
Promotion of youth (Attach Director's certified copy of South African ID as proof)	1	1		
South African owned enterprises (Attach Director's certified copy of South African ID as proof + company registration documents)	2	2		

CONTRACT No. LDPWRI-B/20299

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

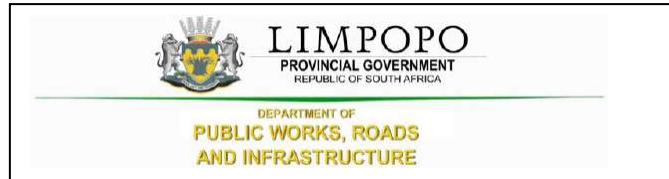
[TICK APPLICABLE BOX]

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 tender 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?
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/tenderer 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 _____

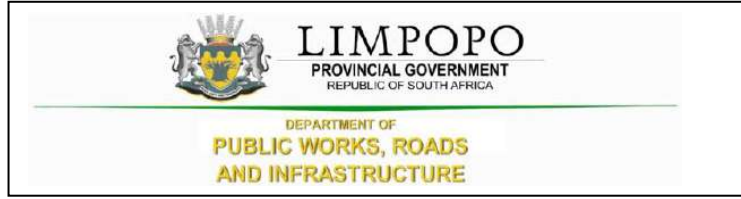
Enterprise _____



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 PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), 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
.....
.....
.....

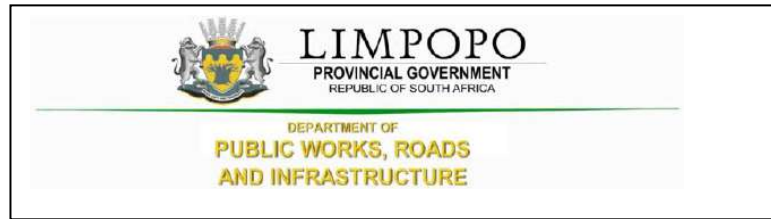
3 Subject
Details
.....
.....
.....

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.

.....



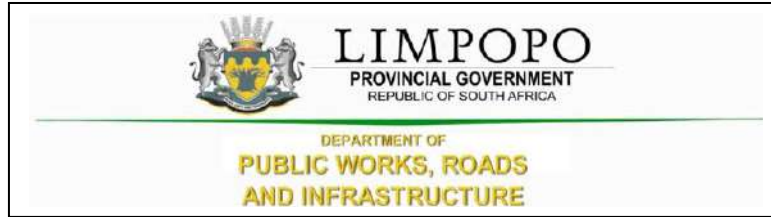
C2.1 CONTRACT DATA

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.

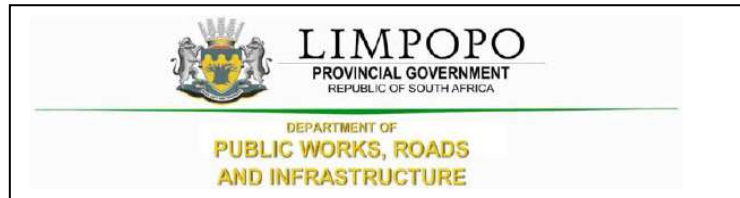
The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the **CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts Gazette Notice No. 36190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

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES NOTES</u></p> <p><u>PREAMBLES</u></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><u>NOTES</u></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 <i>Principal Building Agreement: Contract Data</i> 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>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

	Brought Forward		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><u>PRICING OF PRELIMINARIES</u></p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p> <p><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 4.1, March 2005)</u></p> <p><u>DEFINITIONS AND INTERPRETATION (A1)</u></p>			
1/1/1	<p>Clause 1.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><u>OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)</u></p>			
1/1/2	<p>Clause 2.0</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><u>DOCUMENTS (A3)</u></p>			
1/1/3	<p>Clause 3.0</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

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

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

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

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

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

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

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

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

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

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

	Brought Forward		R	
	<u>SCHEDULE OF VARIABLES (A42)</u>			
1/1/43	Clause 42.0 F:..... V:..... T:.....	Item		
	<u>AGREEMENT</u>			
	<u>AGREEMENT</u>			
1/1/44	Clause F:..... V:..... T:..... Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder <u>CONTRACT DETAILS</u> Works Description: Demolitions of administration block and 08 classrooms, renovations of 6 classrooms, 20 enviro-loo seats and the construction of small administration block, 4 classrooms, 2 Grade R classrooms, 4 waterborne toilet seats including all related external works Site Description: Phaphamani Secondary School Mpudulle, Monsterlus Groblersdal, Sekhukhune, Limpopo Work for installation by direct contractors: TBC	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<p>This agreement is for a government contract: Yes</p> <p>Date on which possession of the site is intended to be given: TBC</p> <p>Period for the commencement of the works after the contractor takes possession of the site: 10 days</p> <p>Completions in sections are required: No</p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole:</p> <p>R 4 390.00</p> <p>Contract duration : 18 months including national builder's break</p> <p>SPECIAL COMPLETION REQUIREMENTS</p> <p>Beneficial occupation dates: TBC</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		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

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	Brought Forward		R	
	<p><u>INSURANCES</u></p>			
1/1/47	<p>Contract works insurance to be effected by: Contractor</p> <p>For the amount of: The Contract Sum 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 Contractor's account</p> <p>SASRIA insurance required:</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/48	<p>Public liability insurance to be effected by Contractor</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><u>DOCUMENT</u></p> <p>Waivers of contractors lien is required: Yes</p> <p>Number of construction document copies to be supplied free of charge: 3</p> <p>Number of days for submission of priced documents: TBA</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: No</p> <p>Alternative if contract value is not adjusted using Contract Price Adjustment Provision: N/A</p> <p>Tender Price is requested for Fixed Rates.</p>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

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<p style="text-align: center;">Brought Forward</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;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>				R

Brought Forward		R
<u>SECTION B: PRELIMINARIES</u>		
<u>Definition and interpretation (B1)</u>		
1/1/49	Definition and interpretation (B1.1 - B1.6.5) F:..... V:..... T:.....	Item
<u>Documents (B2)</u>		
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
Carried Forward		R
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	Brought Forward		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		
	<u>The site (B3)</u>			
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: TBC The meeting will be held at: TBC 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		
	Carried Forward		R	
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Brought Forward			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 Phaphamani Primary 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	
Carried Forward			R
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	Brought Forward		R	
1/1/69	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item		
	<u>Management of contract (B4)</u>			
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		
	<u>Samples and shop drawings and manufacturer's instructions (B5)</u>			
1/1/74	Samples of materials (B5.1) F:..... V:..... T:.....	Item		
1/1/75	Workmanship samples (B5.2) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/76	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
<u>Temporary works and plant (B6)</u>				
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		
Carried Forward				
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

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	Brought Forward		R	
	<u>Temporary services (B7)</u>			
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		
	<u>Prime cost amounts (B8)</u>			
1/1/88	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
1/1/89	General attendance (B9.1) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		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		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
1/1/92	Provision for Value Added Tax (VAT) is made in the Final Summary F:..... V:..... T:.....	Item		
1/1/93	Payment of preliminaries (B10.2) F:..... V:..... T:.....	Item		
1/1/94	Adjustment of preliminaries (B10.3) F:..... V:..... T:.....	Item		
1/1/95	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
1/1/96	Contractor information supply (B10.5) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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Brought Forward		R
<u>General (B11)</u>		
1/1/97	Protection of works (B11.1) F:..... V:..... T:.....	Item
1/1/98	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....	Item
1/1/99	Site security (B11.3) F:..... V:..... T:.....	Item
1/1/100	Notice before covering work (B11.4) F:..... V:..... T:.....	Item
1/1/101	Disturbance (B11.5) F:..... V:..... T:.....	Item
1/1/102	Works cleaning and clearing (B11.6) F:..... V:..... T:.....	Item
1/1/103	Vermin (B11.7) F:..... V:..... T:.....	Item
1/1/104	Overhand work (B11.8) F:..... V:..... T:.....	Item
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Brought Forward		R
<u>Schedule of variables (B12)</u>		
1/1/105	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
1/1/106	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes F:..... V:..... T:.....	Item
1/1/107	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete: Yes F:..... V:..... T:.....	Item
1/1/108	12.1.3 Interest of agents (B2.4) F:..... V:..... T:.....	Item
1/1/109	12.1.4 Defined works area (B3.1) F:..... V:..... T:.....	Item
1/1/110	12.1.5 Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item
1/1/111	12.1.6 Existing premises occupied (B3.4) F:..... V:..... T:.....	Item
Carried Forward		R
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	Brought Forward		R	
1/1/112	<p>12.1.7 Services - known (B3.7)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/113	<p>12.1.8 Protection of trees (B3.9)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/114	<p>12.1.9 Inspection of adjoining properties (B3.11)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/115	<p>12.1.10 Enclosure of the works (B6.2)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/116	<p>12.1.11 Offices (B6.4.3)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/117	<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		
1/1/118	<p>12.1.13 Subcontractors notice board (B6.6)</p> <p style="text-align: center;">A notice board is required: Yes</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/119	<p>12.1.14 Water (B7.2) Alternative Selected: A</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		
1/1/120	<p>12.1.15 Electricity (B7.3) Alternative selected: A</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		
	Carried Forward		R	
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	Brought Forward		R	
1/1/121	<p>12.1.16 Telecommunications (B7.4) Alternative selected: A</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		
1/1/122	<p>12.1.17 Ablution facilities (B7.5) Alternative selected: A</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		
1/1/123	<p>12.1.8 Special attendance (B9.2)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/124	<p>12.1.19 Protection of the works (B11.1)</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/125	<p>12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: Yes</p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/126	<p>12.1.21 Disturbance (B11.5)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/127	<p>Post tender information (B12.2)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/128	<p>12.2.1 Payment of preliminaries Alternative selected: (A or B)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/129	<p>12.2.2 Adjustment of preliminaries Alternative selected: (A or B)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/130	<p>12.2.3 Additional agreed preliminaries items</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
1/1/131	<p>GUARANTEE</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		
1/1/132	<p>SHOP DRAWINGS</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		
	Carried Forward		R	
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	Brought Forward		R	
1/1/133	<p>SAMPLES</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		
1/1/134	<p>SITE INSTRUCTIONS</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		
	Carried Forward		R	
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	Brought Forward		R	
1/1/135	<p>OVERTIME</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		
1/1/136	<p>CO-OPERATION OF CONTRACTOR FOR COST CONTROL</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		
1/1/137	<p>SITE LEVELS</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		
1/1/138	<p>PROPRIETARY BRANDED PRODUCTS</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		
	Carried Forward		R	
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	Brought Forward		R	
1/1/139	<p>AS BUILT DRAWINGS</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		
1/1/140	<p>OCCUPATIONAL HEALTH AND SAFETY ACT</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		
1/1/141	<p>COVID-19 RELATED ITEMS</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		
Carried to Final Summary			R	
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></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><u>Filling</u></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>			
	Carried Forward		R	
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 1 Earthworks</p>			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
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Brought Forward				R
<u>SITE CLEARANCE ETC</u>				
<u>Site clearance</u>				
2/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	457	
<u>EXCAVATIONS</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
2/1/2	Trenches	m3	104	
<u>Extra over excavations in earth to trenches and holes for</u>				
2/1/3	Excavation in soft rock	m3	10	
2/1/4	Excavation in hard rock	m3	5	
<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density</u>				
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>				
<u>Note:</u>				
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.				
2/1/5	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	57	
<u>RISK OF COLLAPSE OF EXCAVATIONS</u>				
<u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u>				
2/1/6	Trenches and holes	m2	298	
Carried Forward				R
Section No. 2 4 CLASSROOM BLOCK Bill No. 1 Earthworks				

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PHAPHAMANI PRIMARY SCHOOL**

Brought Forward				R
	<u>Keeping excavations free of water</u>			
2/1/7	Keeping excavations free of water		Item	
	<u>FILLING, ETC.</u>			
	<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>			
2/1/8	Backfilling to trenches, holes, etc	m3	53	
2/1/9	Under floors, steps, pavings, etc	m3	222	
	<u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
2/1/10	Backfilling to trenches, holes, etc	m3	16	
2/1/11	Under floors, steps, pavings, etc	m3	49	
	<u>Filling supplied by the Contractor under floors, trenches, etc.</u>			
2/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	49	
	<u>COMPACTION OF SURFACES</u>			
2/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	413	
	<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>			
	<u>Protection against termites, ants, etc</u>			
2/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	413	
2/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	402	
	Carried Forward to Summary of Section No.			R
	Section No. 2			
	4 CLASSROOM BLOCK			
	Bill No. 1			
	Earthworks			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></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><u>Formwork</u></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>			
	Carried Forward			R
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 2 Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;">Brought Forward</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"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <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;">Carried Forward</p> <p>Section No. 2 4 CLASSROOM BLOCK Bill No. 2 Concrete, Formwork and Reinforcement</p>		R	

Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15Mpa/19mm concrete</u>			
2/2/1	Blinding	m3	5
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u>			
<u>25MPa/19mm Concrete</u>			
2/2/2	Strip footings	m3	26
<u>REINFORCED CONCRETE CAST IN FORMWORK</u>			
<u>20Mpa/19mm concrete</u>			
2/2/3	Concrete Apron cast to fall etc,	m3	9
<u>25MPa/19mm Concrete</u>			
2/2/4	Surface beds cast in panels	m3	42
<u>TEST BLOCKS</u>			
<u>Notes:</u>			
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)			
2/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	39
Carried Forward			R
Section No. 2 4 CLASSROOM BLOCK Bill No. 2 Concrete, Formwork and Reinforcement			

**LIMPOPO DEPARTMENT OF EDUCATION
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Brought Forward			R
<u>SUNDRIES TO CONCRETE</u>			
<u>Surface treatment</u>			
2/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	413
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Rough formwork to sides</u>			
2/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	174
<u>MOVEMENTS JOINTS ETC,</u>			
<u>Saw cuts Joints</u>			
2/2/8	3 x 30mm In saw cut joints in floors	m	73
<u>Expansion joints</u>			
2/2/9	10mm soft board or similar approved between concrete and brick wall	m	87
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High and mild tensile steel reinforcement to structural concrete work</u>			
2/2/10	All diameter bars	t	2
<u>Fabric reinforcement:</u>			
2/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	326
Carried Forward to Summary of Section No.			R
Section No. 2			
4 CLASSROOM BLOCK			
Bill No. 2			
Concrete, Formwork and Reinforcement			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Sizes in descriptions</u></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><u>Hollow walls etc</u></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><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	Carried Forward		R	
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 3 Masonry</p>			

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Brought Forward			R
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>BRICKWORK IN FOUNDATION</u>			
<u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u>			
2/3/1	One brick wall	m2	112
<u>SUPERSTRUCTURE BRICKWORK</u>			
<u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u>			
2/3/2	One brick wall	m2	338
2/3/3	Half brick wall, in beamfilling	m2	14
<u>FACE BRICKWORK</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<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>			
2/3/4	Extra over brickwork for face brickwork in foundations (Provisional)	m2	224
2/3/5	Extra over brickwork for face brickwork in superstructure	m2	252
2/3/6	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	44
2/3/7	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	41
Carried Forward			R
Section No. 2 4 CLASSROOM BLOCK Bill No. 3 Masonry			

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PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R
2/3/8	Extra over brickwork for face brickwork in beamfilling	m2	14
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
2/3/9	150mm Wide reinforcement built in horizontally.	m	1 651
<u>"Allied concrete" or similar approved prestressed fabricated lintels</u>			
2/3/10	100 x 70mm Lintels in lengths not exceeding 3m	m	52
2/3/11	175 x 70mm Lintels in lengths not exceeding 3m	m	4
<u>Turning pieces</u>			
2/3/12	110mm Wide turning piece to flat brick lintels	m	44
<u>Air bricks etc</u>			
2/3/13	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4
<u>Roof ties</u>			
2/3/14	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	78
<u>MOVEMENTS JOINTS ETC,</u>			
<u>Expansion joints</u>			
2/3/15	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	22
Carried Forward to Summary of Section No.			R
Section No. 2			
4 CLASSROOM BLOCK			
Bill No. 3			
Masonry			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
2/4/1	Under walls	m2	3	
2/4/2	Under cills, etc.	m2	9	
	<u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u>			
2/4/3	Under surface beds.	m2	413	
	<u>JOINTS SEALANTS, ETC.</u>			
	<u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u>			
2/4/4	3 x 30mm In saw cut joints in floors	m	73	
2/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	87	
	Carried Forward to Summary of Section No.			
	Section No. 2 4 CLASSROOM BLOCK Bill No. 4 Waterproofing			R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>ROOF SHEETING</u>			
	<u>Similar Approved</u>			
	<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>			
2/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	483	
2/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	35	
2/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	20	
	Carried Forward			R
	Section No. 2 4 CLASSROOM BLOCK Bill No. 5 Roof Coverings			

	Brought Forward			R
	<p><u>ROOF AND WALL INSULATION</u></p> <p><u>Similar Approved</u></p> <p><u>Sisalation "Bubble Foil" aluminium foil binded insulation</u></p>			
2/5/4	<p>135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories</p>	m2	483	
	<p>Carried Forward to Summary of Section No.</p>			R
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 5 Roof Coverings</p>			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery</p>			

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	Brought Forward		R	
<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>				
Carried Forward			R	
<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery</p>				

Brought Forward		R
<u>ROOFS, ETC</u>		
<u>Plate nailed timber roof truss construction</u>		
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.		
Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.		
The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.		
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.		
<u>Roof trusses</u>		
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)	m2 403
<u>Sawn softwood</u>		
2/6/2	38 x 114mm Wall plates	m 94
<u>Sundries</u>		
2/6/3	Two coats creosote on sawn timbers	m2 35
Carried Forward		R
Section No. 2 4 CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery		

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		Brought Forward			R
		<u>Similar Approved</u>			
		<u>"Everite FC77" Fascia and badge boards</u>			
		<u>DOORS ETC</u>			
		<u>44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u>			
2/6/4	914 x 2032mm single door	No	4		
		<u>WINDOWS</u>			
		<u>Similar Approved</u>			
		<u>"Nutec" fibre cement window cills</u>			
2/6/5	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	41		
		Carried Forward to Summary of Section No.			
		Section No. 2		R	
		4 CLASSROOM BLOCK			
		Bill No. 6			
		Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Fixing</u></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><u>Ceilings & Bulkheads</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p>			
	Carried Forward		R	
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

	Brought Forward			R
	<p><u>Proprietary suspended ceilings</u></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><u>Suspension systems</u></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><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>Similar Approved</u></p> <p><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></p>			
2/7/1	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	310	
	<p><u>CORNICES</u></p> <p><u>"Rhino" plasterboard cornice</u></p>			
2/7/2	75mm Coved cornice, plugged to brickwork	m	202	
	Carried Forward			R
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

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	Brought Forward			R
	<u>SUNDRIES</u>			
	<u>Extra over for Trap Doors</u>			
2/7/3	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	4	
	<u>CEILING INSULATION</u>			
	<u>Insulation</u>			
2/7/4	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	310	
	Carried Forward to Summary of Section No.			
	Section No. 2 4 CLASSROOM BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 8 Ironmongery</p>			

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Brought Forward			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.			
<u>DOOR FURNITURE</u>			
<u>Locks</u>			
2/8/1	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	4
2/8/2	SC 150mm Cabin hook (Code: CH 150)	No	4
<u>Kick and push plates</u>			
2/8/3	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	8
<u>Panic hardware</u>			
2/8/4	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	4.0
2/8/5	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	4
Carried Forward			R
Section No. 2 4 CLASSROOM BLOCK Bill No. 8 Ironmongery			

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Brought Forward				R
<p><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.</u></p> <p><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></p>				
2/8/6	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	8	
<p><u>Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray</u></p>				
2/8/7	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	8	
<p><u>SUNDRIES</u></p> <p><u>Approved</u></p>				
2/8/8	"CZ8730SC" Door stop or similarly approved to wall or floors	No	4	
<p>Carried Forward to Summary of Section No.</p>				
<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 8 Ironmongery</p>				
				R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>ALUMINIUM</u></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><u>SPECIFICATIONS</u></p> <p>User Note:</p> <p><u>Glazing</u></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><u>Ironmongery</u></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>			
	Carried Forward		R	
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 9 Metalwork</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></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><u>Installation</u></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><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 4 CLASSROOM BLOCK Bill No. 9 Metalwork</p>			R	

<p style="text-align: center;">Brought Forward</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><u>Fixing:</u></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><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></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><u>Protection:</u></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><u>Cleaning:</u></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;">Carried Forward</p> <p>Section No. 2 4 CLASSROOM BLOCK Bill No. 9 Metalwork</p>		R	

Brought Forward				R
<u>WELDED SCREENS, GATES, ETC.</u>				
<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>				
2/9/1	Steel gate to door, size 914 x 2032mm high	No	4	
<u>PRESSED STEEL DOOR FRAMES</u>				
<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>				
2/9/2	914 x 2032mm single door	No	4	
<u>WINDOWS FRAMES, etc.</u>				
<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>				
2/9/3	Window size 1143 x 1272mm high	No	36	
<u>MESH IN CEILING VOIDS</u>				
<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>				
2/9/4	In Ceiling voids	m2	252	
Carried Forward				R
Section No. 2 4 CLASSROOM BLOCK Bill No. 9 Metalwork				

	Brought Forward			R
	<p><u>STEEL COLUMNS AND BEAMS</u></p> <p><u>Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to</u></p>			
2/9/5	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	280	
	Carried Forward to Summary of Section No.			R
	Section No. 2 4 CLASSROOM BLOCK Bill No. 9 Metalwork			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>SCREEDS</u>			
	<u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u>			
2/10/1	30mm Thick on floors and landings	m2	266	
	<u>Granolithic screed on concrete, worked down to a true and even surface with a wood trowel</u>			
2/10/2	30mm Thick on floors	m2	61	
	<u>INTERNAL PLASTER</u>			
	<u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u>			
2/10/3	On brick walls	m2	379	
2/10/4	On narrow widths	m2	38	
	Carried Forward			R
	Section No. 2 4 CLASSROOM BLOCK Bill No. 10 Plastering			

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	Brought Forward			R
2/10/5	<p><u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u></p> <p>Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.</p>	m	3	
	<p>Carried Forward to Summary of Section No.</p> <p>Section No. 2 4 CLASSROOM BLOCK Bill No. 10 Plastering</p>			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 11</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Pricing</u></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><u>Fixing</u></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><u>Wastage</u></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p>			
	Carried Forward		R	
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 11 Tiling</p>			

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Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No. 1, shall equally apply to this Bill.			
<u>Note</u>			
All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.			
<u>FLOOR TILING</u>			
<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>			
2/11/1	On floors	m2	266
2/11/2	75mm high skirting	m	131
<u>ATTIC STOCK</u>			
2/11/3	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	27
<u>SUNDRIES</u>			
<u>10mm aluminium straight edge trim</u>			
2/11/4	Dividing strip between tiles and door frames	m	3
Carried Forward to Summary of Section No.			R
Section No. 2 4 CLASSROOM BLOCK Bill No. 11 Tiling			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></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>			
	Carried Forward		R	
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage</p>			

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Brought Forward				R
<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				
<u>GENERAL NOTES TO TENDERERS</u>				
General notes, described in Bill No.1, shall equally apply to this Bill.				
<u>RAINWATER GOODS</u>				
<u>Similar Approved</u>				
<u>Gutters</u>				
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	94	
2/12/2	Extra over eaves gutter for stopped end	No	8	
2/12/3	Extra over eaves gutter for corner	No	41	
2/12/4	Extra over eaves gutter for outlet	No	10	
<u>Rainwater downpipes</u>				
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	35	
2/12/6	Extra over downpipe for offset	No	20	
2/12/7	Extra over downpipe for shoe	No	10	
Carried Forward				R
Section No. 2 4 CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>GLAZING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Note:</u></p> <p>All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400</p> <p><u>GLASS TO STEEL WITH PUTTY</u></p> <p><u>5mm clear floated glass fixed glazing putty</u></p>			
2/13/1	<p>Panes exceeding 0.1m2 and not exceeding 0.5m2</p>	m2	52	
	<p>Carried Forward to Summary of Section No.</p> <p>Section No. 2 4 CLASSROOM BLOCK Bill No. 13 Glazing</p>			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 14</u></p> <p><u>PAINTWORK</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>FIBRE CEMENT</u></p> <p><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></p>			
2/14/1	On internal ceilings and cornices	m2	328	
2/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	94	
	<p><u>FLOATED PLASTER INTERNAL WALLS</u></p> <p><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></p>			
2/14/3	Plastered walls	m2	379	
	Carried Forward			R
	<p>Section No. 2 4 CLASSROOM BLOCK Bill No. 14 Paintwork</p>			

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Brought Forward			R
<u>METAL SURFACES</u>			
<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>			
2/14/4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	15
2/14/5	On window frames	m2	52
2/14/6	On door frames	m2	5
2/14/7	On mild steel columns, beams, etc	m2	13
2/14/8	On gutters	m	94
2/14/9	On downpipes	m	36
<u>WOOD</u>			
<u>Prepare and paint three coats clear varnish:</u>			
2/14/10	On door	m2	13
Carried Forward to Summary of Section No.			R
Section No. 2			
4 CLASSROOM BLOCK			
Bill No. 14			
Paintwork			

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2/3	Masonry	2/10	
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2/6	Carpentry and Joinery	2/17	
2/7	Ceilings, Partitions and Access Flooring	2/20	
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	Carried to Final Summary		R
	Section No. 2 4 CLASSROOM BLOCK		

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></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><u>Filling</u></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>			
	Carried Forward		R	
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 1 Earthworks</p>			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

Brought Forward				R
<u>SITE CLEARANCE ETC</u>				
<u>Site clearance</u>				
3/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	366	
<u>EXCAVATIONS</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
3/1/2	Trenches	m3	94	
<u>Extra over excavations in earth to trenches and holes for</u>				
3/1/3	Excavation in soft rock	m3	9	
3/1/4	Excavation in hard rock	m3	5	
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>				
<u>Note:</u>				
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	54	
<u>RISK OF COLLAPSE OF EXCAVATIONS</u>				
<u>Risk of collapse to side of excavation in earth not exceeding 1.5m deep</u>				
3/1/6	Trenches and holes	m2	294	
<u>Keeping excavations free of water</u>				
3/1/7	Keeping excavations free of water		Item	
Carried Forward				R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 1 Earthworks				

**LIMPOPO DEPARTMENT OF EDUCATION
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PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R
<u>FILLING, ETC.</u>			
<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>			
3/1/8	Backfilling to trenches, holes, etc	m3	45
3/1/9	Under floors, steps, pavings, etc	m3	177
<u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
3/1/10	Backfilling to trenches, holes, etc	m3	14
3/1/11	Under floors, steps, pavings, etc	m3	39
<u>Filling supplied by the Contractor under floors, trenches, etc.</u>			
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	39
<u>COMPACTION OF SURFACES</u>			
3/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	330
<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>			
<u>Protection against termites, ants, etc</u>			
3/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	330
3/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	388
Carried Forward to Summary of Section No.			R
Section No. 3			
2 GRADE R CLASSROOM BLOCK			
Bill No. 1			
Earthworks			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></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><u>Formwork</u></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>			
	Carried Forward			R
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 2 Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;">Brought Forward</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"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <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;">Carried Forward</p> <p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 2 Concrete, Formwork and Reinforcement</p>		R	

Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15Mpa/19mm concrete</u>			
3/2/1	Blinding	m3	5
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u>			
<u>25MPa/19mm Concrete</u>			
3/2/2	Strip footings	m3	23
<u>REINFORCED CONCRETE CAST IN FORMWORK</u>			
<u>20Mpa/19mm concrete</u>			
3/2/3	Concrete Apron cast to fall etc,	m3	7
<u>25MPa/19mm Concrete</u>			
3/2/4	Surface beds cast in panels	m3	34
<u>TEST BLOCKS</u>			
<u>Notes:</u>			
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	31
Carried Forward			R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 2 Concrete, Formwork and Reinforcement			

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		Brought Forward		R
<u>SUNDRIES TO CONCRETE</u>				
<u>Surface treatment</u>				
3/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	330	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough formwork to sides</u>				
3/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	143	
<u>MOVEMENTS JOINTS ETC,</u>				
<u>Saw cuts Joints</u>				
3/2/8	3 x 30mm In saw cut joints in floors	m	34	
<u>Expansion joints</u>				
3/2/9	10mm soft board or similar approved between concrete and brick wall	m	72	
<u>REINFORCEMENT (PROVISIONAL)</u>				
<u>High and mild tensile steel reinforcement to structural concrete work</u>				
3/2/10	All diameter bars	t	2	
<u>Fabric reinforcement:</u>				
3/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	259	
Carried Forward to Summary of Section No.				R
Section No. 3				
2 GRADE R CLASSROOM BLOCK				
Bill No. 2				
Concrete, Formwork and Reinforcement				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Sizes in descriptions</u></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><u>Hollow walls etc</u></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><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	Carried Forward		R	
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 3 Masonry</p>			

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PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>BRICKWORK IN FOUNDATION</u>			
<u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u>			
3/3/1	One brick wall	m2	110
<u>SUPERSTRUCTURE BRICKWORK</u>			
<u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u>			
3/3/2	One brick wall	m2	327
3/3/3	Half brick wall	m2	65
3/3/4	Half brick wall, in beamfilling	m2	11
<u>Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond</u>			
3/3/5	360 x 230mm Brick Piers	m3	2
3/3/6	330 x 330mm Brick Piers	m3	4
<u>FACE BRICKWORK</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<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>			
3/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	220
Carried Forward			R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 3 Masonry			

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Brought Forward				R
3/3/8	Extra over brickwork for face brickwork in superstructure	m2	215	
3/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	24	
3/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	20	
3/3/11	Extra over brickwork for face brickwork to piers	m2	80	
3/3/12	Extra over brickwork for face brickwork in beamfilling	m2	11	
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement</u>				
3/3/13	75mm Wide reinforcement built in horizontally	m	190	
3/3/14	150mm Wide reinforcement built in horizontally.	m	1 642	
<u>"Allied concrete" or similar approved prestressed fabricated lintels</u>				
3/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	27	
3/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	19	
<u>Turning pieces</u>				
3/3/17	110mm Wide turning piece to flat brick lintels	m	34	
<u>Air bricks etc</u>				
3/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	5	
<u>Fair cutting to face brickwork</u>				
3/3/19	Fair raking cutting at gables	m	77	
<u>Roof ties</u>				
3/3/20	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	64	
Carried Forward				R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 3 Masonry				

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
3/4/1	Under walls	m2	3	
3/4/2	Under cills, etc.	m2	4	
	<u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u>			
3/4/3	Under surface beds.	m2	330	
	<u>JOINTS SEALANTS, ETC.</u>			
	<u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u>			
3/4/4	3 x 30mm In saw cut joints in floors	m	34	
3/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	72	
	Carried Forward to Summary of Section No.			
	Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 4 Waterproofing			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>ROOF COVERINGS</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>ROOF SHEETING</u></p> <p><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></p>			
3/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	366	
3/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	28	
3/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	21	
	Carried Forward			R
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 5 Roof Coverings</p>			

	Brought Forward			R
	<p><u>ROOF AND WALL INSULATION</u></p> <p><u>Sisalation "Bubble Foil" aluminium foil binned insulation</u></p>			
3/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	366	
	<p>Carried Forward to Summary of Section No.</p> <p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 5 Roof Coverings</p>			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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 style="text-align: right;">Carried Forward</p> <p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery</p>			R

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Brought Forward		R	
<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>			
Carried Forward		R	
<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery</p>			

Brought Forward		R
<u>ROOFS, ETC</u>		
<u>Plate nailed timber roof truss construction</u>		
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.		
Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.		
The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.		
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.		
<u>Roof trusses</u>		
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	305
<u>Sawn softwood</u>		
3/6/2	38 x 114mm Wall plates m	76
<u>Sundries</u>		
3/6/3	Two coats creosote on sawn timbers m2	28
Carried Forward		R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery		

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Brought Forward				R
<u>"Everite FC77" Fascia and badge boards</u>				
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	77	
3/6/5	15 x 80 x 300mm fibre cement barge board	m	77	
<u>DOORS ETC</u>				
<u>44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u>				
3/6/6	813 x 2032mm single door	No	4	
3/6/7	914 x 2032mm single door	No	13	
<u>WINDOWS</u>				
<u>"Nutec" fibre cement window cills</u>				
3/6/8	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	20	
Carried Forward to Summary of Section No.				
Section No. 3				
2 GRADE R CLASSROOM BLOCK				
Bill No. 6				
Carpentry and Joinery				
				R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Fixing</u></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><u>Ceilings & Bulkheads</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p>			
	Carried Forward		R	
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

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	Brought Forward			R
	<p><u>Proprietary suspended ceilings</u></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><u>Suspension systems</u></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><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>Similar Approved</u></p> <p><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></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	211	
	<p><u>CORNICES</u></p> <p><u>Similar Approved</u></p> <p><u>"Rhino" plasterboard cornice</u></p>			
3/7/2	75mm Coved cornice, plugged to brickwork	m	226	
	Carried Forward			R
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

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	Brought Forward			R
	<u>SUNDRIES</u>			
	<u>Extra over for Trap Doors</u>			
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	2	
	<u>CEILING INSULATION</u>			
	<u>Insulation</u>			
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	211	
	Carried Forward to Summary of Section No.			
	Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 8 Ironmongery</p>			

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Brought Forward		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.		
<u>DOOR FURNITURE</u>		
<u>Similar Approved</u>		
<u>Handles</u>		
3/8/1	SS 325 x 25mm straight tubular pull handle with flange fixing (Code: DPH301B)	No 4
3/8/2	SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170)	No 4
3/8/3	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 6
<u>Locks</u>		
3/8/4	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No 6
Carried Forward		R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 8 Ironmongery		

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Brought Forward			R
3/8/5	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	6
3/8/6	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	10
3/8/7	SC 150mm Cabin hook (Code: CH 150)	No	4
3/8/8	SS disabled WC indicator (red and white) and turnknob for the physically impaired (Code: DWC-006)	Sets	2.0
3/8/9	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	4.0
<u>Kick and push plates</u>			
3/8/10	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	32
3/8/11	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	4
3/8/12	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	6
<u>Signage</u>			
3/8/13	SS 150 x 150mm "DISABLED PERSONS" sign (Code: DSS-133 P)	No	2
<u>Panic hardware</u>			
3/8/14	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	4.0
3/8/15	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	4
Carried Forward			R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 8 Ironmongery			

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Brought Forward			R
<u>Door closers</u>			
3/8/16	EN 2-4 parallel arm delayed action door closer, with push side fixing (parallel arm bracket included) EN 2 750-850, EN3 850-950, EN4 950-1100 (Colour: Silver) (Code: TS73V PA DC + parallel arm bracket)	No	2
3/8/17	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	6
<u>Sundries</u>			
3/8/18	Male / Female fixing screws (Qty 4 per pack)	Sets	10.0
3/8/19	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	4
3/8/20	NP floor mounted Door stop (Code: DDS-NP-018)	No	8
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.</u>			
<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>			
3/8/21	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	2
<u>Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray</u>			
3/8/22	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	4
<u>SUNDRIES</u>			
Carried Forward			R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 8 Ironmongery			

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	Brought Forward			R
3/8/23	<p><u>Approved</u></p> <p>"CZ8730SC" Door stop or similarly approved to wall or floors</p>	No	17	
<p>Carried Forward to Summary of Section No.</p> <p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 8 Ironmongery</p>				R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>ALUMINIUM</u></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><u>SPECIFICATIONS</u></p> <p>User Note:</p> <p><u>Glazing</u></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><u>Ironmongery</u></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>			
	Carried Forward		R	
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 9 Metalwork</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></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><u>Installation</u></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><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 9 Metalwork</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><u>Fixing:</u></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><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></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><u>Protection:</u></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><u>Cleaning:</u></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;">Carried Forward</p> <p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 9 Metalwork</p>		R	

Brought Forward			R
<u>WELDED SCREENS, GATES, ETC.</u>			
<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>			
3/9/1	Steel gate to door, size 914 x 2032mm high	No	4
<u>PRESSED STEEL DOOR FRAMES</u>			
<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>			
3/9/2	813 x 2032mm single door	No	4
3/9/3	914 x 2032mm single door	No	6
<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>			
3/9/4	914 x 2032mm single door	No	7
<u>WINDOWS FRAMES, etc.</u>			
<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>			
3/9/5	Window size 881 x 1240mm high	No	12
3/9/6	Window size 881 x 820mm high	No	8
3/9/7	Window size 534 x 648mm high	No	4
Carried Forward to Summary of Section No.			R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 9 Metalwork			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>SCREEDS</u>			
	<u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u>			
3/10/1	30mm Thick on floors and landings	m2	174	
3/10/2	30mm Thick to falls and currents	m2	7	
	<u>INTERNAL PLASTER</u>			
	<u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u>			
3/10/3	On brick walls	m2	496	
3/10/4	On narrow widths	m2	50	
	<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
3/10/5	Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	100	
	Carried Forward to Summary of Section No.			
	Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 10 Plastering			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 11</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Pricing</u></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><u>Fixing</u></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><u>Wastage</u></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p>			
	Carried Forward		R	
	<p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 11 Tiling</p>			

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Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No. 1, shall equally apply to this Bill.			
<u>Note</u>			
All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.			
<u>WALL TILING</u>			
<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>			
3/11/1	Splash backs	m2	1
<u>FLOOR TILING</u>			
<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>			
3/11/2	On floors	m2	180
3/11/3	75mm high skirting	m	156
<u>ATTIC STOCK</u>			
3/11/4	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	18
<u>SUNDRIES</u>			
<u>10mm aluminium straight edge trim</u>			
3/11/5	Dividing strip between tiles and door frames	m	4
Carried Forward to Summary of Section No.			R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 11 Tiling			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></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 style="text-align: right;">Carried Forward</p> <p>Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage</p>			R

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Brought Forward				R
<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				
<u>GENERAL NOTES TO TENDERERS</u>				
General notes, described in Bill No.1, shall equally apply to this Bill.				
<u>RAINWATER GOODS</u>				
<u>Gutters</u>				
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	77	
3/12/2	Extra over eaves gutter for stopped end	No	8	
3/12/3	Extra over eaves gutter for corner	No	33	
3/12/4	Extra over eaves gutter for outlet	No	8	
<u>Rainwater downpipes</u>				
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	28	
3/12/6	Extra over downpipe for offset	No	16	
3/12/7	Extra over downpipe for shoe	No	8	
<u>SANITARY FITTINGS</u>				
Refer to sanitary schedule drawing for full description of abbreviations				
Carried Forward				R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward			R
	<u>WASH HAND BASINS</u>			
	<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>			
3/12/8	WHB, installed complete	No	4	
	<u>WATER CLOSET</u>			
	<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>			
3/12/9	WC, installed complete	No	2	
	<u>Vaal Sanitaryware "Pearl Paraplegic" semi-close coupled water closet, comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cisten, including dog leg twice bent 45 degrees and straight cistern back grab rail, including purpose made chromium plated side-flush lever. (PC allowance of R9 300.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>			
3/12/10	Paraplegic WC, installed complete	No	2	
	<u>SINKS, etc.</u>			
	<u>Stainless steel single bowl sink, size 1350 x 457mm complete on and including integrated supports and legs (PC allowance of R1500.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>			
3/12/11	Stainless steel Sink, complete.	No	2	
	Carried Forward			R
	Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage			

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Brought Forward			R
<u>CHROME PLATED WASTE UNIONS, ETC.</u>			
<u>(Supply & Fit)</u>			
3/12/12	32mm Basin waste union	No	4
3/12/13	38mm Sink waste union	No	2
<u>TOILET ROLL HOLDER</u>			
<u>To be approved by Architect</u>			
3/12/14	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	2
<u>SOAP DISPENSER</u>			
<u>To be approved by Architect</u>			
3/12/15	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	3
<u>PAPER TOWEL DISPENSER</u>			
<u>To be approved by Architect</u>			
3/12/16	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	2
<u>TAPS, VALVES, ETC</u>			
<u>Similar Approved</u>			
3/12/17	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	2
3/12/18	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	2
Carried Forward			R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R
<u>FIRE FIGHTING EQUIPMENT</u>			
<u>Extinguishers including initial charge and setting up in position:</u>			
3/12/19	9kg dry chemical powder fire extinguisher	No	2
3/12/20	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2
<u>TESTING</u>			
3/12/21	Testing water pipe system		Item
<u>BUDGETARY ALLOWANCE</u>			
3/12/22	Allow an amount of R170 000.00 (One Hundred and Seventy Thousand) for the supply and installation of Sanitary Fitting Sundries		Item 170 000.00
Carried Forward to Summary of Section No.			R
Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage			

**LIMPOPO DEPARTMENT OF EDUCATION
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	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			
	<u>GLASS TO STEEL WITH PUTTY</u>			
	<u>5mm clear floated glass fixed glazing putty</u>			
3/13/1	Panes not exceeding 0.1m2	m2	19	
	<u>6mm obscure floated glass fixed glazing putty</u>			
3/13/2	Panes not exceeding 0.1m2	m2	1	
	<u>TOPS, SHELVES, DOORS, MIRROR ETC</u>			
	<u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u>			
3/13/3	Mirror 400 x 600 mm high	No	2	
	Carried Forward to Summary of Section No.			
	Section No. 3			
	2 GRADE R CLASSROOM BLOCK			
	Bill No. 13			
	Glazing			
				R

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PHAPHAMANI PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>FIBRE CEMENT</u>			
	<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>			
3/14/1	On internal ceilings and cornices	m2	230	
3/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	155	
	<u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u>			
3/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	20	
	Carried Forward			R
	Section No. 3 2 GRADE R CLASSROOM BLOCK Bill No. 14 Paintwork			

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PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R
<u>FLOATED PLASTER INTERNAL WALLS</u>			
<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	496
<u>METAL SURFACES</u>			
<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	19
3/14/6	On window frames	m2	20
3/14/7	On door frames	m2	22
3/14/8	On gutters	m	77
3/14/9	On downpipes	m	28
<u>WOOD</u>			
<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	40
<u>Prepare and paint three coats clear varnish:</u>			
3/14/11	On door	m2	16
Carried Forward to Summary of Section No.			R
Section No. 3			
2 GRADE R CLASSROOM BLOCK			
Bill No. 14			
Paintwork			

**LIMPOPO DEPARTMENT OF EDUCATION
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Bill No	SECTION SUMMARY	Page No	Amount
3/1	Earthworks	3/3	
3/2	Concrete, Formwork and Reinforcement	3/7	
3/3	Masonry	3/11	
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	3/26	
3/9	Metalwork	3/30	
3/10	Plastering	3/31	
3/11	Tiling	3/33	
3/12	Plumbing and Drainage	3/38	
3/13	Glazing	3/39	
3/14	Paintwork	3/41	
	Carried to Final Summary		
	Section No. 3 2 GRADE R CLASSROOM BLOCK		R

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></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><u>Filling</u></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>			
	Carried Forward		R	
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 1 Earthworks</p>			

Brought Forward				R
<u>SITE CLEARANCE ETC</u>				
<u>Site clearance</u>				
4/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	266	
<u>EXCAVATIONS</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
4/1/2	Trenches	m3	74	
<u>Extra over excavations in earth to trenches and holes for</u>				
4/1/3	Excavation in soft rock	m3	7	
4/1/4	Excavation in hard rock	m3	4	
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>				
<u>Note:</u>				
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.				
4/1/5	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	43	
<u>RISK OF COLLAPSE OF EXCAVATIONS</u>				
<u>Risk of collapse to side of excavation in earth not exceeding 1.5m deep</u>				
4/1/6	Trenches and holes	m2	238	
<u>Keeping excavations free of water</u>				
4/1/7	Keeping excavations free of water		Item	
Carried Forward				R
Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 1 Earthworks				

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R
<u>FILLING, ETC.</u>			
<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>			
4/1/8	Backfilling to trenches, holes, etc	m3	35
4/1/9	Under floors, steps, pavings, etc	m3	126
<u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
4/1/10	Backfilling to trenches, holes, etc	m3	11
4/1/11	Under floors, steps, pavings, etc	m3	27
<u>Filling supplied by the Contractor under floors, trenches, etc.</u>			
4/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	27
<u>COMPACTION OF SURFACES</u>			
4/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	240
<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>			
<u>Protection against termites, ants, etc</u>			
4/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	240
4/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	312
Carried Forward to Summary of Section No.			R
Section No. 4			
SMALL ADMINISTRATION BLOCK			
Bill No. 1			
Earthworks			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></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><u>Formwork</u></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>			
	Carried Forward			R
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 2 Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;">Brought Forward</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"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <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;">Carried Forward</p> <p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 2 Concrete, Formwork and Reinforcement</p>			R	

Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15Mpa/19mm concrete</u>			
4/2/1	Blinding	m3	4
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u>			
<u>25MPa/19mm Concrete</u>			
4/2/2	Strip footings	m3	18
<u>REINFORCED CONCRETE CAST IN FORMWORK</u>			
<u>20Mpa/19mm concrete</u>			
4/2/3	Concrete Apron cast to fall etc,	m3	6
<u>25MPa/19mm Concrete</u>			
4/2/4	Surface beds cast in panels	m3	23
<u>TEST BLOCKS</u>			
<u>Notes:</u>			
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)			
4/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	23
Carried Forward			R
Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 2 Concrete, Formwork and Reinforcement			

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Brought Forward			R
<u>SUNDRIES TO CONCRETE</u>			
<u>Surface treatment</u>			
4/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	240
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Rough formwork to sides</u>			
4/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	118
<u>MOVEMENTS JOINTS ETC,</u>			
<u>Expansion joints</u>			
4/2/8	10mm soft board or similar approved between concrete and brick wall	m	58
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High and mild tensile steel reinforcement to structural concrete work</u>			
4/2/9	All diameter bars	t	1
<u>Fabric reinforcement:</u>			
4/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	179
Carried Forward to Summary of Section No.			R
Section No. 4			
SMALL ADMINISTRATION BLOCK			
Bill No. 2			
Concrete, Formwork and Reinforcement			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Sizes in descriptions</u></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><u>Hollow walls etc</u></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><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	Carried Forward		R	
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 3 Masonry</p>			

Brought Forward			R
<p><u>Pointing</u></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><u>BRICKWORK IN FOUNDATION</u></p>			
<p><u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u></p>			
4/3/1	One brick wall	m2	89
<p><u>SUPERSTRUCTURE BRICKWORK</u></p>			
<p><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></p>			
4/3/2	One brick wall	m2	223
4/3/3	Half brick wall	m2	133
<p><u>Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond</u></p>			
4/3/4	330 x 330mm Brick Piers	m3	1
<p><u>Mass brickwork in L-shaped piers of NFP brick in class II mortar laid in stretcher bond</u></p>			
4/3/5	310 x 330mm L-shaped Brick Piers	m3	0.5
<p><u>FACE BRICKWORK</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
<p><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></p>			
4/3/6	Extra over brickwork for face brickwork in foundations (Provisional)	m2	178
Carried Forward			R
<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 3 Masonry</p>			

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Brought Forward			R
4/3/7	Extra over brickwork for face brickwork in superstructure	m2	239
4/3/8	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	26
4/3/9	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	22
4/3/10	Extra over brickwork for face brickwork to piers	m2	14
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
4/3/11	75mm Wide reinforcement built in horizontally	m	391
4/3/12	150mm Wide reinforcement built in horizontally.	m	1 190
<u>"Allied concrete" or similar approved prestressed fabricated lintels</u>			
4/3/13	100 x 70mm Lintels in lengths not exceeding 3m	m	29
4/3/14	175 x 70mm Lintels in lengths not exceeding 3m	m	9
<u>Turning pieces</u>			
4/3/15	110mm Wide turning piece to flat brick lintels	m	29
<u>Air bricks etc</u>			
4/3/16	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	2
<u>Fair cutting to face brickwork</u>			
4/3/17	Fair raking cutting at gables	m	27
<u>Roof ties</u>			
4/3/18	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	50
Carried Forward			R
Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 3 Masonry			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
4/4/1	Under cills, etc.	m2	5	
	<u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u>			
4/4/2	Under surface beds.	m2	240	
	<u>JOINTS SEALANTS, ETC.</u>			
	<u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u>			
4/4/3	10mm Isolation Joints between surface bed concrete and brick wall	m	58	
	Carried Forward to Summary of Section No.			
	Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 4 Waterproofing			R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>ROOF SHEETING</u>			
	<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>			
4/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	237	
4/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	22	
4/5/3	550mm girth close cut and mitred Valley gutter, 4 times bent and including soakers, etc	m	6	
	Carried Forward			R
	Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 5 Roof Coverings			

	Brought Forward			R
	<u>ROOF AND WALL INSULATION</u>			
	<u>Sisalation "Bubble Foil" aluminium foil binded insulation</u>			
4/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	237	
	Carried Forward to Summary of Section No.			
	Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 5 Roof Coverings			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery</p>			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

<p style="text-align: center;">Brought Forward</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;">Carried Forward</p> <p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery</p>			R	

	Brought Forward			R
	<p><u>ROOFS, ETC</u></p> <p><u>Plate nailed timber roof truss construction</u></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>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</p> <p>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</p> <p>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.</p> <p><u>Roof trusses</u></p> <p>4/6/1 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 197</p> <p><u>Sawn softwood</u></p> <p>4/6/2 38 x 114mm Wall plates m 60</p> <p><u>Sundries</u></p> <p>4/6/3 Two coats creosote on sawn timbers m2 22</p>			
	Carried Forward			R
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery</p>			

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Brought Forward				R
<u>"Everite FC77" Fascia and badge boards</u>				
4/6/4	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	35	
4/6/5	15 x 80 x 300mm fibre cement barge board	m	27	
<u>DOORS ETC</u>				
<u>44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u>				
4/6/6	914 x 2032mm single door	No	6	
<u>WINDOWS</u>				
<u>"Nutec" fibre cement window cills</u>				
4/6/7	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	22	
Carried Forward to Summary of Section No.				R
Section No. 4				
SMALL ADMINISTRATION BLOCK				
Bill No. 6				
Carpentry and Joinery				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Fixing</u></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><u>Ceilings & Bulkheads</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p>			
	Carried Forward		R	
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

	Brought Forward			R
	<p><u>Proprietary suspended ceilings</u></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><u>Suspension systems</u></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><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>Similar Approved</u></p> <p><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></p>			
4/7/1	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	144	
	<p><u>CORNICES</u></p> <p><u>Similar Approved</u></p> <p><u>"Rhino" plasterboard cornice</u></p>			
4/7/2	75mm Coved cornice, plugged to brickwork	m	169	
	Carried Forward			R
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

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	Brought Forward			R
	<u>SUNDRIES</u>			
	<u>Extra over for Trap Doors</u>			
4/7/3	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	
	<u>CEILING INSULATION</u>			
	<u>Insulation</u>			
4/7/4	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	144	
	Carried Forward to Summary of Section No.			
	Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 8 Ironmongery</p>			

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	Brought Forward			R
	<p><u>Finishes to ironmongery</u></p> <p>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</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><u>DOOR FURNITURE</u></p> <p><u>Similar Approved</u></p> <p><u>Handles</u></p>			
4/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)	Sets	2.0	
4/8/2	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	6	
	<p><u>Locks</u></p>			
4/8/3	SS Cylinder sash lock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset and 61mm centre (Code: D036S SS)	No	2	
	Carried Forward			R
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 8 Ironmongery</p>			

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Brought Forward				R
4/8/4	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	6	
4/8/5	SN 66mm five pin Euro-profile double cylinder master keyed (Code: DDC106601 MK)	No	2	
4/8/6	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	6	
4/8/7	NP Rebate conversion kit for Euro-profile locks D036S, D037D (Code: D038R NP)	No	2	
4/8/8	SC heavy duty 150 x 32mm Barrel bolt (Code: BHD 150)	No	2	
4/8/9	SC heavy duty 150 x 32mm Necked barrel bolt (Code: NBHD 150)	No	2	
4/8/10	SC 150mm Cabin hook (Code: CH 150)	No	4	
<u>Kick and push plates</u>				
4/8/11	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	20	
4/8/12	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	6	
<u>Door closers</u>				
4/8/13	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	6	
<u>Sundries</u>				
4/8/14	Male / Female fixing screws (Qty 4 per pack)	Sets	6.0	
4/8/15	NP floor mounted Door stop (Code: DDS-NP-018)	No	6	
Carried Forward				R
Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 8 Ironmongery				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>ALUMINIUM</u></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><u>SPECIFICATIONS</u></p> <p>User Note:</p> <p><u>Glazing</u></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><u>Ironmongery</u></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>			
	Carried Forward		R	
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 9 Metalwork</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></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><u>Installation</u></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><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 9 Metalwork</p>			R	

<p style="text-align: center;">Brought Forward</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><u>Fixing:</u></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><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></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><u>Protection:</u></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><u>Cleaning:</u></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;">Carried Forward</p> <p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 9 Metalwork</p>		R	

Brought Forward				R
<u>WELDED SCREENS, GATES, ETC.</u>				
<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>				
4/9/1	Steel gate to door, size 1015 x 2100mm high	No	2	
<u>PRESSED STEEL DOOR FRAMES</u>				
<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>				
4/9/2	914 x 2032mm single door	No	6	
<u>STRONG ROOM DOORS ETC, SUITABLE FOR 220MM WALLS FIXED TO BRICKWORK AND CONCRETE</u>				
<u>DS-70mm SABS Category 2 ADM strong room door, 190mm thick and steel frame, 813 x 2032mm including 8 bolts of 40 diameter-4 front and 4 back, 2x7- lever security keylock, non-deteriorating insulation material, rust proof undercoat for final painting by contractors, weight- 630 kg</u>				
4/9/3	Door size 813 x 2032mm	No	1	
<u>WINDOWS FRAMES, etc.</u>				
Carried Forward				R
Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 9 Metalwork				

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Brought Forward			R
<p><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></p>			
4/9/4	Window size 1200 x 1800mm high	No	13
4/9/5	Window size 1200 x 1200mm high	No	2
4/9/6	Window size 900 x 1200mm high	No	2
4/9/7	Window size 900 x 1240mm high	No	2
Carried Forward			R
<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 9 Metalwork</p>			

	Brought Forward			R
	<p><u>ALUMINIUM WINDOWS, DOORS, ETC</u></p> <p><u>Extruded aluminium door frame in configuration with glazed double doors, with laminated safety glass accordingly to ISO 9001:200 Quality Management Standards, including installation of ironmongery, actuators, smoke seal around door frame and all necessary framework, doors, spandrels panels, sealants, closure pieces, gaskets etc, all complete to architect's approval and as per architect's drawings and specifications</u></p>			
4/9/8	Size 1015mm x 2100mm	No	2	
	<p><u>FLAG POST</u></p>			
4/9/9	2 x 15m high flag poles bolted to steel channel (211mm x 100mm) & channel to be anchored in concrete bases		Item	
	<p>Carried Forward to Summary of Section No.</p>			
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 9 Metalwork</p>			R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>SCREEDS</u>			
	<u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u>			
4/10/1	30mm Thick on floors and landings	m2	153	
	<u>Granolithic screed on concrete, worked down to a true and even surface with a wood trowel</u>			
4/10/2	30mm Thick on floors	m2	7	
	<u>INTERNAL PLASTER</u>			
	<u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u>			
4/10/3	On brick walls	m2	516	
4/10/4	On narrow widths	m2	52	
	Carried Forward			R
	Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 10 Plastering			

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	Brought Forward			R
	<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
4/10/5	Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	2	
4/10/6	38 x 1.2mm Aluminium retro-fit similar approved corner protector installed as per manufactures recommendation and specification.	m	9	
	Carried Forward to Summary of Section No.			R
	Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 10 Plastering			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 11</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Pricing</u></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><u>Fixing</u></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><u>Wastage</u></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p>			
	Carried Forward		R	
	<p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 11 Tiling</p>			

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Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No. 1, shall equally apply to this Bill.			
<u>Note</u>			
All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.			
<u>WALL TILING</u>			
<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>			
4/11/1	Splash backs	m2	1
<u>FLOOR TILING</u>			
<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>			
4/11/2	On floors	m2	153
4/11/3	75mm high skirting	m	172
<u>ATTIC STOCK</u>			
4/11/4	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	15
<u>SUNDRIES</u>			
<u>10mm aluminium straight edge trim</u>			
4/11/5	Dividing strip between tiles and door frames	m	4
Carried Forward to Summary of Section No.			R
Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 11 Tiling			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></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 style="text-align: right;">Carried Forward</p> <p>Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage</p>			R

**LIMPOPO DEPARTMENT OF EDUCATION
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Brought Forward				R
<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				
<u>GENERAL NOTES TO TENDERERS</u>				
General notes, described in Bill No.1, shall equally apply to this Bill.				
<u>RAINWATER GOODS</u>				
<u>Gutters</u>				
4/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	35	
4/12/2	Extra over eaves gutter for stopped end	No	6	
4/12/3	Extra over eaves gutter for corner	No	17	
4/12/4	Extra over eaves gutter for outlet	No	4	
<u>Rainwater downpipes</u>				
4/12/5	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	14	
4/12/6	Extra over downpipe for offset	No	8	
4/12/7	Extra over downpipe for shoe	No	4	
Carried Forward				R
Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage				

Brought Forward			R
<u>WASH HAND BASINS</u>			
<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>			
4/12/8	WHB, installed complete	No	1
<u>WATER CLOSET</u>			
<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>			
4/12/9	WC, installed complete	No	2
<u>CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)</u>			
4/12/10	32mm Basin waste union	No	1
<u>TOILET ROLL HOLDER</u>			
<u>To be approved by Architect</u>			
4/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	2
<u>SOAP DISPENSER</u>			
<u>To be approved by Architect</u>			
4/12/12	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	1
Carried Forward			R
Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	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			
	<u>GLASS TO STEEL WITH PUTTY</u>			
	<u>6mm obscure floated glass fixed glazing putty</u>			
4/13/1	Panes exceeding 0.1m ² and not exceeding 0.5m ²	m ²	35	
	<u>TOPS, SHELVES, DOORS, MIRROR ETC</u>			
	<u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u>			
4/13/2	Mirror 400 x 600 mm high	No	1	
	Carried Forward to Summary of Section No.			
	Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 13 Glazing			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 14</u></p> <p><u>PAINTWORK</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>PAINTWORK TO PREVIOUS PAINTED</u></p> <p><u>FIBRE CEMENT</u></p> <p><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></p>			
4/14/1	On internal ceilings and cornices	m2	158	
4/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	62	
	<p><u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u></p>			
4/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	22	
	Carried Forward			R
	Section No. 4 SMALL ADMINISTRATION BLOCK Bill No. 14 Paintwork			

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Brought Forward			R
<u>FLOATED PLASTER INTERNAL WALLS</u>			
<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>			
4/14/4	Plastered walls	m2	516
<u>METAL SURFACES</u>			
<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>			
4/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	10
4/14/6	On window frames	m2	35
4/14/7	On door frames	m2	10
4/14/8	On gutters	m	35
4/14/9	On downpipes	m	14
<u>WOOD</u>			
<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u>			
4/14/10	On door	m2	20
<u>Prepare and paint three coats clear varnish:</u>			
4/14/11	On door	m2	9
Carried Forward to Summary of Section No.			R
Section No. 4			
SMALL ADMINISTRATION BLOCK			
Bill No. 14			
Paintwork			

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	Carried to Final Summary		
	Section No. 4 SMALL ADMINISTRATION BLOCK		R

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></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><u>Filling</u></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>			
	Carried Forward		R	
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 1 Earthworks</p>			

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Brought Forward			R
<u>EXCAVATIONS</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
5/1/1	Trenches	m3	18
<u>Extra over excavations in earth to trenches and holes for</u>			
5/1/2	Excavation in soft rock	m3	2
5/1/3	Excavation in hard rock	m3	1
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
<u>Note:</u>			
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.			
5/1/4	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	11
<u>RISK OF COLLAPSE OF EXCAVATIONS</u>			
<u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u>			
5/1/5	Trenches and holes	m2	63
<u>Keeping excavations free of water</u>			
5/1/6	Keeping excavations free of water		Item
<u>FILLING, ETC.</u>			
<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>			
5/1/7	Backfilling to trenches, holes, etc	m3	8
5/1/8	Under floors, steps, pavings, etc	m3	20
Carried Forward			R
Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 1 Earthworks			

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PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R
<u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
5/1/9	Backfilling to trenches, holes, etc	m3	3
5/1/10	Under floors, steps, pavings, etc	m3	3
<u>Filling supplied by the Contractor under floors, trenches, etc.</u>			
5/1/11	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	3
<u>COMPACTION OF SURFACES</u>			
5/1/12	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	44
<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>			
<u>Protection against termites, ants, etc</u>			
5/1/13	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	44
5/1/14	To bottom and sides of excavated trenches, Holes, etc.	m2	81
Carried Forward to Summary of Section No.			R
Section No. 5			
4 SEATS WATERBORNE TOILET BLOCK			
Bill No. 1			
Earthworks			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></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><u>Formwork</u></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>			
	Carried Forward			R
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;">Brought Forward</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"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <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;">Carried Forward</p> <p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement</p>		R	

Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15Mpa/19mm concrete</u>			
5/2/1	Blinding	m3	1
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u>			
<u>25MPa/19mm Concrete</u>			
5/2/2	Strip footings	m3	5
<u>REINFORCED CONCRETE CAST IN FORMWORK</u>			
<u>20Mpa/19mm concrete</u>			
5/2/3	Concrete Apron cast to fall etc,	m3	2
<u>25MPa/19mm Concrete</u>			
5/2/4	Surface beds cast in panels	m3	3
<u>TEST BLOCKS</u>			
<u>Notes:</u>			
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)			
5/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5
Carried Forward			R
Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement			

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		Brought Forward		R
<u>SUNDRIES TO CONCRETE</u>				
<u>Surface treatment</u>				
5/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	44	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough formwork to sides</u>				
5/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	45	
<u>Rough formwork to soffits</u>				
<u>MOVEMENTS JOINTS ETC,</u>				
<u>Expansion joints</u>				
5/2/8	10mm soft board or similar approved between concrete and brick wall	m	22	
<u>REINFORCEMENT (PROVISIONAL)</u>				
<u>High and mild tensile steel reinforcement to structural concrete work</u>				
5/2/9	All diameter bars	t	0.4	
<u>Fabric reinforcement:</u>				
5/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	22	
Carried Forward to Summary of Section No.				R
Section No. 5				
4 SEATS WATERBORNE TOILET BLOCK				
Bill No. 2				
Concrete, Formwork and Reinforcement				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Sizes in descriptions</u></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><u>Hollow walls etc</u></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><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	Carried Forward		R	
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 3 Masonry</p>			

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Brought Forward			R
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>BRICKWORK IN FOUNDATION</u>			
<u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u>			
5/3/1	One brick wall	m2	24
<u>SUPERSTRUCTURE BRICKWORK</u>			
<u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u>			
5/3/2	One brick wall	m2	74
5/3/3	Half brick wall	m2	22
5/3/4	Half brick wall, in beamfilling	m2	3
<u>FACE BRICKWORK</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<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>			
5/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	47
5/3/6	Extra over brickwork for face brickwork in superstructure	m2	64
5/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	4
Carried Forward			R
Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 3 Masonry			

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Brought Forward			R
5/3/8	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	4
5/3/9	Extra over brickwork for face brickwork in beamfilling	m2	3
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
5/3/10	75mm Wide reinforcement built in horizontally	m	66
5/3/11	150mm Wide reinforcement built in horizontally.	m	357
<u>"Allied concrete" or similar approved prestressed fabricated lintels</u>			
5/3/12	100 x 70mm Lintels in lengths not exceeding 3m	m	5
5/3/13	175 x 70mm Lintels in lengths not exceeding 3m	m	5
<u>Turning pieces</u>			
5/3/14	110mm Wide turning piece to flat brick lintels	m	8
<u>Air bricks etc</u>			
5/3/15	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	2
<u>Fair cutting to face brickwork</u>			
5/3/16	Fair raking cutting at gables	m	23
<u>Roof ties</u>			
5/3/17	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	19
<u>MOVEMENTS JOINTS ETC,</u>			
<u>Expansion joints</u>			
5/3/18	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	4
Carried Forward to Summary of Section No.			R
Section No. 5			
4 SEATS WATERBORNE TOILET BLOCK			
Bill No. 3			
Masonry			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
5/4/1	Under walls	m2	1	
5/4/2	Under cills, etc.	m2	1	
	<u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u>			
5/4/3	Under surface beds.	m2	44	
	<u>JOINTS SEALANTS, ETC.</u>			
	<u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u>			
5/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	22	
	Carried Forward to Summary of Section No.			
	Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 4 Waterproofing			R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>ROOF SHEETING</u>			
	<u>Similar Approved</u>			
	<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>			
5/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	37	
5/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	6	
5/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	10	
	Carried Forward			R
	Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 5 Roof Coverings			

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	Brought Forward				
	<u>LOUVRES</u>				R
	<u>Similar Approved</u>				
	<u>NTY Steelworks purpose-made louvre panels fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories etc., pre-painted to match roof sheeting</u>				
5/5/4	Steel triangular louvre, 1600 x 600mm high overall	No	2		
	<u>ROOF AND WALL INSULATION</u>				
	<u>Similar Approved</u>				
	<u>Sisalation "Bubble Foil" aluminium foil binded insulation</u>				
5/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	37		
	Carried Forward to Summary of Section No.				R
	Section No. 5				
	4 SEATS WATERBORNE TOILET BLOCK				
	Bill No. 5				
	Roof Coverings				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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 style="text-align: right;">Carried Forward</p> <p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 6 Carpentry and Joinery</p>			R

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Brought Forward		R	
<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>			
Carried Forward		R	
<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 6 Carpentry and Joinery</p>			

	Brought Forward			R
	<p><u>ROOFS, ETC</u></p> <p><u>Plate nailed timber roof truss construction</u></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>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</p> <p>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</p> <p>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.</p> <p><u>Roof trusses</u></p> <p>5/6/1 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 31</p> <p><u>Sawn softwood</u></p> <p>5/6/2 38 x 114mm Wall plates m 22</p> <p><u>Sundries</u></p> <p>5/6/3 Two coats creosote on sawn timbers m2 8</p>			
	Carried Forward			R
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 6 Carpentry and Joinery</p>			

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Brought Forward			R
<u>Similar Approved</u>			
<u>"Everite FC77" Fascia and badge boards</u>			
5/6/4	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	23
5/6/5	15 x 80 x 300mm fibre cement barge board	m	23
<u>DOORS ETC</u>			
<u>44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u>			
5/6/6	813 x 2032mm single door	No	4
5/6/7	914 x 2032mm single door	No	2
<u>WINDOWS</u>			
<u>Similar Approved</u>			
<u>"Nutec" fibre cement window cills</u>			
5/6/8	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	4
Carried Forward to Summary of Section No.			R
Section No. 5			
4 SEATS WATERBORNE TOILET BLOCK			
Bill No. 6			
Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Fixing</u></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><u>Ceilings & Bulkheads</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p>			
	Carried Forward		R	
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

	Brought Forward			R
	<p><u>Proprietary suspended ceilings</u></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><u>Suspension systems</u></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><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>Similar Approved</u></p> <p><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></p>			
5/7/1	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	14	
	<p><u>CORNICES</u></p> <p><u>"Rhino" plasterboard cornice</u></p>			
5/7/2	75mm Coved cornice, plugged to brickwork	m	16	
	Carried Forward			R
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring</p>			

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	Brought Forward			R
	<u>SUNDRIES</u>			
	<u>Extra over for Trap Doors</u>			
5/7/3	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	
	<u>CEILING INSULATION</u>			
	<u>Insulation</u>			
5/7/4	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	14	
	Carried Forward to Summary of Section No.			
	Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 8 Ironmongery</p>			

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PHAPHAMANI PRIMARY SCHOOL**

Brought Forward		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.		
<u>DOOR FURNITURE</u>		
<u>Similar Approved</u>		
<u>Handles</u>		
5/8/1	SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170)	No 4
<u>Locks</u>		
5/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No 4
5/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No 2
5/8/4	SC 150mm Cabin hook (Code: CH 150)	No 2
5/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets 4.0
Carried Forward		R
Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 8 Ironmongery		

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Brought Forward			R
<u>Kick and push plates</u>			
5/8/6	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	12
5/8/7	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	4
<u>Panic hardware</u>			
5/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	2.0
5/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	2
<u>Sundries</u>			
5/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	4.0
5/8/11	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	4
<u>SUNDRIES</u>			
<u>Approved</u>			
5/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	4
Carried Forward to Summary of Section No.			R
Section No. 5			
4 SEATS WATERBORNE TOILET BLOCK			
Bill No. 8			
Ironmongery			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>ALUMINIUM</u></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><u>SPECIFICATIONS</u></p> <p>User Note:</p> <p><u>Glazing</u></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><u>Ironmongery</u></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>			
	Carried Forward		R	
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 9 Metalwork</p>			

	Brought Forward		R
<p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></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><u>Installation</u></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><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>			
Carried Forward			
<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 9 Metalwork</p>			R

<p style="text-align: center;">Brought Forward</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><u>Fixing:</u></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><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></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><u>Protection:</u></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><u>Cleaning:</u></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;">Carried Forward</p> <p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 9 Metalwork</p>			R	

Brought Forward				R
<u>PRESSED STEEL DOOR FRAMES</u>				
<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>				
5/9/1	813 x 2032mm single door	No	4	
<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>				
5/9/2	914 x 2032mm single door	No	2	
<u>WINDOWS FRAMES, etc.</u>				
<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>				
5/9/3	Window size 1022 x 949mm high	No	4	
Carried Forward to Summary of Section No.				
Section No. 5				
4 SEATS WATERBORNE TOILET BLOCK				
Bill No. 9				
Metalwork				
				R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>SCREEDS</u>			
	<u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u>			
5/10/1	30mm Thick on floors and landings	m2	33	
5/10/2	30mm Thick to falls and currents	m2	3	
	<u>INTERNAL PLASTER</u>			
	<u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u>			
5/10/3	On brick walls	m2	115	
5/10/4	On narrow widths	m2	12	
	Carried Forward to Summary of Section No.			
	Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 10 Plastering			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 11</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Pricing</u></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><u>Fixing</u></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><u>Wastage</u></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p>			
	Carried Forward		R	
	<p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 11 Tiling</p>			

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Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No. 1, shall equally apply to this Bill.			
<u>Note</u>			
All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.			
<u>WALL TILING</u>			
<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>			
5/11/1	Plastered walls	m2	62
5/11/2	On narrow widths	m2	6
5/11/3	Splash backs	m2	1
<u>FLOOR TILING</u>			
<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>			
5/11/4	On floors	m2	37
5/11/5	75mm high skirting	m	81
<u>ATTIC STOCK</u>			
5/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	6
5/11/7	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	4
Carried Forward to Summary of Section No.			R
Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 11 Tiling			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></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 style="text-align: right;">Carried Forward</p> <p>Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage</p>			R

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Brought Forward			R
<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			
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<u>RAINWATER GOODS</u>			
<u>Similar Approved</u>			
<u>Gutters</u>			
5/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	23
5/12/2	Extra over eaves gutter for stopped end	No	8
5/12/3	Extra over eaves gutter for corner	No	17
5/12/4	Extra over eaves gutter for outlet	No	4
<u>Rainwater downpipes</u>			
5/12/5	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	14
5/12/6	Extra over downpipe for offset	No	8
5/12/7	Extra over downpipe for shoe	No	4
<u>SANITARY FITTINGS</u>			
Refer to sanitary schedule drawing for full description of abbreviations			
Carried Forward			R
Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage			

		Brought Forward		R
		<u>WASH HAND BASINS</u>		
		<u>Similar Approved</u>		
		<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>		
5/12/8	WHB, installed complete	No	4	
		<u>WATER CLOSET</u>		
		<u>Similar Approved</u>		
		<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>		
5/12/9	WC, installed complete	No	4	
		<u>TOILET ROLL HOLDER</u>		
		<u>To be approved by Architect</u>		
5/12/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	4	
		<u>SOAP DISPENSER</u>		
		<u>To be approved by Architect</u>		
5/12/11	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	1	
		Carried Forward		
		R		
Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage				

**LIMPOPO DEPARTMENT OF EDUCATION
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Brought Forward			R
<u>PAPER TOWEL DISPENSER</u>			
<u>To be approved by Architect</u>			
5/12/12	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	1
<u>TAPS, VALVES, ETC</u>			
<u>Similar Approved</u>			
5/12/13	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	4
<u>TESTING</u>			
5/12/14	Testing water pipe system		Item
<u>BUDGETARY ALLOWANCE</u>			
5/12/15	Allow an amount of R107 380.80 (One Hundred and Seven Thousand Three Hundred and Eighty and Eighty) for the supply and installation of Sanitary Fitting Sundries		Item
Carried Forward to Summary of Section No.			
Section No. 5			R
4 SEATS WATERBORNE TOILET BLOCK			
Bill No. 12			
Plumbing and Drainage			107 380.80

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 13</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	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			
	<u>GLASS TO STEEL WITH PUTTY</u>			
	<u>5mm clear floated glass fixed glazing putty</u>			
5/13/1	Panes not exceeding 0.1m2	m2	4	
	<u>TOPS, SHELVES, DOORS, MIRROR ETC</u>			
	<u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u>			
5/13/2	Mirror 400 x 600 mm high	No	4	
	Carried Forward to Summary of Section No.			R
	Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 13 Glazing			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>FIBRE CEMENT</u>			
	<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>			
5/14/1	On internal ceilings and cornices	m2	16	
5/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	46	
	<u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u>			
5/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	4	
	Carried Forward			R
	Section No. 5 4 SEATS WATERBORNE TOILET BLOCK Bill No. 14 Paintwork			

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Brought Forward			R
<u>FLOATED PLASTER INTERNAL WALLS</u>			
<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>			
5/14/4	Plastered walls	m2	115
<u>METAL SURFACES</u>			
<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>			
5/14/5	On window frames	m2	4
5/14/6	On door frames	m2	5
5/14/7	On gutters	m	23
5/14/8	On downpipes	m	14
<u>WOOD</u>			
<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u>			
5/14/9	On door	m2	15
Carried Forward to Summary of Section No.			R
Section No. 5			
4 SEATS WATERBORNE TOILET BLOCK			
Bill No. 14			
Paintwork			

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Bill No	SECTION SUMMARY	Page No	Amount
5/1	Earthworks	5/3	
5/2	Concrete, Formwork and Reinforcement	5/7	
5/3	Masonry	5/10	
5/4	Waterproofing	5/11	
5/5	Roof Coverings	5/13	
5/6	Carpentry and Joinery	5/17	
5/7	Ceilings, Partitions and Access Flooring	5/20	
5/8	Ironmongery	5/23	
5/9	Metalwork	5/27	
5/10	Plastering	5/28	
5/11	Tiling	5/30	
5/12	Plumbing and Drainage	5/34	
5/13	Glazing	5/35	
5/14	Paintwork	5/37	
	Carried to Final Summary		
	Section No. 5 4 SEATS WATERBORNE TOILET BLOCK		R

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 6</u></p> <p><u>BILL NO. 1</u></p> <p><u>DEMOLITIONS AND ALTERATIONS</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected</p> <p><u>Excavation for working space in rock</u></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><u>Carting away of excavated material</u></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><u>Filling</u></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 style="text-align: right;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 1 Demolitions and Alterations</p>			R

<p style="text-align: center;">Brought Forward</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D</i></p> <p><u>Existing structures</u></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><u>Services</u></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><u>Dust and noise</u></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><u>Disposal of debris</u></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>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 1 Demolitions and Alterations</p>			R	

<p style="text-align: center;">Brought Forward</p> <p><u>Temporary support to openings through existing walls</u></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> <p><u>Electrical and Mechanical</u></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><u>GENERAL NOTES TO TENDERERS</u></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>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 1 Demolitions and Alterations</p>		R	

**LIMPOPO DEPARTMENT OF EDUCATION
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Brought Forward				R
<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> <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>				
<u>REMOVAL OF EXISTING WORK</u>				
<u>Demolitions of existing structures all complete</u>				
6/1/1	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	540	
6/1/2	Single storey brick and mortar admin 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	134	
<u>Breaking up/demolishing and removal of walls, slabs, surface beds etc</u>				
6/1/3	100mm thick concrete aprons	m2	92	
6/1/4	25mm thick concrete screed	m2	80	
Carried Forward				R
<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 1 Demolitions and Alterations</p>				

**LIMPOPO DEPARTMENT OF EDUCATION
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Brought Forward			R
<u>Taking out and removing glass and mirrors</u>			
6/1/5	Glass from steel windows including cleaning out rebates and preparing to receive new glass	m2	119
<u>Taking up and removing floor coverings carpeting, tiles etc</u>			
6/1/6	Vinyl tile floor covering including preparing screed for new tile flooring	m2	256
<u>Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)</u>			
6/1/7	813mm x 2032mm high timber door including metal frame, ironmongery etc.	No	36
<u>Taking out and removing ironmongery</u>			
6/1/8	Remove all ironmongery to a single door	No	34
6/1/9	Remove pinning board and make good wall finishes	No	12
6/1/10	Remove green chalk board and make good wall finishes	No	6
6/1/11	Remove brass sliding stays, peg stay, handles window ironmongery	No	328
<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>			
6/1/12	Remove wash trough including all fittings and make good wall and floor finishes	No	10
6/1/13	Remove water closet with cistern and make good wall and floor finishes	No	18
6/1/14	Remove urinal and make good wall finishes	No	6
6/1/15	Remove wash hand basin and make good wall finishes	No	10
<u>Taking out and removing sundry joinery work</u>			
6/1/16	Timber skirting from brickwork	m	157
Carried Forward			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 1 Demolitions and Alterations			

**LIMPOPO DEPARTMENT OF EDUCATION
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PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R
<u>Taking out and removing metalwork</u>			
6/1/17	Security gate including framing bolted to brickwork and making good mortar joints between face brickwork	No	16
<u>Taking out and removing roof coverings, roof accessories and rainwater disposal fittings</u>			
6/1/18	Remove roof sheeting, roof accessories, timber roof structure, ceilings etc.	m2	488
6/1/19	Remove steel gutters, keeping barge boards intact	m	121
6/1/20	Remove rainwater downpipe	m	34
6/1/21	Remove barge board	m	119
6/1/22	Remove fascia board	m	212
<u>Repairing cracks</u>			
6/1/23	On plastered brick walls	m2	22
<u>Making good plaster</u>			
6/1/24	Wall plaster in patches	m2	22
<u>Face bricks</u>			
6/1/25	Clean and treat face bricks with approved oxidation preventative solution	m2	794
<u>REPAIR/MAINTAIN OF EXISTING WORK</u>			
<u>Enviro-loos</u>			
6/1/26	Clean Enviro-loo septic tank and replace ventilation system		Item
Carried Forward to Summary of Section No.			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 1 Demolitions and Alterations			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></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><u>Filling</u></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><u>EXCAVATION OTHER THAN BULK, ETC</u></p> <p><u>Excavation in earth not exceeding 2m deep</u></p>			
6/2/1	Trenches	m3	19	
6/2/2	Holes	m3	13	
	Carried Forward			R
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 2 Earthworks			

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Brought Forward			R
<u>Extra over trench and hole excavations in earth for excavation in</u>			
6/2/3	Soft rock	m3	3
6/2/4	Hard rock	m3	2
<u>Extra over all excavations for carting away</u>			
6/2/5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	31
<u>Risk of collapse of excavations</u>			
6/2/6	Sides of trench excavations not exceeding 1.5m deep	m2	54
<u>Keeping excavations free of water</u>			
6/2/7	Keeping excavations free of water		Item
<u>FILLING, ETC.</u>			
<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>			
6/2/8	Under floors, steps, pavings, etc	m3	6
<u>Selected (G5) layer earth filling supplied by the contractor, compacted in 150mm thick layers, compacted to 93% Mod AASHTO density</u>			
6/2/9	Under floors, steps, pavings, etc	m3	7
<u>COMPACTION OF SURFACES</u>			
<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>			
6/2/10	Under floors, steps, paving, etc	m2	145
Carried Forward			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 2 Earthworks			

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	Brought Forward			R
	<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>			
	<u>Protection against termites, ants, etc</u>			
6/2/11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	145	
6/2/12	Weedkiller: To bottoms and sides of trenches etc.	m2	92	
Carried Forward to Summary of Section No.				
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 2 Earthworks				R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></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><u>Formwork</u></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>			
	Carried Forward			R
	<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 3 Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;">Brought Forward</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"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <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;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 3 Concrete, Formwork and Reinforcement</p>			R	

Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>10MPa/19mm concrete</u>			
6/3/1	Surface blinding under bases	m3	3
<u>20MPa/19mm concrete</u>			
6/3/2	Footings	m3	15
6/3/3	Concrete apron, cast to falls	m3	9
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/19mm Concrete</u>			
6/3/4	Ramps	m3	12
<u>30MPa/19mm concrete</u>			
6/3/5	Surface beds	m3	1
<u>TEST BLOCKS</u>			
<u>Notes:</u>			
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)			
6/3/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	17
Carried Forward			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 3 Concrete, Formwork and Reinforcement			

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Brought Forward				R
<u>SUNDRIES TO CONCRETE</u>				
<u>Surface treatment</u>				
6/3/7	Power float top surface of concrete surface bed to a true and even level finish	m2	141	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough formwork to sides</u>				
6/3/8	Sloping sides of ramps not exceeding 600mm high extreme	m2	32	
6/3/9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	92	
<u>REINFORCEMENT</u>				
<u>High tensile steel reinforcement</u>				
6/3/10	All diameter bars	t	0.18	
<u>Fabric reinforcement</u>				
6/3/11	Type 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	13	
Carried Forward to Summary of Section No.				R
Section No. 6				
RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO				
Bill No. 3				
Concrete, Formwork and Reinforcement				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Sizes in descriptions</u></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><u>Hollow walls etc</u></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><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	Carried Forward		R	
	<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 4 Masonry</p>			

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Brought Forward			R
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>BRICKWORK IN FOUNDATION</u>			
<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar</u>			
6/4/1	One brick wall	m2	23
<u>SUPERSTRUCTURE BRICKWORK</u>			
<u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u>			
6/4/2	One brick wall	m2	778
6/4/3	Half brick wall	m2	83
<u>FACE BRICKWORK</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<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>			
6/4/4	Extra over brickwork for face brickwork in superstructure	m2	897
6/4/5	Extra over brickwork for face brickwork in brick-on-edge header coping	m	54
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
6/4/6	75mm wide reinforcement built in horizontally	m	244
6/4/7	150mm wide reinforcement built in horizontally.	m	2 347
Carried Forward to Summary of Section No.			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 4 Masonry			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>DAMP PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></p>			
6/5/1	Under surface beds.	m2	41	
	<p>Carried Forward to Summary of Section No.</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 5 Waterproofing</p>			R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>ROOF SHEETING</u>			
	<u>Similar Approved</u>			
	<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>			
6/6/1	Roof sheeting pitch not exceeding 25 degrees	m2	634	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Similar Approved</u>			
	<u>Sisalation "Bubble Foil" aluminium foil binded insulation</u>			
6/6/2	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	634	
	Carried Forward to Summary of Section No.			
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 6 Roof Coverings			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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 style="text-align: right;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 7 Carpentry and Joinery</p>			R

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<p style="text-align: center;">Brought Forward</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;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 7 Carpentry and Joinery</p>			R	

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Brought Forward			R
<u>ROOFS, ETC</u>			
<u>Similar Approved</u>			
<u>Roof trusses</u>			
6/7/1	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	488
<u>"Everite FC77" fascia and barge boards</u>			
6/7/2	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	212
6/7/3	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	119
<u>DOORS ETC</u>			
<u>44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u>			
6/7/4	813 x 2032mm single door	No	20
6/7/5	914 x 2032mm single door	No	8
Carried Forward to Summary of Section No.			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 7 Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Fixing</u></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><u>Ceilings & Bulkheads</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p>			
	Carried Forward		R	
	<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 8 Ceilings, Partitions and Access Flooring</p>			

	Brought Forward			R
	<p><u>Proprietary suspended ceilings</u></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><u>Suspension systems</u></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><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>Similar Approved</u></p> <p><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></p>			
6/8/1	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	824	
6/8/2	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	
	Carried Forward			R
	<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 8 Ceilings, Partitions and Access Flooring</p>			

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	Brought Forward			R
	<u>CORNICES</u>			
	<u>Similar Approved</u>			
	<u>"Rhino" plasterboard cornice</u>			
6/8/3	75mm Coved cornice, plugged to brickwork	m	340	
	<u>CEILING INSULATION</u>			
	<u>Insulation</u>			
6/8/4	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	824	
	Carried Forward to Summary of Section No.			
	Section No. 6			
	RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO			
	Bill No. 8			
	Ceilings, Partitions and Access Flooring			
				R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 9 Ironmongery</p>			

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	Brought Forward				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><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.</u></p> <p><u>Similar Approved</u></p> <p><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></p>				
6/9/1	<p>2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations</p>	No	12		
	Carried Forward				R
	<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 9 Ironmongery</p>				

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Brought Forward				R
	<u>Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray</u>			
6/9/2	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	12	
	<u>DOOR FURNITURE</u>			
	<u>Similar Approved</u>			
	<u>Handles</u>			
6/9/3	SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170)	No	20	
	<u>Locks</u>			
6/9/4	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	20	
6/9/5	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	16	
6/9/6	SC 150mm Cabin hook (Code: CH 150)	No	16	
6/9/7	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	20.0	
	<u>Kick and push plates</u>			
6/9/8	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	72	
6/9/9	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	20	
	<u>Panic hardware</u>			
6/9/10	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	16.0	
	Carried Forward			R
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 9 Ironmongery			

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Brought Forward			R
6/9/11	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	16
<u>Sundries</u>			
6/9/12	Male / Female fixing screws (Qty 4 per pack)	Sets	20.0
6/9/13	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	20
<u>WINDOW FURNITURE</u>			
<u>Similar Approved</u>			
6/9/14	Brass spring catch	No	136
6/9/15	Brass peg stay	No	96
6/9/16	Brass handle	No	96
Carried Forward to Summary of Section No.			
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 9 Ironmongery			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>ALUMINIUM</u></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><u>SPECIFICATIONS</u></p> <p>User Note:</p> <p><u>Glazing</u></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><u>Ironmongery</u></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>			
	Carried Forward		R	
	<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 10 Metalwork</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></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><u>Installation</u></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><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 10 Metalwork</p>			R	

<p style="text-align: center;">Brought Forward</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><u>Fixing:</u></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><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></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><u>Protection:</u></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><u>Cleaning:</u></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;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 10 Metalwork</p>			R	

Brought Forward			R
<u>WELDED SCREENS, GATES, ETC.</u>			
<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>			
6/10/1	Steel gate to door, size 914mm x 2032mm high	No	6
<u>Welded MS screen consisting of 10mm diameter bars, all complete as per the architect's specifications</u>			
6/10/2	Steel screen to window, size 1020 x 1533mm high	No	48
<u>PRESSED STEEL DOOR FRAMES</u>			
<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>			
6/10/3	813 x 20232mm single door	No	20
<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>			
6/10/4	914 x 2032mm single door	No	8
Carried Forward to Summary of Section No.			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 10 Metalwork			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>SCREEDS</u>			
	<u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u>			
6/11/1	30mm thick on floors and landings	m2	80	
	<u>INTERNAL PLASTER</u>			
	<u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u>			
6/11/2	On brick walls	m2	823	
6/11/3	On narrow widths	m2	41	
	Carried Forward to Summary of Section No.			
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 11 Plastering			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Pricing</u></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><u>Fixing</u></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><u>Wastage</u></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p>			
	Carried Forward		R	
	<p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 12 Tiling</p>			

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Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No. 1, shall equally apply to this Bill.			
<u>Note</u>			
All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.			
<u>FLOOR TILING</u>			
<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>			
6/12/1	On floors	m2	336
6/12/2	75mm high skirting	m	157
<u>ATTIC STOCK</u>			
6/12/3	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	34
<u>SUNDRIES</u>			
<u>10mm aluminium straight edge trim</u>			
6/12/4	Dividing strip between tiles and door frames	m	15
<u>25 x 25mm aluminium angle</u>			
6/12/5	Trim to edge of concrete, to be secured with screws	m	5
Carried Forward to Summary of Section No.			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 12 Tiling			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></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 style="text-align: right;">Carried Forward</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 13 Plumbing and Drainage</p>			R

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Brought Forward				R
<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				
<u>GENERAL NOTES TO TENDERERS</u>				
General notes, described in Bill No.1, shall equally apply to this Bill.				
<u>RAINWATER GOODS</u>				
<u>Similar Approved</u>				
<u>Gutters</u>				
6/13/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	121	
6/13/2	Extra over eaves gutter for outlet	No	12	
6/13/3	Extra over eaves gutter for closed end	No	17	
<u>Rainwater downpipes</u>				
6/13/4	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	42	
6/13/5	Extra over rainwater pipe for offset	No	16	
6/13/6	Extra over rainwater pipe for shoe	No	12	
6/13/7	Extra over rainwater pipe for bend	No	14	
<u>SANITARY FITTINGS</u>				
Refer to sanitary schedule drawing for full description of abbreviations				
Carried Forward				R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 13 Plumbing and Drainage				

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Brought Forward			R
<u>SINKS, etc.</u>			
<u>Concrete double wash trough 1400 x 530 x 340mm deep 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>			
6/13/11	Wash trough, installed complete	No	10
<u>TOILET ROLL HOLDER</u>			
<u>To be approved by Architect</u>			
6/13/12	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	18
<u>TAPS, VALVES, ETC</u>			
<u>Similar Approved</u>			
6/13/13	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	22
<u>TANKS</u>			
<u>Similar Approved</u>			
6/13/14	1900mm dia. x 2040mm high 2500L JoJo water storage tank (Colour: JoJo Green), installed on a brick base with compacted fill (measured elsewhere)	No	2
<u>FIRE FIGHTING EQUIPMENT</u>			
<u>Extinguishers including initial charge and setting up in position:</u>			
6/13/15	9kg dry chemical powder fire extinguisher	No	6
6/13/16	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1
Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
Carried Forward			R
Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 13 Plumbing and Drainage			

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	Brought Forward		R	
	<u>TESTING</u>			
6/13/17	Testing water pipe system	Item		
	<u>BUDGETARY ALLOWANCE</u>			
6/13/18	Allow an amount of R288 337.76 (Two Hundred and Eighty Eight Thousand Three Hundred and Thirty Seven and Seventy Six) for the supply and installation of Sanitary Fitting Sundries	Item		288 337.76
	Carried Forward to Summary of Section No.			
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 13 Plumbing and Drainage		R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	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			
	<u>GLASS TO STEEL WITH PUTTY</u>			
	<u>5mm clear floated glass fixed glazing putty</u>			
6/14/1	Panes not exceeding 0.1m2	m2	107	
6/14/2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	12	
	<u>TOPS, SHELVES, DOORS, MIRROR ETC</u>			
	<u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u>			
6/14/3	Mirror 400 x 600 mm high	No	10	
	Carried Forward to Summary of Section No.			
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 14 Glazing			R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	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.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>PAINTWORK TO PREVIOUS PAINTED</u>			
	<u>FLOATED PLASTER INTERNAL WALLS</u>			
	<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>			
6/15/1	On walls	m2	881	
	<u>METAL SURFACES</u>			
	<u>Similar Approved</u>			
	<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>			
6/15/2	On window frames	m2	238	
6/15/3	On door frames	m2	286	
	Carried Forward			R
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 15 Paintwork			

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	Brought Forward			R
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>FLOATED PLASTER INTERNAL WALLS</u>			
	<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>			
6/15/4	On walls	m2	823	
	<u>FIBRE CEMENT</u>			
	<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>			
6/15/5	On internal ceilings and cornices	m2	857	
6/15/6	Fibre cement fascia/barge boards	m2	196	
	<u>METAL SURFACES</u>			
	<u>Similar Approved</u>			
	<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>			
6/15/7	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	202	
6/15/8	On door frames	m2	49	
6/15/9	On gutters	m	121	
6/15/10	On downpipes	m	12	
	<u>WOOD</u>			
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by Architect</u>			
6/15/11	On door	m2	133	
	Carried Forward			R
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 15 Paintwork			

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	Brought Forward			R
	<p><u>BRICKWORK</u></p> <p><u>Similar Approved</u></p> <p><u>Three coats brick dressing</u></p>			
6/15/12	On face brickwork	m2	794	
<p>Carried Forward to Summary of Section No.</p> <p>Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO Bill No. 15 Paintwork</p>				R

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Bill No	SECTION SUMMARY	Page No	Amount
6/1	Demolitions and Alterations	6/6	
6/2	Earthworks	6/9	
6/3	Concrete, Formwork and Reinforcement	6/13	
6/4	Masonry	6/15	
6/5	Waterproofing	6/16	
6/6	Roof Coverings	6/17	
6/7	Carpentry and Joinery	6/20	
6/8	Ceilings, Partitions and Access Flooring	6/23	
6/9	Ironmongery	6/27	
6/10	Metalwork	6/31	
6/11	Plastering	6/32	
6/12	Tiling	6/34	
6/13	Plumbing and Drainage	6/39	
6/14	Glazing	6/40	
6/15	Paintwork	6/43	
	Carried to Final Summary		
	Section No. 6 RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO		R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 1</u></p> <p><u>BUDGETARY ALLOWANCES</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 7 PROVISIONAL SUMS Bill No. 1 Budgetary Allowance</p>			

**LIMPOPO DEPARTMENT OF EDUCATION
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	Brought Forward		R	
	<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><u>LOCAL AUTHORITY FEES</u></p> <p><u>Local authority fees for connections</u></p>			
7/1/1	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><u>Relocation of mobiles</u></p>			
7/1/2	Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand) for the relocation of mobiles	Item		250 000.00
	Carried Forward to Summary of Section No.			
	Section No. 7 PROVISIONAL SUMS Bill No. 1 Budgetary Allowance		R	

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></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>			
	Carried Forward		R	
	<p>Section No. 7 PROVISIONAL SUMS Bill No. 2 Provisional Sums</p>			

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PHAPHAMANI PRIMARY SCHOOL**

	Brought Forward		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 <u>Signage Installation</u>			
7/2/1	Allow an amount of R56 950.00 (Fifty Six Thousand Nine Hundred and Fifty) for the supply and installation of Signage	Item		56 950.00
7/2/2	Attendance		%	
7/2/3	Profit		%	
	<u>Joinery Fittings</u>			
7/2/4	Allow an amount of R4 500.00 (Four Thousand Five Hundred) for the supply and installation of Joinery Fittings	Item		4 500.00
7/2/5	Attendance		%	
7/2/6	Profit		%	
	<u>School Furniture and Fittings</u>			
7/2/7	Allow an amount of R615 000.00 (Six Hundred and Fifteen Thousand) for the supply and installation of School Furniture and Fittings	Item		615 000.00
7/2/8	Attendance		%	
7/2/9	Profit		%	
	Carried Forward		R	
	Section No. 7 PROVISIONAL SUMS Bill No. 2 Provisional Sums			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

Brought Forward			R	
<u>Community Liaison Officer</u>				
7/2/10	Allow an amount of R180 000.00 (One Hundred and Eighty Thousand) for provision of Community Liaison Officer	Item		180 000.00
7/2/11	Attendance		%	
7/2/12	Profit		%	
<u>Project Steering Committee</u>				
7/2/13	Allow an amount of R36 000.00 (Thirty Six Thousand) for provision of Project Steering Committee	Item		36 000.00
7/2/14	Attendance		%	
7/2/15	Profit		%	
<u>Health and Safety Agent</u>				
7/2/16	Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of Health and Safety Agent	Item		500 000.00
7/2/17	Attendance		%	
7/2/18	Profit		%	
Carried Forward to Summary of Section No.			R	
Section No. 7				
PROVISIONAL SUMS				
Bill No. 2				
Provisional Sums				

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
PHAPHAMANI PRIMARY SCHOOL**

Bill No	<u>SECTION SUMMARY</u>	Page No		Amount
7/1	Budgetary Allowance	7/2		
7/2	Provisional Sums	7/5		
	Carried to Final Summary			
	Section No. 7 PROVISIONAL SUMS		R	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	<u>MV RETICULATION</u>				
	Provide the sum of R 110 000.00 for the supply and Install 25kVA 22kV or 11kV/400V pole mounted transformer complete with structures and poles. Supply and install fox conductor ACSR incl. meter Box c/w 3-phase meter	Sum	1		
1.1					
1.2	Profit	%	10		
1.3	Attendense	%	5		
TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
2	<u>LV RETICULATION</u>				
2.1	Distribution Kiosks, equipment as specified				
2.1.1	Main Kiosk	No	1		
2.1.2	Plinth	No	1		
2.2	Trenching Excavating, bedding, backfilling, consolidating and making good as specified,				
2.2.1	Pickable soil	m³	140,00		
2.2.2	Hard rock	m³	60,00		
2.2.3	Very hard rock	m³	-		rate only
2.2.4	Backfilling and compaction	m³	200,00		
2.3	110mm dia PVC sleeves for road crossings/cable entries into the building-rate must include for galv steel draw wires in spare sleeves and sealing of ends	m	210		
2.4	Concrete slabs for crossing of other services - rate must include installation 200mm below existing services	m	0		rate only
2.5	Cable warning tape, 300mm above cables	m	500		
2.6	Cable markers, above cables	No	10		
2.7	600/1000V PVC SWA cables, in trenches and sleeves, including labels				
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD				
2.7.1	25mm ² 4core	m	95	
2.7.2	16mm ² 2core	m	385	
2.7.3	10mm ² 2core	m	180	
2.7.4	4mm ² 2core	m	170	
2.7.5	600/1000V Cable terminations, for PVC PVC SWA PVC Cu cables, for indoor or outdoor use, as required			
2.8				
2.8.1	Gland no 5 complete with shroud	No	4	
2.8.2	Gland no 3 complete with shroud	No	6	
2.9				
2.9.1	Earth conductors (HDHC), including ends			
2.9.2	25mm ² 4core	m	95	
2.9.3	16mm ² 2core	m	385	
2.9.4	10mm ² 2core	m	180	
2.9.5	4mm ² 2core	m	170	
2.10	Testing of this section in the presence of the Employer and/or the Engineer, including all equipment, power generator, etc.	No	1	
TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3	<u>MEDIUM ADMINISTRATION BLOCK</u>				
3.1	General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services 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.				
3.1.1	Trenching through floor for sleeves	m ³			rate only
3.1.2	Excavation and backfilling in soft soil	m ³			rate only
3.1.3	Excavation and backfilling in hard rock	m ³			rate only
3.2	Cable and Data Sleeves Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
3.2.1	75mm Diameter for Data	m			rate only
3.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
3.2.3	75mm Diameter	No			rate only
3.2.4	110mm Diameter	No			rate only
3.3	Draw Wires Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation				
3.3.1		m	610		
3.4	Distribution Boards 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				
3.4.1	Distribution Board (DB-ADM)	No.	1		
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD				
3.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
3.5.1	16mm 4 core PVC SWA Cable	m		rate only
3.5.2	10mm BCEW	m		rate only
	Terminations:			
3.5.3	16mm 4 core cable	No	2	
3.5.4	10mm BCEW	No	2	
3.6	Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work:			
3.6.1	20mm PVC Conduit	m	110	
3.6.2	25mm PVC Conduit	m	200	
	In Ceiling space and Timber work or along Purlins			
3.6.3	20mm PVC Conduit	m	210	
3.6.4	25mm PVC Conduit	m	70	
3.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.		rate only
3.6.6	Conduit Boxes 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.			
3.6.7	20mm diameter 4 way type(round box)	No	47	
3.6.8	450 x 450mm Bonding tray in roof space	No		rate only
3.7	Wall Boxes Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. Flush mounted type:			
3.7.1	100 x 50 x 50mm	No	9	
3.7.2	100 x 100 x 50mm	No	17	
3.7.3	88 x 275 x 62mm One tier cluster`	No	4	
TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD					
3.8	PVC Wiring in conduits:				
3.8.1	2.5 mm ² for lights circuits	m	630		
3.8.2	4 mm ² for plug sockets circuits	m	400		
	Stranded Bare Copper Earth Wire				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
3.8.3	2.5 mm ²	m	630		
3.8.3	4 mm ²	m	400		
3.9	Light Switches				
	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				
3.9.1	16A Single Lever Light Switch	No	8		
3.9.2	2Way 16A Single Lever Light switch	No	2		
3.9.3	2 Lever 2 way	No			rate only
3.9.4	Outdoor Photocell Switch	No	1		
3.9.5	90 degree motion sensor light switch	No	2		
3.10	Socket Outlets				
	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.				
	Flush switched sockets type:				
3.10.1	SA/Euro 16A SOCKET OUTLET @1200 A.F.F.L	No	3		
3.10.2	SA/Euro 16A SOCKET OUTLET @300 A.F.F.L	No	13		
3.10.3	ONE TIER CLUSTER WALL BOX CONSISTING OF THE FOLLOWING: - 16A NORMAL SOCKET UN-SWITCHED - 16A DEDICATED SOCKET UN-SWITCHED - 5A 2 PIN SOCKET UN-SWITCHED - 2x RJ45 DATA & TELEPHONE POINTS	No	4		
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD					
3.11	Light Fittings				
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.				
3.11.1	1200mm 34W LED IP66 CORROSION PROOF LIGHT FITTING	No	13		
3.11.2	8 Inch 15W LED DOWNLIGHT	No	9		
3.11.3	10W LED RONDO DOWNLIGHT WITH DALI MODIFICATION	No	2		
3.11.4	15W LED ROUND BULKHEAD WITH DALI MODIFICATION	No	8		
3.12	Electrical Tests				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
3.12.1	Building installation	Sum	1		
3.13	Others				
3.13.1	2 compartment power skirting installed in offices	m	8		
3.13.2	Telephone points on Powerskirting; must include draw box, blank cover plate, etc,	No	2		
3.13.3	Telephone points on Powerskirting; must include draw box, blank cover plate, etc,	No			rate only
3.13.4	Provide the sum of R15000-00 for earthing and lightning protection installations by specialist	Sum	1		
3.13.5	20A 2pole Isolator, in suitable York Box, for HVAC	No	2		
3.13.6	Supply and install a 150L Solar Water Geyser	No			rate only
3.13.7	Provide the sum of R5500-00 for the supply and installation of school motorised siren c/w timer	Sum	1		
TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4	<u>4 CLASSROOM BLOCK</u>				
4.1	General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
4.1.1	Trenching through floor for sleeves	m ³			rate only
4.1.2	Excavation and backfilling in soft soil	m ³			rate only
4.1.3	Excavation and backfilling in hard rock	m ³			rate only
4.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
4.2.1	75mm Diameter for Data	m			rate only
4.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
4.2.3	75mm Diameter	No			rate only
4.2.4	110mm Diameter	No			rate only
4.3	Draw Wires				
	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation				
4.3.1		m	1000		
4.4	Distribution Boards				
	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				
4.4.1	Distribution Board	No.	1		
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD				
4.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches Terminations:			
4.5.1	16mm 2 core cable	No	2	
4.5.2	16mm BCEW	No	2	
4.6	Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work:			
4.6.1	20mm PVC Conduit	m	120	
4.6.2	25mm PVC Conduit	m	440	
	In Ceiling space and Timber work or along Purlins			
4.6.3	20mm PVC Conduit	m	400	
4.6.4	25mm PVC Conduit	m	40	
	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.		rate only
4.6.5	Conduit Boxes 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.			
4.6.6	20mm diameter 4 way type(round box)	No	50	
4.6.7	450 x 450mm Bonding tray in roof space	No		rate only
4.7	Wall Boxes Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. Flush mounted type:			
4.7.1	100 x 50 x 50mm	No	8	
4.7.2	100 x 100 x 50mm	No	12	
4.7.3	88 x 275 x 62mm one tier cluster	No	4	
TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD				
4.8	PVC Wiring in conduits:			
4.8.1	2.5 mm ² for lights circuits	m	800	
4.8.2	4 mm ² for plug sockets circuits	m	470	
	Stranded Bare Copper Earth Wire			
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
4.8.3	2.5 mm ²	m	800	
4.8.4	4 mm ²	m	470	
4.9	Light Switches			
	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			
4,9,1	16A Single Lever Light Switch	No	4	
4,9,2	2Way 16A Single Lever Light switch	No	0	rate only
4,9,3	2 Lever 2 way	No		rate only
4,9,4	Outdoor Photocell Switch	No	1	
4.10	Socket Outlets			
	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.			
	Flush switched sockets type:			
4.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	12	
4.10.2	ONE TIER CLUSTER WALL BOX CONSISTING OF THE FOLLOWING: - 16A NORMAL SOCKET UN-SWITCHED - 16A DEDICATED SOCKET UN-SWITCHED - 5A 2 PIN SOCKET UN-SWITCHED - 2x RJ45 DATA & TELEPHONE POINTS	No	4	
TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD					
4.11	Light Fittings				
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.				
4.11.1	1200mm 34W LED IP66 CORROSION PROOF LIGHT FITTING	No	20		
4.11.4	15W LED ROUND BULKHEAD WITH DALI MODIFICATION	No	10		
4.12	Electrical Tests				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
4.12.1	Building installation	Sum	1		
4.13	Others				
4.13.1	Provide the sum of R10000-00 for earthing and lightning protection installations by specialist	Sum	1		
TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5	<u>GRADE R BLOCK (2 CLASSROOM)</u>				
5.1	General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
5.1.1	Trenching through floor for sleeves	m ³			rate only
5.1.2	Excavation and backfilling in soft soil	m ³			rate only
5.1.3	Excavation and backfilling in hard rock	m ³			rate only
5.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
5.2.1	75mm Diameter for Data	m			rate only
5.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
5.2.3	75mm Diameter	No			rate only
5.2.4	110mm Diameter	No			rate only
5.3	Draw Wires				
5.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	790		
5.4	Distribution Boards				
	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				
5.4.1	Distribution Board	No.	1		
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD					
5.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches Terminations:				
5.5.3	10mm 2 core cable	No	2		
5.5.4	10mm BCEW	No	2		
5.6	Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work:				
5.6.1	20mm PVC Conduit	m	80		
5.6.2	25mm PVC Conduit	m	180		
	In Ceiling space and Timber work or along Purlins				
5.6.3	20mm PVC Conduit	m	450		
5.6.4	25mm PVC Conduit	m	80		
5.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.			
5.6.6	Conduit Boxes 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.				
5.6.7	20mm diameter 4 way type(round box)	No	30		
5.6.8	450 x 450mm Bonding tray in roof space	No			rate only
5.7	Wall Boxes Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. Flush mounted type:				
5.7.1	100 x 50 x 50mm	No	8		
5.7.2	100 x 100 x 50mm	No	10		
5.7.3	88 x 275 x 62mm one tier cluster	No	2		
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD				
5.8	PVC Wiring in conduits:			
5.8.1	2.5 mm ² for lights circuits	m	350	
5.8.2	4 mm ² for plug sockets circuits	m	250	
	Stranded Bare Copper Earth Wire			
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
5.8.3	2.5 mm ²	m	350	
5.8.4	4 mm ²	m	250	
5.9	Light Switches			
	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			
5.9.1	16A Single Lever Light Switch	No	7	
5.9.2	2Way 16A Single Lever Light switch	No	2	
5.9.3	2 Lever 2 way	No		rate only
5.9.4	Outdoor Photocell Switch	No	1	
5.10	Socket Outlets			
	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.			
	Flush switched sockets type:			
5.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	6	
	ONE TIER CLUSTER WALL BOX CONSISTING OF THE FOLLOWING: - 16A NORMAL SOCKET UN-SWITCHED - 16A DEDICATED SOCKET UN-SWITCHED - 5A 2 PIN SOCKET UN-SWITCHED - 2x RJ45 DATA & TELEPHONE POINTS			
5.10.2		No	2	
TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD				
5.11	Light Fittings			
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
5.11.1	1200mm 34W LED IP66 CORROSION PROOF LIGHT FITTING	No	12	
5.11.2	15W LED ROUND BULKHEAD WITH DALI MODIFICATION	No	8	
5.11.3	10W LED RONDO DOWNLIGHT WITH DALI MODIFICATION	No	12	
5.11.4	Type B1: Wall mounted bulkhead 2x 18W CFL	No		rate only
5.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
5.12.1	Building installation	Sum	1	
5.13	Others			
5.13.1	Provide the sum of R7000-00 for earthing and lightning protection installations by specialist	Sum	1	7 000,00
5.13.2	20A 2pole Isolator, in suitable York Box, for HVAC	No	2	
TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6	<u>6 CLASSROOM BLOCK</u>				
6.1	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
6.1.1	Trenching through floor for sleeves	m³			rate only
6.1.2	Excavation and backfilling in soft soil	m³			rate only
6.1.3	Excavation and backfilling in hard rock	m³			rate only
6.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
6.2.1	75mm Diameter for Data	m			rate only
6.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
6.2.3	75mm Diameter	No			rate only
6.2.4	110mm Diameter	No			rate only
6.3	Draw Wires				
6.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	1120		
6.4	Distribution Boards				
	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				
6.4.1	Distribution Board	No.	1		
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD				
6.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
6.5.1	10mm 4 core PVC SWA Cable	m		rate only
6.5.2	10mm BCEW	m		rate only
	Terminations:			
6.5.3	10mm 4 core cable	No	2	
6.5.4	10mm BCEW	No	2	
6.6	Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work:			
6.6.1	20mm PVC Conduit	m	100	
6.6.2	25mm PVC Conduit	m	100	
	In Ceiling space and Timber work or along Purlins			
6.6.3	20mm PVC Conduit	m	500	
6.6.4	25mm PVC Conduit	m	400	
6.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.		rate only
6.6.6	Conduit Boxes 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.			
6.6.7	20mm diameter 4 way type(round box)	No	60	
6.6.8	450 x 450mm Bonding tray in roof space	No		rate only
6.7	Wall Boxes Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. Flush mounted type:			
6.7.1	100 x 50 x 50mm	No	6	
6.7.2	100 x 100 x 50mm	No	12	
6.7.3	88 x 275 x 62mm One tier cluster`	No	6	
TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD				
6.8	PVC Wiring in conduits:			
6.8.1	2.5 mm ² for lights circuits	m	650	
6.8.2	4 mm ² for plug sockets circuits	m	550	
	Stranded Bare Copper Earth Wire			
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
6.8.3	2.5 mm ²	m	650	
6.8.4	4 mm ²	m	550	
6.9	Light Switches			
	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			
6.9.1	16A Single Lever Light Switch	No	6	
6.9.2	Outdoor Photocell Switch	No	1	
6.10	Socket Outlets			
	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.			
	Flush switched sockets type:			
6.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	12	
6.10.2	ONE TIER CLUSTER WALL BOX CONSISTING OF THE FOLLOWING: - 16A NORMAL SOCKET UN-SWITCHED - 16A DEDICATED SOCKET UN-SWITCHED - 5A 2 PIN SOCKET UN-SWITCHED - 2x RJ45 DATA & TELEPHONE POINTS	No	6	
TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD					
6.11	Light Fittings				
	Supply, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.				
6.11.1	1200mm 34W LED IP66 CORROSION PROOF LIGHT FITTING	No	24		
6.11.2	15W LED ROUND BULKHEAD WITH DALI MODIFICATION	No	10		
6.12	Electrical Tests				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
6.12.1	Building installation	Sum	1		
6.13	Others				
6.13.1	Provide the sum of R10000-00 for earthing and lightning protection installations by specialist	Sum	1	10 000,00	10 000,00
TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY					R 10 000,00

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7	<u>ABLUTION BLOCK (4 SEATER)</u>				
7.1	General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
7.1.1	Trenching through floor for sleeves	m ³			rate only
7.1.2	Excavation and backfilling in soft soil	m ³			rate only
7.1.3	Excavation and backfilling in hard rock	m ³			rate only
7.2	<u>Cable and Data Sleeves</u>				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
7.2.1	75mm Diameter for Data	m			rate only
7.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
7.2.3	75mm Diameter	No			rate only
7.2.4	113mm Diameter	No			rate only
7.3	<u>Draw Wires</u>				
7.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	50		
7.4	<u>Distribution Boards</u>				
	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				
7.4.1	Distribution Board (DB-ADM)	No.	1		
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD				
7.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
7.5.1	4mm 2 core PVC SWA Cable	m		rate only
7.5.2	4mm BCEW	m		rate only
	Terminations:			
7.5.3	4mm 2core cable	No	2	
7.5.4	4mm BCEW	No	2	
7.6	Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work:			
7.6.1	20mm PVC Conduit	m		rate only
7.6.2	25mm PVC Conduit	m	15	
	In Ceiling space and Timber work or along Purlins			
7.6.3	20mm PVC Conduit	m	10	
7.6.4	25mm PVC Conduit	m		rate only
7.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-11320	No.		rate only
	Conduit Boxes 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.			
7.6.6	20mm diameter 13 way type(round box)	No	7	
7.6.7	1350 x 1350mm Bonding tray in roof space	No		rate only
7.7	Wall Boxes Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. Flush mounted type:			
7.7.1	100 x 50 x 50mm	No	2	
7.7.2	100 x 100 x 50mm	No	2	
TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD					
7.8	PVC Wiring in conduits:				
7.8.1	2.5 mm ² for lights circuits	m	20		
7.8.2	4 mm ² for plug sockets circuits	m			rate only
	Stranded Bare Copper Earth Wire				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7.8.3	2.5 mm ²	m	20		
7.8.4	4 mm ²	m			rate only
7.9	Light Switches				
	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				
7.9.1	1 Lever 1 way	No	2		
7.9.2	1 Lever 2 way	No			rate only
7.9.3	2 Lever 2 way	No			rate only
7.9.4	Outdoor Photocell Switch	No	1		
7.10	Socket Outlets				
	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.				
	Flush switched sockets type:				
7.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No			rate only
TOTAL FOR BILL - CARRIED FORWARD					

TOTAL FOR BILL - BROUGHT FORWARD					
7.11	Light Fittings				
	<p>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.</p> <p>Fittings to be equal and similar approved to the below quoted manufacture.</p>				
7.11.1	1200mm 313W LED IP66 CORROSION PROOF LIGHT FITTING	No			
7.11.2	13W LED RONDO DOWNLIGHT WITH DALI MODIFICATION	No	4		
7.11.3	10W LED RONDO DOWNLIGHT WITH DALI MODIFICATION	No	4		
7.11.4	Type D1: 17 W Ceiling mounted downlighter	No			rate only
	Type B1: Wall mounted bulkhead 2x 17W CFL	No			rate only
7.12	Electrical Tests				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
7.12.1	Building installation	Sum	1		
7.13	Others				
7.13.1	2 compartment power skirting installed in offices	m			rate only
7.13.2	Provide the sum of R2500-00 for earthing and lightning protection installations by specialist	Sum	1	2 500,00	2 500,00
TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8	Area Lighting				
8.1	Supply and installation of SABS approved light fittings as per the specification, complete with lamps, mounted as described including accessories necessary to complete the mounting as specified and are measured separately				
8.1.1	3,5m Steel Pole with brackets and foundation bolts including Delivery to Site and offloading	Sum	4		
8.1.2	54W LED Post Top 4000K as described including accessories	no.	4		
8.1.3	22W LED Vapour Proof Light Fitting IP65	No	6		
8.2	Cabling				
	PVC Wiring :				
8.2.1	4mm ² x 2core copper cable	m	300		
8.2.2	4mm ² bare copper earth wire (BCEW)	m	300		
8.3	TESTING AND COMISSIONING				
8.3.1	Testing and comissioning of the entire medium and low voltage network and area lighting including the provision of all test equipment required and issuing of a certificate of compliance for the installation.	Sum	1		
CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
9	<u>PROVISIONAL AMOUNTS : ICT</u>				
9.1	Provide the sum of R 86 956.50 for the instalation of Information and Communication Technologies by specialist service provider in consultation with the Engineer/Consultant	Sum	1	R 86 956,50	R 86 956,50
9.2	Profit	%	10	R 8 695,65	R 8 695,65
9.3	Attendense	%	5	R 8 688,00	R 8 688,00
TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY					R 100 000,00

PHAPHAMANI PRIMARY SCHOOL				
SUMMARY: ELECTRICAL WORKS				
SECTION	DESCRIPTION	QTY	AMOUNT	TOTAL
1	MV Reticulation	SUM		
2	LV Reticulation	Lot		
3	Administration	1		
4	Four classroom blocks	1		
5	2 Classroom Grade R	1		
6	Six Classrom Blocks	1		
7	4 Seater Ablution	6		
8	Area Lighting	SUM		
9	Provisional Sum: ICT	SUM		
	SUB TOTAL 1			
TOTAL BID PRICE VAT INCL				

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	1	70		SECTION NO. 3				
3	1	70		BILL NO.1				
3	1	70		BULK EARTHWORKS				
3	1	70		Preambles	H4			
3	1	70		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	1	70		<u>SUPPLEMENTARY PREAMBLES</u>	H4			
3	1	70		<u>Items, materials or methods</u>	H4			
3	1	70		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	1	70		<u>Excavations</u>	H4			
3	1	70		No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling "Soft rock" and "Hard rock" shall be as defined in the Model Preambles for Trades 2008				
3	1	70		<u>WORK GROUP 102</u>	H4			
3	1	70		<u>SITE CLEARANCE</u>	H2			
3	1	70	2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	32 256		
3	1	70		<u>Extra over all excavations for carting away</u>	H3			
3	1	70	3	Surplus material from excavations or stock piles on site to a dumping site to be located by the Contractor	m.km	6 451		
3	1	70		<u>EARTHWORKS</u>	H2			
3	1	70		<u>Bulk excavation</u>	H3			
3	1	70	4	Excavate in all materials and use for embankment or fill or dispose, as ordered	m3	3 226		
3	1	70		<u>Extra-over for</u>	H3			
3	1	70	5	Intermediate for excavation	m3	806		
3	1	70	6	Hard rock excavation	m3	161		
3	1	70		<u>Restricted Excavation</u>	H3			
3	1	70	7	Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose	m3	0		
3	1	71		<u>Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density</u>	H3			
3	1	71	8	150mm thick	m3	3 226		
3	1	71	9	Overhaul	m.km	16 128		
3	1	71		<u>LOFFELSTEIN RETAINING WALLS</u>	H2			
3	1	71	10	InfraBlok 425 (425x340x225) Waterloffel or other approved retaining wall stepped and curved to suit required slopes	m2	276		
				BULK EARTHWORKS	ST			

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	73		SECTION NO. 3				
3	2	73		BILL NO.2				
3	2	73		WATER SUPPLY				
3	2	73		<u>Preambles</u>	H4			
3	2	73		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	2	73		<u>SUPPLEMENTARY PREAMBLES</u>	H4			
3	2	73		<u>Items, materials or methods</u>	H4			
3	2	73		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	2	73		<u>uPVC Pressure pipes and fittings</u>	H4			
3	2	73		Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints				
3	2	73		<u>Copper pipes</u>	H4			
3	2	73		Pipes shall be hard drawn and half-hard pipes of the class stated Class 0 (thin walled hard drawn) pipes shall not be bent Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type Capillary solder fittings shall comply with ISO 2016 Only compression fittings shall be used in walls or in ground				
3	2	73		<u>Lead pipes and traps</u>	H4			
3	2	73		All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel				
3	2	74		<u>Reducing fittings</u>	H4			
3	2	74		Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained				
3	2	74		<u>Steel sectional water tanks</u>	H4			
3	2	74		Tanks shall comply with SABS CKS 114				
3	2	74		<u>WORK GROUP 104</u>	H4			
3	2	74		<u>EARTHWORKS (PIPE TRENCHES)</u>	H2			
3	2	74		<u>Site clearance and removal of topsoil</u>	H3			
3	2	74	1	Clear vegetation and small trees/shrubs up 2m wide	m	825		
3	2	74		<u>Excavate in all materials for trenches, backfill, compact and dispose of surplus material for water pipes up to 90mm in diameter for depths:</u>	H2			
3	2	74	2	From 0m Up to 1.5m	m	825		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	74		<u>Extra-over item (a) above for:</u>	H3			
3	2	74	3	Intermediate excavation	m3	149		
3	2	74	4	Hard rock excavation	m3	22		
3	2	74		<u>Extra over all excavations for carting away</u>	H3			
3	2	74	5	Surplus material from trench excavations to a dumping site to be located by the Contractor	m3	52		
3	2	74		<u>Excavation ancillaries</u>	H3			
3	2	74		<u>Make up deficiency in backfill material</u>	H3			
3	2	74	6	From other necessary excavations on site	m3	52		
3	2	74	7	By importation from designated borrow pits	m3			
3	2	74	8	Compaction in road reserves	m			
3	2	74		<u>WORK GROUP 148</u>	H4			
3	2	74		<u>MEDIUM PRESSURE PIPELINES</u>	H2			
3	2	74		<u>Supply, lay and bed pipes complete with couplings</u>	H3			
3	2	74	9	50mm diameter uPVC Class 9 pipes	m	0		
3	2	74	10	50mm diameter uPVC Class 12 pipes	m	0		
3	2	74	11	63mm diameter uPVC Class 9 pipes	m	0		
3	2	74	12	63mm diameter uPVC Class 12 pipes	m			
3	2	74	13	75mm diameter uPVC Class 9 pipes	m	0		
3	2	74	14	75mm diameter uPVC Class 12 pipes	m	350		
3	2	74	15	90mm diameter uPVC Class 12 pipes	m	475		
3	2	74	16	65mm Pressure Reducing Valve	No			
3	2	74	17	75mm Pressure Reducing Valve	No			
3	2	74		<u>BEDDING (PIPES)</u>	H2			
3	2	74		<u>Provision of Bedding from Trench Excavation</u>	H3			
3	2	74	18	Selected granular material	m3	297		
3	2	74	19	Selected fill material	m3	495		
3	2	74		<u>ELEVATED STEEL TANK PLUS STAND</u>	H2			
3	2	75		<u>The following in sectional steel water tanks and bases</u>	H3			
3	2	75	20	Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced	m2	27		
3	2	75	21	Concrete for footings class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer	m3	5		
3	2	75	22	Supply, deliver to site and erect 75KL Prestressed steel tank complete with 6m stand,	No	1		
3	2	75	23	Supply and install 50 mm dia Water Meter	No	0		
3	2	75	24	Supply and install 63 mm dia Water Meter	No	0		
3	2	75	25	90 x 90 mm T piece section	No	25		
3	2	75	26	90mm diam. Gate valve	No	2		
3	2	75	27	75 mm diam. Gate valve	No	2		
3	2	75	28	Supply and install 75mm X 32mm dia Saddles	No	28		
3	2	75	29	32 mm diam. Gate valve	No	0		
3	2	75	30	Ref. 617 welded mesh in floor/walls/footing/slab	m2	60		
3	2	75	31	Supply and install a 5mm (1000 x 1000) Vastrap plate cover and frame for the opening in the reservoir roof	m2	0		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	75	32	Half brick wall including wire ties	m2	0		
3	2	75	33	Supply and install 75mm dia Resilient Seal Flanged Gate Valve (with rising spindle and handwheel, clockwise closing)	No	0		
3	2	75	34	1000mm long X 150mm diameter steel pipe, flanged both ends, 250mm flanged pipe with a 150 x 100 bellmouth, plain ended overflow pipe	No	0		
3	2	75	35	100mm flanged steel pipe with a 90 degree welded long radius bend	No	0		
3	2	75	36	1500 x 100mm flanged steel pipe with welded flanges both ends	No	0		
3	2	75	37	Sitting, Drilling and Equiping of new borehole	No	1		
3	2	75		TESTING	H2			
3	2	75	38	Testing of yield and water quality of existing borehole and supply and install water package plant as per specialist recommendation	No	1		
3	2	75	39	Testing water pipe system	Item	1		
3	2	75		FIRE BOOSTER PUMP	H3			
3	2	75	40	Supply and install Grundforce PM Pressure Pump (Q min 12 litres per second and 40m head) or similar with 90 mm inlet and outlet Complete with control panel, electrical connections, Brass Gate 50 mm valves (90 mm and 90mm), Brass Non Return valve (90 mm), Brass In-line Strainer (90 mm), fittings and pipings	No	1		
				WATER SUPPLY	ST			
3	3	77		SECTION NO. 3				
3	3	77		BILL NO.3				
3	3	77		SEWER RETICULATION				
3	3	77		<u>Preambles</u>	H4			
3	3	77		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	3	77		<u>SUPPLEMENTARY PREAMBLES</u>	H4			
3	3	77		<u>Items, materials or methods</u>	H4			
3	3	77		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	3	77		<u>Vitrified clay pipes, etc</u>	H4			
3	3	77		Pipes shall rest on solid ground and where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid				
3	3	77		<u>uPVC Pipes and fittings</u>	H4			
3	3	77		Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
3	3	77		Soil, waste and vent pipes and fittings shall be solvent weld jointed				
3	3	77		<u>Reducing fittings</u>	H4			
3	3	77		Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained				

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	3	77		<u>Septic Tanks</u>	H4			
3	3	77		Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions				
3	3	78		<u>Laying, backfilling, bedding, etc. of pipes</u>	H4			
3	3	78		Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturer's instructions Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be class B bedding				
3	3	78		<u>WORK GROUP 104</u>	H4			
3	3	78		<u>EARTHWORKS (PIPE TRENCHES)</u>	H2			
3	3	78		<u>Site clearance and removal of topsoil</u>	H3			
3	3	78	1	Clear vegetation and small trees/shrubs within 2m wide strip	m	287		
3	3	78		<u>EXCAVATION</u>	H2			
3	3	78		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for sewers up to 160mm in diameter for depths:	H3			
3	3	78	2	Up to 1.5m	m3	301		
3	3	78	3	Over 1.5m up to 2.5m	m3	0		
3	3	78	4	Over 2.5m up to 3.5m	m3			
3	3	78		<u>Extra-over item (a) above for:</u>	H3			
3	3	78	5	Intermediate excavation	m3	201		
3	3	78	6	Hard rock excavation	m3	15		
3	3	78	7	Excavate and dispose of unsuitable material from trench bottom (provisional)	m3			
3	3	78		<u>Excavation ancillaries</u>	H3			
3	3	78		<u>Make up deficiency in backfill material</u>	H3			
3	3	78	8	From other necessary excavations on site	m3	216		
3	3	78	9	By importation from designated borrow pits	m3			
3	3	78		<u>WORK GROUP 146</u>	H4			
3	3	78		<u>SEWERS</u>	H2			
3	3	78		<u>Supply, lay, joint, bed and test 400KPa Maincore uPVC sewer pipes manufactured to SABS 1601</u>	H3			
3	3	78	10	110mm dia.	m	287		
3	3	78	11	160mm dia.	m	0		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	3	79		<u>Extra -over uPVC pipe for specials</u>	H3			
3	3	79	12	110mm 90 degree plain bend	m	3		
3	3	79	13	110mm 45 degree plain bend	m	2		
3	3	79	14	110mm 45 degree plain junction	m	1		
3	3	79	15	160mm 90 degree plain bend	m	0		
3	3	79	16	160mm 45 degree plain bend	m	0		
3	3	79	17	160mm 45 degree plain junction	m	0		
3	3	79		<u>MANHOLES</u>	H2			
3	3	79		<u>Supply and construct pre-cast concrete manholes, complete with cover and frame and step irons as per drawings within the following depth ranges (depth measured from invert level to top of the manhole)</u>	H3			
3	3	79		<u>1000mm dia. Manholes</u>	H3			
3	3	79	18	up to 1.5m	No	9		
3	3	79	19	over 1.5m up to 2.0m	No	0		
3	3	79	20	over 2.0m up to 2.5m	No	0		
3	3	79	21	over 2.5m up to 3.0m	No	0		
3	3	79		<u>BEDDING AND BACKFILLING (PIPES)</u>	H2			
3	3	79		<u>Provision of Bedding from Trench Excavation</u>	H3			
3	3	79	22	Selected granular material	m3	103		
3	3	79	23	Selected fill material	m3	172		
3	3	79		<u>SEWER TREATMENT PLANT</u>	H2			
3	3	79		<u>Concrete</u>	H3			
3	3	79	24	Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced	m2			
3	3	79	25	Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer	m3			
3	3	79		<u>Mild steel reinforcement:</u>	H3			
3	3	79	26	Mild steel bars	kg			
3	3	79		<u>High-Tensile Welded mesh</u>	H3			
3	3	79	27	Ref. 617 welded mesh in floor/walls/footing/slab	m2			
3	3	79		<u>Brickwork of NFX bricks in 3:1 cement mortar:</u>	H3			
3	3	79	28	One brick wall including wire ties	m2			
3	3	79	29	Half brick wall including wire ties	m2			
3	3	79		<u>Septic Tank</u>	H3			
3	3	79	30	Construct septic tank with french drain as per specification	Item	1		
3	3	79		<u>Grease Trap</u>	H3			
3	3	79	30	Construct grease trap as per specification	Item	0		
3	3	79		<u>1-4 Cement plaster finished with a wooden trowel on brickwork:</u>	H3			
3	3	79	31	Internal wall plaster	m2			
3	3	79	32	Supply and install 1600mm x 1200mm Galvanized frame and cover for septic tank and grease trap	No	5		
3	3	79		<u>TESTING</u>	H2			
3	3	79	33	Testing drainage pipe system	Item	1		
				SEWER RETICULATION	ST			

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	4	81		SECTION NO. 3				
3	4	81		BILL NO.4				
3	4	81		ROADS AND PARKING				
3	4	81		<u>Preambles</u>	H4			
3	4	81		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	4	81		<u>SUPPLEMENTARY PREAMBLES</u>	H4			
3	4	81		<u>Items, materials or methods</u>	H4			
3	4	81		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	4	81		<u>Excavations</u>	H4			
3	4	81		No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling "Soft rock" and "Hard rock" shall be as defined in the Model Preambles for Trades 2008				
3	4	81		<u>WORK GROUP 154</u>	H4			
3	4	81		<u>EARTHWORKS (ROADS, SUBGRADE)</u>	H2			
3	4	81		<u>Road-bed preparation and compaction of material to</u>	H3			
3	4	81	1	Minimum of 90% of modified AASHTO maximum density	m3	0		
3	4	81	2	Minimum of 93% of modified AASHTO maximum density	m3	0		
3	4	81		<u>Selected layer compacted to 93% of modified AASHTO maximum density</u>	H3			
3	4	81	3	150mm thick	m3	0		
3	4	81		<u>Extra -over items 8.3.4 and 8.3.5 for excavation and breaking down material in</u>	H3			
3	4	81	4	Intermediate excavation	m3	0		
3	4	81	5	Hard excavation	m3	0		
3	4	81		<u>Cut to spoil or stockpile from</u>	H3			
3	4	81	6	Soft excavation	m3	952		
3	4	81	7	Intermediate excavation	m3	40		
3	4	81	8	Hard excavation	m3	6		
3	4	81	9	Overhaul	m .km	998		
3	4	81		<u>SUBBASE</u>	H2			
3	4	81		<u>Construct the subbase course with material excavated in all materials or from borrow pit</u>	H3			
3	4	81	10	Subbase 150mm thick and compacted to 95% Mod AASHTO density	m3	1 536		
3	4	81	11	Base 150mm thick constructed with Graded crushed stone from commercial source and compacted to 88% of apparent relative density	m3	0		
3	4	82		<u>Process subbase material by the following processes, as relevant, and use in the subbase</u>	H3			
3	4	82	12	Stabilization	m3	1 536		
3	4	82		<u>Stabilizing agent</u>	H3			
3	4	82	13	Ordinary Portland cement	t	44		
3	4	82	14	Lime	t	1		
3	4	82	15	Overbudden	m3	0		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	4	82		<u>BASE</u>	H2			
3	4	82		<u>Construct the base with gravel material from borrow pits</u>	H3			
3	4	82	16	Base 150mm thick and compacted to 97% Mod AASHTO density	m3	1 124		
3	4	82		<u>Process base material by the following processes, as relevant and use in base</u>	H3			
3	4	82	18	Stabilization	m3	1 124		
3	4	82		<u>Stabilizing agent</u>	H3			
3	4	82	19	Ordinary Portland cement	t	81		
3	4	82	20	Lime	m			
3	4	82		<u>SEGMENTED PAVING</u>	H2			
3	4	82		<u>Provision of edge Restraints</u>	H3			
3	4	82	21	Cast in-situ edging, 200 x 150mm thick Class 25/19 concrete on curves and on straights	m	450		
3	4	82		<u>Construction of paving complete</u>	H3			
3	4	82	22	Supply and lay 60mm thick segmented paving blocks with 20mm sand (Assembly and walkways)	m2	2 200		
3	4	82	23	Supply and lay 80mm thick segmented paving blocks with 20mm sand	m2	1 545		
3	4	82	24	Cutting units to fit edge restraints (straight, raking, or circular cutting)	m	0		
3	4	82	25	Allow for soil poisoning	m2	3 745		
3	4	82		<u>KERBING AND CHANNELING</u>	H2			
3	4	82	26	Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure 7	m	420		
3	4	82	27	Precast concrete kerbs Figure 5	m	310		
3	4	82		<u>TESTING OF FILLING MATERIAL AND COMPACTION</u>	H2			
3	4	82		<u>GENERAL</u>	H4			
3	4	82		The following tests are to be carried out when and only if required by the Architect/Engineer				
3	4	82		The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and Specification, of the Department of Transport				
3	4	82	28	Allow for testing of approved filling material in an approved laboratory according to S M T M method No A7, to establish the 100% modified AASHTO density thereof	Item	1		
3	4	82	29	Allow for testing of density of compacted filling under roads, etc. by means of the Sand Replacement Method according to S M T M method No A10(a)	Item	1		
3	4	83		<u>BREAKING UP EXISTING PAVEMENT LAYERS</u>				
3	4	83		Excavating and removing existing bituminous material				
3	4	83		(a) Material intended for recycling with the average depth of excavation				
3	4	83	30	(ii) Exceeding 30mm but not exceeding 60mm	m2	0		
3	4	83	31	Excavating and spoiling material from an existing pavement and /or the underlying fill:				
3	4	83		(b) Cemented material	m³	0		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	4	83	32	Excavating material from an existing pavement and /or underlying fill in restricted areas				
3	4	83		(a) Extra over item 38.01 for bituminous material excavated separately	m2	Rate Only		
3	4	83	33	(b)Extra over item 38.04 for other existing pavement				
3	4	83		(ii) Cemented material	m³	Rate Only		
3	4	83		Sawing or cutting asphalt or cemented pavement layers				
3	4	83	34	(a) Sawing asphalt	m2	0		
3	4	83	35	Backfilling of excavations for patching with				
3	4	83		(a) Chemically stabilized base for a patch with a surface area				
3	4	83	36	(i) Not exceeding 5m2	m³	0		
3	4	83		(ii)Exceeding 5m2 but not 100m2	m³	0		
3	5	85		Compacting the floor of excavations for patching	m2	0		
3	5	85		STABILIZATION				
3	5	85		Chemical stabilization extra over unstabilized compacted layers:				
3	5	85		(a) Base layer, 150mm thick	m³	0		
3	5	85		Chemical stabilizing agent:				
3	5	85		(a) Ordinary portland cement	t	0		
3	5	85		(b) Slaked road lime	t	Rate Only		
3	5	85		Provision and application of water for curing	kl	0		
3	5	85		PRIME COAT				
3	5	85		Prime coat:				
3	5	85		(a) MC-30 cut back bitumen	litre	0		
3	5	85		(b) MSP1	litre	Rate Only		
3	5	85		Aggregate for blinding	m²	Rate Only		
3	5	85		Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment	litre	0		
3	5	85		ASPHALT PAVEMENTS AND SEALS				
3	5	85		Asphalt surfacing				
3	5	85		(60/70 penetration grade bitumen)				
3	5	85		(a) Medium continuously graded asphalt				
3	5	85		(i)Thickness -30mm	m²	0		
3	5	85		Rolled in chippings (9.5mm)				
3	5	85		(a) in surfacing	t	Rate Only		
3	5	85		Tack coat of 30% stable grade emulsion	litre	0		
3	5	85	1	ROADS AND PARKING	ST			
3	4	81		SECTION NO. 3				
3	4	81		BILL NO.5				
3	4	81		STORMWATER DRAINAGE				
3	5	85		<u>Preambles</u>	H4			
3	5	85		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	5	85	2					
3	5	85	3	<u>SUPPLEMENTARY PREAMBLES</u>	H4			
3	5	85		<u>Items, materials or methods</u>	H4			
3	5	85		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	5	85	4					

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	5	85	5	<u>Concrete pipes</u>	H4			
3	5	85		Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings				
3	5	85		<u>Wire gratings</u>	H4			
3	5	85	6	Descriptions of gutter outlets, etc shall be deemed to include wire balloon gratings				
3	5	85	7	<u>Exposed concrete surfaces</u>	H4			
3	5	85		Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster				
3	5	85	8					
3	5	85	9	<u>WORK GROUP 104</u>	H4			
3	5	86	10	<u>EARTHWORKS (OPEN CHANNEL)</u>	H2			
3	5	86		<u>EXCAVATION</u>	H3			
3	5	86		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for stormwater channel	m3	370		
3	5	86	11	<u>Extra-over item (a) above for:</u>	H3			
3	5	86	12	Intermediate excavation	m3	167		
3	5	86		Hard rock excavation	m3	56		
3	5	86		<u>BEDDING AND BACKFILLING</u>	H2			
3	5	86	13	<u>Provision of Bedding from Trench Excavation</u>	H3			
3	5	86	14	Selected granular material for bedding	m3			
3	5	86	15	Selected fill material and backfilling	m3			
3	5	86		<u>WORK GROUP 146</u>	H4			
3	5	86		<u>CONCRETE AND REINFORCEMENT</u>	H4			
3	5	86		Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced	m2	278		
3	5	86		Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer	m3	28		
3	5	86	16	<u>High-Tensile Welded mesh</u>	H3			
3	5	86	17	Ref. 245 welded mesh in floor slab	m2	278		
3	5	86		Ref. 617 welded mesh in floor slab	m2			
3	5	86		Mild steel bars	kg			
3	5	86	18	<u>CONCRETE PIPES</u>	H4			
3	5	86		<u>Supply, lay and bed pipes complete with couplings</u>	H3			
3	5	86		450mm Diameter C50	m	60		
3	5	86		600mm Diameter C50	m	20		
3	5	86		<u>Supply and lay RS40 Grating Unbanded and Banded Rectagrid or similar approved Grid for Storm water drainage</u>	H3			
3	5	86	19	2 400 x 1 200 x 50 x 4.5mm RS40 Grating Unbanded Bitumen	No	2		
3	5	86		1 000 x 500 x 50 x 4.5mm RS40 Grating Banded Bitumen	No	1		
3	5	86		Supply and install 60 x 60 x 6mm Angle Iron cast into concrete	m	6		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	6	88						
3	6	88		<u>SURFACE V-CHANNELS</u>	H2			
3	6	88		<u>In-situ 20 MPa/19mm Concrete open stormwater channels finished on all exposed surfaces with woodfloat finish and with angles rounded, cast in approximately 2m lengths with construction joints and expansion joints formed with Flexcell joint filler and sealed with bitumastic joint sealant at 6m intervals, including all formwork, moulds, shallow excavations and filling and laying to falls</u>	H3			
3	6	88		V-shaped channel 1200mm wide, 105mm (average) thick and 50 mm deep (concrete = 0,10 m ³ /m) next to existing wall and including the forming of an expansion joint with the existing wall formed with Flexcell joint filler and sealed with bitumastic joint sealant	m	380		
3	6	88		Extra over 900 x 50mm deep stormwater channel for bends, junctions, ends, etc	No			
3	6	88		<u>Stormwater outlet spreader, culvert headwall, etc.</u>	H3			
3	6	88		Concrete 20MPa/19mm in spreader outlet 2,0m long and x 2,0m wide at open end with 100 x 50mm projecting kerbs along both sides and bricks cast in at 300mm centres and 150mm apart to project 50mm above 75mm concrete surface bed, including all necessary shallow excavations, formwork and finishing with a wood float	No	1		
3	6	88	1					
3	6	88		<u>STONE PITCHING</u>	H2			
3	6	88		<u>Stone pitched of approximately 150mm diameter river stones tightly packed including preparation of ground surface under, top soil filling and planted with grass</u>	H3			
3	6	88		150mm Thick lining to open ends of outfall spreaders, ditches, etc.	m2	75		
3	6	88		STORMWATER DRAINAGE	ST			
3	6	88	2	SECTION NO. 3 BILL NO.6 FENCING AND LANDSCAPING				
3	6	89		<u>Preambles</u>	H4			
3	6	89		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	6	89	3					
3	6	89		<u>SUPPLEMENTARY PREAMBLES</u>	H4			
3	6	89	4	<u>Items, materials or methods</u>	H4			
3	6	89	5	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	6	89	6	<u>WORK GROUP 124</u>	H4			
3	7	92	1	<u>GALVANIZED STEEL PALISADE FENCING</u>	H2			
3	7	92	2	<u>Palisade fencing, consisting of 75 x 75 x 4mm posts with 230 x 230mm foot plate welded on, 50 x 50 x 5mm angle section top and bottom rail, filled in with 40 x 40 x 4mm spear pales at 125mm centres. Posts to be spaced at 3.0m and cast in 600 x 600 x 800mm class C concrete bases on 600 x 600 x 150mm selected fill and with 200 x 200mm Class C concrete ground beam along full length of fence</u>	H3			
3	7	92	3					
3	7	92	4					
3	7	92	5					
3	7	92	6	Supply and install 2400mm high fencing	m			
				Supply and install 2100mm high fencing	m			
				Supply and install 1800mm high fencing	m	1 053		
				<u>Gates formed of 50 x 75mm rectangular hollow section frame with two horizontal braces and filled in with 10mm diameter solid vertical bars at 92mm centres complete with two 254 x 40 x 5mm hook and band hinges with flange built into wall, barrel bolt to receive padlock, and vertical extension 600mm long with 6 tying holes for and including barbed wire, all as detailed on drawing 107 attached as annexure.</u>	H3			
				Double pedestrian gate 1780mm wide x 2400mm high with 254 x 40 x 5mm hook and band hinges with flange built into walls, barrel bolt, and 600mm vertical extensions for razor wire coil (Gate type G6)	No	1		
				Double gate 2890mm wide x 1915mm high with 254 x 40 x 5mm hook and band hinges with flange built into walls and barrel bolt (Gate type G7)	No			
				Sliding gate 6000m wide x 2454mm high complete with rollers and v-track including 600mm extension on top for razor wire coil (Gate type G8)	No	1		
				FENCING AND LANDSCAPING	ST			

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				SUMMARY				
				Bulk Earthworks	Page	-72-		
				Water Supply	Page	-76-		
				Sewer Reticulation	Page	-80-		
				Roads and Parking	Page	-84-		
				Stormwater Drainage	Page	-87-		
				Fencing	Page	-91-		
				TOTAL	ST			

**LIMPOPO DEPARTMENT OF EDUCATION
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PHAPHAMANI PRIMARY SCHOOL**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	1/30	
2	4 CLASSROOM BLOCK	2/39	
3	2 GRADE R CLASSROOM BLOCK	3/42	
4	SMALL ADMINISTRATION BLOCK	4/43	
5	4 SEATS WATERBORNE TOILET BLOCK	5/38	
6	RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLOOS)	6/44	
7	PROVISIONAL SUMS	7/6	
	Sub- Total (PART A - MAIN BUILDING WORKS)		R
	<u>PART B - ELECTRICAL AND MECHANICAL WORK</u>		
	TENDER AMOUNT CARRIED OVER FROM PART B (ELECTRICAL AND MECHANICAL WORK)	Item	
	<u>PART C - CIVIL WORK</u>		
	TENDER AMOUNT CARRIED OVER FROM PART C (CIVIL WORK)	Item	
	Sub- Total - BUILDING COSTS		R
	<u>CONTINGENCY ALLOWANCE TO THE CONTRACT</u>		
	<u>Contingencies:</u>		
	Allow an amount of R1 100 000.00 (One Million One 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	
	Carried Forward		R

**LIMPOPO DEPARTMENT OF EDUCATION
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Section No	<u>FINAL SUMMARY</u>	Page No		Amount
	Brought Forward		R	
	<u>Inflation:</u>			
	Allow an amount of R1 200 000.00 (One Million Two Hundred Thousand) for price adjustment for inflation.	Item		
	Sub- Total Excluding VAT		R	
	Tax		R	
	Carried to Form of Tender		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.



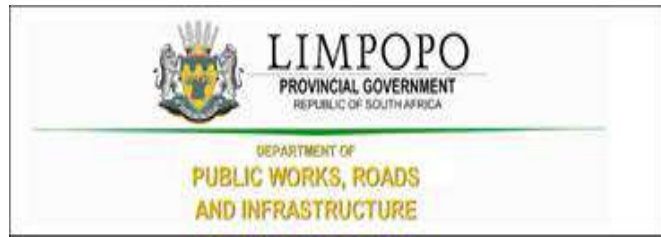
PART C3.2: OHS SPECIFICATIONS



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

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

PART C4 SITE INFORMATION



C4.1 DRAWINGS

FINISHES LEGEND

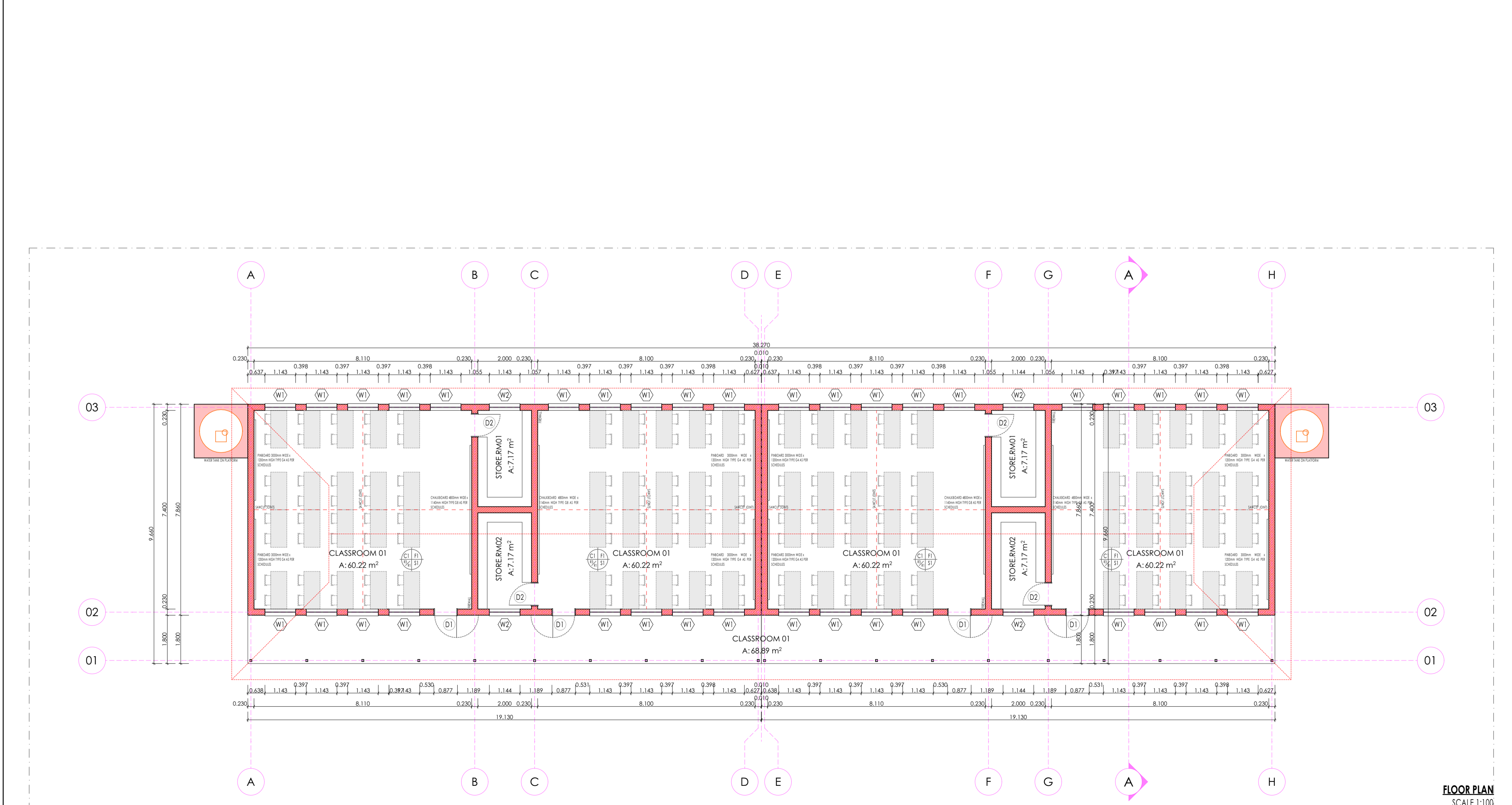
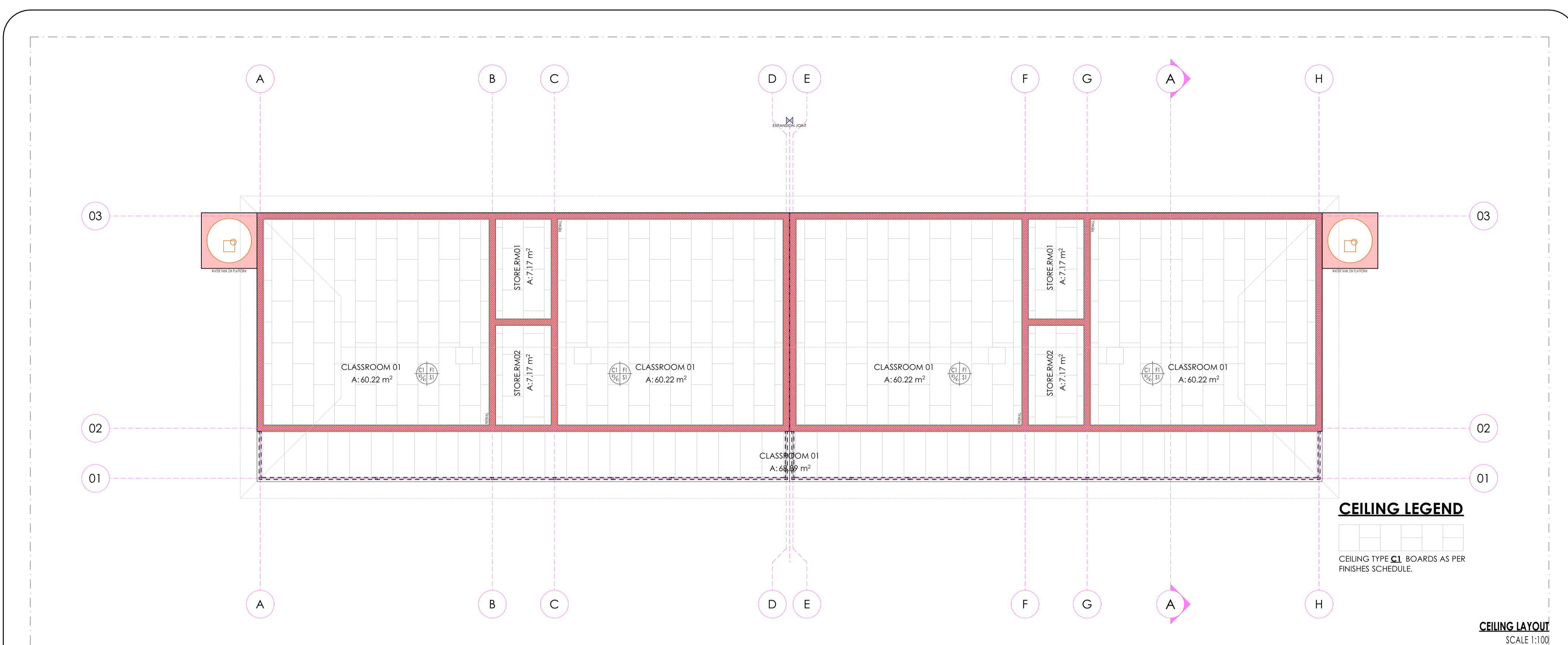
- FLOORS:**
- F1: PORCELAIN TILES - MATI (CONTOUR RESISTANT & ANTI-SLIPPER)**
420 x 420 11.5mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm . 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wira test and ISO body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANOLITHIC FINISH**
22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosion Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO x ISO (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed glued with conductive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosion resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PEE Details installed in All Duct Chambers Accommodating Sanitary Services.

- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**
18 x 15mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**
600mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cone base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

- WALL FINISHES:**
- W1: FACE BRICK**
FXX face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- W2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W3: ENAMEL (ENAMEL) PAINT**
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- W5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

- CEILING AND CORNICE:**
- C1: 12mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
6.4mm thick GypCel Prestige S' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing non-combustible to SANS 10177.5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Calceus (Pre-Plastered or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings of 300mm centres. Donn T38 FR Main Tees @ 14mm thickness, 2150 gpa, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
Emulsion (PVA) Paint on Skimmed Plastered Slat 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffits.

- ROOF COVERING AND INSULATION:**
- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
- Roofing Sheets:** 1.58mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 9001. The profile shall have three trapezoidal ribs of 20mm centres giving a total cover of 456mm. The rib height shall be 41mm and provide cavity breaks. The male rib shall have gaps of 285mm centres to ensure a positive double interlocking action of side-laps. Each pan shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1. where there are acoustic ceilings suspended board, a heavy duty "Aluminium station foil" shall be installed AND 2. where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white meltable top.
- Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipes:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation Instructions.
- Facia board:** 250 x 10 mm Fibre Cement Facia/Barge Board. Screw Fixed To Tuss Dais & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH	C	F	FLOOR FINISH
WALL FINISH	R	S	WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION
BLOCK PJ 01 - 04 CLASSROOM

DRAWING DESCRIPTION
FLOOR PLAN & CEILING PLAN

DRG No.	E08 101-01	01/03	ITEM No.
DESIGN	NA	SMIN	DRAWN
DATE	AS SHOWN	T.M	CHECK

DATE	RESPONSIBLE PROFESSIONAL	PR. NUMBER
NOV 2019	T. MANTAZA	PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

TECTURA - INTERNATIONAL

SAUTHWICK
BANKING HOUSE
120 BANKING HOUSE
CANTONMENT RD
DURBAN 4001

PORT ELIZABETH
101-103 CENTRAL PARK
PORT ELIZABETH
6001

JOHANNESBURG
101-103 CENTRAL PARK
JOHANNESBURG
2001

PRETORIA
101-103 CENTRAL PARK
PRETORIA
0001

CAPE TOWN
101-103 CENTRAL PARK
CAPE TOWN
8001

WITWATERSBURG
101-103 CENTRAL PARK
WITWATERSBURG
0001

WWW.TECTURA.COM

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

FLOORS:

F1- FULLY FLEXIBLE TILES (CORROSION RESISTANT & ANTI-SLIPPER)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581:1992 (or later revision), and laid to SABS D70 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Ships Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2- PORCELAIN TILES - MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturer's instructions and SABS Specification. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Ships Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3- CARPET TILES
500mm x 500mm, 100% PEV staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DN S4324 on wire test and 50 body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.

F4- CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

F5- EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6- GRANULITIC FINISH
22 mm thick unfinned Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7- INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8- SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPER)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS D70 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9- GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1- HARDWOOD OR EQUAL AND APPROVED
75 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and milled corners with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2- CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

S3- CEMENT SAND SCREED
75mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

WALL FINISHES:

W1- FACE BRICK
F88 face brick in common running bond to comply with SABS 227 and forming part of the structural work.

W2- EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade I, in accordance to manufacturer's instructions.

W3- ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade I, in accordance to manufacturer's instructions.

W4- GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 530 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

W5- CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.

CEILING AND CORNICE:

C1- 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCell Classic" gypsum plasterboard ceiling OR EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinobond Snap Point Grabber Screws 22mm at maximum 150mm centres. Apply Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotile.

C2- FIBRE CEMENT BOARDS (JOINTS)
6mm thick GypCell Fibre 1 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinobond Snap Point Grabber Screws 22mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotile.

C3- PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm x 15mm Gyproc Calotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using Donn Hanger Strap. Donn 138 FR Main Tees @ 4mm thickness, 2150 gaw, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification, at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the tile notch. All tile notches to be in line. Suspends all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4- EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Plastered Surface: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab pff.

ROOF COVERING AND INSULATION:

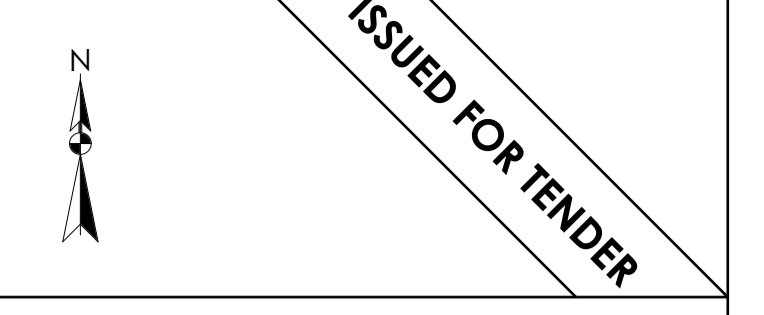
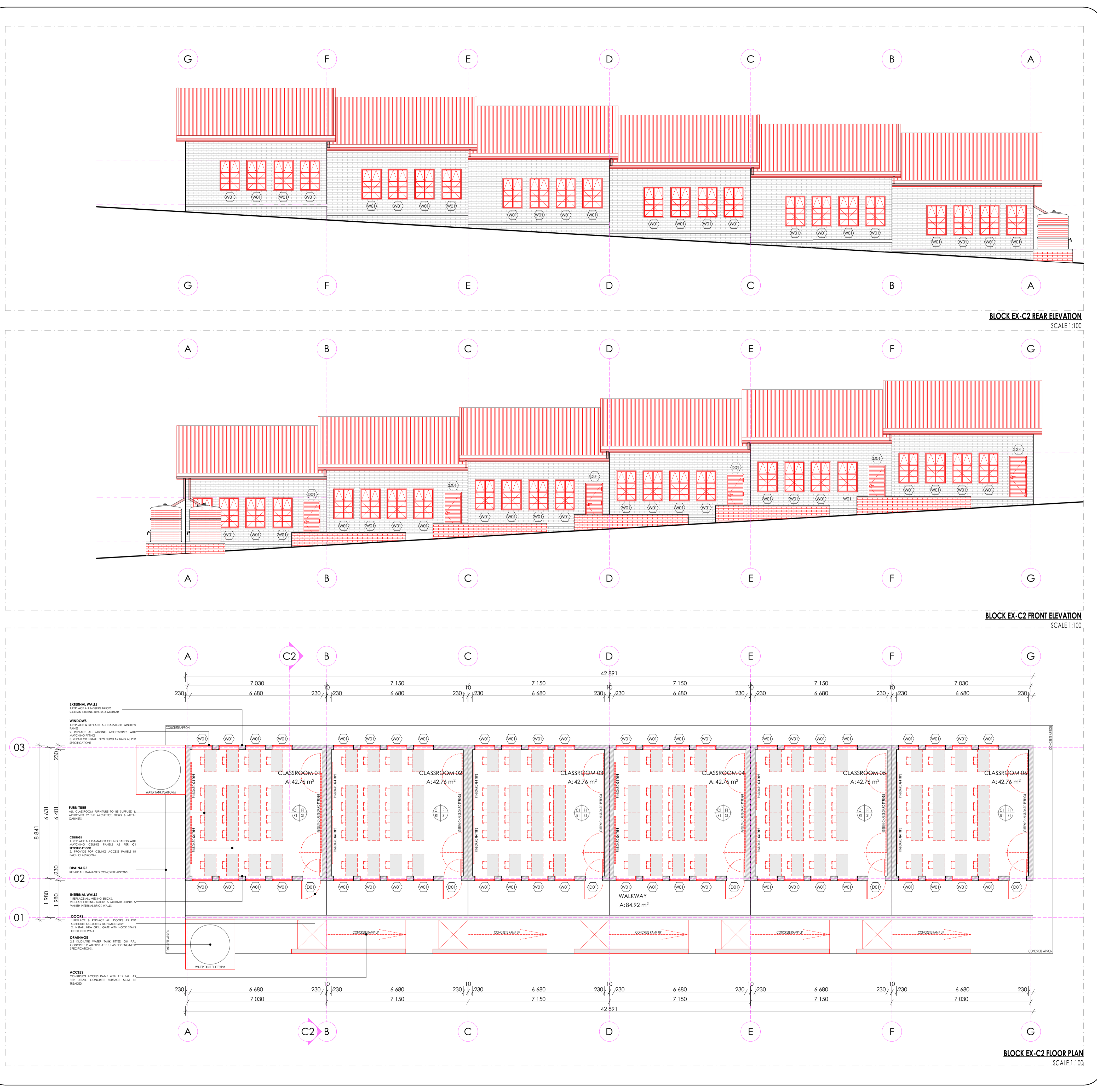
R1- EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheet: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with S2 350 (3). The profile shall have three trapezoidal ribs at 203mm centres giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Gibco Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave covers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1- where there are acoustic ceilings suspended board, a heavy duty "Aluminium isolation foil" shall be installed AND 2- where the steel work is exposed, a 50mm "Factoryboard" manufactured from non-combustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.

Galvanized Steel (GZI) Gutter: 150mm Wide x 100mm Deep x 4.6mm Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws To Manufacturer Installation Instructions.

Facia board: 250 x 10 mm Fibre-Cement Facia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH: C, F, R, S
FLOOR FINISH: C, F, R, S
WALL FINISH: C, F, R, S
WALL SKIRTING FINISH: C, F, R, S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
INSTITUTION

PHAPHAMANI PRIMARY - 924 650 535

CONTRACT - SECTION
RESTORATIVES, REPAIRS & ADDITIONS

DISCIPLINE
DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION
RENOVATION DRAWINGS - STAGE 04

DRAWING DESCRIPTION
C2 PLAN | FRONT & REAR ELEVATION

DRG. NO.	E08-102-01	01/02	ITEM No.
DESIGN	NA	SMIN	DRAWN
DATE	AS SHOWN	T.M	CHECK
NOV 2019	T. MAHYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT
TECTURA - INTERNATIONAL!

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

FLOOR FINISHES:
F1: FULLY FLEXIBLE TILES (Corrosive Resistant) & Anti-Slip)
300 x 300 x 2.0mm thick (colour type to architects approval)...

F2: PORCELAIN TILES - MATT
600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist...

F3: CERAMIC TILES
300mm x 300mm x 100% PEV staple fibre caplet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof jute backing...

F4: CEMENT SAND SCREED
30mm thick potted cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVING
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and graded in strict accordance to manufacturer's specifications...

F6: GRANULITIC FINISH
22mm thick unsealed Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that will pass through a 5mm mesh sieve...

F7: INTERLOCKING PAVING (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPER)
2.5mm thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible to Comply With SABS 586. With Static Dissipative Properties Throughout Thickness...

F9: GRAVEL FINISH ON SAND LAYER
30mm Gravel On Compacted Sand Layer Base as Per PE Details installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:
S1: HARDWOOD OR EQUAL AND APPROVED
15x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with spigoted heading joints and mitred corners with screws and plugs of centres not exceeding 600mm...

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification...

S3: CEMENT SAND SCREED
75mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval...

WALL FINISHES:
W1: FACE BRICK
FB1: FACE BRICK
FB2: FACED BRICK
FB3: FACED BRICK WITH COMMON RUNNING BOND TO COMPLY WITH SABS 227 AND FORMING PART OF THE STRUCTURAL WORK.

W2: EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.

W3: ENAMEL PAINT
2 no. coats matt (egg shell) finish alkali (enam)l paint to SABS 650, type 2 applied on plastered surfaces with 1 no. coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.

W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'RS', laid on 15 mm thick plaster prepared to receive wall tile finish with approved adhesives and grout in compliance to manufacturer's specifications...

W5: CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tile finish with approved adhesives and grout in compliance to manufacturer's specifications...

CEILING AND CORNICE:
C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCell Classic' gypsum plasterboard ceilings EQUAL & APPROVED consisting of 1 layer Gyproc Rhiho-board 9mm (locally manufactured, ISO 9001 & 14001 certification)...

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6mm thick Gyproc Restec 7 fibre cement ceiling boards OR EQUAL & APPROVED consisting of 1 layer Gyproc Rhiho-board 9mm (locally manufactured, ISO 9001 & 14001 certification)...

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fibre Fused OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c.

C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Skinned Plastered Spig: 2no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab off.

ROOF COVERING AND INSULATION:
ROOFING:
R1: EMOSSUED SHEETING (TWO SIDES)
Embossed 0.85mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 350 (3). The profile shall have three trapezoidal ribs at 203mm centres giving a net cover of 456mm...

INSULATION:
I1: SHALLOO STRIP: 1: where there are acoustic ceilings suspended board a heavy duty Aluminium insulation foil shall be installed AND 2: where the steel work is exposed, a 50mm 'Fastrysound' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m3 and finished with white melonized foil.

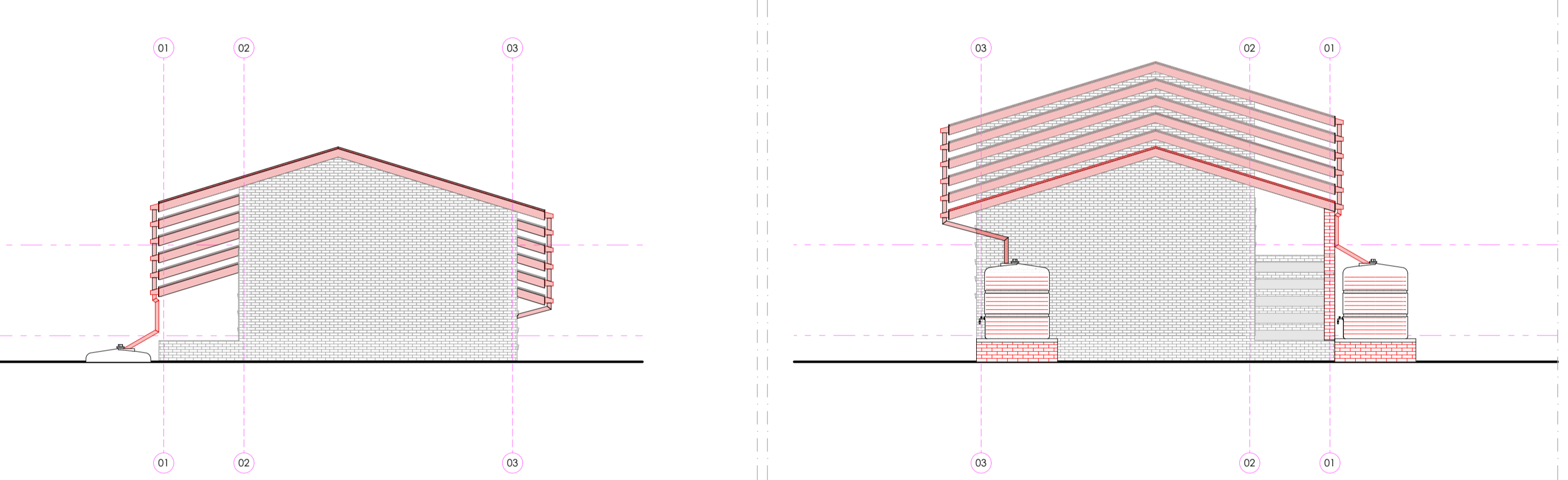
Galvanized Steel (IGI) Gutter: 150mm Deep x 100mm Deep x 4.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing to Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 6.0mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing to Comply With SABS 934 or Latest Revision to be built into wall or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.

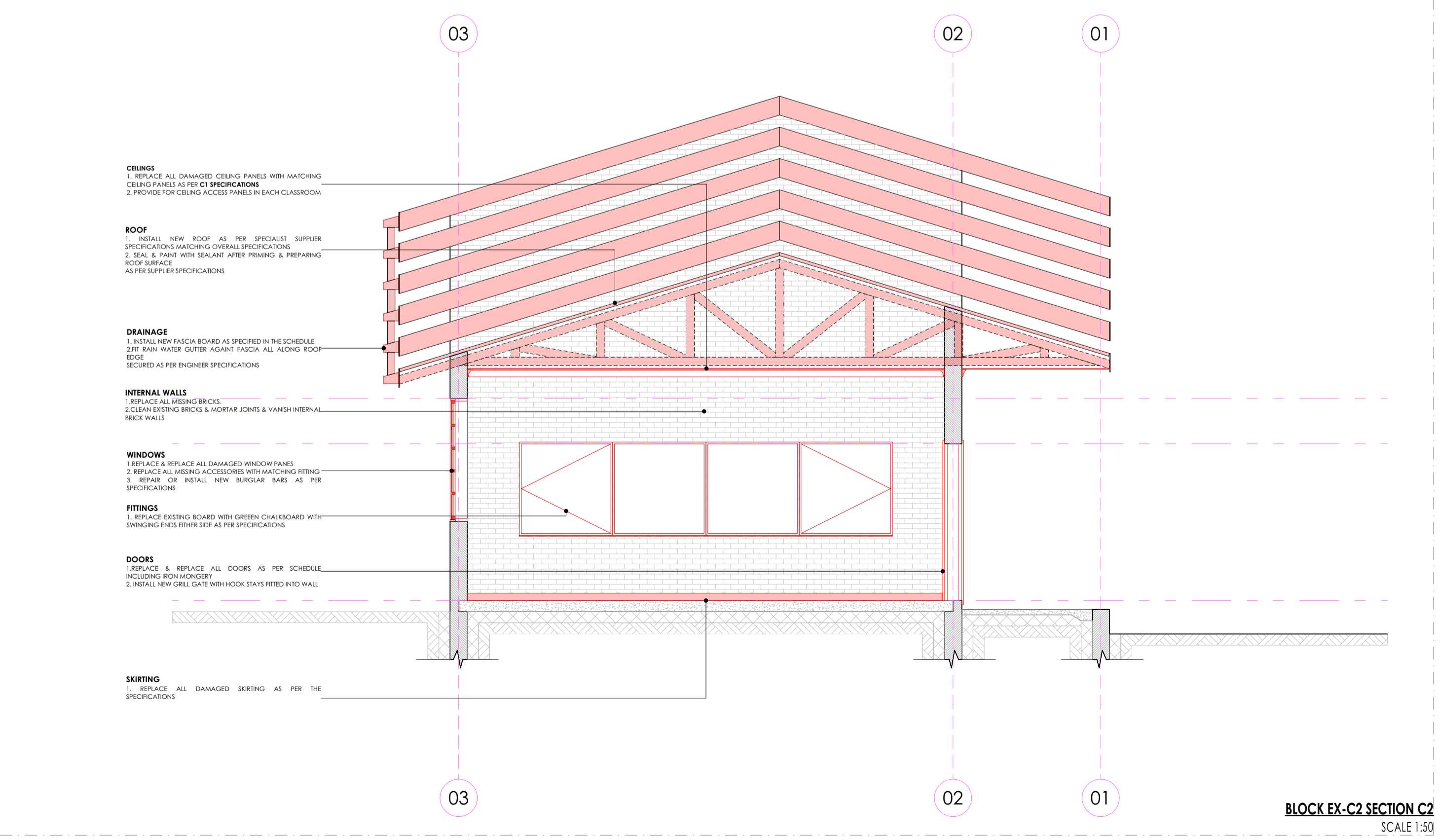
Facia board: 750 x 10 mm Fibre Cement Facia/Barge Board, Screw Fixed to Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE and WINDOW SCHEDULE tables with columns for QTY, DESCRIPTION, and HINGES. Includes details for exterior doors, burglar doors, and various window types like W01, W02, W03, W04, W05, W06, W07, W08, W09, W10, W11, W12.

BLOCK EX-C2 DOOR SCHEDULE SCALE 1:100 and BLOCK EX-C2 WINDOW SCHEDULE SCALE 1:100



BLOCK EX-C2 LEFT ELEVATION SCALE 1:100 and BLOCK EX-C2 RIGHT ELEVATION SCALE 1:100



BLOCK EX-C2 SECTION C2 SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER
11: CERAMIC STANDARD WC (C.C.) CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermo Seal Plastic Seal'...

SANITARY ACCESSORIES
K1: SS TOILET ROLL HOLDER - 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high x 275mm deep Toilet Roll Holder manufactured from 1810 Stainless Steel...

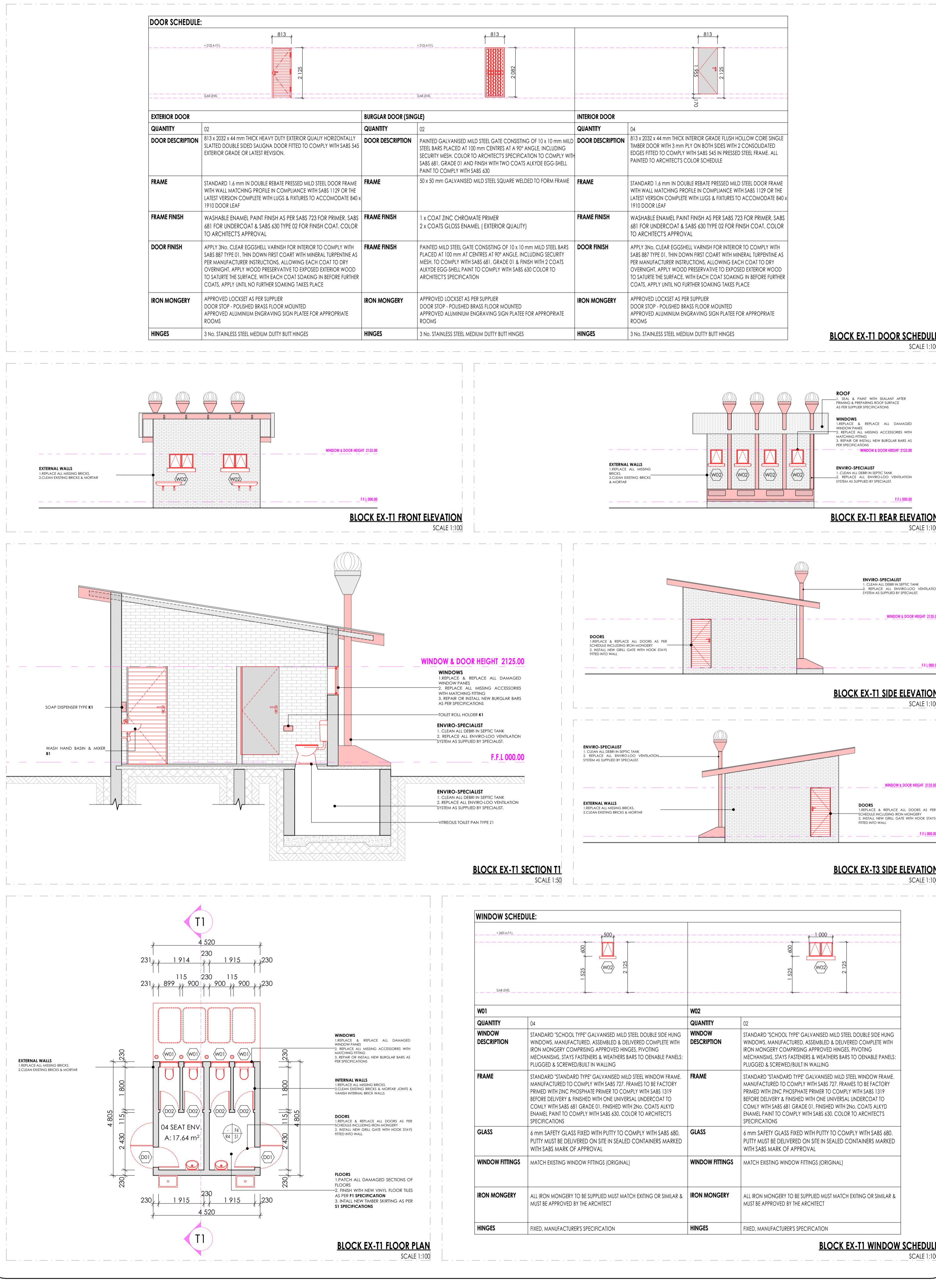
GENERAL FIXTURES
G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to full door width from 3m length, installed strictly in accordance to manufacturer's specifications...

CONTRACTOR
CAD SYSTEM: AUTOCAD
PROJECT NUMBER: LDPW - PROF/16002/E08
DATE: NOV 2019

ISSUED FOR TENDER
LEGEND
NEW WALLS, EXISTING WALL TO BE RETAINED, EXISTING WALL TO BE DEMOLISHED, NEW FIXTURES & FITTING TO BE INSTALLED, ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED
NOTES: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE GRADED, NOT TO SCALED FROM THIS DRAWING
CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT
SIGNATURE TABLE with columns for DISCIPLINE, CLIENT, FIRE EXAMINER, ENVIRONMENTAL, ROADS / STORMWATER, WATER & SANITATION, SIGN, DATE
REVISIONS table
LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA
PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION
PHAPHAMANI PRIMARY - 924 650 535
RESTORATIVES, REPAIRS & ADDITIONS CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT ARCHITECTURAL 4
RENOVATION DRAWINGS - STAGE 04 DRAWING DESCRIPTION
C2 SECTION | SIDE ELEVATIONS | SCHEDULES
DRG No: E08-102-02, DESIGN: NA, DATE: AS SHOWN, PR. NUMBER: P/Arch 43981757

FINISHES LEGEND

FOORS:
F1: FULLY FLEXIBLE TILES (Corrosive Resistant/ Anti-Slip)
 300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification S81: 1992 (or later revision), and laid to SABS D70 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is a change of level. Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
F2: PORCELAIN TILES - MATI
 600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/ Specification in strict compliance to manufacturers specifications and SABS specifications. Fittings to include, ribbed angle files where there is a change of level and Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
F3: CARPETILES
 600mm x 600mm x 100% PVF Staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4740 on fire rating, and BS 5424 on wire test and 60 body test at less than 2kV at 25Hz RFL on static electricity. Colour and pattern to architects approval.
F4: CEMENT SAND SCRED
 30mm thick packed cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.
F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
 60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest revision.
F6: GRANOUTCUP FINISH
 22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
 220mm x 197mm x 80mm thick concrete interlocking pavers, 23 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
F8: SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
 2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS S86. With Static Dissipative Properties Throughout Thickness. Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed grid with conductive adhesive to SABS D70 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect's Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.
F9: GRAVEL FINISH ON SAND LAYER
 30mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.
S1: HARDWOOD OR EQUAL AND APPROVED
 18 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with spigoted heading joints and mitred corners with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
S2: CERAMIC TILE SKIRTING
 600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is a change of level. Colour and pattern to architects approval.
S3: CEMENT SAND SCRED
 75mm high 20mm thick hardened cement sand screed skirting coverd at 50mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.
WALL FINISHES:
F1: FACE BRICK
 F8 face brick in common running bond to comply with SABS 227 and forming part of the structural work.
F2: EMULSION (PVA) PAINT - FULL HEIGHT
 2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade D1, in accordance to manufacturer's instructions.
F3: ENAMEL PAINT
 2 no. coats matt (egg shell) finish alkyd (jenamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no coat acid resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.
F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
 Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S5', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'R2' to comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
F5: CERAMIC WALL TILES - FULL HEIGHT
 600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.
CEILING AND CORNICE:
C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
 'GypCalc Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospacer listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Strap Paint Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinoplate to all joints and skim the ceiling using Gyproc Rhinoplate.
C2: FIBRE CEMENT BOARDS (IN JOINTS)
 6mm thick GypCalc Fibreboard ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospacer listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Strap Paint Grabber Screws 32mm at maximum 150mm centres with all necessary accessories. Finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinoplate to all joints and skim the ceiling using Gyproc Rhinoplate.
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
 1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn 138 FR Main Tees @ 4mm thickness, 2150 gaud, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the file notch. All file notches to be in file. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 603 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED
 Two-tone High Hydrate Gypsum paint on concrete slab.
ROOF COVERING AND INSULATION:
R1: EMBOSSED RUBBER SHEET (TWO SIDES)
Roofing Sheets: 3.8mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromodak Coating' and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.
Insulation: SHALL BE ONE OF: 1- where there are acoustic ceilings suspended board a heavy duty 'Aluminium insulation foil' shall be installed AND 2- where the steel work is exposed, a 50mm 'Falcoboard' manufactured from non-combustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white melisolate foil.
Galvanized Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Envee Gutter of Commercial Grade Steel With Class D275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipes.
Dampstop: 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class D275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.
Fascia board: 750 x 110mm Fibre-Cement Fascia/Barge Board. Screw Fixed To Tuss Dots & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



SANITARY SCHEDULE

WC'S URINALS & SHOWER
W1: CERAMIC STANDARD WC (CC) - CONCEALED CISTERN
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermo Seal' Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
W2: CERAMIC PARALEGIC WC
 Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever.
W3: CERAMIC PARALEGIC WC (CC) - CONCEALED CISTERN
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermo Seal' Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever. Blank flush plate & offset push button for passage access
W4: CERAMIC STANDARD WC (BACK INLET)
 Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable external lever.
W5: CERAMIC STANDARD WC (CC)
 Vitreous china 90° outlet WC to comply with SABS 497 Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
W6: CERAMIC WALL HUNG URINAL
 Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical girting, CP top inlet spreader and two hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
W7: SHOWER
 2mm thick Emulsion steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
 • Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration.
 • Overhead shower arm with wall flange.
 • Chrome Plated Shower Head with dual jointed connector.
 • Chrome Plated Shower Diver mixer wall type with sliding wall flanges and concealed connectors adjustable from 178mm to 203 mm centres. Shower tray to be handed 50 mm into a 100mm high concrete plinth with exposed plinth face.
W8: HAND SOAP BASIN
W1: WTB & MIRROR TAP
 Vaso Sanitaryware vitreous china size 560 x 415mm rounded 'Tuscan', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap hole configuration supplied with integrated overflow and charity hole with a 'Tuscan' pedestal and fitted with 1No. chrome plated tap with flanged backout (code KM2102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded contact areas in strict accordance to manufacturer's specifications.
W2: DISABLED BASIN
 400mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backout. chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W3: WHITE GLAZED PORCELAIN WTB (VANITY)
 Ceramic freeco size 450x355mm oval self-rimming vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with 1No. chrome plated tap with flanged backout (code KM2102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded contact areas in strict accordance to manufacturer's specifications.
W4: SMALL BASIN & 2 TAPSTAY & SHOWER SET (FOR WORKSHOPS)
 Ceramic freeco size 450x200mm rectangular heavy duty basin in one tap hole configuration supplied with integrated overflow and charity hole with 2No. pillar taps, chrome plated anti-rill plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
W5: HEAVY DUTY BASIN & NO. TAP (FOR LABS)
 Ceramic freeco size 600x400mm rectangular heavy duty basin in one tap hole configuration to comply with SABS 497 and R45 hole plugged and fitted with 1No. pillar tap. Chrome Plated anti-rill plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
W6: MEDIC BASIN & FITTINGS (SICK BAY)
 Vitreous china size 400mm rectangular lavatory basin to comply with SABS 497, in two top hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backout. chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
 Combination of sanitaryware, accessories and general fittings comprising of:
 • Mirror type G.
 • Paper towel dispenser KB and bin type K3.
 • Soap dispenser type K5.
 • Spoutback comprising 2no. rows of wall tile finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
SINKS:
X1: STAINLESS STEEL SINK
 Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 905 fitted with Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
X2: STAINLESS STEEL SINK
 Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with Approved Sink mixer-wall type, with chrome plated overhead swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
X3: CERAMIC SINK
 Ceramic freeco 425 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets with all necessary accessories (all to be acid resistant)
X4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS
 800mm x 500mm inset wash trough manufactured from grade 18/10 S.S. stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbits - plan extended chrome plate. complete with sliding wall flange. Un-slotted sink waste with back nut, plug with strip, chain and stop. CP Tap, 1/4" top, with deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut out size 555 x 425mm.
X5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS
 1200 x 550 x 200mm Double bowl wash trough manufactured from grade 304 (18/10) S.S. stainless steel with rounded internal corners and provision for a 40mm dia. outlet, fitted with Approved 2no wall type bibbits, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP Un-slotted sink waste with back nut and plug with strip, CP Double drain back rubber deep seal Tap. Sink mounted on 2no. 25mm square S5 gallow brackets, front leg and adjustable foot piece of height of 915mm AFFL.
SANITARY ACCESSORIES
K1: SS TOILET ROLL HOLDER / ROLL
 Standard stainless steel toilet roll holder / roll 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Soft finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
K2: GLASS MIRROR
 6mm thick clear float glass silver-backed mirror. size 450x900mm height with polished beveled edges 4 times milled and fixed, with chromium plated dome-headed mirror screws
K3: SS WASTE BIN
 280W x 625H x 200D Waste bin manufactured from 18/10 Stainless Steel, Surface Soft Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
K4: SANITARY BIN (PLASTIC)
 190mm x 200mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
K5: SOAP HOLDER
 Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
K6: WALL GRAB BARS-PARALEGIC
 Stainless steel 914 x 90 x 32mm diameter wall floor grab rail in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
K7: GRAB BARS (RIGHT-LEF HAND) PARALEGIC
 Stainless steel 914 x 90 x 32mm diameter wall floor grab rail with 450mm high centre flange. In satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
K8: PAPER TOWEL DISPENSER
 330mmWx365mmHx220mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
K9: SOAP DISPENSER (HAND MOUNTED)
 115W x 200H x 110D Stainless steel hand free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
K10: ALUMINIUM COAT HOOKS (MULTITRACK)
 800mm Wide x 220mm High x 90mm High Aluminium Multitrack Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.
K11: HAND DRYER (Hands free)
 As per Electrical Engineers specification
K12: TOWEL RAIL
 55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
K13: SHOWER CURTAIN RAIL (straight)
 20mm dia. stainless chromum plated shower curtain rail 1800mm long with flanged ends and screws CP fixing height as per PA's drawing.
GENERAL FIXTURES
G1: DOOR PROTECTOR
 200mm wide UPVC Door Protector manufactured in high impact resistant rigid UPVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.
G2: PROTECTOR SCREENS
 Full-door UPVC Screen Size 2240 x 1850mm (Including eye size 2240 x 1750mm) with wall-mounted CODE SC0040 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.
G3: FINBARO 150W X 1000H
 Finbaro size 1000mm H x 1500mm W comprising of laminated self board core pinning material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screw and wall plugs at 900mm above floor level.
G4: FINBARO 300W X 1200H
 Finbaro size 1200mm H x 3000mm W comprising of laminated self board core pinning material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screw and wall plugs at 900mm above floor level.
G5: WINDOW NORMAL BINDS (vertical blinds)
 127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel T10 mechanism to be operated by a nylon ball chain with a reduction gear ratio a fully enclosed cap. Blinds to be face fixed (faced over the window opening) by means of concealed type fixing brackets.
G6: FLOOR DRAIN
 Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
G7: SS FLOOR EXPANSION JOINT COVER
 Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
G8: CHALKBOARDS - GREEN SURFACE COLOUR
 Vitex system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enameled steel utility school chalkboards wall-mounted size 600mm x 1140mm high manufactured in accordance with SABS Standard CE 362204 Edition 4 and suitable for Class T1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (White Colour Reference - Chalk Board Green LM197/2), supplied complete with integral aluminium chalk rail (ACKR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPELLED

NOTES
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
 DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
 CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH: C, F, S
 FLOOR FINISH: F
 WALL FINISH: W
 WALL SKIRTING FINISH: S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REV.	NO	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER	

REVISIONS

LIMPOPO
 PROVINCIAL GOVERNMENT
 REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
 INSTITUTION

PAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE	NO
ARCHITECTURAL	4

WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION
EX-T1 FLOOR / SECTION | SIDES | SCHEDULES

DRG No.	E08-201-01	01/01	ITEM No.
DESIGN	N/A	SMIN	DRAWN
DATE	AS SHOWN	T.M	CHECK

DATE	RESPONSIBLE PROFESSIONAL	PR. NUMBER
NOV 2019	T. MANIYAZA	Pr/ACH 43981757

DRAWING CO-ORDINATED

CONSULTANT

TECTURA - INTERNATIONAL!

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slip)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES - MATI
600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/Specification in strict compliance to manufacturer's specifications and SABS Specification. Fittings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET Tiles
500mm x 500mm x 100R RFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4740 on fire rating, and BS 5424 on wire test and 50 body test at less than 2kV at 25Hz R/F on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick potted cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest revision.

F6: GRANOUTCURE FINISH
22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed with conductive adhesive to SABS 070 or latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
30mm Gravel On Compacted Sand Layer Base as Per P&E Details Installed in All Duct Chambers Accommodating Sanitary Services.

S1: HARDWOOD OR EQUAL AND APPROVED
18 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be finished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is a change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75mm high x 20mm thick hardened cement sand screed skirting covered at 50mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

WALL FINISHES:

F1: FACE BRICK
F8 face brick in common running bond to comply with SABS 227 and forming part of the structural work.

F2: EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.

F3: ACRYLIC ENAMEL PAINT
2 no. coats matt (egg shell finish alkyd (jenamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no coat acid resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.

F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S5', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'S2' to comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

F5: CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCalc Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinobond Snap Point Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinobond to all joints and skim the ceiling using Gyproc Rhinobond.

C2: FIBRE CEMENT BOARDS (IN JOINTS)
6mm thick GypCalc Fibre Cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinobond Snap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinobond to all joints and skim the ceiling using Gyproc Rhinobond.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into floor ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaud, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the tile notch. All the notches to be in line. Spine of full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Skinned Plastered S&P. 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

ROOF COVERING AND INSULATION:

R1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 1.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 350 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromolock Coatings' and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

Insulation: SHALL BE: 2. where there are acoustic ceilings suspended board, a heavy duty 'Aluminium insulation foil' shall be installed AND 2. where the steel work is exposed, a 50mm 'Falcobond' manufactured from noncombustible glass fibres and therm-set resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white melisolate foil.

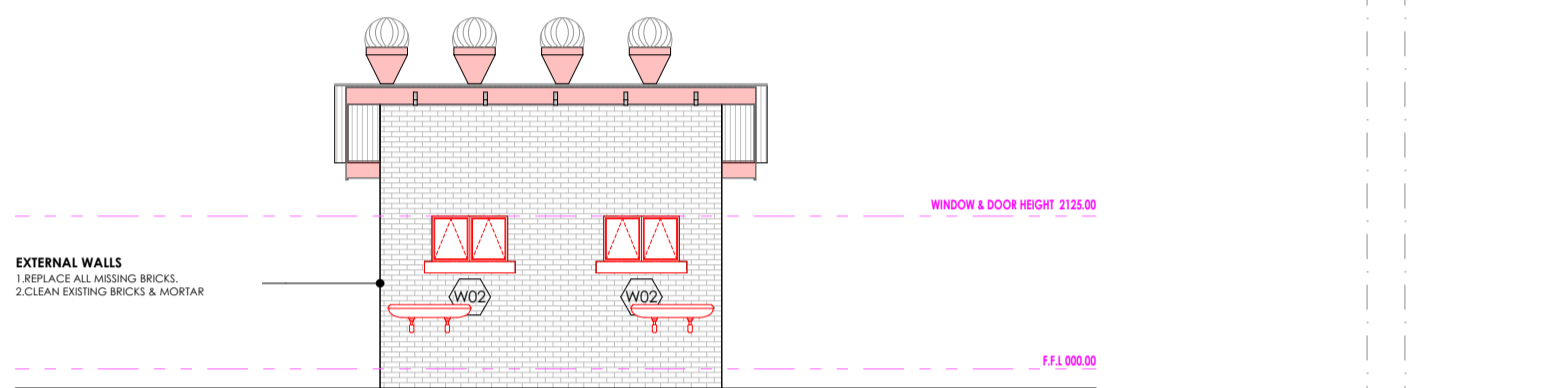
Galvanized Steel (GI) Gutter: 150mm Wide x 100mm Deep x 4.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws. Manufacturer Installation Instructions.

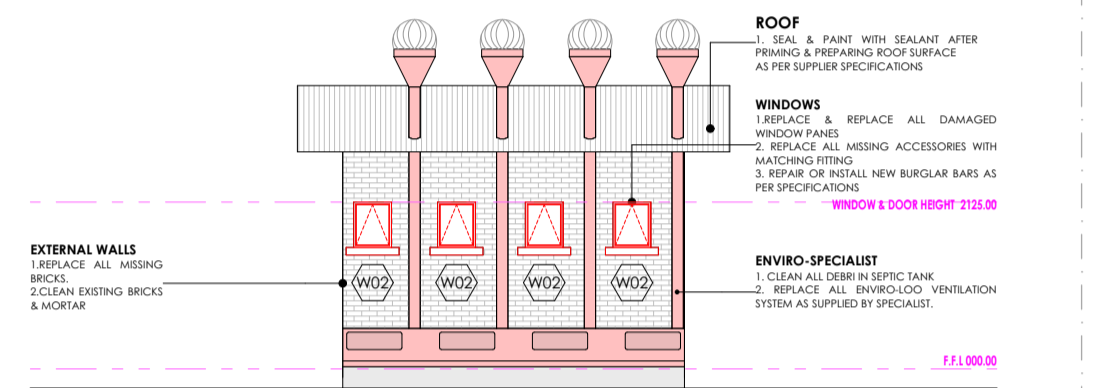
Facia board: 250 x 110 mm Fibre-Cement Facia/Barge Board. Screw Fixed To Tuss 4's. Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

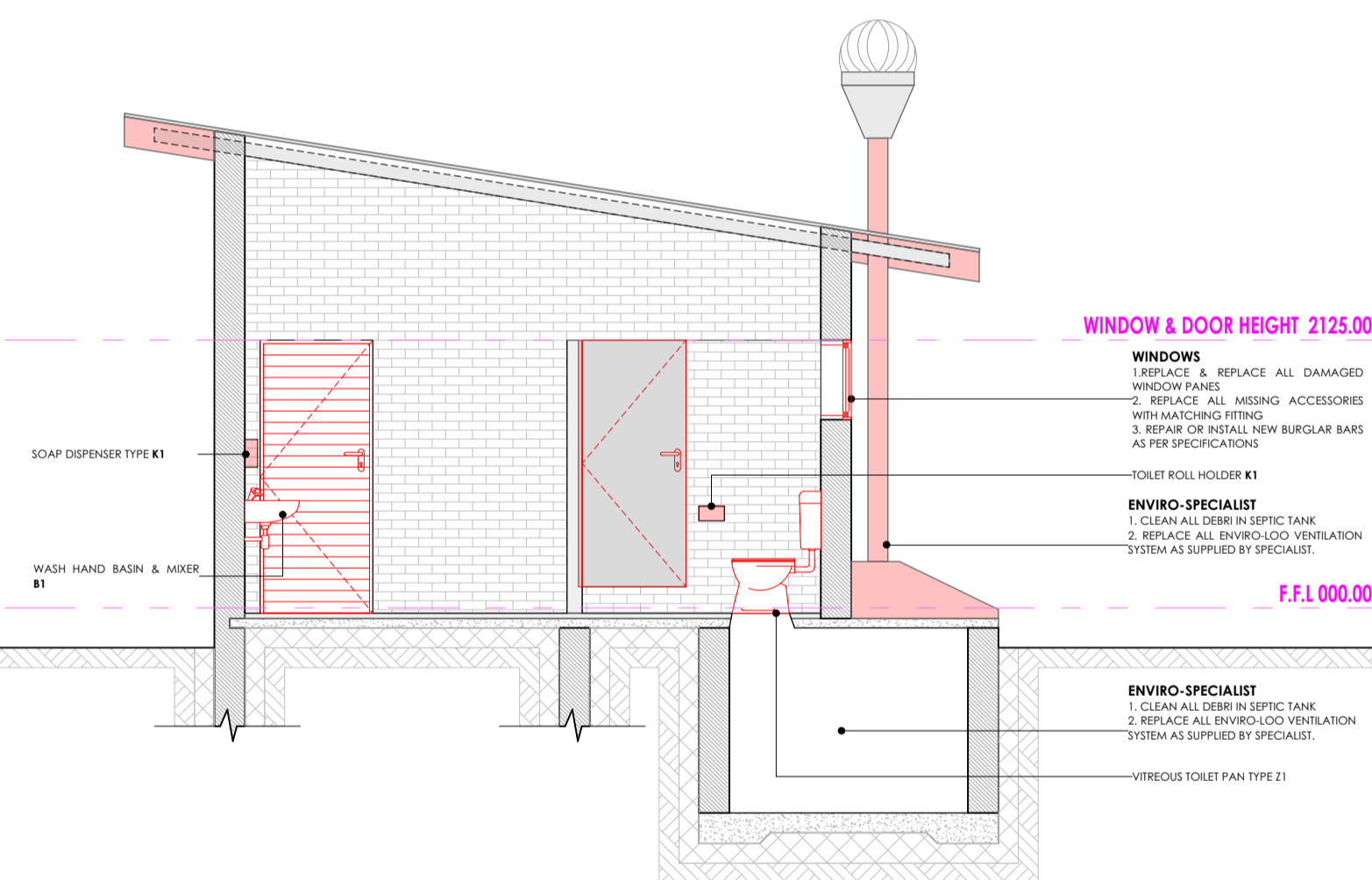
DOOR DESCRIPTION	QUANTITY	DOOR DESCRIPTION	QUANTITY	DOOR DESCRIPTION	QUANTITY
02 813 x 2032 x 44mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATED DOUBLE SIDED SALIKONA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	02	02 PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm CENTRES AT A 90° ANGLE INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 881. GRADE O1 AND FINISH WITH TWO COATS ALKYLID EGG-SHELL PAINT TO COMPLY WITH SABS 630.	02	04 813 x 2032 x 44mm THICK INTERIOR GRADE FLOW-HOLLOW CORE SINGLE TIMBER DOOR WITH 3mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED DOGS FITTED TO COMPLY WITH SABS 546 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECTS COLOUR SCHEDULE.	04
FRAME STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.	FRAME FINISH WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 650 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.	FRAME FINISH 1 x COAT ZINC CHROMATE PRIMER 2 COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 650 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.	FRAME FINISH STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.	FRAME FINISH WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 650 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.
DOOR FINISH APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01. THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	DOOR FINISH PAINTED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm AT CENTRES AT 90° ANGLE INCLUDING SECURITY MESH TO COMPLY WITH SABS 881. GRADE O1 & FINISH WITH 2 COATS ALKYLID EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	DOOR FINISH APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01. THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.
HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES		HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES		HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	



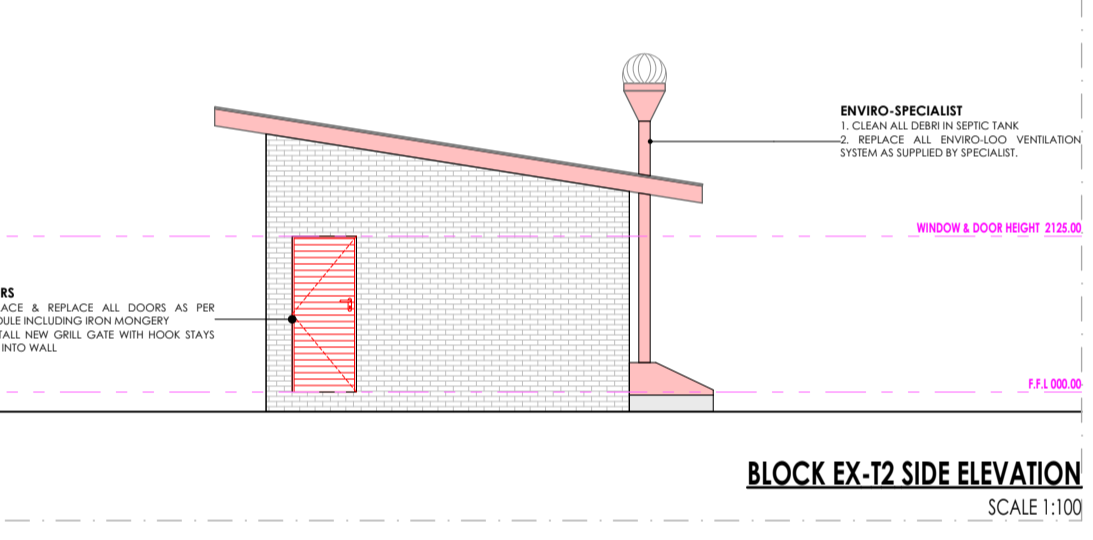
BLOCK EX-12 FRONT ELEVATION
SCALE 1:100



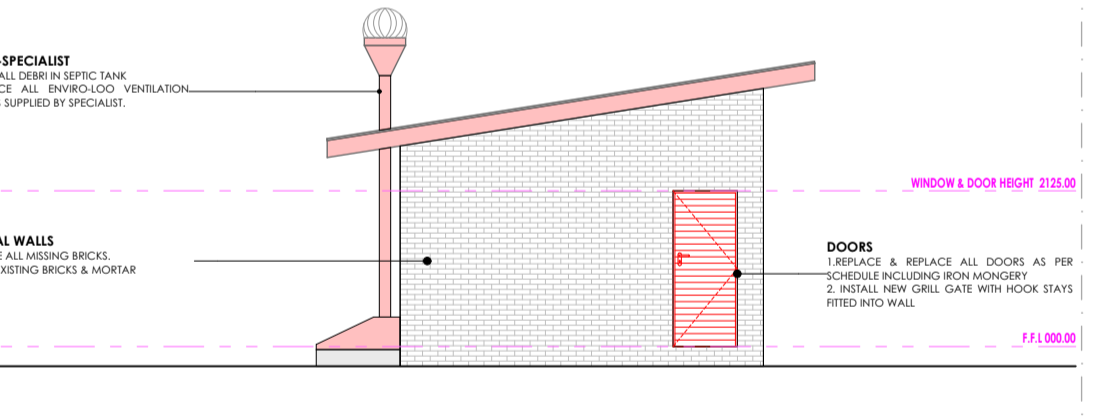
BLOCK EX-12 REAR ELEVATION
SCALE 1:100



BLOCK EX-12 SECTION T2
SCALE 1:50



BLOCK EX-12 SIDE ELEVATION
SCALE 1:100



BLOCK EX-12 SIDE ELEVATION
SCALE 1:100

WINDOW SCHEDULE:

WINDOW DESCRIPTION	QUANTITY	WINDOW DESCRIPTION	QUANTITY
W01 STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS. PLUGGED & SCREWED/BUILT IN WALLING.	04	W02 STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS. PLUGGED & SCREWED/BUILT IN WALLING.	02
FRAME STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881 GRADE O1. FINISHED WITH 2no. COATS ALKYLID ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME FINISH STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881 GRADE O1. FINISHED WITH 2no. COATS ALKYLID ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881 GRADE O1. FINISHED WITH 2no. COATS ALKYLID ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME FINISH STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881 GRADE O1. FINISHED WITH 2no. COATS ALKYLID ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.
GLASS 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.	GLASS 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.	GLASS 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.	GLASS 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.
WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION

BLOCK EX-12 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

W1: CERAMIC STANDARD WC (CC) - CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermoast Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

W2: CERAMIC PARALEGIC WC
Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

W3: CERAMIC PARALEGIC WC (CC) - CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermoast Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for passage access.

W4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

W5: CERAMIC STANDARD WC (CC)
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoplast seal and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

W6: CERAMIC WALL HUNG URINAL
Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical girting, CP top inlet spreader and two hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

W7: SHOWER
20mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Gated Shower Cubicle with access door as per standard supply with manufacturer and sized to fit space configuration.
• Overhead shower arm with wall flange.
• Chrome Plated Shower Head with dual jetted connector.
• Chrome Plated Shower Diverter mixer-valve type with sliding wall flanges and concealed connectors adjustable from 178mm to 203mm centres. Shower tray to be recessed 50mm into a 100mm high concrete pith with exposed pith face laid.

W8: WASH HAND BASIN
W1: WTB & MIRROR TAP
Vital Sanitaryware vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap hole configuration supplied with integrated overflow and charity hole with a 'Tuscany' pedestal and fitted with 100 'Cobra Waterflex' 15mm chrome pushbutton operating plate top with flanged bracket (code KM1102) meeting tap, 300-32 CP anti-flood plug with angle valve, 300 basin waste, 365/40 CP bottle trap, mounting kit and angle valves.

W2: DISABLED BASIN
200mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.

W3: WHITE GLAZED PORCELAIN WTB (VANITY)
Ceramic freesty size 450x350mm oval self-empting vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with 100 chrome plated tap with flanged bracket (code KM1102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded contact areas in strict accordance to manufacturer's specifications.

W4: SMALL BASIN & 2 TAPSTAY & SHOWER SET (FOR WORKSHOPS)
Ceramic freesty size 450x200mm rectangular heavy duty basin in one tap hole configuration supplied with integrated overflow and charity hole with 2no. pillar taps, chrome plated anti-flood plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

W5: HEAVY DUTY BASIN & NO. TAP (FOR LABS)
Ceramic freesty size 500x400mm rectangular heavy duty basin in one tap hole configuration to comply with SABS 497 and RFS hole plugged and fitted with 100 pillar tap. Chrome Plated anti-flood plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2no. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

W6: MEDIC BASIN & FITNESS (SICK BAY)
Vitreous china size 450x200mm rectangular lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.

W7: SINKS:
W1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

W2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with Approved Sink mixer-wall type, with chrome plated overflow swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

W3: CERAMIC SINK
Ceramic freesty 425 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet. Fitted to the wall on two semi-concealed brackets with all necessary accessories (all to be acid resistant)

W4: SINGLE WASH TROUGH (Inset) & 2no. TAPS
800mm x 500mm inset wash trough manufactured from grade 18/10 S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbits - plain extended chrome plate, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with strip, chain and stop. CP Tap, 1/4" top, with deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut out size 555 x 425mm.

W5: DOUBLE WASH TROUGH (Inset) & 2no. TAPS
1200 x 550 x 200mm double bowl wash trough manufactured from grade 18/10 S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no wall type bibbits, with Swivel Outlet, adjustable wall flanges and exposed adjustable connectors. CP Un-slotted sink waste with back nut and plug with strip, CP. Double drain back rubber deep seal Tap. Sink mounted on 2no. 25mm square S5 gallow brackets, front leg and adjustable foot piece of height of 915mm AFFL.

W6: SANITARY ACCESSORIES
K1: SS TOILET ROLL HOLDER & ROLL
Standard stainless steel toilet roll holder 2 roll 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Soft finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror. size 450x900mm height with polished beveled edges 4 times folded for and fixed, with chromium plated dome-headed mirror screws

K3: WASTE BIN
325W x 525H x 200D Waste bin manufactured from 1810 Stainless Steel, Surface Satin Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB BAILS-PARALEGIC
Stainless steel 914 x 90 x 32mm diameter wall floor grab rail in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB BAILS (RIGHT-LEF HAND)-PARALEGIC
Stainless steel 914 x 90 x 32mm diameter wall floor grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
330mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER (HIGH-WALL MOUNTED)
115W x 200H x 110D Stainless Steel hand soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (MULTITRACK)
800mm Wide x 220mm High x 90mm High Aluminium Multitrack Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (slight)
20mm dia. chromom plated shower curtain rail 1800mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide UPVC Door Protector manufactured in high impact resistant rigid UPVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FF, or as specified.

G2: PROTECTOR SCREENS
Full-door PVC Screen Size 2240 x 1850mm (Including eye size 2240 x 1750mm) with wall-mounted code SCA000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturer's instructions.

G3: FINBARO 150W x 1000H
Finbaro size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: FINBARO 300W x 1200H
Finbaro size 1200mm H x 3000mm W comprising of laminated self board core priming material beaded all round with anodised aluminium

FINISHES LEGEND

FOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slip)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES - MATI
600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/Specification in strict compliance to manufacturer's specifications and SABS Specification. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm x 100% PVY Staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with BS 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and BS 54324 on wire test and 50 body test at less than 2kV at 25Hz R/F on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick potted cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOUTCURE FINISH
22 mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed grid with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
30mm Gravel On Compacted Sand Layer Base as Per P&E Details Installed in All Duct Chambers Accommodating Sanitary Services.

S1: HARDWOOD OR EQUAL AND APPROVED
18 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75mm high x 20mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

WALL FINISHES:

F1: FACE BRICK
F8 face brick in common running bond to comply with SABS 227 and forming part of the structural work.

F2: EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 81 grade 1, in accordance to manufacturer's instructions.

F3: ENAMEL PAINT
2 no. coats matt (egg shell finish alkyd (jenamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no coat acid resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 81 grade 1, in accordance to manufacturer's instructions.

F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S5', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'R2' to comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

F5: CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCalc Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinobond Strap Paint Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinobond to all joints and skim the ceiling using Gyproc Rhinobond.

C2: FIBRE CEMENT BOARDS (R-JOINTS)
6mm thick GypCalc Fibreboard ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinobond Strap Paint Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinobond to all joints and skim the ceiling using Gyproc Rhinobond.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn T38 FR Main Tees (8.4mm thickness, 2150 gaud, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the file notch. All file notches to be in file. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 603 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Skinned Plastered S&P: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

ROOF COVERING AND INSULATION:

F1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 1.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromokod Color' and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

Insulation: SHALL BE: 1- where there are acoustic ceilings suspended board a heavy duty 'Aluminium insulation foil' shall be installed AND 2- where the steel work is exposed, a 50mm 'Fasobond' manufactured from non-combustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white meltable foil.

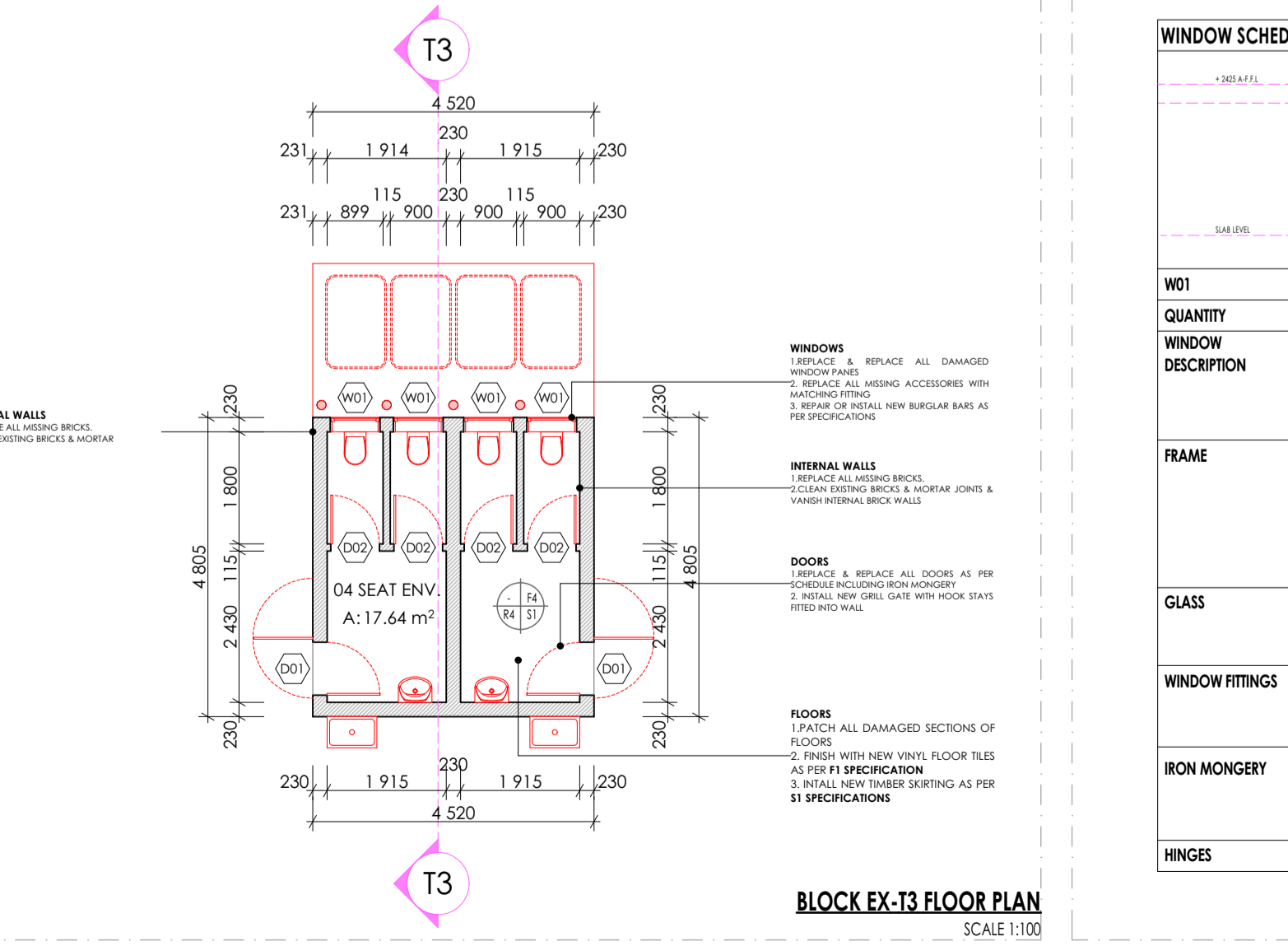
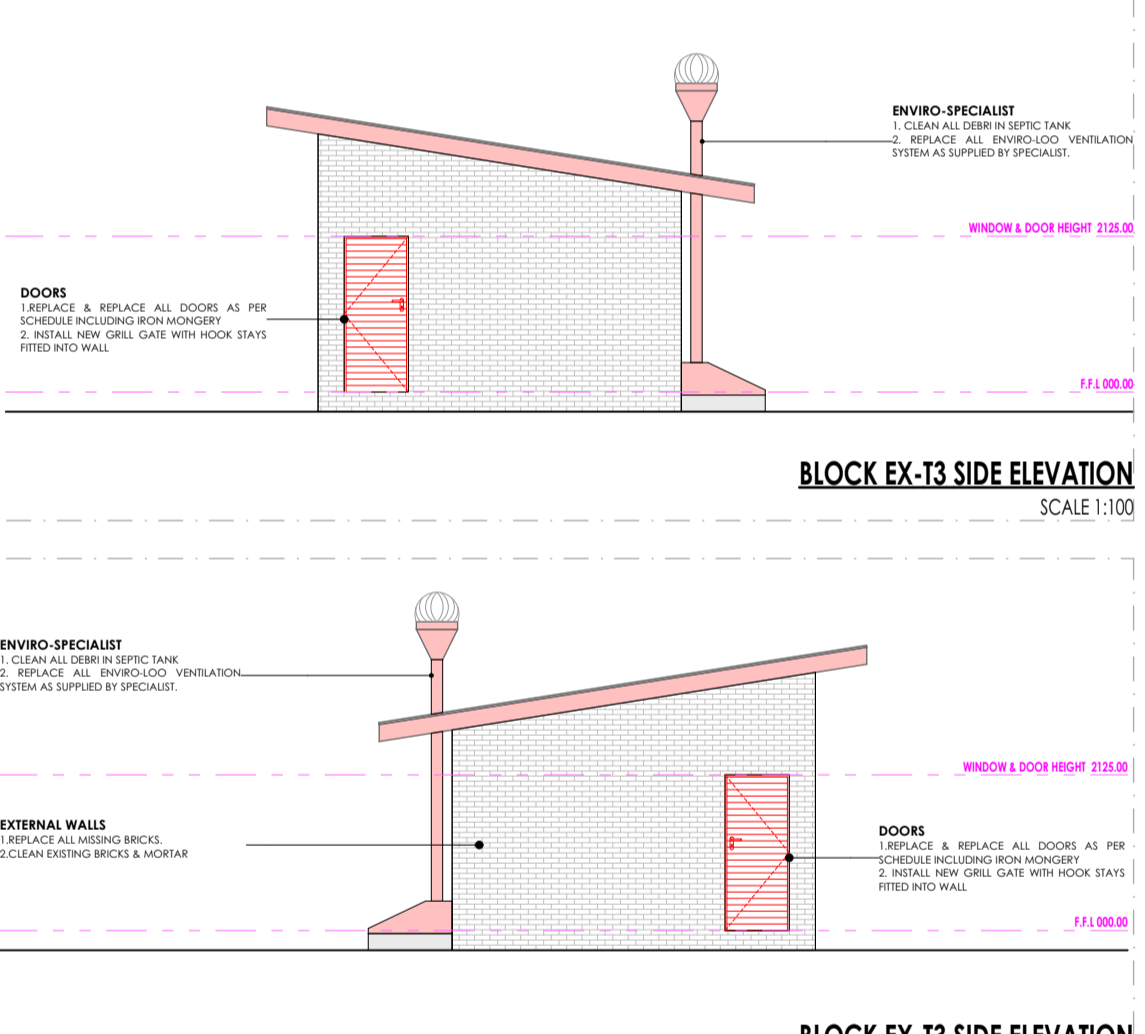
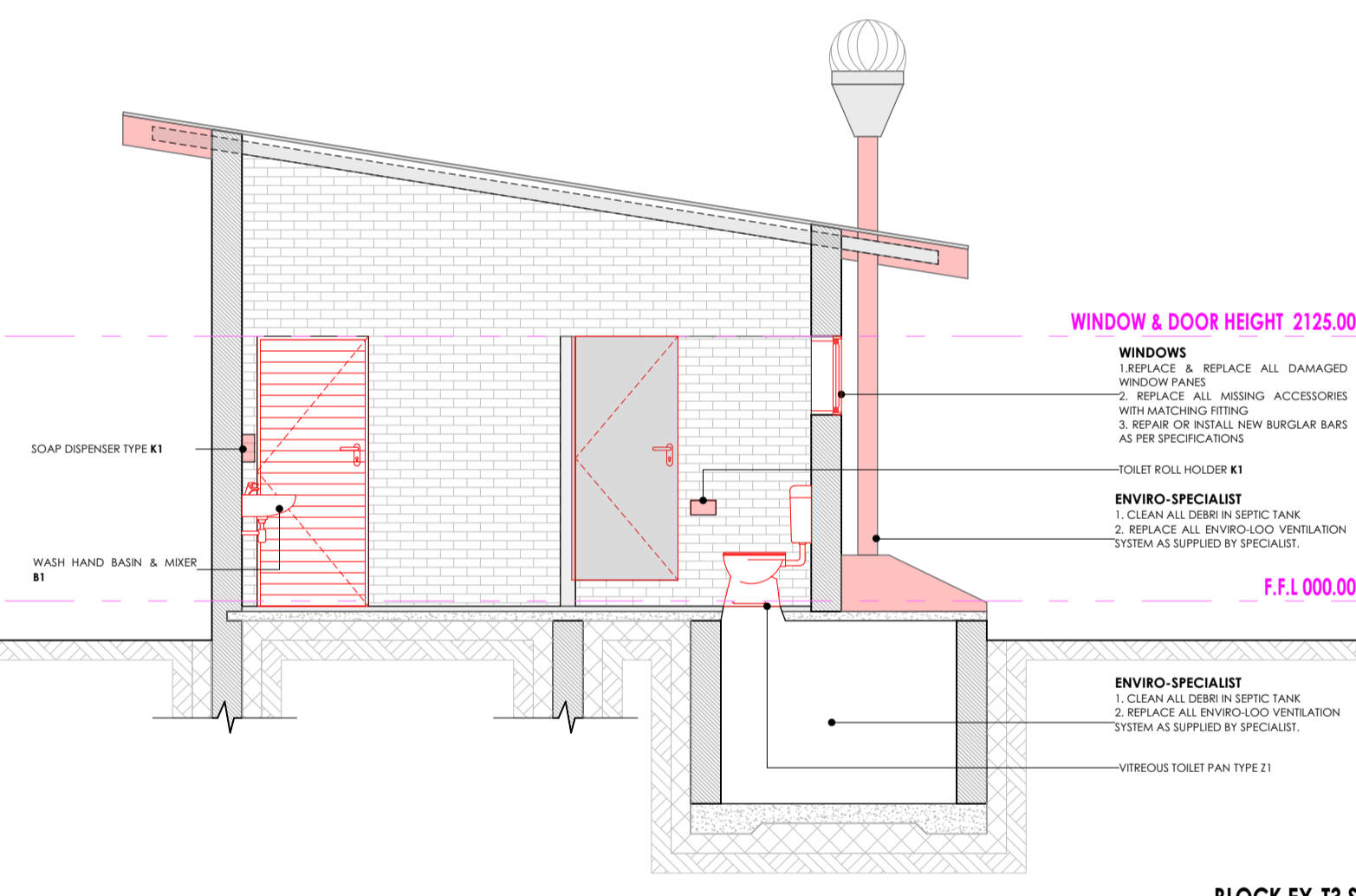
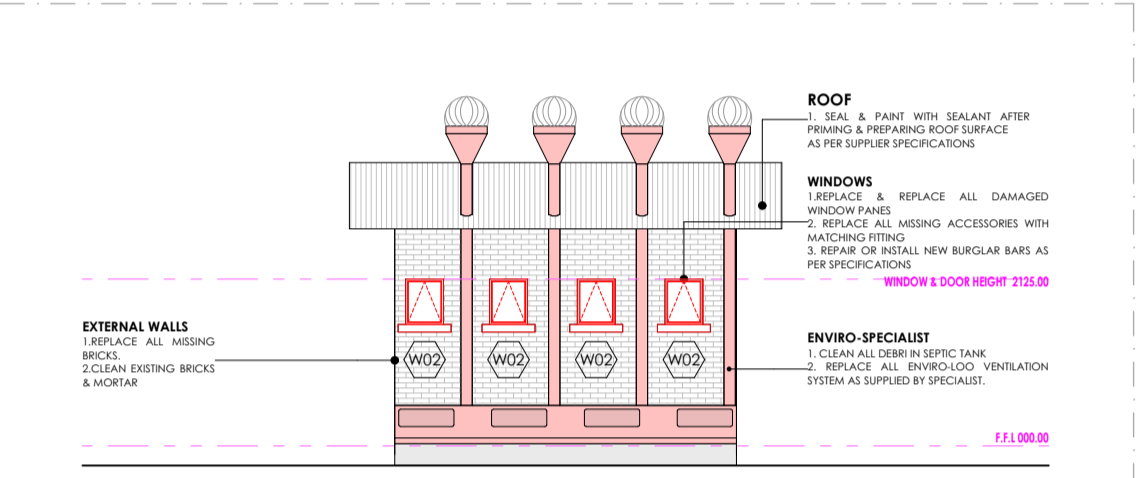
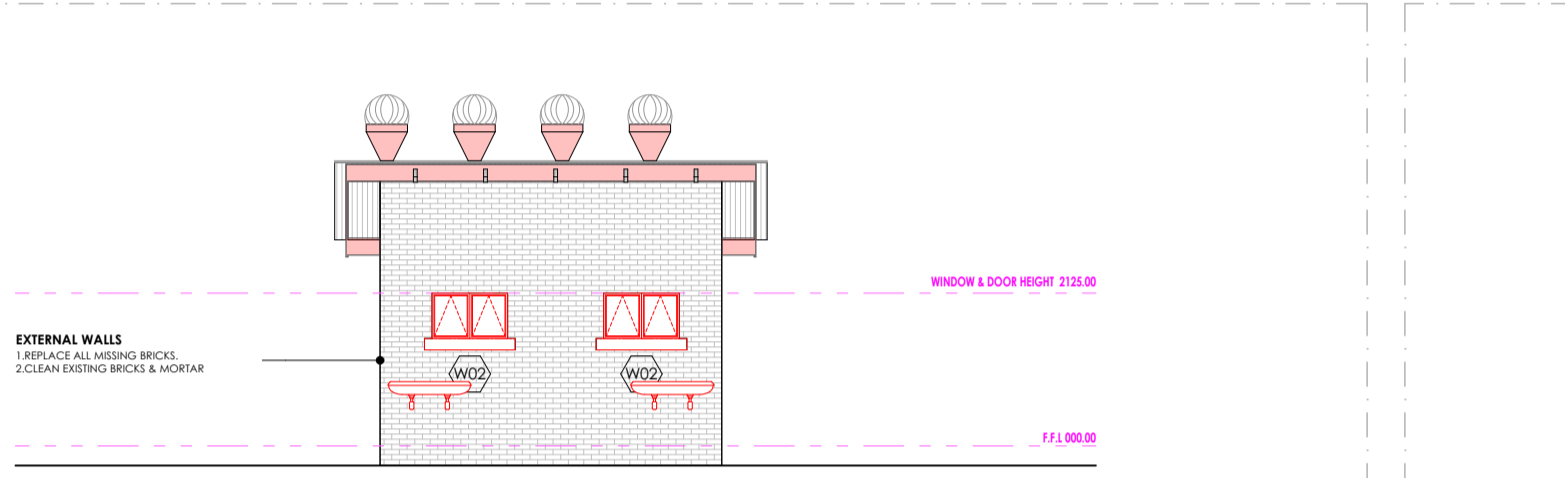
Galvanized Steel (GGI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Envis Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws. To Manufacturer Installation instructions.

Facia board: 250 x 110 mm Fibre-Cement Facia/Barge Board, Screw Fixed To Tuss 4's. Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
DOOR DESCRIPTION	QUANTITY	DOOR DESCRIPTION	QUANTITY	DOOR DESCRIPTION	QUANTITY
813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATED DOUBLE SIDED SALIKONA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	02	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 681. GRADE 01 AND FINISH WITH TWO COATS ALKYD EGG-SHELL PAINT TO COMPLY WITH SABS 630.	02	813 x 2032 x 44 mm THICK INTERIOR GRADE FLOW HOLLOW CORE SINGLE TIMBER DOOR WITH 3mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED DOGS FITTED TO COMPLY WITH SABS 546 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECTS COLOUR SCHEDULE.	04
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME.	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 631 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 631 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.
DOOR FINISH	APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.	DOOR FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE INCLUDING SECURITY MESH TO COMPLY WITH SABS 681. GRADE 01 & FINISH WITH 2 COATS ALKYD EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION.	DOOR FINISH	APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.
HINGES	3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES



WINDOW SCHEDULE:

W01	W02
QUANTITY	04
WINDOW DESCRIPTION	STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS. PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD 'STANDARD' TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE 01, FINISHED WITH 2no. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

SANITARY SCHEDULE

WC'S URINALS & SHOWER

W1: CERAMIC STANDARD WC (CC) - CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermoast Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

W2: CERAMIC PARALEGIC WC
Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever.

W3: CERAMIC PARALEGIC WC (CC) - CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermoast Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever. Blank flush plate & offset push button for passage access.

W4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable external lever.

W5: CERAMIC STANDARD WC (CC)
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoplast seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

W6: CERAMIC WALL HUNG URINAL
Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical girting, CP top inlet spreader and two hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
20mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Gated Shower Cubicle with access door as per standard supply with manufacturer and sized to fit space configuration.
• Overhead shower arm with wall flange.
• Chrome Plated Shower Head with dual jointed connector.
• Chrome Plated Shower Diver mixer wall fitting with sliding wall flanges and concealed connectors adjustable from 178mm to 203 mm centres. Shower tray to be handed 50 mm into a 100mm high concrete plinth with exposed plinth face.

WASH-HAND BASIN

W1: WASH & MIRROR TAP
Vital Sanitaryware vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap hole configuration supplied with integrated overflow and charity hole with 'Tuscany' pedestal and fitted with 100 'Cobra Waterflex' 15mm chrome pushbutton operating plate top with flanged bracket (code KM1102) meeting tap, 300-32 CP anti-flooding tap with angle valves. 300 basin waste. 365/40 CP bottle trap, mounting kit and angle valves.

W2: DISABLED BASIN
200mm semi rounded lavatory basin to comply with SABS 497. In two tap hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket. chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.

W3: WHITE GLAZED PORCELAIN WASH (VANITY)
Ceramic freecry size 450x350mm oval self-priming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with 100 chrome plated tap with flanged bracket (code KM1102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded contact at joints in strict accordance to manufacturer's specifications.

W4: HEAVY DUTY BASIN & NO. TAP (FOR LABS)
Ceramic freecry size 500x350mm rectangular heavy duty basin in one tap hole configuration to comply with SABS 497 and R45 hole plugged and fitted with 100 pillar tap. Chrome Plated anti-heel plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2no. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

W5: MEDIC BASIN & FITNESS (SICK BAY)
Vitreous china size 450x300mm rectangular lavatory basin to comply with SABS 497. In two tap hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket. chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.

W6: SMALL BASIN & 2 TAPSETAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 450x300mm wall basin to comply with SABS 497. In 2 tap hole configuration supplied with integrated overflow and charity hole with 2no. pillar taps, chrome plated anti-heel plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

W7: TOILET ROLL HOLDER (2 ROLL)
Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 1810 Stainless Steel, surface Soft finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

W8: GLASS MIRROR
6mm thick clear float glass silver-backed mirror. Size 450x900mm height with polished beveled edges 4 times folded for and fixed, with chromium plated dome-headed mirror screws.

W9: WASTE BIN
280W x 525H x 200D Waste bin manufactured from 1810 Stainless Steel, Surface Satin Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

W10: SANITARY BIN (PLASTIC)
100mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

W11: SINK

W1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (1810) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

W2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (1810) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

W3: CERAMIC SINK
Ceramic freecry 425 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

W4: SINGLE WASH TROUGH (Inset) & 2no. TAPS
2000 x 550 x 200mm Double bowl wash trough manufactured from grade 1810 S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbits - plan extended chrome plate, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with strip, chain and stop. CP Tap, 1/4" tap, with deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut out size 555 x 425mm.

W5: DOUBLE WASH TROUGH (Inset) & 2no. TAPS
2200 x 550 x 200mm Double bowl wash trough manufactured from grade 304 (1810) S.S. radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no wall type bibblaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP, Un-slotted sink waste with back nut and plug with strip, CP. Double drain back rubber deep seal Tap. Sink mounted on 2no. 25mm square S5 gallow brackets, front leg and adjustable foot piece of height of 915mm AFFL.

SANITARY ACCESSORIES

W1: TOILET ROLL HOLDER (2 ROLL)
Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 1810 Stainless Steel, surface Soft finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

W2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror. Size 450x900mm height with polished beveled edges 4 times folded for and fixed, with chromium plated dome-headed mirror screws.

W3: WASTE BIN
280W x 525H x 200D Waste bin manufactured from 1810 Stainless Steel, Surface Satin Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

W4: SANITARY BIN (PLASTIC)
100mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

W5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

W6: WALL GRAB BAILS-PARALEGIC
Stainless steel 914 x 90 x 32mm diameter wall floor grab rail in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

W7: GRAB BAILS (HEIGHT ADJUSTABLE HAND)-PARALEGIC
Stainless steel 914 x 90 x 32mm diameter wall floor grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

W8: PAPER TOWEL DISPENSER
300mmWx365mmX220mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

W9: SOAP DISPENSER (HIGH-WALL MOUNTED)
115W x 200H x 110D Stainless Steel hand soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

W10: ALUMINIUM COAT HOOKS (MULTITRACK)
800mm Wide x 220mm High x 90mm High Aluminium Multitrack Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.

W11: HAND DRYER (Hands free)
As per Electrical Engineers specification

W12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

W13: SHOWER CURTAIN RAIL (Height)
20mm dia. chromum plated shower curtain rail 1800mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide UPVC Door Protector manufactured in high impact resistant rigid UPVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FF, or as specified.

G2: PROTECTOR SCREENS
Full-cover UPVC Screen (weaving size 224 x 1750mm) with wall-mounted code SCA000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: FINBARO 150W x 100H
Finbaro size 100mm H x 150mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: FINBARO 300W x 120H
Finbaro size 120mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G5: WINDOW NORMAL BINDS (vertical blinds)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear ratio a fully enclosed cap. Blinds to be face fixed (faced over the window opening) by

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slip)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581:1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES - MATI
600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/Specification in strict compliance to manufacturer's specifications and SABS Specification. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET Tiles
500mm x 500mm x 100% PVY Staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4740 on fire rating, and BS 5424 on wire test and 50 body test at less than 2kV at 25Hz RFL on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick potted cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest revision.

F6: GRANOUTCURE FINISH
22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 191mm x 80mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed grid with conductive adhesive to SABS 070 or latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
30mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

S1: HARDWOOD OR EQUAL AND APPROVED
18 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75mm high x 20mm thick hardened cement sand screed skirting covered at 50mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

WALL FINISHES:

F1: FACE BRICK
F8 face brick in common bonding bond to comply with SABS 227 and forming part of the structural work.

F2: EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.

F3: ACRYLIC (ENAMEL) PAINT
2 no. coats matt (egg shell) finish acrylic (enamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no. coat acid resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.

F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S5', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'R2' to comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

F5: CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILING OR EQUAL AND APPROVED
'GypCel Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Strap Paint Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinoplate to all joints and trim the ceiling using Gyproc Rhinoplate.

C2: FIBRE CEMENT BOARDS (IN JOINTS)
6mm thick GypCel Fibre Cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Strap Paint Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA enamel quality paint colour to PA's approval. Gyproc Rhinoplate to all joints and trim the ceiling using Gyproc Rhinoplate.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaud, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the tile notch. All the notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Primered Plasterboard: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum paint on concrete slab.

ROOF COVERING AND INSULATION:

R1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 1.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromokod' coating and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

R2: GLASS BLOCKS
1. Where there are acoustic ceilings suspended board, a heavy duty 'Aluminium isolation foil' shall be installed AND 2. Where the steel work is exposed, a 50mm 'Fibreboard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m² and finished with white meltable foil.

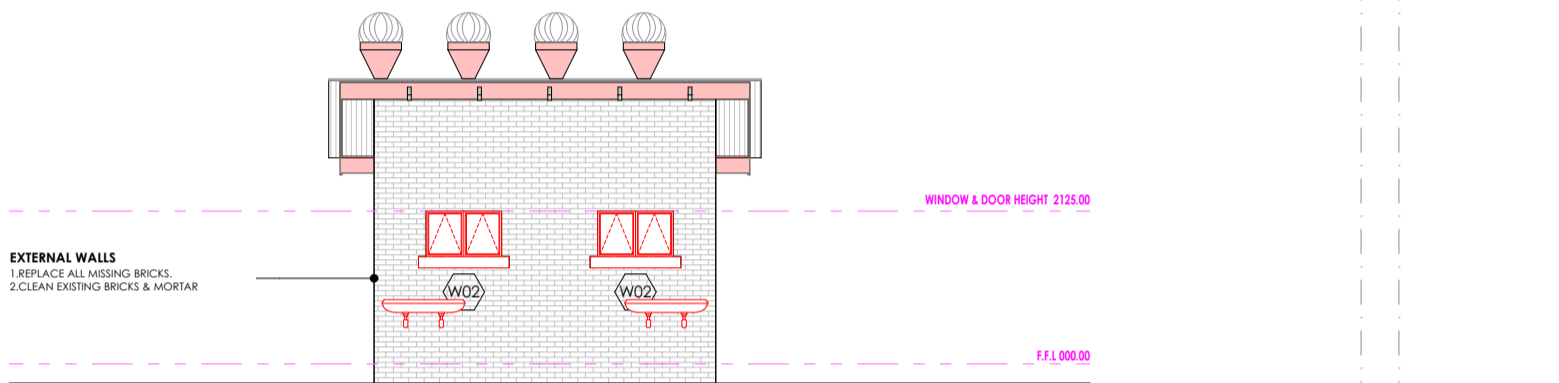
Galvanized Steel (GGI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Enamel Galvalume Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws. Manufacturer Installation instructions.

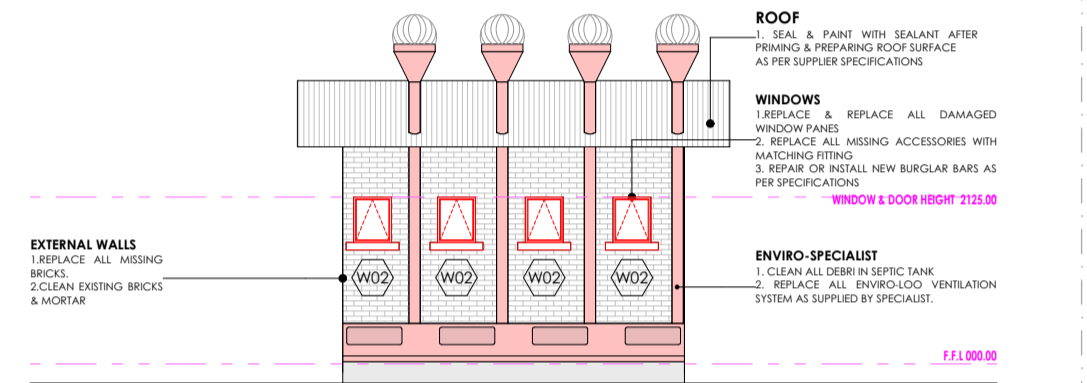
Facia board: 250 x 110mm Fibre-Cement Facia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

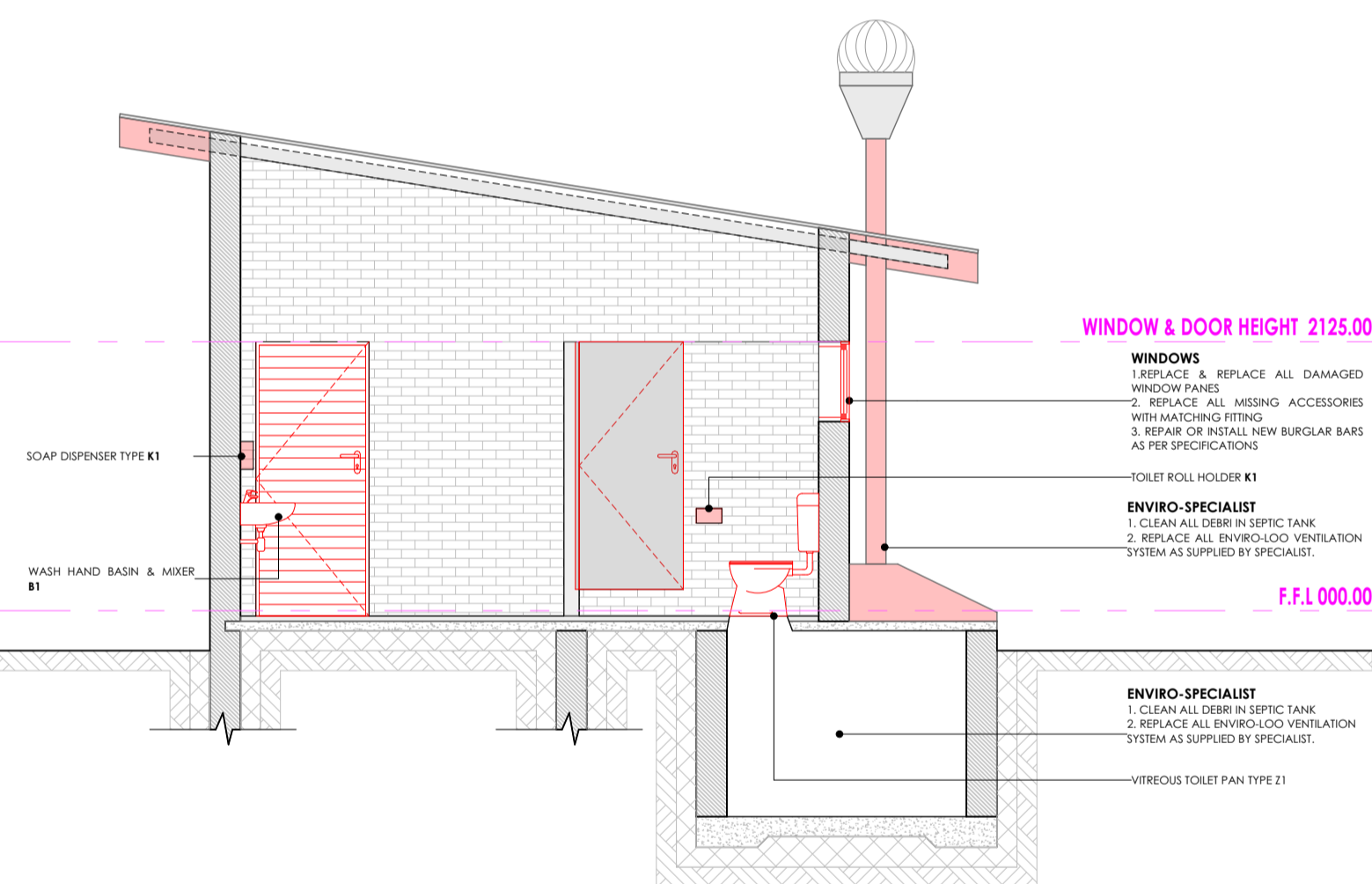
EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
DOOR DESCRIPTION	QUANTITY	DOOR DESCRIPTION	QUANTITY	DOOR DESCRIPTION	QUANTITY
813 x 2032 x 44mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTAL SLATED DOUBLE ISOED SALIKONA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	02	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm CENTRES AT A 90° ANGLE INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 681, GRADE O1 AND FINISH WITH TWO COATS ALKYLE EGG-SHELL PAINT TO COMPLY WITH SABS 630.	02	813 x 2032 x 44mm THICK INTERIOR GRADE FLUSH FLOW CORE SINGLE TIMBER DOOR WITH 3mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED DOGS FITTED TO COMPLY WITH SABS 546 IN PRESSED STEEL FRAME, ALL PAINTED TO ARCHITECTS COLOUR SCHEDULE.	04
FRAME STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.	FRAME STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.	FRAME 50 x 50mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME.	FRAME 50 x 50mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME.	FRAME STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.	FRAME STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.
FRAME FINISH WASHABLE DANIEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.	FRAME FINISH WASHABLE DANIEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.	FRAME FINISH 1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH 1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH WASHABLE DANIEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.	FRAME FINISH WASHABLE DANIEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.
DOOR FINISH APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.	DOOR FINISH APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.	DOOR FINISH PAINTED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH TO COMPLY WITH SABS 681, GRADE O1 & FINISH WITH 2 COATS ALKYLE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION.	DOOR FINISH PAINTED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH TO COMPLY WITH SABS 681, GRADE O1 & FINISH WITH 2 COATS ALKYLE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION.	DOOR FINISH APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.	DOOR FINISH APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.
IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.
HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES



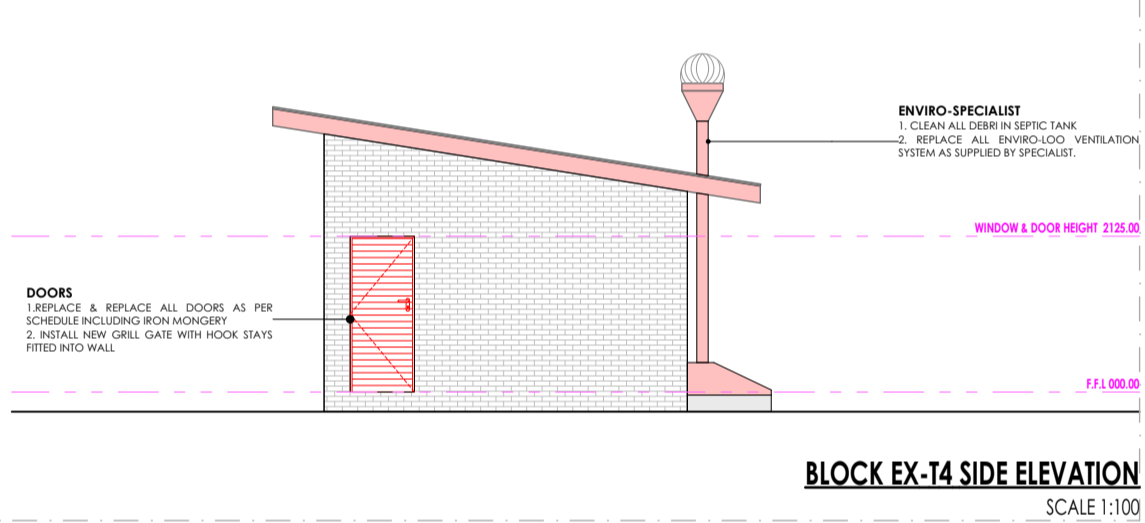
BLOCK EX-14 FRONT ELEVATION
SCALE 1:100



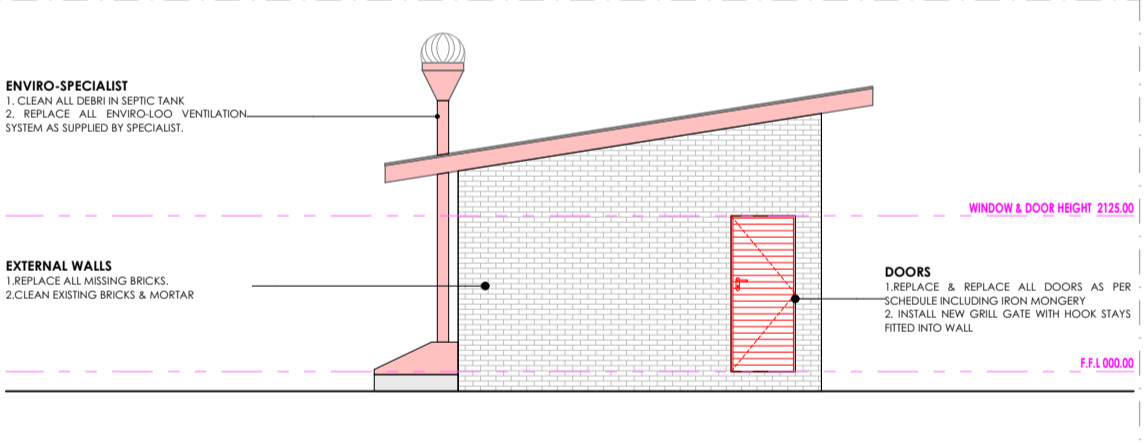
BLOCK EX-14 REAR ELEVATION
SCALE 1:100



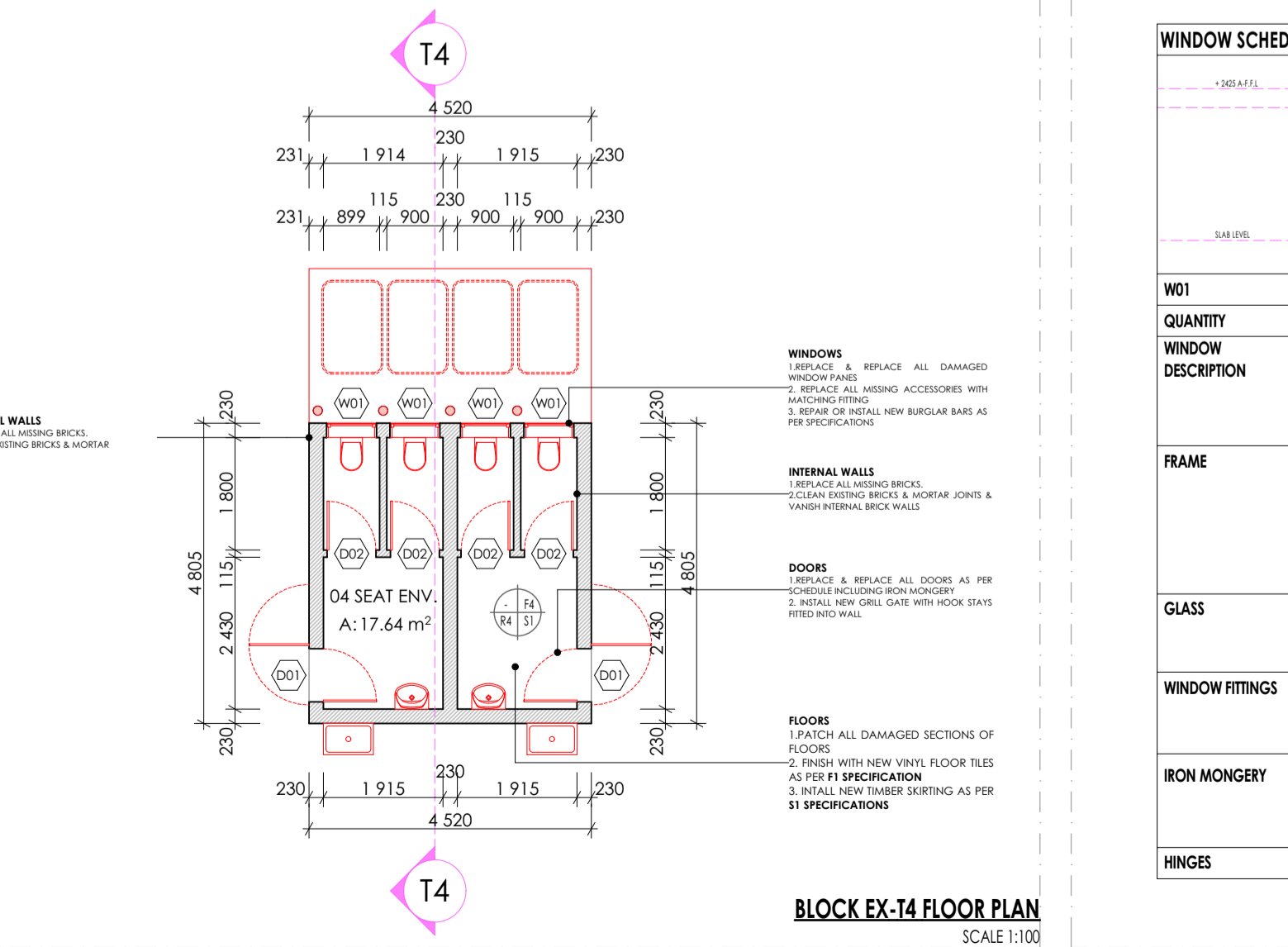
BLOCK EX-14 SECTION T4
SCALE 1:50



BLOCK EX-14 SIDE ELEVATION
SCALE 1:100



BLOCK EX-14 SIDE ELEVATION
SCALE 1:100



BLOCK EX-14 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:			
W01	W02	W01	W02
QUANTITY	QUANTITY	QUANTITY	QUANTITY
04	02	04	02
WINDOW DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS, PLUGGED & SCREWED/BUILT IN WALLING.	WINDOW DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS, PLUGGED & SCREWED/BUILT IN WALLING.	WINDOW DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS, PLUGGED & SCREWED/BUILT IN WALLING.	WINDOW DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS, PLUGGED & SCREWED/BUILT IN WALLING.
FRAME STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE O1, FINISHED WITH 2no. COATS ALKYLE ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE O1, FINISHED WITH 2no. COATS ALKYLE ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE O1, FINISHED WITH 2no. COATS ALKYLE ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE O1, FINISHED WITH 2no. COATS ALKYLE ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.
GLASS 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.	GLASS 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.	GLASS 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.	GLASS 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.
WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION

BLOCK EX-14 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

W1: CERAMIC STANDARD WC (CC) - CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermo Seal Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

W2: CERAMIC PARALEGIC WC
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever.

W3: CERAMIC PARALEGIC WC (CC) - CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermo Seal Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever. Blank flush plate & offset push button for passage access.

W4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable external lever.

W5: CERAMIC STANDARD WC (CC)
Vitreous china 90° outlet WC to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoseal lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

W6: CERAMIC WALL HUNG URINAL
Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical girting, CP top inlet spreader and two hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160mm manufactured with anti slip pattern, with rounded internal corners, and 38mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Gated Shower Cubicle with access door as per standard supply with manufacturer and sized to fit space configuration.
• Overhead shower arm with wall flange.
• Chrome Plated Shower Head with dual jointed connector.
• Chrome Plated Shower Diverter mixer wall type with sliding wall flanges and concealed connectors adjustable from 178mm to 203mm centres. Shower tray to be handed 50mm into a 100mm high concrete plinth with exposed plinth face.

WASH-HAND BASIN

W1: WASH & MIRROR TAP
Vital Sanitaryware vitreous china size 560 x 415mm rounded 'Tuscan', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap hole configuration supplied with integrated overflow and charity hole with a 'Tuscan' pedestal and fitted with 100 'Cobra Waterjet' 15mm chrome pushbutton operating plate top with flanged bracket (code KM2102) meeting tap, 300-32 CP anti-flooding plug with angle valve, 300 basin waste, 365/40 CP bottle trap, mounting kit and angle valves.

W2: DISABLED BASIN
1200mm semi rounded lavatory basin to comply with SABS 497, in two top hole configuration fitted with 2 No chrome plated Elbow action pillar-top, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.

W3: WHITE GLAZED PORCELAIN W/H (VANITY)
Ceramic freesty size 450x350mm oval self-removing vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with 100 chrome plated tap with flanged bracket (code KM2102) meeting tap, mounting kit and angle valves, 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded contact areas in strict accordance to manufacturer's specifications.

W4: SMALL BASIN & 2 TAPSETAY & SHOWER SET (FOR WORKSHOPS)
Ceramic freesty size 450x300mm rectangular heavy duty basin in one tap hole configuration supplied with integrated overflow and charity hole with 2no. pillar taps, chrome plated anti-flooding plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

W5: HEAVY DUTY BASIN & NO. TAP (FOR LABS)
Ceramic freesty size 450x300mm rectangular heavy duty basin in one tap hole configuration supplied with integrated overflow and charity hole with 2no. pillar taps, chrome plated anti-flooding plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2no. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

W6: MEDIC BASIN & FITNESS (SICK BAY)
Vitreous china size 450x300mm rectangular lavatory basin to comply with SABS 497, in two top hole configuration fitted with 2 No chrome plated Elbow action pillar-top, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.

Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type G
• Paper towel dispenser KB and bin type K3
• Soap dispenser type K5
• Spoutback comprising 2no. rows of wall tile finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/

FINISHES LEGEND

FOILS:
F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slip)
 300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES - MATI
 600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/Specification in strict compliance to manufacturer's specifications and SABS Specification. Fittings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CEMENT SAND SCREED
 30mm thick patterned cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

F4: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
 60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest revision.

F5: GRANULITE FINISH
 22mm thick unsealed Granulite finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
 220mm x 197mm x 60mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
 2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed grid with conductive adhesive to SABS 070 or latest revision in accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
 30mm Gravel On Compacted Sand Layer Base as Per P&E Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:
S1: HARDWOOD OR EQUAL AND APPROVED
 18x75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
 600mm wide x 1000mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with dove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is a change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
 75mm high 20mm thick hardened cement sand screed skirting covered at 50mm dia. to form a continuous joint with the adjoining screed finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

WALL FINISHES:
F1: FACE BRICK
 F&E face brick in common bonding to comply with SABS 227 and forming part of the structural work.
F2: EMULSION (PVA) PAINT - FULL HEIGHT
 2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade I, in accordance to manufacturer's instructions.
F3: ALYDIT (ENAMEL) PAINT
 2 no. coats matt (egg shell finish alyd (jenamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no. coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade I, in accordance to manufacturer's instructions.

F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COAT
 Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'RS', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'R2' to comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

F5: CERAMIC WALL TILES - FULL HEIGHT
 600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:
C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
 Gyproc Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to frame bracing installed at maximum 300mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc RhinoGrip to all joints and trim the ceiling using Gyproc RhinoGrip.

C2: FIBRE CEMENT BOARDS (IN JOINTS)
 6mm thick Gyproc FastFix fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171:5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoGrip to all joints and trim the ceiling using Gyproc RhinoGrip.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
 1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using Donn centres. Donn T38 FR Main Tees (8mm thickness, 2150 gaw, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strip 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strip 19mm at maximum 150mm on both sides of the file notch. All file notches to be in file. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strip 19mm suitably fixed to the building structural members. All to comply with latest SANS 603 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

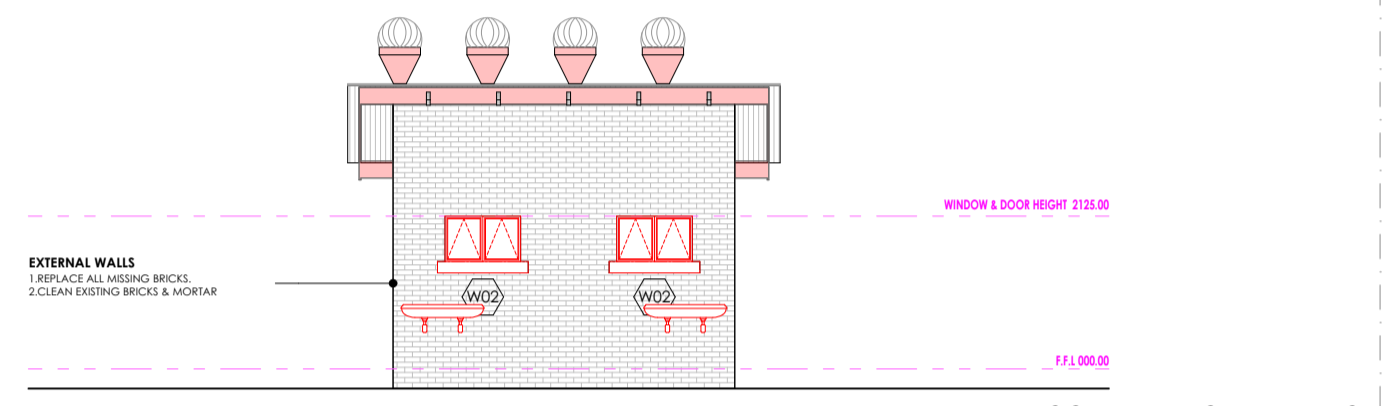
C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED
 Tensilon (PVA) Paint on Shimmed Prefabricated 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

ROOF COVERING AND INSULATION:
R1: EMBOSSED RUBBER SHEET (TWO SIDES)
Roofing Sheets: 1.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 350 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The ribs shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive dovetail interlocking action at side-laps. Each panel shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromokod' coating and laid on structural member/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

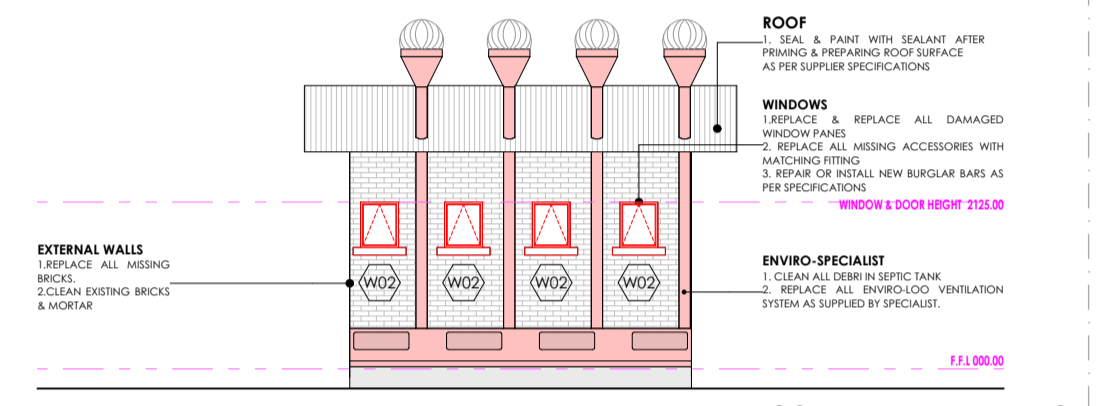
Insulation: SHALL BE: 2 no. where there are acoustic ceilings suspended board, a heavy duty 'Aluminium insulation foil' shall be installed AND 2 where the steel work is exposed. A 50mm 'Fibroglass' manufactured from non-combustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white meltable foil.
Galvanized Steel Gullie Gutter: 150mm Wide x 100mm Deep x 6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Downpipes.
Downpipe: 110 x 110 x 6.0mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.
Facia board: 250 x 10 mm Fibre Cement Facia/Barge Board. Screw Fixed To Stud Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

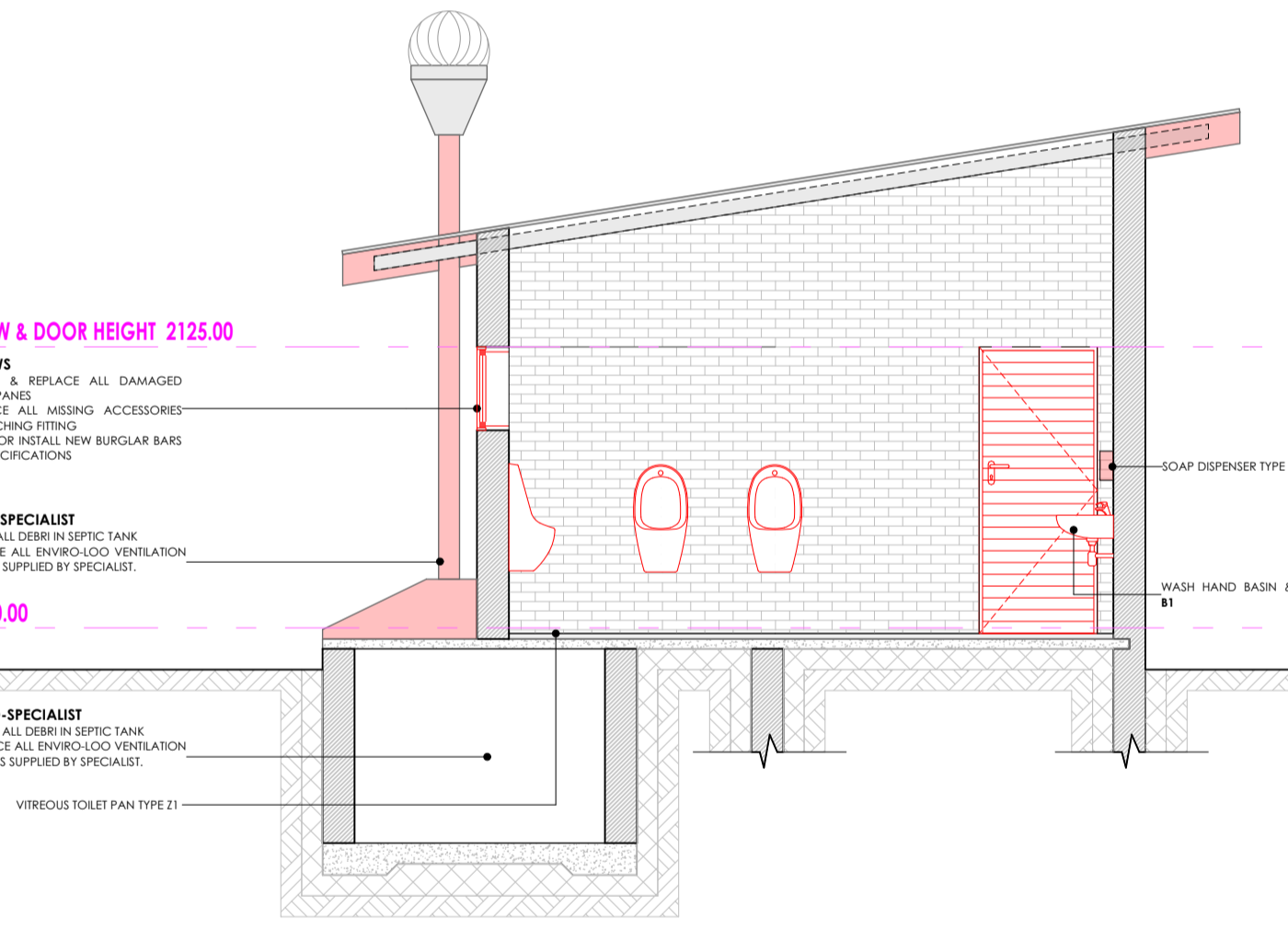
EXTERIOR DOOR	BURGLAR DOOR (SINGLE)	INTERIOR DOOR
QUANTITY 02	QUANTITY 02	QUANTITY 04
DOOR DESCRIPTION 813 x 2032 x 44mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATED DOUBLE ISOED SALIKONA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION PAINTED GALVANISED MILD STEEL GATE CONSISTING OF: 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 681 GRADE (I) AND FINISH WITH TWO COATS ALYDIT EGG-SHELL PAINT TO COMPLY WITH SABS 630.	DOOR DESCRIPTION 813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH FLOW CORE SINGLE TIMBER DOOR WITH 3mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 546 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECTS COLOUR SCHEDULE.
FRAME STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.	FRAME 50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME.	FRAME STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.
FRAME FINISH WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.	FRAME FINISH 1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.
DOOR FINISH APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.	DOOR FINISH PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE INCLUDING SECURITY MESH TO COMPLY WITH SABS 681 GRADE (I) & FINISH WITH 2 COATS ALYDIT EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION.	DOOR FINISH APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.
IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.
HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES



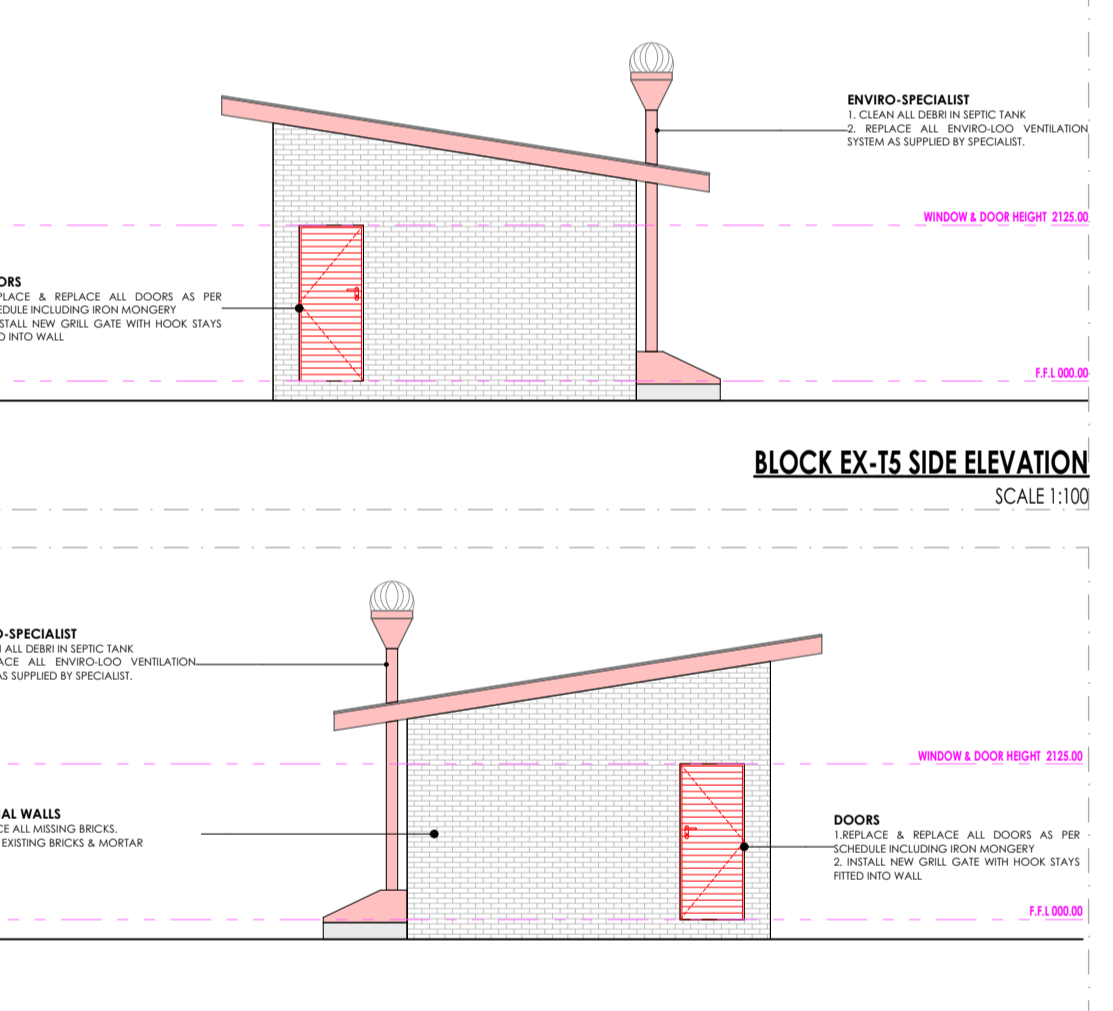
BLOCK EX-15 FRONT ELEVATION
SCALE 1:100



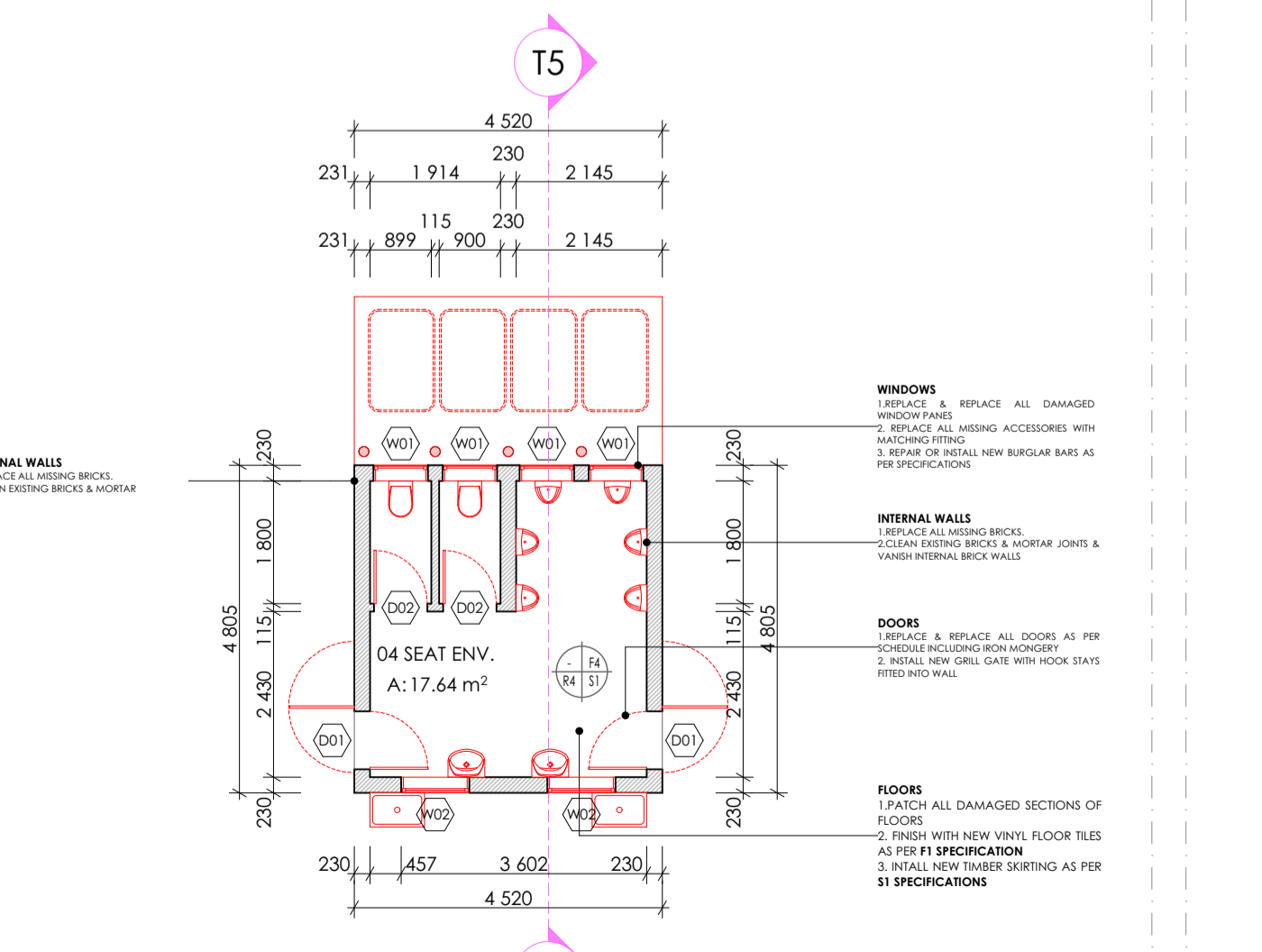
BLOCK EX-15 REAR ELEVATION
SCALE 1:100



BLOCK EX-15 SIDE ELEVATION
SCALE 1:100



BLOCK EX-15 SIDE ELEVATION
SCALE 1:100



BLOCK EX-15 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:		WINDOW SCHEDULE:	
W01	W02	W01	W02
QUANTITY 04	QUANTITY 02	QUANTITY 04	QUANTITY 02
DOOR DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS. PLUGGED & SCREWED/BUILT IN WALLING	DOOR DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS. PLUGGED & SCREWED/BUILT IN WALLING	DOOR DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS. PLUGGED & SCREWED/BUILT IN WALLING	DOOR DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS. PLUGGED & SCREWED/BUILT IN WALLING
FRAME STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE (I), FINISHED WITH 2no. COATS ALYDIT ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE (I), FINISHED WITH 2no. COATS ALYDIT ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE (I), FINISHED WITH 2no. COATS ALYDIT ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.	FRAME STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE (I), FINISHED WITH 2no. COATS ALYDIT ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS.
GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
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HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION

BLOCK EX-15 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER
W1: CERAMIC STANDARD WC (C/C) CONCEALED CISTERN
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz ThermoSeal Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

W2: CERAMIC PARALEGIC WC
 Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

W3: CERAMIC PARALEGIC WC (C/C) CONCEALED CISTERN
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz ThermoSeal Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for passage access.

W4: CERAMIC STANDARD WC (BACK INLET)
 Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

W5: CERAMIC STANDARD WC (C/C)
 Vitreous china 90° outlet WC to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoseal seal and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

W6: CERAMIC WALL HUNG URINAL
 Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical girting, CP top inlet spreader and two hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
W7: SHOWER
 2mm Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
 • Gated Shower Cabinet with access door as per standard supply from manufacturer and sized to fit space configuration.
 • Overhead shower arm with wall flange.
 • Chrome Plated Shower Head with dual jointed connector.
 • Chrome Plated Softly Shower diverter mixer-wal with sliding wall flanges and concealed connectors adjustable from 178mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face.

W8: DISABLED BATH
 400mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated Elbow action pillar-top, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.
W9: WHITE GLAZED PORCELAIN WHB (VANITY)
 Ceramic freecry size 450x325mm oval self-removing vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with 2No. chrome plated top with flanged bracket (code KM2102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded contact areas in strict accordance to manufacturer's specifications.

W10: SMALL BASIN & 2 FASTENAY & SHOWER SET (FOR WORKSHOPS)
 Vitreous china size 450x300mm wall basin to comply with SABS 497. In 2 top hole configuration supplied with integrated overflow and charity hole with 2No. pillar taps, chrome plated anti-heel plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
W11: HEAVY DUTY BASIN & NO. TAP (FOR LABS)
 Ceramic freecry size 500x325mm rectangular heavy duty basin in one top hole configuration to comply with SABS 497 and R&S hole plugged and fitted with 2No. pillar tap. Chrome Plated anti-heel plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

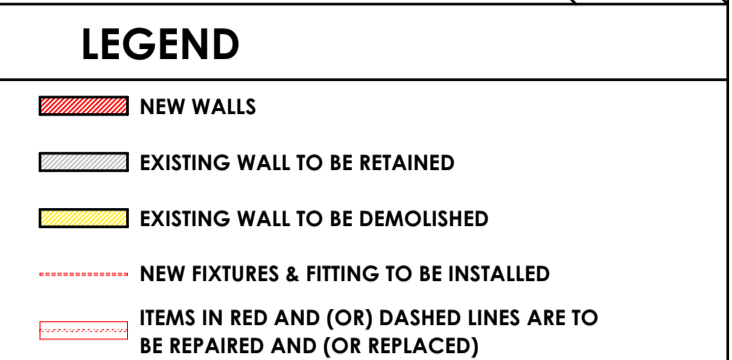
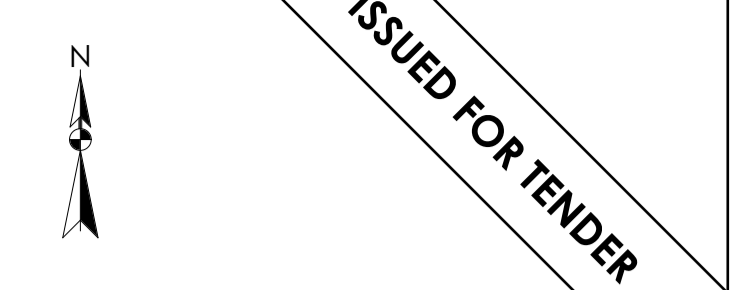
W12: MEDIC BASIN & FITTINGS (SICK BAY)
 Vitreous china size 400mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated Elbow action pillar-top, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.
 Combination of sanitaryware, accessories and general fittings comprising of:
 • Mirror type C1
 • Paper towel dispenser K8 and bin type K3.
 • Soap dispenser type K5.
 • Spoutback comprising 2no. rows of wall tile finish R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:
X1: STAINLESS STEEL SINK
 Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with Approved Sink mixer-wal type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
X2: STAINLESS STEEL SINK
 Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with Approved Sink mixer-wal type, with chrome plated swivel swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
X3: CERAMIC SINK
 Ceramic freecry 425 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet. Fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (WASH & 2 no. TAPS)
 600mm x 300mm inset washtrough floor mounted from grade 18/10 S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbets - plain extended chrome plates, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with strip, chain and stay, CP, P' trap, with deep seal and cleaning eye. Rough Brass Sink installation height = 900mm AFFL. Cut out size 555 x 425mm.
X5: DOUBLE WASH TROUGH (WASH & 2 no. TAPS)
 1200 x 350 x 200mm Double bowl wall hung washtrough manufactured from grade 304 (18/10) S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbets, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP, Un-slotted sink waste with back nut and plug with strip, CP, Double drain back rubber deep seal 'P'-trap. Sink mounted on 2no. 25mm square S5 gallow brackets, front leg and adjustable foot piece of height of 975mm AFFL.

SANITARY ACCESSORIES
K1: SS TOILET ROLL HOLDER - 2 ROLL
 Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Soft finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
K2: GLASS MIRROR
 6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished beveled edges 4 times fold over and fixed, with chromium plated dome-headed mirror screws.
K3: SS WASTE BIN
 280W x 625H x 200D Waste bin manufactured from 18/10 Stainless Steel, Surface Soft Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
K4: SANITARY BIN (PLASTIC)
 190mm x 200mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
K5: SOAP HOLDER
 Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
K6: WALL GRAB BARS-PARALEGIC
 Stainless steel 914 x 90 x 32mm diameter wall floor grab rail in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
K7: GRAB BARS (RIGHT-LEFT HAND)-PARALEGIC
 Stainless steel 914 x 90 x 32mm diameter wall floor grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
K8: PAPER TOWEL DISPENSER
 330mmWx365mmHx230mmD Tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
K9: SOAP DISPENSER- WASH-WALL MOUNTED
 115W x 200H x 110D Stainless steel hand free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
K10: ALUMINIUM COAT HOOKS (MULTI-TRACK)
 800mm Wide x 220mm High x 90mm High Aluminium Multitrack Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.
K11: HAND DRYER (Hands free)
 As per Electrical Engineers specification
K12: TOWEL RAIL
 55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's specifications.

GENERAL FIXTURES
G1: DOOR PROTECTOR
 200mm wide UPVC Door Protector manufactured in high impact resistant rigid UPVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FF, or as specified.
G2: PROTECTOR SCREENS
 Full-cover PVC Screen (weaving size 234 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.
G3: FINBARO 150W x 100H
 Finbaro size 1000mm H x 1500mm W comprising of laminated self board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
G4: FINBARO 300W x 120H
 Finbaro size 1200mm H x 3000mm W comprising of laminated self board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
G5: WINDOW NORMAL BUNDS (vertical blinds)
 127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear ratio a fully enclosed cap. Blinds to be face fixed (faced over the window opening) by means of concealed type fixing brackets.
G6: FLOOR DRAIN
 Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
G7: SS FLOOR EXPANSION JOINT COVER
 Concealed heavy-duty stainless steel movement joint, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
G8: CHALKBOARDS - GREEN SURFACE COLOUR
 Vitreous system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CE 362004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel utility chalk board surfaces to be matt and freely structured, olive green in colour (White Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.



NOTES
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
 DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
 CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

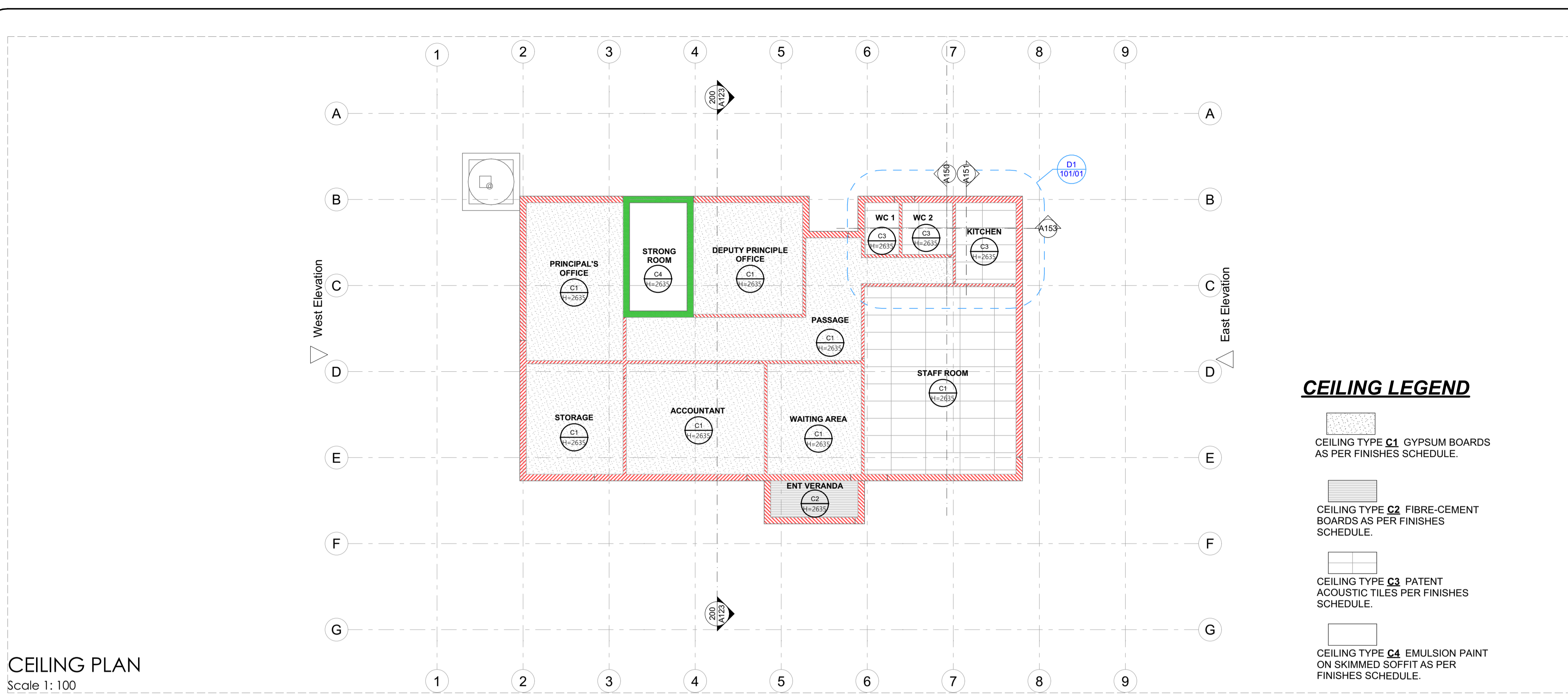
- FLOORS:**
- F1: PORCELAIN TILES - MATI (CORROSION RESISTANT & ANTI-SLIPPERY)**
420x420 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILE - MATI**
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm . 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on weta test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANULITIC FINISH**
22mm thick unsealed Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a "herringbone" pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness. Engineered for ESD or ID (anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**
18x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cone base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

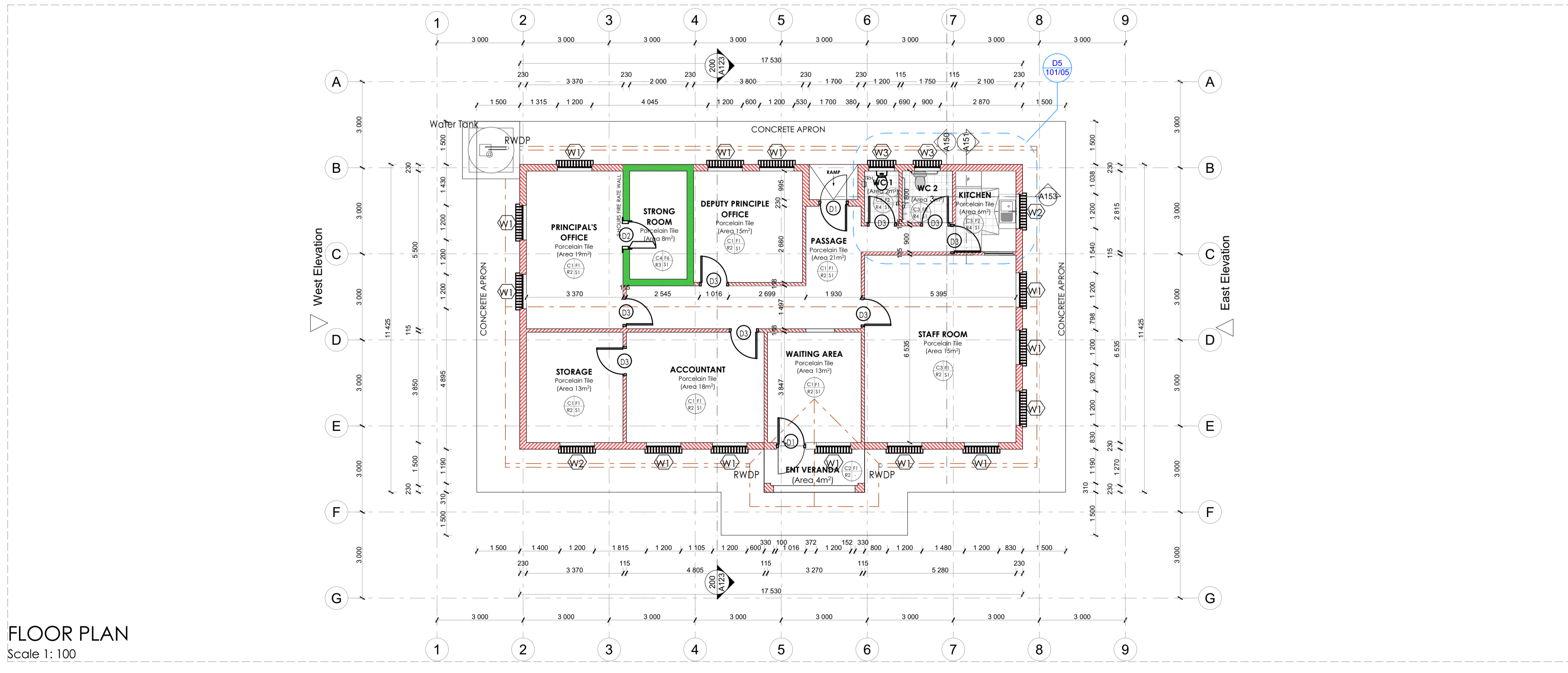
- WALL FINISHES:**
- R1: FACE BRICK**
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- R2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R3: ENAMEL (ENAMEL) PAINT**
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- R5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

- CEILING AND CORNICE:**
- C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply, Gyproc RhinoPlate to all joints and skim the ceiling using Gyproc RhinoPlate.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoPlate to all joints and skim the ceiling using Gyproc RhinoPlate.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Calotex Ph Prefinished or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 Fr Main Tees @ 4mm thickness, 1150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
Emulsion (PVA) Paint on Skimmed Plastered Stud 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

- ROOF COVERING AND INSULATION:**
- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
Roofing Sheets: 1.5mm Thick cold-rolled forming sheets manufactured from roll-formed from certified steel complying with ISO 530:07. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide casibly breaks. The main ribs shall have an 80mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended above, a heavy duty "Aluminium stonafon foil" shall be installed AND 2, where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
- Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws To Manufacturer Installation instructions.
- Fascia board:** 250 x 10 mm Fibre Cement Fascia/Barge Board. Screw Fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



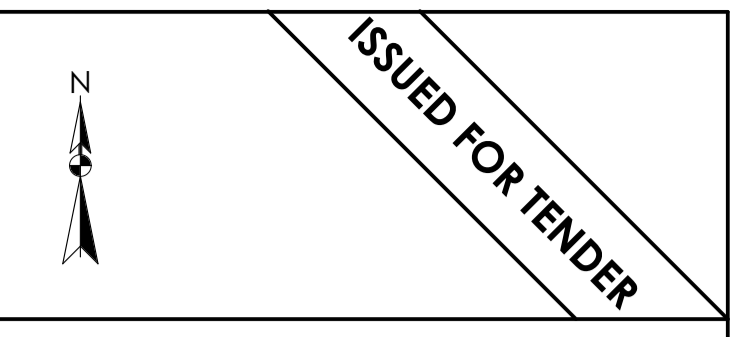
CEILING PLAN
Scale 1: 100



FLOOR PLAN
Scale 1: 100

CEILING LEGEND

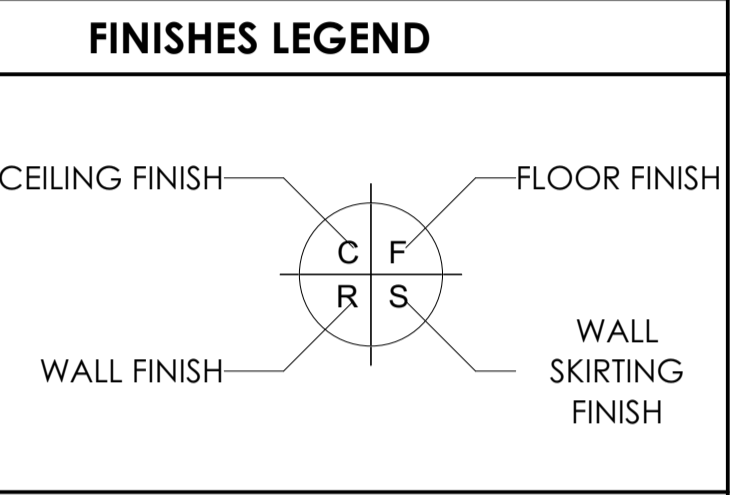
- CEILING TYPE C1** GYPSUM BOARDS AS PER FINISHES SCHEDULE.
- CEILING TYPE C2** FIBRE-CEMENT BOARDS AS PER FINISHES SCHEDULE.
- CEILING TYPE C3** PATENT ACOUSTIC TILES PER FINISHES SCHEDULE.
- CEILING TYPE C4** EMULSION PAINT ON SKIMMED SOFFIT AS PER FINISHES SCHEDULE.



LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY IS TO BE REPORTED TO THE PROJECT ARCHITECT



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT
DISCIPLINE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

SMALL ADMINISTRATION BLOCK
DRAWING DESCRIPTION

FLOOR & CEILING PLANS

DRG No.	301-01	01/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING COORDINATED

TECTURA - INTERNATIONAL!

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

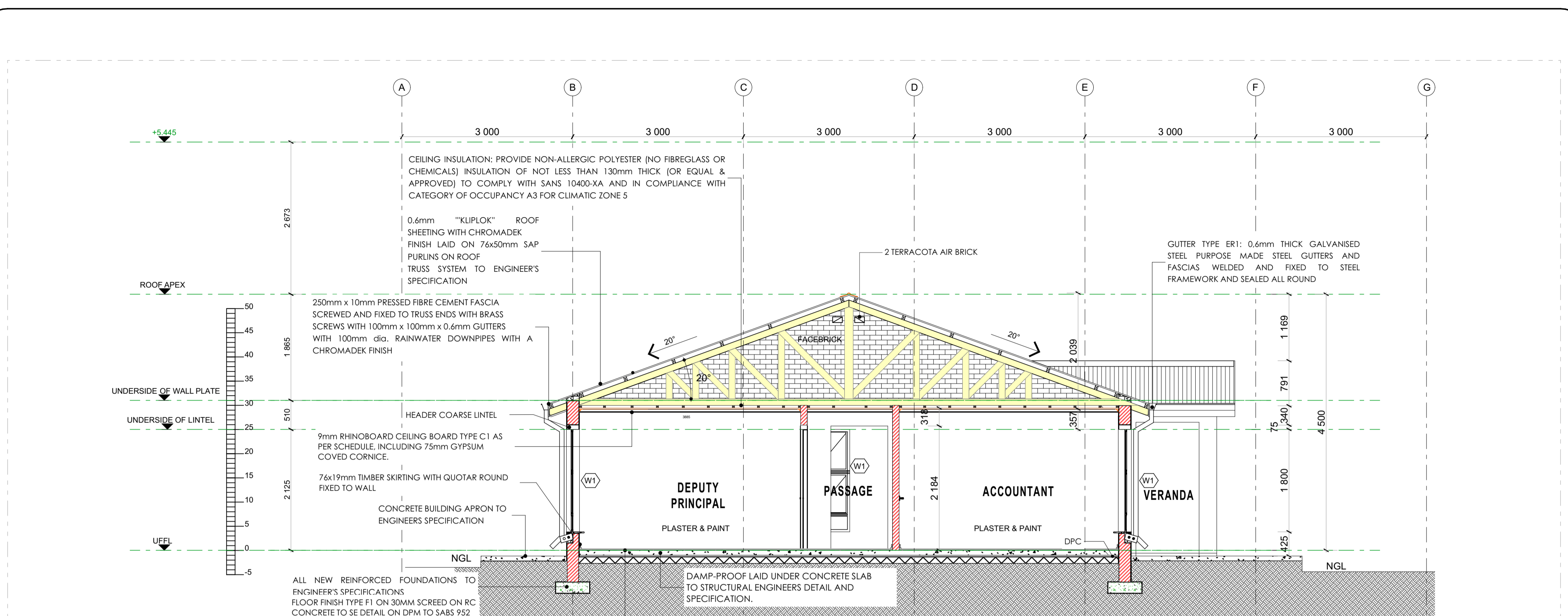
- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**
420 x 420 11.5mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds with thickness/specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fire Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm . 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wira test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANOLITHIC FINISH**
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a "herringbone" pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (Anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cone base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

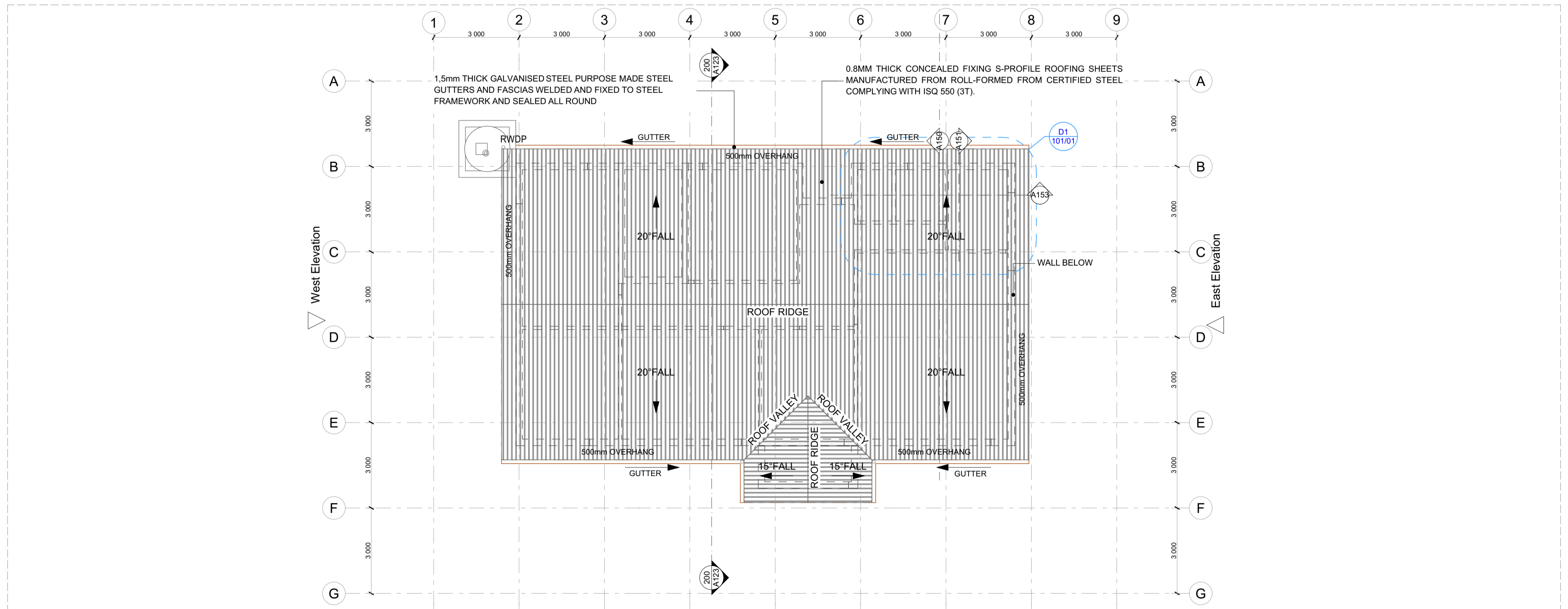
- W1: FACE BRICK**
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- W2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W3: ENAMEL (ENAMEL) PAINT**
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- W5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- CEILING AND CORNICE:**
- C1: 7mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc Rhinoboard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc Rhinoboard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Calceus (Pre-finished or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle 146 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
Emulsion (PVA) Paint on Skimmed Plastered Stud 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
- Roofing Sheets:** 0.8mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (ST). The profile shall have three trapezoidal ribs at 200mm centres giving a total cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The main ribs shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty "Aluminium stonafon foil" shall be installed AND 2, where the steel work is exposed, a 50mm "Tactoryboard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
- Galvanized Steel (GI) Gutters:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipes:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws To Manufacturer Installation Instructions.
- Fascia board:** 250 x 10 mm Fibre Cement Fascia/Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



CROSS SECTION
Scale 1: 50



ROOF PLAN
Scale 1: 100

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH: C, F, R, S
FLOOR FINISH: F, S
WALL FINISH: W, R, S
WALL SKIRTING FINISH: S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

CONTRACT - SECTION
RESTORATIVES, REPAIRS & ADDITIONS

DISCIPLINE
DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION
SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION
ROOF PLAN & SECTION

DRG No.	301-02	02/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING COORDINATED

TECTURA - INTERNATIONAL!

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

FLOORS:

F1: POLYURETHANE - MAT (Concrete Resistant & Anti-Slippery)

420 x 420 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.

F2: POLYURETHANE - MAT

420 x 420 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle files where there is change of level. Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPETILES

500mm x 500mm, 1005 PFK staple fibre carpet tiles to comply with SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick concrete screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and 50 body test at less than 20% at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVING

45mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 / Latest Revision.

F6: GRANITIC FINISH

22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVING (EIGHT PAVING VEHICULAR WAYS)

220mm x 197mm x 50mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)

2.2mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO 9001 (Anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed grouted with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

12 x 15mm x 20mm Moisture Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs of centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screed in strict compliance to manufacturer's instructions and SABS specification, with cone base and height top. Complete with corner and top trim. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting covered at 20 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance with SABS 1083 or latest revision.

WALL FINISHES:

W1: FACE BRICK

FBK face brick in common running bond to comply with SABS 227 and forming part of the structural work.

W2: EMULSION (PVA) PAINT - FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.

W3: ENAMEL (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.

W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

W5: CERAMIC WALL TILES - FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED

7mm GypCel Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer GypCel RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber branding installed at maximum 300mm centres using GypCel RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, GypCel RhinoTape to all joints and skim the ceiling using GypCel RhinoTape.

C2: FIBRE CEMENT BOARDS (H-JOINTE)

6mm thick GypCel Prestige 5 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer GypCel RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing, non-combustible to SANS 10177-5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using GypCel RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories. Finished with 3 no. coats of super PVA external quality paint colour to PA's approval. GypCel RhinoTape to all joints and skim the ceiling using GypCel RhinoTape.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm x 15mm GypCel Calceus Plus Prefinished or Fire Rated OR EQUAL & APPROVED laid into Dorn ceiling grid and secured into place using Dorn Hold Down Clips @ 200mm c/c. Dorn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Dorn 138 FR Main Tees @ 40mm thickness, 1150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Dorn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Dorn Hanger Strap 19mm suitably fixed to the building structural members. Dorn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend full length 1200 Cross Tees at their mid-point using Dorn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED

Emulsion (PVA) Paint on Skimmed Plastered Stud 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

R1: FIBROSED ROOFING SHEET (TWO SIDES)

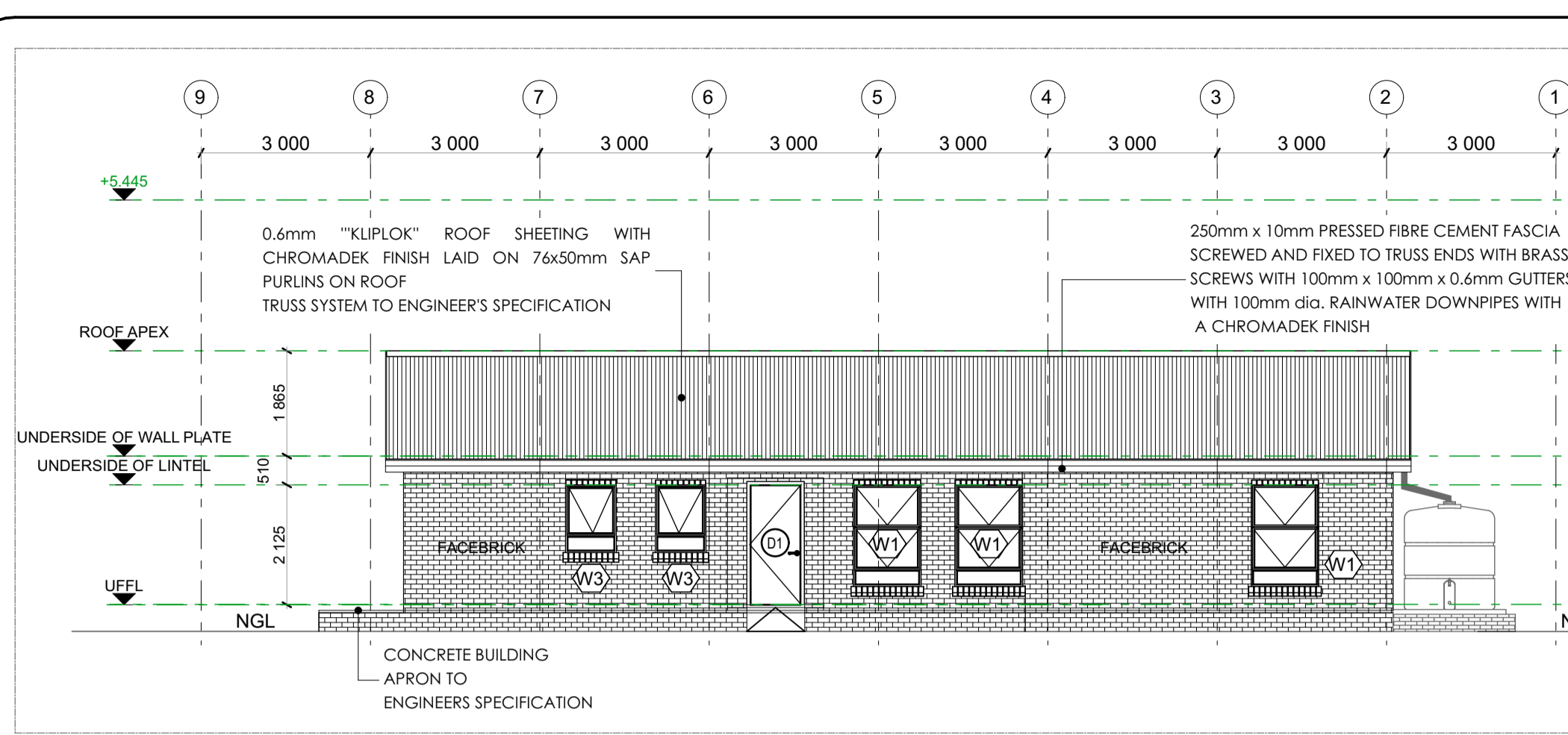
Roofing Sheets: 0.5mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 530 (B). The profile shall have three trapezoidal ribs at 200mm centres giving a total cover of 456mm. The rib height shall be 41mm and provide cavity breaks. The male rib shall have gaps of 28mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1. where there are acoustic ceiling suspended board, a heavy duty Aluminium station foil shall be installed AND 2. where the steel work is exposed, a 50mm FactoryBoard[®] manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with metalized foil.

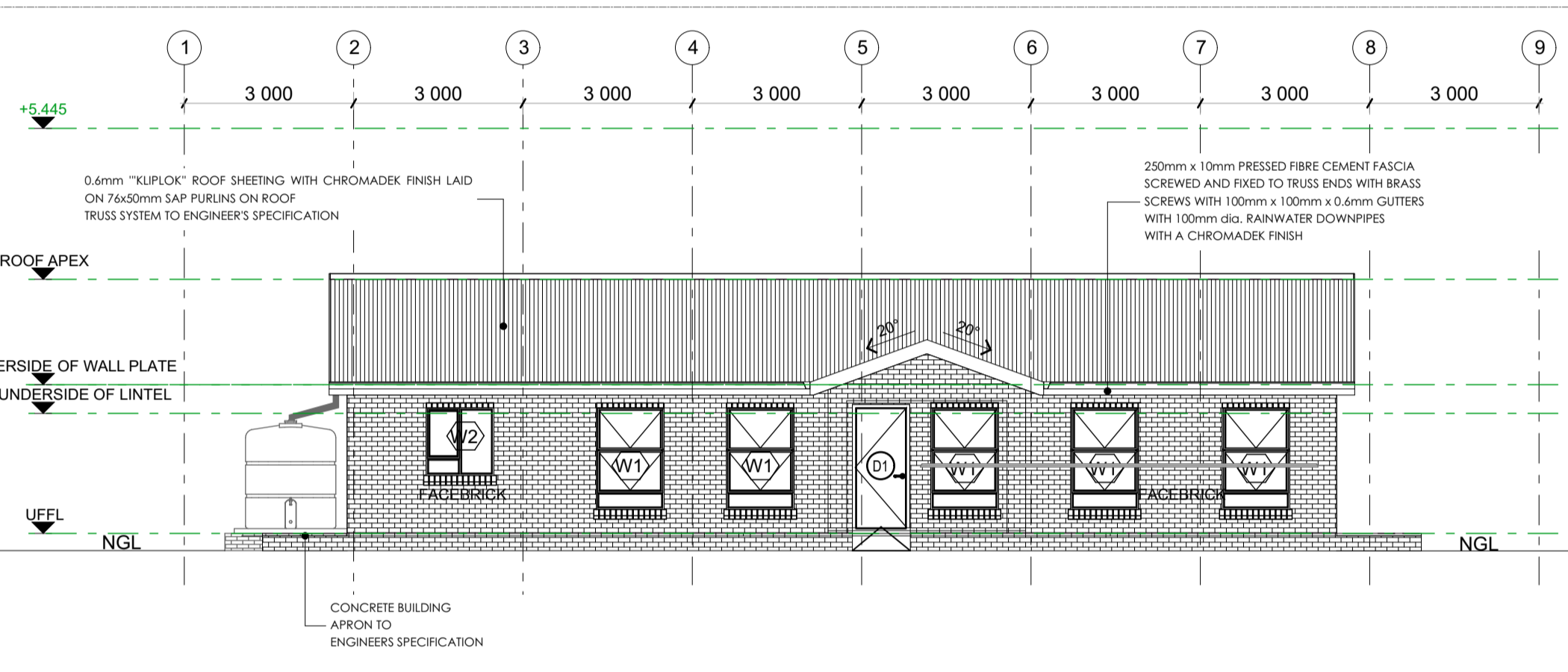
Galvanized Steel (GI) Gutters: 150mm Wide x 100mm Deep x 0.6mm EaveGutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest revision Fixed to Painted Fibre Cement Fascia board Together with standard accessories discharging into Rainwater Downpipes.

Downpipes: 110 x 110 x 1.0mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or latest revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws to Manufacturer Installation instructions.

Fascia board: 250 x 10mm Fibre Cement Fascia/Barge Board. Screw Fixed to Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



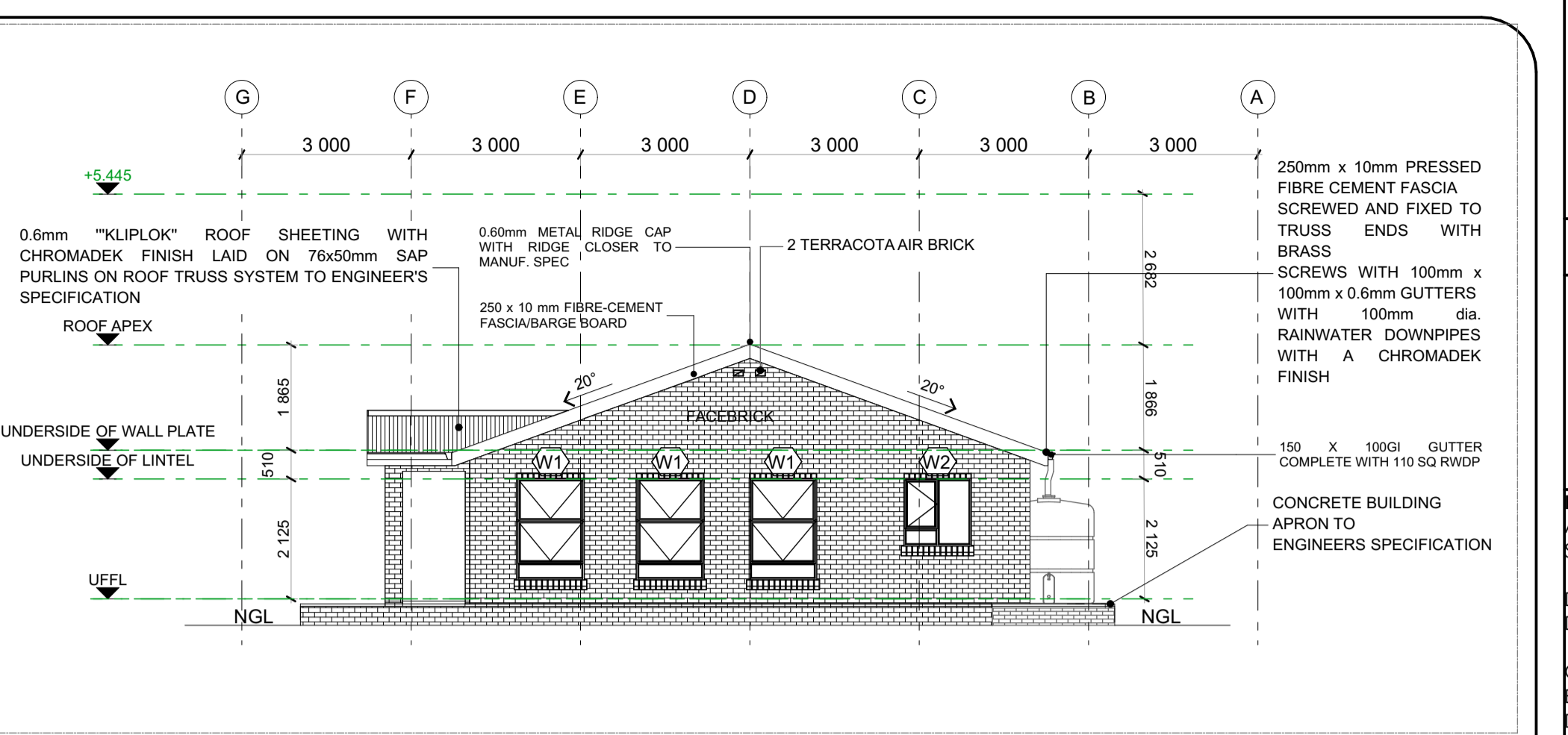
REAR ELEVATION
Scale 1: 100



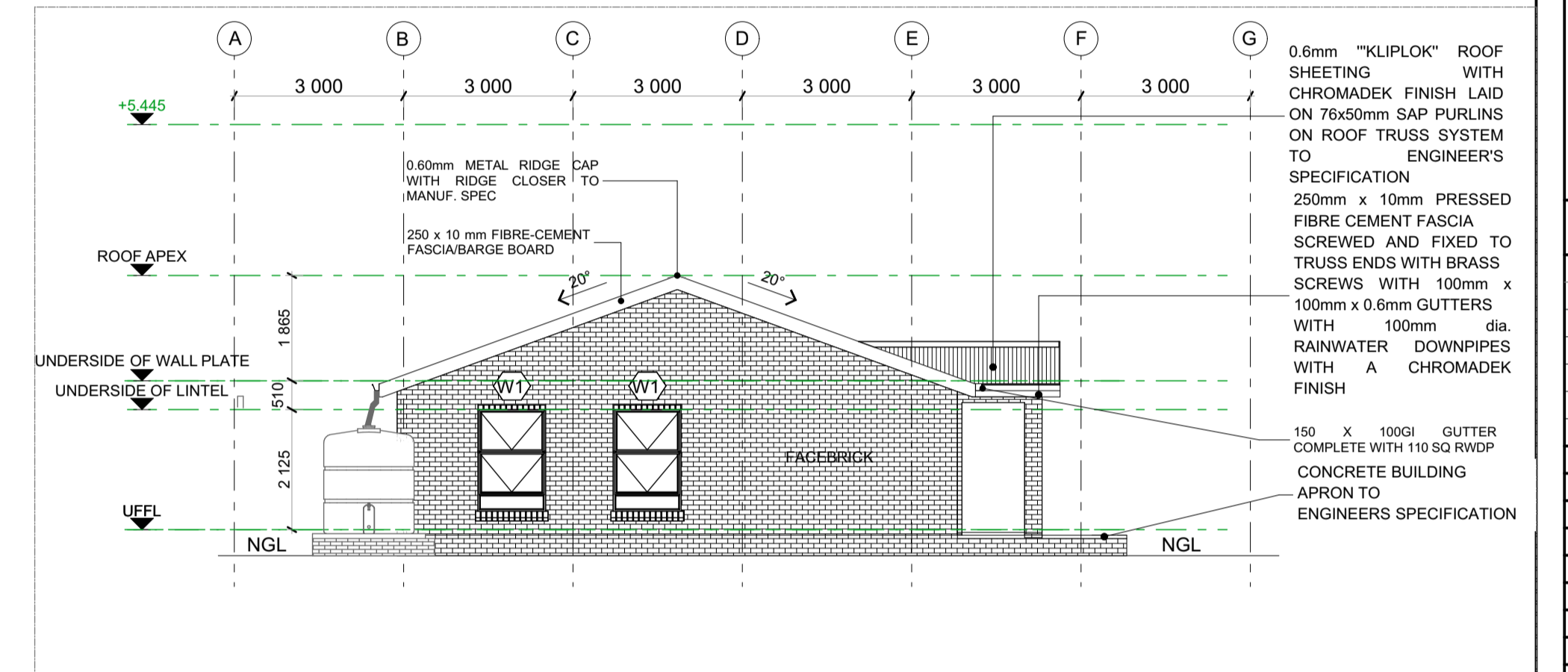
FRONT ELEVATION
Scale 1: 100

WINDOW SCHEDULE:

Window	Dimensions	No of Windows	GLAZING	FINISH COAT
W1	1200 x 1800	13 (THIRTEEN) : STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE418 ANODISED WITH BURGLAR-PROOFING OUT OF 10MM DIA SOLID ROUND-BARS.	: 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME	: CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.
W2	1200 x 1800	2 (TWO) : STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE47 COMPLETE WITH BURGLAR-PROOFING OUT OF 10mm DIA SOLID ROUND-BARS.	: 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME	: CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.
W3	1200 x 900	2 (TWO) : STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE47 COMPLETE WITH BURGLAR-PROOFING OUT OF 10mm DIA SOLID ROUND-BARS.	: 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME	: CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.



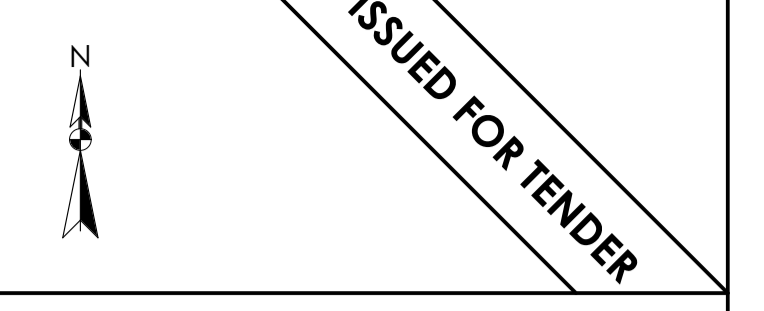
SIDE ELEVATION
Scale 1: 100



SIDE ELEVATION
Scale 1: 100

DOOR SCHEDULE:

Door	Dimensions	FRAME	DOOR	IRON-MONGERY	TYPE	No OF DOORS
D1	899 x 2118	: EXTRUDED ALUMINIUM FRAME AS PER AAMSA SPECIFICATIONS ACCORDING TO DIMENSIONS 1015W x 2100H FINISH = NATURAL ANODISED ALUMINIUM.	: 15x2015mm EXTRUDED ALUMINIUM DOOR AS PER AAMSA SPECIFICATIONS ACCORDING TO DIMENSIONS 1015w x 2015h FINISH = NATURAL ANODISED ALUMINIUM. GLASS 6mm PVB FADEBAND LAMINATED SAFETY GLASS ACCORDING TO SABS SPECIFICATIONS.	: LOCKSET - NARROW STYLE SABS APPROVED DOUBLE CYLINDER LOCKSET. DOORCLOSERS & FLOORSPRINGS - SABS APPROVED DOORCLOSERS & FLOOR-SPRING AS SUPPLY BY DORMA OR EQUAL APPROVED BARREL BOLT RECESSED AS SUPPLY BY UNION 100mm LENGTH. HANDLES DOUBLE SIDED - SATIN CHROME FINISH HANDLES ACCORDING TO ARCHITECT.	: IRON-MONGERY	: 1 (ONE)
D2	810mm x 1910mm	: SUPPLY COMPLETE WITH DOOR FOR 230mm BRICK WALL.	: GLOSS ENAMEL PAINT ON STEEL	: FIREGUARD B.S.6 AS SUPPLIED BY ARCHITECT OR EQUAL APPROVED.	: GLOSS ENAMEL PAINT ON STEEL.	: 1 (ONE)
D3	813 x 1916	: STANDARD MILD STEEL 813x2032x1.2mm SINGLE REBATE PRESSED METAL DOOR FRAME FOR 1150mm WALLS FINISH WITH 1 COAT DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL COLOUR AS PER ARCHITECT.	: 813x2032mm SEMI-SOLID CORE DOOR FINISH WITH 1 COAT UNIVERSAL UNDERCOAT AND 2 COATS ACRYLIC P.V.A. COLOUR AS PER ARCHITECT.	: LEVER SECURITY KEY, 1/DOORSTOP AND 2 DOUBLE SIDED VENTS. ALL AS PER SUPPLIER. DOOR STOP AS BY DOOR SUPPLIER FOR SAFE DOOR.	: IRON-MONGERY	: 1 (ONE)



LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH

FLOOR FINISH

WALL FINISH

WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE: ARCHITECTURAL

WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION: ELEVATIONS DOOR & WINDOW SCHEDULES

DRG. NO.	DATE	DESIGN	DATE	DESIGN	DATE	ITEM No.	DRAWN	CHECK
301-03	03/09	NA	03/09	CM				
AS SHOWN	SMTN							

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING COORDINATED

TECTURA - INTERNATIONAL!

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

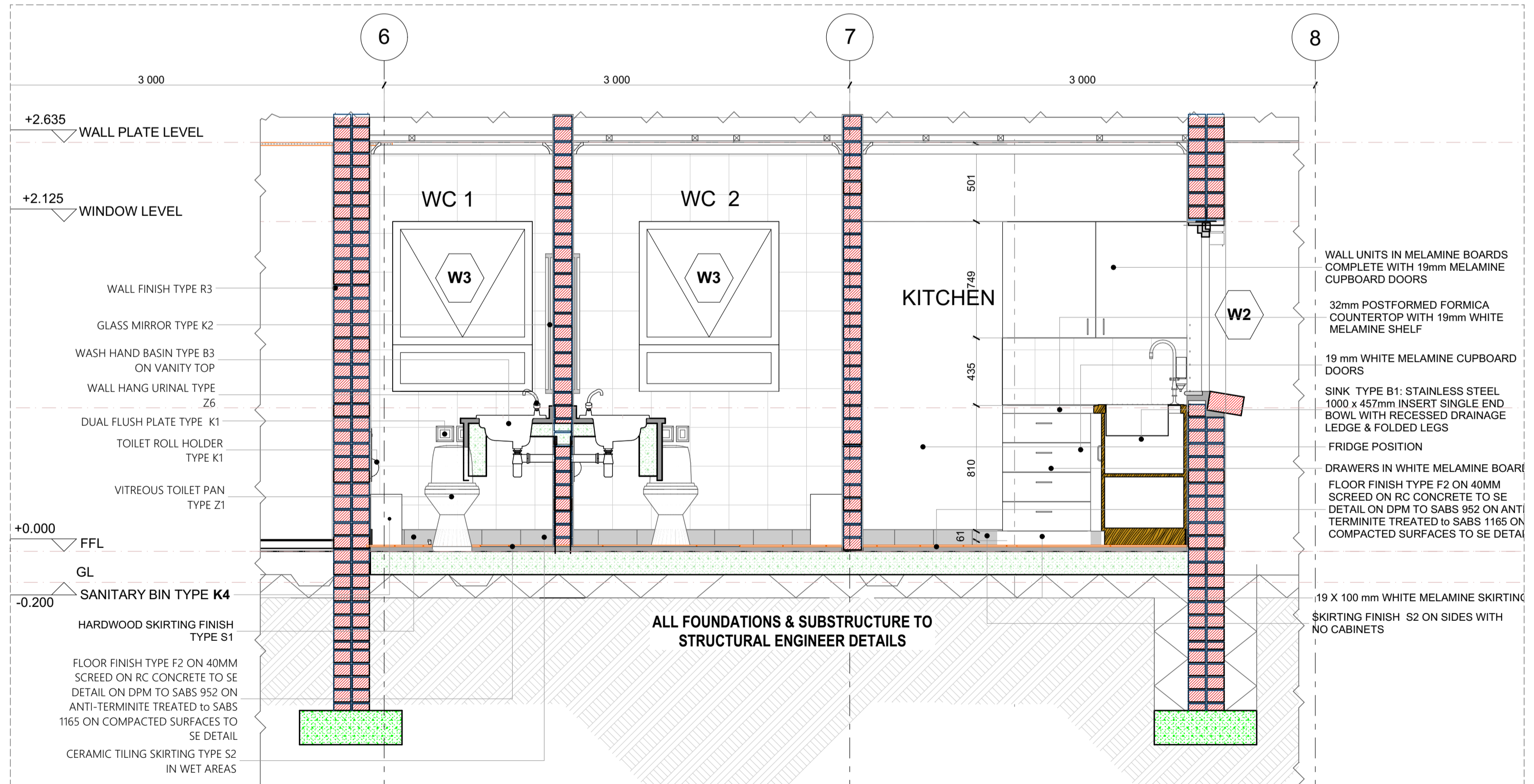
CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

- FLOORS:**
F1. PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)
450x450 15mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
F2. PORCELAIN TILES - MATI
450 x 450 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 1107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Filings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
F3. CARPETILES
500mm x 500mm x 1005 PFK staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4 (heavy duty)', laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 in fire rating, and DIN 54824 on wear test and ISO body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.
F4. CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.
F5. EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
F6. GRANITIC FINISH
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
F7. INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 150mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
F8. SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Semi-Flexible To Comply With SABS 584, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or I/O (Anti-Static) Protection Vinyl Sheet, Laid on Self Levelled Smooth Screed joint with conductive adhesive to SABS 070 or Latest Revision in Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1142, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
F9. GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.
SKIRTING:
S1. HARDWOOD OR EQUAL AND APPROVED
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with creases and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS SANS 381 type 1.
S2. CERAMIC TILE SKIRTING
600mm x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and thigh top. Complete with corner and top trims. Filings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.
S3. CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 30 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.
WALL FINISHES:
R1. FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.
R2. EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
R3. ENAMEL PAINT
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no. coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
R4. GLAZED CERAMIC WALL TILES - ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
R5. CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest Revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.
CEILING AND CORNICE:
C1. 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED
TopCel Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
C2. FIBRE CEMENT BOARDS (J-OINTED)
6.4mm thick GyproCel Prestige 5 fibre cement ceiling boards of EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
C3. PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm x 15mm Gyproc Calceus PH Prefinished or Fire Finished OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings of 300mm centres. Donn TR3 Fix Main Tees @ 4mm thickness, 1150 gwg, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn TSBV (1200 long) Cross Tees at 600 centres. Supports main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structure members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structure members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
C4. EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab/stiff.
ROOF COVERING AND INSULATION:
R61. EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 125mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 9001. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide cavity bracing. The mole to shall have gaps of 285mm centres to ensure a positive double interlocking action of side-laps. Each span shall incorporate two stiffener ribs. Profiled non-ferrous ribs to be coated on both sides with 'Global Coat' or 'Chromalok Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and dove clips in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1, where there are acoustic ceiling suspended above, a heavy duty Aluminium stonaflex foil shall be installed AND 2, where the steel work is exposed, a 50mm 'FactoryBoard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m3 and finished with metalized foil.
Galvanized Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.5mm Even Gutter of Commercial Grade Steel With Class Z275 Galvanizing to Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing to Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation Instructions.
Facia board: 250 x 110 mm Fibre Cement Facia/Barge Board. Screw Fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

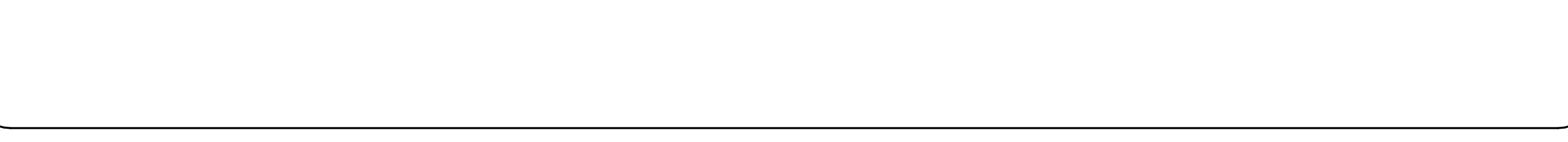
WET AREAS PLAN DETAIL D05

Scale 1: 25



WET AREAS SECTION DETAIL A153

Scale 1: 25

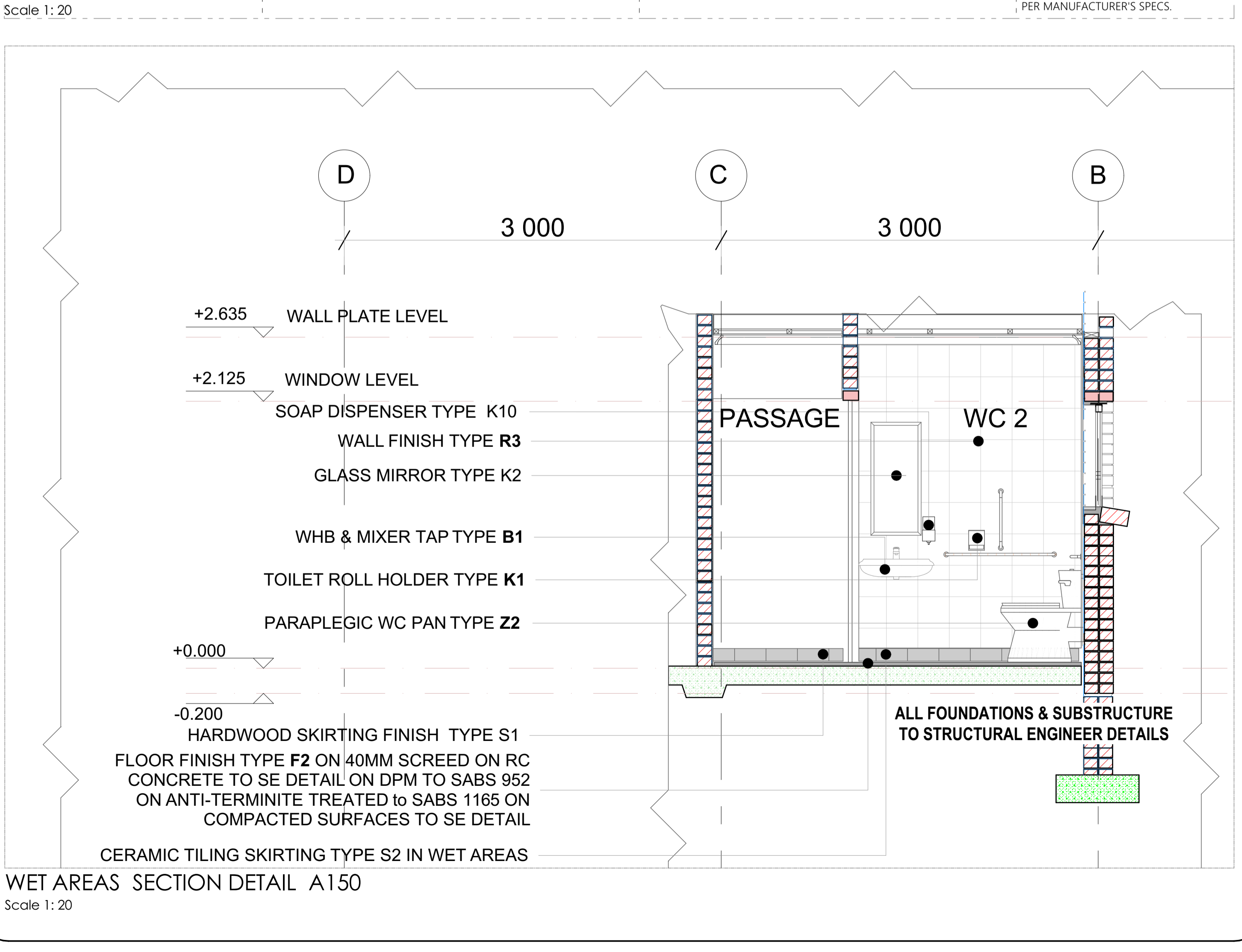
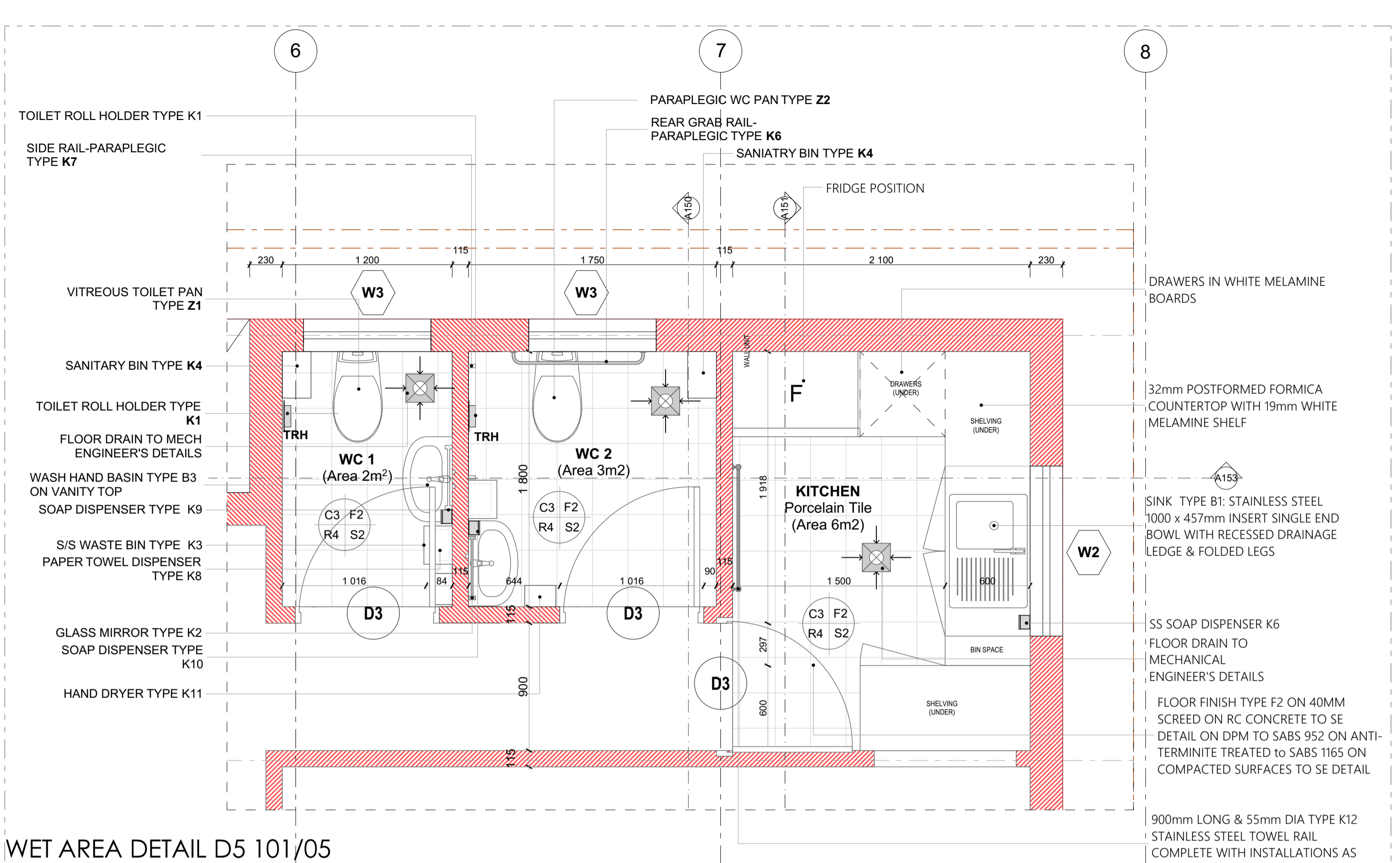


SANITARY SCHEDULE

- WC'S URINALS & SHOWER**
W1. CERAMIC STANDARD WC (CCL) CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermalastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
W2. CERAMIC PARALEGIC WC (CCL) CONCEALED CISTERN
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Calen installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
W3. CERAMIC PARALEGIC WC (CCL) CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermalastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. blank flush plate & offset push button for paralegic access.
W4. CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
W5. CERAMIC STANDARD WC (CC)
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermalastic (T.A. seal) and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
W6. CERAMIC WALL HUNG URINAL
Vitreous china size 415x152x75 mm wall hung bowl urinal to comply with SABS 497. Supplied with suitable 38mm CP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
W7. SHOWER
2000mm x 1200mm chrome plated shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glass Shower Cubicle with access door as per standard supply from manufacturer and laid to floor space configuration
• Overhead shower arm with wall flange.
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm to 120mm high concrete pit with well-cessed pitth face.
W8. WASH-HAND BASIN
W8.1. WBR & MIXER TAP
1200mm x 550mm vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVED basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra WaterTech' 15mm chrome pushbutton demand pillar tap with flanged bakelite (code KM2102) metering tap, 309-32 CP anti-felt plug with spindle, 308 brass-wash-UP CP bottle trap, mounting kit and angle valves.
W8.2. DESAILED BASIN
Vitreous china 510 x 410mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.3. WHITE GLAZED PORCELAIN WBR (VANITY)
Ceramic freesty size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged bakelite (code KM2102) metering tap, mounting kit, angle valves & chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.
W8.4. SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 450x290mm wash basin to comply with SABS 497 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar taps, chrome plated anti-felt plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlet supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
W8.5. INDUITY BASIN & No. TAP (FOR LABS)
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and RRS hole plugged and fitted with 1No. pillar tap, Chrome Plated anti-felt plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlet supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
W8.6. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.7. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.8. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.9. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.10. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.11. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.12. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.13. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.14. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.15. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.16. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.17. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.18. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.19. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.20. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.21. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.22. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.23. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.24. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.25. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.26. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.27. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.28. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.29. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.30. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.31. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.32. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.33. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.34. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.35. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.36. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.37. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.38. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.39. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.40. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.41. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.42. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.43. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.44. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.45. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.46. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.47. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.48. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.49. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.50. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.51. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.52. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.53. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.54. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.55. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.56. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
W8.57. MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and

FINISHES LEGEND

- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**
400x400 11.5mm laminar floor tile or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**
400 x 400 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Filings to include, rubbed angle lines where there is change of level and Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm, 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4 (heavy duty)', laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 in fire rating, and DIN 54824 on wear test and ISO body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANITIC FINISH**
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 150mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
- F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584, With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed gird with conductive adhesive to SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SABS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and thigh top. Complete with corner and top trims. Filings to include, rubbed angle lines where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 30 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.
- WALL FINISHES:**
- R1: FACE BRICK**
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- R2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
- R3: ENAMEL PAINT**
2 no. coats matt (egg shell) finish alkyl (zirconium) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
- R4: GLAZED CERAMIC WALL TILES - ENAMEL PAINT COMBO**
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- R5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest Revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.
- CEILING AND CORNICE:**
- C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILING OR EQUAL AND APPROVED**
"Top-Cel" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
4mm thick GyprocCeil Prestige 5 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing non-combustible to SANS 10177-5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Caloria (In Pre-finished or Fire Finished OR EQUAL & APPROVED) laid into Dorn ceiling grid and secured into place using Dorn Hold Down Clips @ 200mm c/c. Dorn Wall Angle M6 fixed to the perimeter wall using fixings @ 300mm centres. Dorn T38 Truss Feet @ 400mm thickness, 2150 gpa, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Dorn T38V (1200 long) Cross Tees at 600 centres. Suspend main truss @ 1200mm c/c using Dorn Hanger Strap 19mm suitably fixed to the building structural members. Dorn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Dorn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
Emulsion (PVA) Paint on Skimmed Plastered Stud 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab/stiff.
- ROOF COVERING AND INSULATION:**
- F1: EMBOSSED ROOFING SHEET (TWO SIDES)**
Roofing Sheets: 0.38mm thick concealed fixing sheets manufactured from roll-formed from certified steel complying with ISO 9001. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide callousy breaks. The metal rib shall have gusset of 285mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled non-ferrous to be coated on both sides with "Global Coat" or "Chromalok Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceiling suspended board, a heavy duty Aluminium slates for that is installed AND 2, where the steel work is exposed, a 50mm "TactylonBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white meltable top.
- Galvanized Steel (GI) Gutter:** 150mm wide x 100mm Deep x 0.5mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing to Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing to Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer installation instructions.
- Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board, Screw Fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Repairs & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



SANITARY SCHEDULE

- WC'S URINALS & SHOWER**
- Z1: CERAMIC STANDARD WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermostatic Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
- Z2: CERAMIC PARAPLEGIC WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermostatic Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for paraplegic access.
- Z3: CERAMIC PARAPLEGIC WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermostatic Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for paraplegic access.
- Z4: CERAMIC STANDARD WC (BACK INLET)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- Z5: CERAMIC STANDARD WC (CC)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostatic (H.D. seat) and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
- Z6: CERAMIC WALL HUNG URINAL**
Vitreous china size 415x325mm wall hung bowl urinal to comply with SABS 497. Supplied with stainless 38mm CP domical grating, CP tap inlet spreader and two hanger brackets and fitted with exposed full-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
- B1: SHOWER**
32mm Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glass Shower Cubicle with access door as per standard supply from manufacturer and fixed to tiled space configuration
• Wheelchair shower arm with flange
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete pit with unexposed pitth face.
- WASH-HAND BASIN**
- B1: WHB & MIXER TAP**
"Jazz Sanitaryware" Vitreous china size 560 x 415mm rounded "Tuscany" OR EQUAL AND APPROVED basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a "Tuscany" pedestal and fitted with 1No. "Cobra WaterTech" 15mm chrome pushbutton demand pillar tap with flanged bakelite (code KM2102) metering tap, 309-32 CP anti-flood plug with spindle, 308 basin-walls 45x45 CP hot/cold tap, mounting kit and angle valves.
- B2: DISABLED BASIN**
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
- B3: WHITE GLAZED PORCELAIN WHB (VANITY)**
Ceramic freesty size 450x300mm and self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 2No. chrome plated tap with flanged bakelite (code KM2102) metering tap, mounting kit and angle valves, 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.
- B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)**
Vitreous china size 450x200mm wash basin to comply with SABS 497 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-flood plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
- B5: HUNTER BASIN & No. TAP (FOR LABS)**
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and R5 hole plugged and fitted with 1No. pillar tap, Chrome Plated anti-flood plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
- B6: MEDIC BASIN & FITTINGS (SICK BAY)**
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No chrome plated Elbow action pillar-tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:
• Mixer type K2
• Paper towel dispenser K8 and bin type K3
• Soap dispenser type K9
• Sinks/backs comprising 2No. rows of wall the finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
- SINKS:**
- K1: STAINLESS STEEL SINK**
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboards elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
- K2: STAINLESS STEEL SINK**
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, with chrome plated overflow swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
- K3: CERAMIC SINK**
Ceramic freesty size 485 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)
- K4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS**
600mm x 300mm steel washtrough, manufactured from grade 18/10 SS, stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP lab-taps - plain oriented and chrome plated, complete with sliding wall flanges. Inletted sink waste with back nut, plug with strip, chain and stay. CP, P, Trip, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFPL, Cut out size 535 x 425mm.
- K5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS**
1200 x 550 x 200mm Double wall hung washtrough manufactured from grade 304 (18/10) SS, rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP lab-taps - plain oriented and chrome plated, complete with sliding wall flanges. Inletted sink waste with back nut and plug with strip, CP. Double drain black rubber deep seal P-Tap. Sink mounted on 2No. 30mm square SS galvanized brackets, front leg and adjustable foot piece of height of 915mm AFPL.
- SANITARY ACCESSORIES**
- K1: SS TOILET ROLL HOLDER - 2 ROLL**
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
- K2: GLASS MIRROR**
6mm thick clear float glass silver-backed mirror, size 450x600mm height with polished bevelled edges 4 times bevel and fixed, with chromium plated dome-headed mirror screws
- K3: SS WASTE BIN**
200mm x 650mm x 200mm Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
- K4: SANITARY BIN (PLASTIC)**
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K5: SOAP HOLDER**
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K6: WALL GRAB RAILS-PARAPLEGIC**
Stainless steel 914 x 90 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC**
Stainless steel 1016 x 90 x 32mm diameter (right/left hand) side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K8: PAPER TOWEL DISPENSER**
300mmx300mmx200mm Paper and dry paper towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K9: SOAP DISPENSER, DISH- WALL MOUNTED**
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K10: ALUMINIUM COAT HOOKS (MULTI-COAT)**
500mm wide x 220mm high 19mm top Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws
- K11: HAND DRYER (Hands free)**
As per Electrical Engineers specification
- K12: TOWEL RAIL**
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
- K13: SHOWER CURTAIN RAIL (straight)**
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.
- GENERAL FIXTURES**
- G1: DOOR PROTECTOR**
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to full door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.
- G2: PROTECTOR SCREWS**
Full depth PVC screws 244 x 1850mm (viewing area 234 x 1750mm) with wall-mounted code SC400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturer's instructions.
- G3: FINBOARD 150W x 100H**
Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G4: FINBOARD 300W x 100H**
Finboard size 1000mm H x 3000mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G5: WINDOW NORMAL BUNDLES (vertical fabric)**
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by nylon ball chain with a reduction gear made a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.
- G6: FLOOR DRAIN**
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
- G7: SS FLOOR EXPANSION JOINT COVER**
Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
- G8: CHALKBOARDS - GREEN SURFACE COLOUR**
Vitex system 1000 standard WHITEBOARD OR EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 36/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitex Colour Reference - Chalk Board Green LM197/2), featuring complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH
FLOOR FINISH
WALL FINISH
WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	FIRST ISSUE FOR TENDER	DESCRIPTION
A	JUL 21		

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION
SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION
PARAPLEGIC WET AREAS DETAIL

DRG No.	301-05	05/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK
NOV 2019	T. MANYAZA		PrArch 43981757

DRAWING CO-ORDINATED

TECTURA - INTERNATIONAL!

ALSO IN NAMIBIA, KENYA AND GAMBIA, BOTSWANA

CONTRACTOR

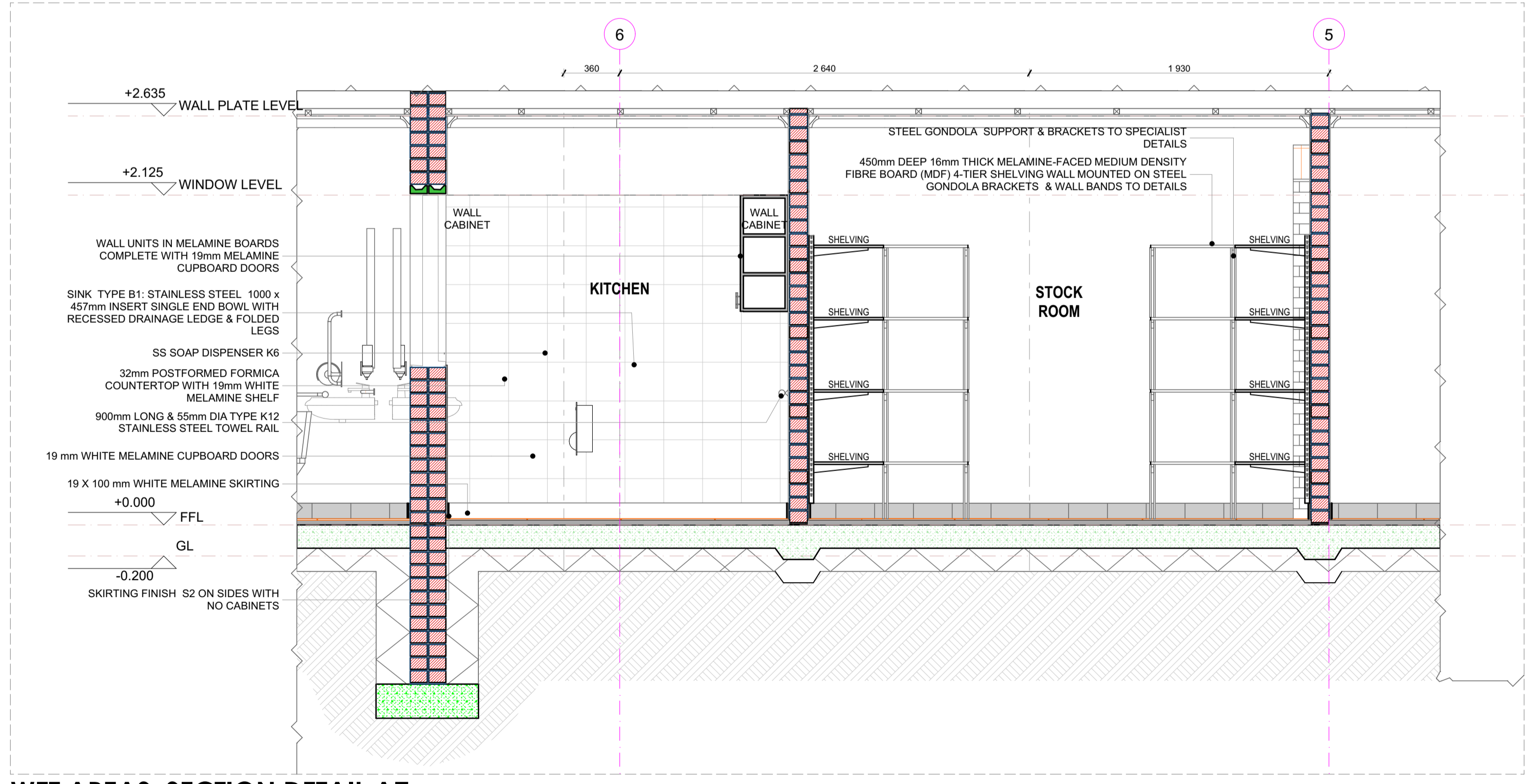
CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REVISION
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**
400 x 400 15mm laminar floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**
400 x 400 15mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Filings to include, ribbed angle tiles where there is change of level & Movement Joints of 4mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm x 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4' heavy duty, laid with approved adhesive on 30mm thick concrete screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and ISO body test at less than 20% at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVES**
45mm thick multi-coloured concrete paves laid on sand bedding to civil/structural engineer's specification in approved pattern and completed to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANITIC FINISH**
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVES (RIGID PAVING/VEHICULAR WAYS)**
200mm x 150mm x 50 mm thick concrete interlocking paves, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
- F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or ID (anti-static) Protection Vinyl Sheet, Laid on Self Levelled, Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specification With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**
12 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs of centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding, the skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and thigh top. Complete with corner and top trims. Filings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.
- WALL FINISHES:**
- R1: FACE BRICK**
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- R2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade, in accordance to manufacturer's instructions.
- R3: ENAMEL PAINT**
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade, in accordance to manufacturer's instructions.
- R4: GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)**
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- R5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tile to Comply with SABS 22 or Latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standard.
- CEILING AND CORNICE:**
- C1: 7mm GYPSUM BOARDS FINISH FLASHERD CEILING OR EQUAL AND APPROVED**
"TopCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at minimum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
6.4mm thick GyproCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing non-combustible to SANS 10173:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Calceus (Pre-Flushed) or Fire Flashed OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4, fixed to the perimeter wall using fixings of 300mm centres. Donn TR 138 Fan Tiles (0.4mm thickness, 1150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn TSBV (1200 long) Cross Tiles at 600 centres. Supports main ties @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tiles at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
Emulsion (PVA) Paint on Skimmed Plastered Sto² 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffits.
- ROOF COVERING AND INSULATION:**
- R61: EMBOSSED ROOFING SHEET (TWO SIDES)**
Roofing Sheets: 0.38mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (G1). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The male rib shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromalox" Colour and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and dove clips in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceiling suspended board, a heavy duty Aluminium stonafon foil shall be installed AND 2, where the steel work is exposed, a 50mm "FlocystoBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
- Galvanized Steel Gullies:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gullies of Commercial Grade Steel With Class Z275 Galvanizing to Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipes:** 110 x 110 x 10.0mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing to Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns and cast in brickwork or steel including brackets and self-lapping screws to Manufacturer Installation Instructions.
- Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board, Screw Fixed to Tuss Ends & Counter Bolt With Countersunk Brass Screws. Repairs & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

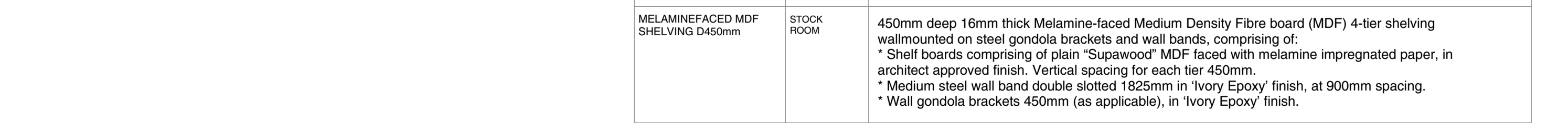
WET AREAS PLAN DETAIL D03

Scale 1: 25



WET AREAS SECTION DETAIL A7

Scale 1: 25



TYPE	LOCATION	DESCRIPTION/SPECIFICATION
MELAMINE FACED MDF SHELVING D450mm	STOCK ROOM	450mm deep 16mm thick Melamine-faced Medium Density Fibre board (MDF) 4-tier shelving wallmounted on steel gondola brackets and wall bands, comprising of: * Shelf boards comprising of plain "Supawood" MDF faced with melamine impregnated paper, in architect approved finish. Vertical spacing for each tier 450mm * Medium steel wall band double slotted 1825mm in 'Ivory Epoxy' finish, at 900mm spacing. * Wall gondola brackets 450mm (as applicable), in 'Ivory Epoxy' finish.

SANITARY SCHEDULE

- WC'S URINALS & SHOWER**
- W1: CERAMIC STANDARD WC (C/C) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 487 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
- W2: CERAMIC PARAPLEGIC WC**
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 487. Fitted with Calen installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- W3: CERAMIC PARAPLEGIC WC (C/C) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 487 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for paraplegic access.
- W4: CERAMIC STANDARD WC (C/C) INLET**
Vitreous china 90° outlet, back inlet pan to comply with SABS 487. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
- W5: CERAMIC STANDARD WC (C/C)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 487. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat (G. seat) and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
- W6: CERAMIC WALL HUNG URINAL**
Vitreous china size 415x315x275 mm wall hung bowl urinal to comply with SABS 487. Supplied with suitable 38mm CP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
- SHOWER**
2000mm x 1200mm Chrome plated steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP graded waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
* Glass Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
* Overhead shower arm with wall flange
* Chrome Plated Shower Head with ball jointed connector
* Chrome Plated Bath/Shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to recessed 50 mm into a 100mm high concrete pit with well exposed pitth face.
- WASH-HAND BASIN**
- R1: WMR & MISCER TAP**
1200mm x 450mm Vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVED basin to comply with SABS 487 with single tap-hole configuration supplied with integrated overflow and chairstay hole with 2No. chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
- R2: DESAILED BASIN**
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 487, in two tap hole configuration fitted with 2No. chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
- R3: WHITE GLAZED PORCELAIN WHB (VANITY)**
Ceramic freesty size 450x350mm oval self-rimming vanity basin to comply with SABS 487 in one tap hole configuration supplied without overflow and fitted with: No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.
- R4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)**
Vitreous china size 450x300mm wash basin to comply with SABS 487 in 2-tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-rattle plug with sprinle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
- R5: RUDITY BASIN & No. TAP (FOR LABS)**
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 487 and R16 hole plugged and fitted with: No. pillar tap, Chrome Plated anti-rattle plug with sprinle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
- R6: MEDIC BASIN & FITTINGS (SICK BAY)**
Ceramic fire clay 510 x 400mm semi rounded lavatory basin to comply with SABS 487, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
* Mixer type K2
* Paper towel dispenser K8 and bin type K3.
* Soap dispenser type K7.
* Soapback comprising 2No. rows of wall the finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
- SINKS:**
- K1: STAINLESS STEEL SINK**
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
- K2: STAINLESS STEEL SINK**
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved sink mixer-wall type, with chrome plated overflap swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
- K3: CERAMIC SINK**
Ceramic freesty size 485 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)
- K4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS**
600mm x 300mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP tap/straps - group extended chrome plated, complete with sliding wall flanges. Inletted sink waste with back nut, plug with strap, chain and stay. CP, P-Trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFPL. Cut out size 555 x 425mm.
- K5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS**
1200 x 555 x 200mm Double wall hung washtrough manufactured from grade 304 (18/10) SS, rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. wall hung tap/straps, with levelled, adjustable wall flanges and separate adjustable connections. CP, In-letted sink waste with back nut and plug with strap, CP, Double drain back rubber deep seal P-Trap. Sink mounted on 2No. 30mm square SS galvaz brackets, front leg and adjustable foot piece of height of 915mm AFPL.

SANITARY ACCESSORIES

- K1: SS TOILET ROLL HOLDER - 2 ROLL**
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
- K2: GLASS MIRROR**
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times flange and fixed, with chromium plated domed headed mirror screws
- K3: SS WASTE BIN**
200L x 650L x 2100 Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
- K4: SANITARY BIN (PLASTIC)**
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K5: SOAP HOLDER**
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K6: WALL GRAB RAILS-PARAPLEGIC**
Stainless steel 91.4 x 91.4 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC**
Stainless steel 101.6 x 91.4 x 32mm diameter (right/left) hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K8: PAPER TOWEL DISPENSER**
350mmx160mmx200mm Paper and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K9: SOAP DISPENSER-DISH, WALL MOUNTED**
115W x 270H x 110D Stainless Steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K10: ALUMINIUM COAT HOOK (Multi-track)**
500mm x 220mm x 19mm top Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws
- K11: HAND DRYER (Hands free)**
As per Electrical Engineers specification
- K12: TOWEL RAIL**
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
- K13: SHOWER CURTAIN RAIL (straight)**
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.

GENERAL FIXTURES

- G1: DOOR PROTECTOR**
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.
- G2: PROTECTOR SCREEN**
Full cover screen 2840 x 1850mm (viewing area 2240 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturer's instructions.
- G3: FINBOARD 1500W X 1000H**
Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G4: FINBOARD 900W X 1200H**
Finboard size 1200mm H x 900mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G5: WINDOW NORMAL BUNDS (vertical blinds)**
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear ratio a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed tie fixing brackets.
- G6: FLOOR DRAIN**
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
- G7: SL FLOOR EXPANSION JOINT COVER**
Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
- G8: CHALKBOARDS - GREEN SURFACE COLOUR**
Vitex system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enameled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 362004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitreous Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

ISSUED FOR TENDER

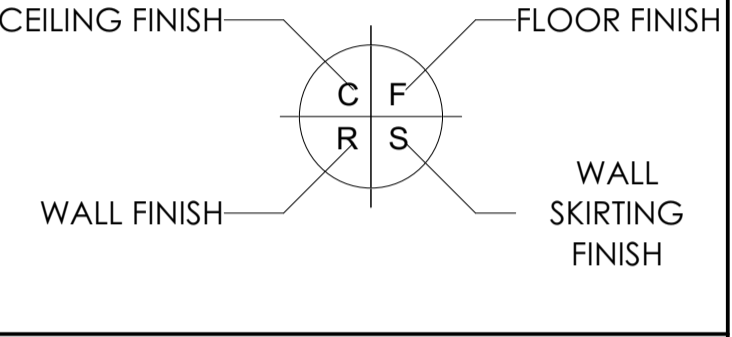
- LEGEND**
- NEW WALLS
 - EXISTING WALL TO BE RETAINED
 - EXISTING WALL TO BE DEMOLISHED
 - NEW FIXTURES & FITTING TO BE INSTALLED
 - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	FIRST ISSUE FOR TENDER	DESCRIPTION
A	JUL 21		

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

SMALL ADMINISTRATION BLOCK

WET AREAS & JOINERY DETAIL D03-01

DRG. No.	301-06	06/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK

DATE	RESPONSIBLE PROFESSIONAL	PR. NUMBER
NOV 2019	T. MANYAZA	Pr/Arch 43981757

TECTURA - INTERNATIONAL!

ALSO IN NAMIBIA, KENYA AND GAMBHORE, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**
450x450 15mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**
450 x 450 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include: ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm x 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4 (heavy duty)', laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and SO body test at less than 20x at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 (Latest Revision).
- F6: GRANOLITHIC FINISH**
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 193mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.
- F8: SEMI FLEXIBLE VINYL SHEETING (CORROSIIVE RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or ID (anti-static) Protection Vinyl Sheet, Laid on Self Levelled, Smooth Screed grouted with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

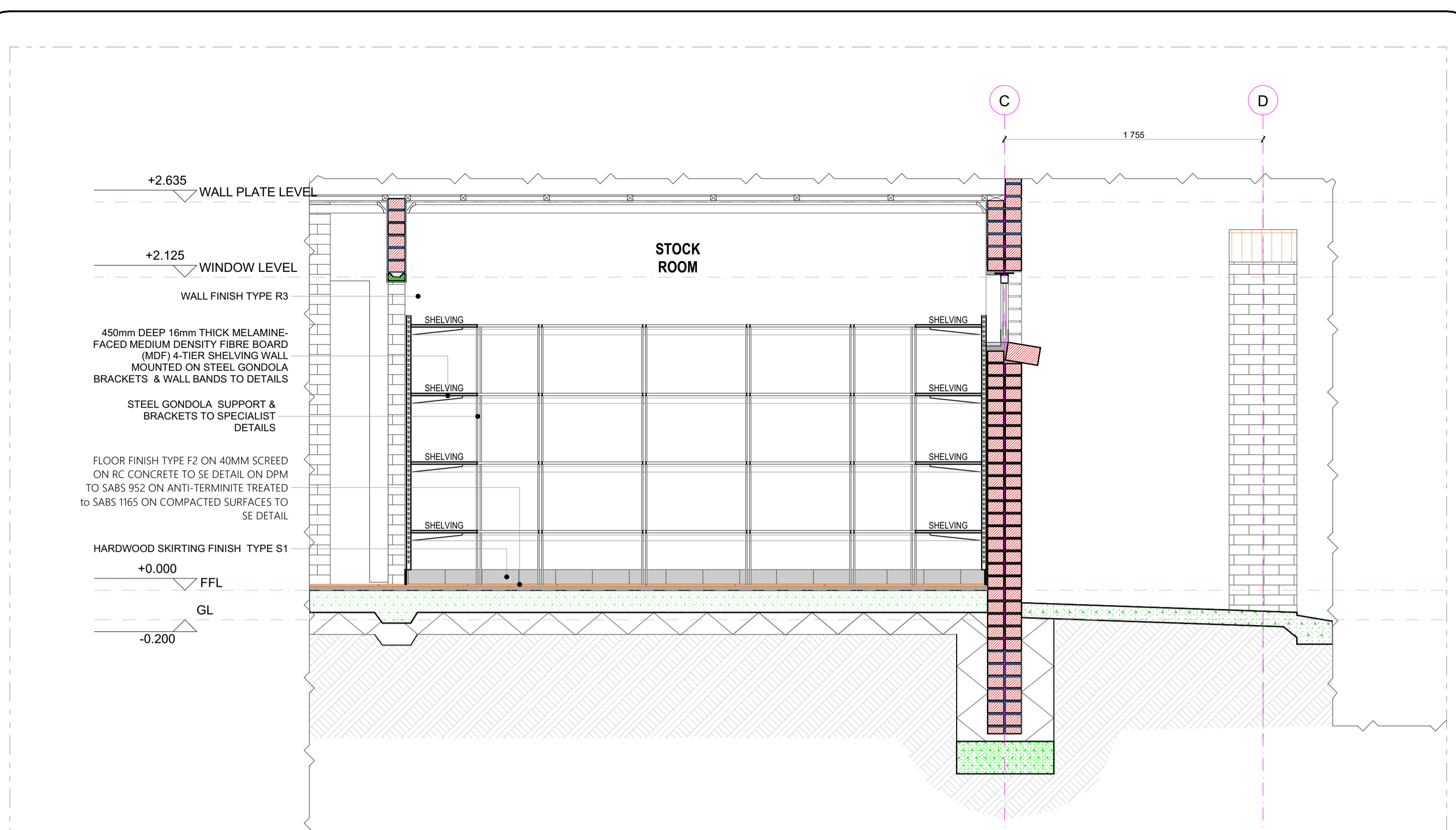
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and straight top. Complete with corner and top trims. Fittings to include: ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

- WALL FINISHES:**
- R1: FACE BRICK**
F84 face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- R2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R3: ALKALY (ENAMEL) PAINT**
2 no. coats matt (egg shell) finish alkyl (zirconium) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R4: GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)**
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- R5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest Revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

- CEILING AND CORNICE:**
- C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED**
'GypCel Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm X 15mm Gyproc Celotex (or Prefabbed or Fire Insulated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings at 300mm centres. Donn TR3 Mesh Ties @14mm thickness, 2150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn TBV (1200 long) Cross Tees at 600 centres. Suspend main ties @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend end full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
'Emulsion (PVA) Paint on Skimmed Plastered Slab' 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffits.

- ROOF COVERING AND INSULATION:**
- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
Roofing Sheets: 0.38mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (RT). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide callousy breaks. The male rib shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roofbeams to be coated on both sides with 'Global Coat' or 'Chromalok Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty 'Aluminium stonafon foil' shall be installed AND 2, where the steel work is exposed, a 50mm 'FactoryBoard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white meltable foil.
- Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Even Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws to Manufacturer Installation Instructions.
- Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board, Screw Fixed To Tuss Ends & Counter Butts With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic F.V.A.



JOINERY SECTION DETAIL A9
Scale 1: 25

STEEL SHELVING		
TYPE	LOCATION	DESCRIPTION/SPECIFICATION
MELAMINE FACED MDF SHELVING D450mm	STOCK ROOM	450mm deep 16mm thick Melamine-faced Medium Density Fibre board (MDF) 4-tier shelving wallmounted on steel gondola brackets and wall bands, comprising of: * Shelf boards comprising of plain 'Supawood' MDF faced with melamine impregnated paper, in architect approved finish. Vertical spacing for each tier 450mm. * Medium steel wall band double slotted 1825mm in 'Ivory Epoxy' finish, at 900mm spacing. * Wall gondola brackets 450mm (as applicable), in 'Ivory Epoxy' finish.

SANITARY SCHEDULE

- WC'S URINALS & SHOWER**
- U1: CERAMIC STANDARD WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
- U2: CERAMIC PARAPLEGIC WC**
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- U3: CERAMIC PARAPLEGIC WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. blank flush plate & offset push button for paraplegic access.
- U4: CERAMIC STANDARD WC (BACK INLET)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- U5: CERAMIC STANDARD WC (CC)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat (TS, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
- U6: CERAMIC WALL HUNG URINAL**
Vitreous china size 415x152x75 mm wall hung bowl urinal to comply with SABS 497. Supplied with suitable 38mm CP domical grating, CP tap inlet spreader and two hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
- S1: SHOWER**
300mm Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP graded waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
* Glass/Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
* Wheelchair shower arm with wall flange.
* Chrome Plated Shower Head with ball jointed connector
* Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete pit with exposed pit/hole face.
- WASH-HAND BASIN**
- B1: WMR & MIXER TAP**
Top Sanitaryware Vitreous china size 565 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 'No. Cobro WaterTech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2102) metering tap, 309-32 CP anti-hell plug with spindle. 308 basin-walls 45mm CP bottle trap, mounting kit and angle valves.
- B2: DISABLED BASIN**
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2 No. chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
- B3: WHITE GLAZED PORCELAIN WHB (VANITY)**
Ceramic freesty size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: No. chrome plated tap with flanged backnut (code KM2102) metering tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.
- B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)**
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-hell plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
- B5: HUNDTY BASIN & No. TAP (FOR LABS)**
Ceramic fire clay 560x455mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and R15 hole plugged and fitted with No. pillar tap, Chrome Plated anti-hell plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
- B6: MEDIC BASIN & FITTINGS (SICK BAY)**
Ceramic china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:
* Mixer type K2
* Paper towel dispenser K8 and bin type K3.
* Soap dispenser type K9.
* Sataback comprising 2No. rows of wall tile finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
- SINKS:**
- K1: STAINLESS STEEL SINK**
Stainless steel 304 1450mm inset single and bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFRL.
- K2: STAINLESS STEEL SINK**
Stainless steel 304 1450mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved sink mixer-wall type, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFRL.
- K3: CERAMIC SINK**
Ceramic freesty 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)
- K4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS**
600mm x 300mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP tap/straps - plain extended and chrome plated, complete with sliding wall flanges. Unslotted sink waste with back nut, plug with strip, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFRL. Cut out size 535 x 425mm.
- K5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS**
1200 x 553 x 200mm Double bowl wall hung washub manufactured from grade 304 (18/10) SS, rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No wall type tap/straps, with level Outlet, adjustable wall flange and exposed adjustable connection. CP, Un-slotted sink waste with back nut and plug with strip, CP, Double drain black rubber deep seal 'P'-trap. Sink mounted on 2No. 30mm square SS galvanized brackets, front leg and adjustable foot piece at height of 915mm AFRL.
- SANITARY ACCESSORIES**
- K1: SS TOILET ROLL HOLDER - 2 ROLL**
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
- K2: GLASS MIRROR**
6mm thick clear float glass silver-backed mirror, size 450x600mm height with polished bevelled edges 4 times fold and fixed, with chromium plated dome-headed mirror screws.
- K3: SS WASTE BIN**
200mm x 65mm x 200mm Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
- K4: SANITARY BIN (PLASTIC)**
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K5: SOAP HOLDER**
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K6: WALL GRAB RAILS-PARAPLEGIC**
Stainless steel 914 x 90 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC**
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K8: PAPER TOWEL DISPENSER**
350mmx160mmx200mm) Paper and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K9: SOAP DISPENSER, DISH- WALL MOUNTED**
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K10: ALUMINIUM COAT HOOKS (MULTI-HOOK)**
500mm Wide x 220mm High x 19mm Top Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws
- K11: HAND DRYER (Hands free)**
As per Electrical Engineers specification
- K12: TOWEL RAIL**
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
- K13: SHOWER CURTAIN RAIL (straight)**
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.
- GENERAL FIXTURES**
- G1: DOOR PROTECTOR**
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FL, or as specified.
- G2: PROTECTOR SCREEN**
Full door PVC screen size 2440 x 1850mm (viewing area 2240 x 1750mm) with wall-mounted code SC040 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.
- G3: FINBOARD 1500W X 1000H**
Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G4: FINBOARD 300W X 1200H**
Finboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G5: WINDOW NORMAL BUNDS (vertical fabric)**
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.
- G6: FLOOR DRAIN**
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
- G7: SS FLOOR EXPANSION JOINT COVER**
Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey), to be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
- G8: CHALKBOARDS- GREEN SURFACE COLOUR**
Vitreous system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 362/204 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and freely structured, olive green in colour (Vitreous Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

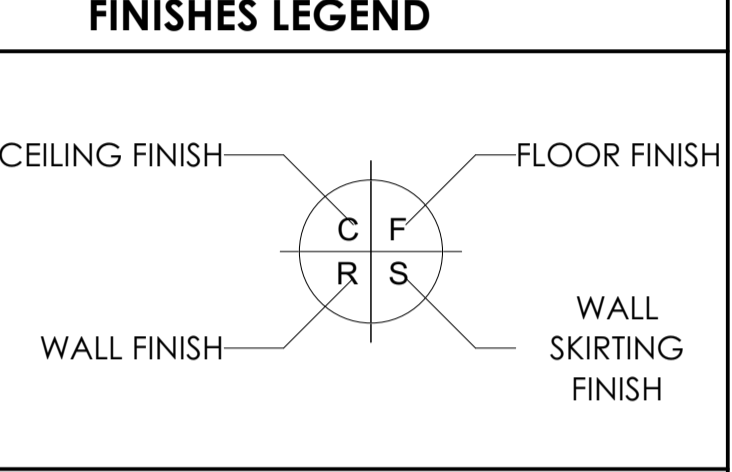
ISSUED FOR TENDER

- LEGEND**
- NEW WALLS
 - EXISTING WALL TO BE RETAINED
 - EXISTING WALL TO BE DEMOLISHED
 - NEW FIXTURES & FITTING TO BE INSTALLED
 - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT
DISCIPLINE: ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK

JOINERY DETAILS D03-02

DRG No.	301-07	07/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK
NOV 2019	T. MANYAZA		Pr/CA 43981757

DATE	RESPONSIBLE PROFESSIONAL	PR. NUMBER
NAME	SIGN	
NOV 2019	T. MANYAZA	Pr/CA 43981757

DRAWING CO-ORDINATED

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CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

FLOORS:

F1. PORCELAIN TILES - MATI (CORROSION RESISTANT & ANTI-SLIPPER)
420 x 420 11.5mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

F2. PORCELAIN TILES - MATI
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3. CARPETILES
500mm x 500mm . 1005 PFK staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and 50 body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.

F4. CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5. EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6. GRANULITIC FINISH
22mm thick unadorned Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7. INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 191mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8. SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPER)
22mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (Anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9. GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1. HARDWOOD OR EQUAL AND APPROVED
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099 fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2. CERAMIC TILE SKIRTING
60mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with concave base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3. CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 20 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1. FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2. EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.

R3. ALKALI (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkali (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.

R4. GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5. CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standards.

CEILING AND CORNICE:

C1. 7mm GYPSUM BOARDS FINISH PLASTERED CEILING OR EQUAL AND APPROVED
7mm GypCel Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

C2. FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

C3. PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm x 15mm Gyproc Calceus (Pre-finished or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings of 300mm centres. Donn 138 FR Main Tees @ 40mm thickness, 1150 gwg, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4. EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

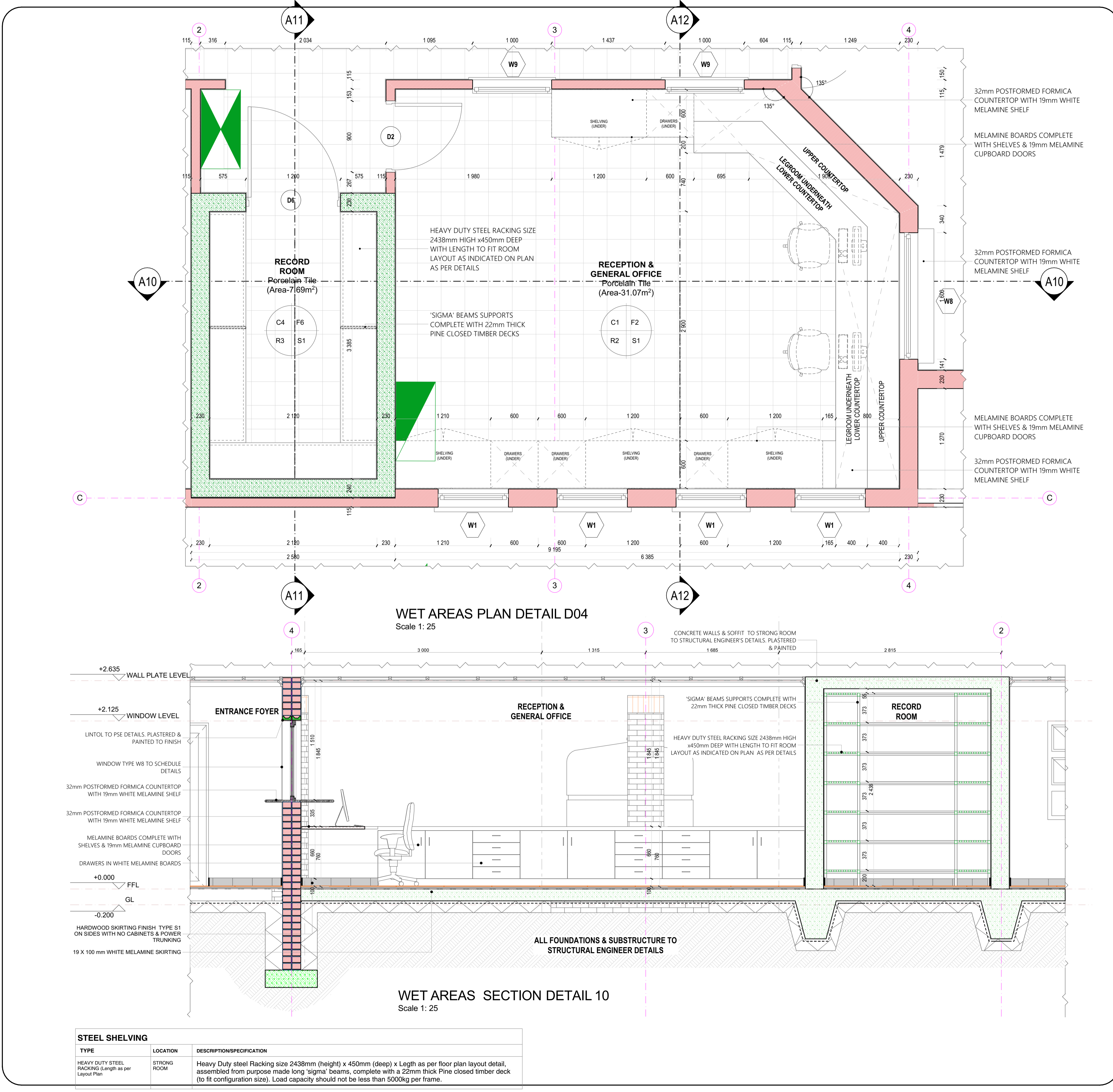
R1. EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 1.58mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 580 (ET). The profile shall have three trapezoidal ribs of 20mm spacing giving a total cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The main ribs shall have gaps of 28mm centres to ensure a positive double interlocking action of side-laps. Each span shall incorporate two stiffener ribs. Profiled rooflights to be coated on both sides with 'Global Coat' or 'Chromalok Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closes in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1. where there are acoustic ceilings suspended board, a heavy duty 'Aluminium station foil' shall be installed AND 2. where the steel work is exposed, a 50mm 'FactoryBoard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with metalized foil.

Galvanized Steel (GI) Gutter: 150mm wide x 100mm Deep x 0.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation Instructions.

Facia board: 250 x 10 mm Fibre Cement Facia/Barge Board. Screw fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



STEEL SHELVING		
TYPE	LOCATION	DESCRIPTION/SPECIFICATION
HEAVY DUTY STEEL RACKING (Length as per Layout Plan)	STRONG ROOM	Heavy Duty steel Racking size 2438mm (height) x 450mm (deep) x Legth as per floor plan layout detail, assembled from purpose made long 'sigma' beams, complete with a 22mm thick Pine closed timber deck (to fit configuration size). Load capacity should not be less than 500kg per frame.

ISSUED FOR TENDER

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FINISHES LEGEND

CEILING FINISH: C, F, R, S
FLOOR FINISH: F
WALL FINISH: W, S
WALL SKIRTING FINISH: S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

SMALL ADMINISTRATION BLOCK

JOINERY DETAILS D04-01

DRG No.	301-08	08/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK
NOV 2019	T. MANYADZA		PrArch 43981757

TECTURA - INTERNATIONAL!

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

- FLOORS:**
- F1: PORCELAIN TILES - MATI (CORROSION RESISTANT & ANTI-SLIPPERY)**
420 x 420 11.5mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILE - MATI**
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 4mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm . 1005 PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54224 on weta test and ISO body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**
45mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANULITIC FINISH**
22mm thick unsealed Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness. Engineered for ISO or ISO (Anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

- S1: HARDWOOD OR EQUAL AND APPROVED**
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cove base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

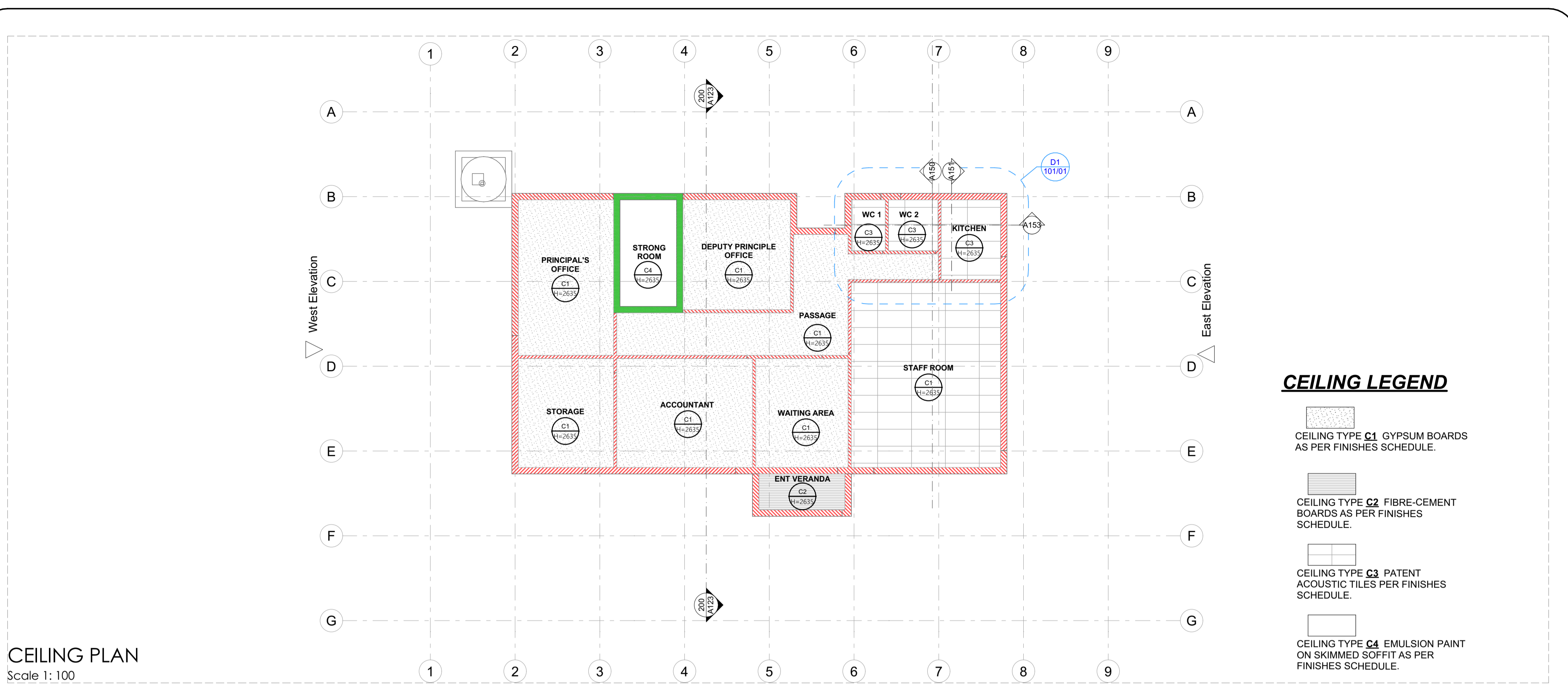
- W1: FACE BRICK**
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- W2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt Emulsion Paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W3: ENAMEL PAINT**
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "RS", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- W5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

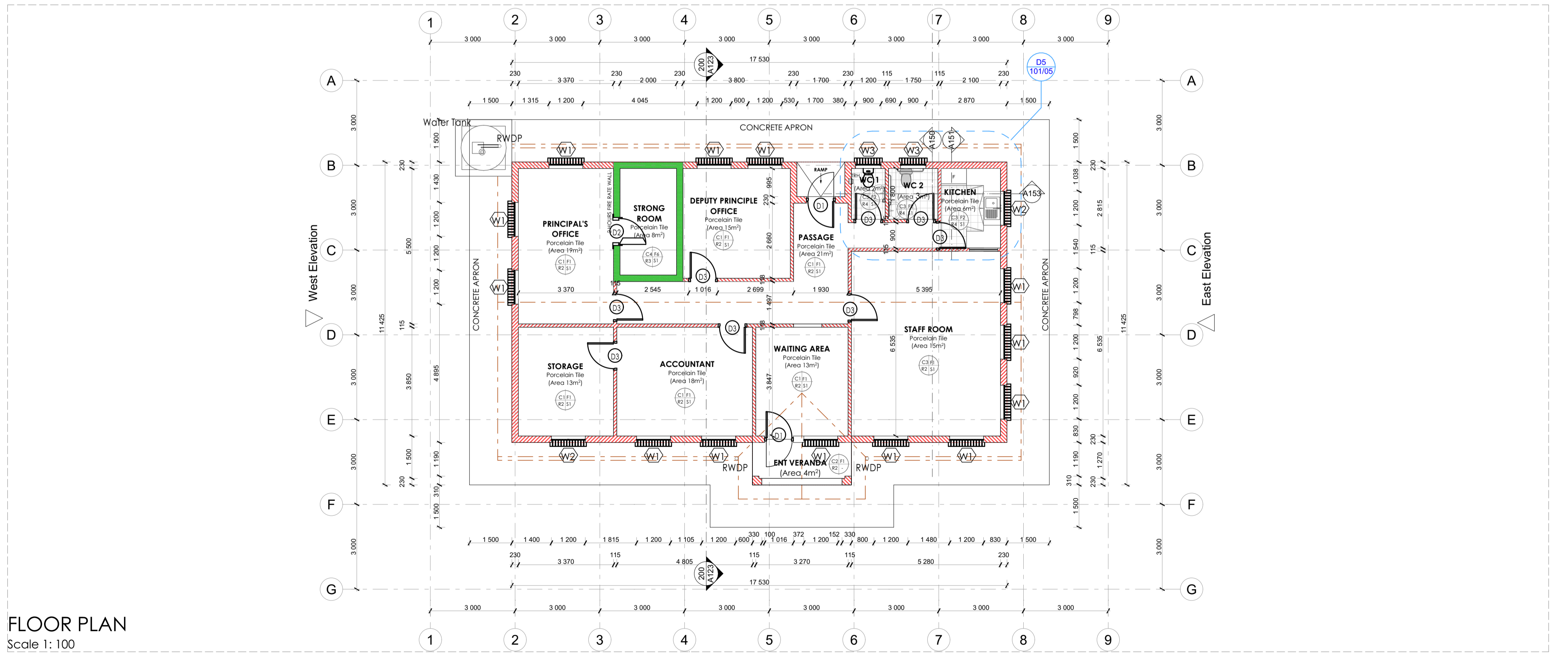
- C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply, Gyproc RhinoPlate to all joints and skim the ceiling using Gyproc RhinoPlate.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoPlate to all joints and skim the ceiling using Gyproc RhinoPlate.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Calotex (P) Prefinished or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (3.4mm thickness, 2150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
Emulsion (PVA) Paint on Skimmed Plastered Slab 2Co. 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
Roofing Sheets: 1.50mm Thick cold-rolled forming sheets manufactured from roll-formed from certified steel complying with ISO 530:01. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide casully breaks. The main ribs shall have an 83mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty "Aluminium stonafon foil" shall be installed AND 2, where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
- Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws To Manufacturer Installation instructions.
- Facia board:** 250 x 10 mm Fibre Cement Facia/Barge Board. Screw Fixed To Tuss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



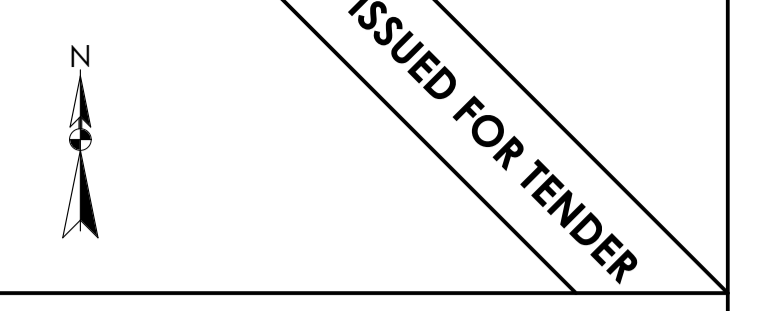
CEILING PLAN
Scale 1: 100



FLOOR PLAN
Scale 1: 100

CEILING LEGEND

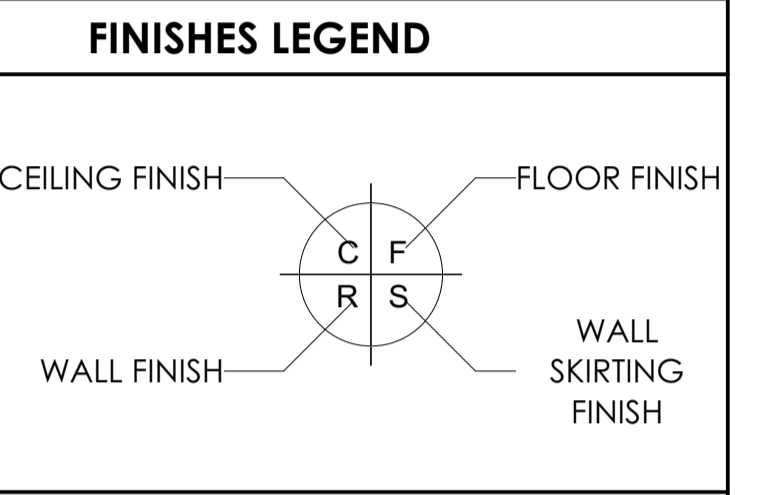
- CEILING TYPE C1:** GYPSUM BOARDS AS PER FINISHES SCHEDULE.
- CEILING TYPE C2:** FIBRE-CEMENT BOARDS AS PER FINISHES SCHEDULE.
- CEILING TYPE C3:** PATENT ACOUSTIC TILES PER FINISHES SCHEDULE.
- CEILING TYPE C4:** EMULSION PAINT ON SKIMMED SOFFIT AS PER FINISHES SCHEDULE.



LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY IS TO BE REPORTED TO THE PROJECT ARCHITECT



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT
DISCIPLINE: **ARCHITECTURAL** 4
WORK DESCRIPTION - SUB DIVISION: **SMALL ADMINISTRATION BLOCK**
DRAWING DESCRIPTION: **FLOOR & CEILING PLANS**

DRG No.	301-01	01/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING COORDINATED

TECTURA - INTERNATIONAL!

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**
420 x 420 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds with thickness/specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level and Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fire Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm . 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANOLITHIC FINISH**
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec, laid on sand bedding to civil/structural engineer's specification to a "herringbone" pattern to the Architect's approval.
- F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (Anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per P&E Details installed in All Duct Chambers Accommodating Sanitary Services.
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS(SANS 381 type 1).
- S2: CERAMIC TILE SKIRTING**
600mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cone base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

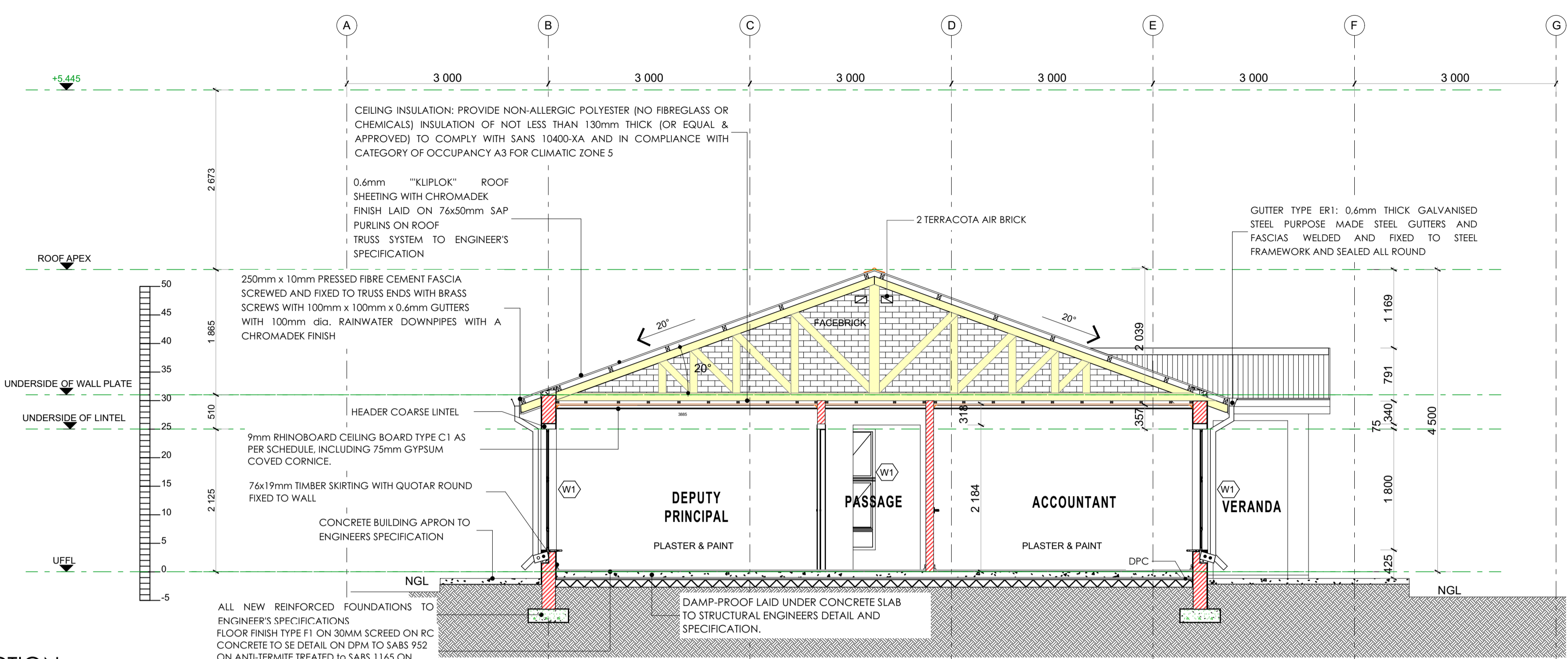
WALL FINISHES:

- W1: FACE BRICK**
F&X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- W2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W3: ENAMEL (ENAMEL) PAINT**
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- W5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- CEILING AND CORNICE:**
- C1: 7mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177-5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Calceus (Pre-finished or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle 146 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (4.4mm thickness, 2150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
"Emulsion (PVA) Paint on Skimmed Plastered Stud" 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

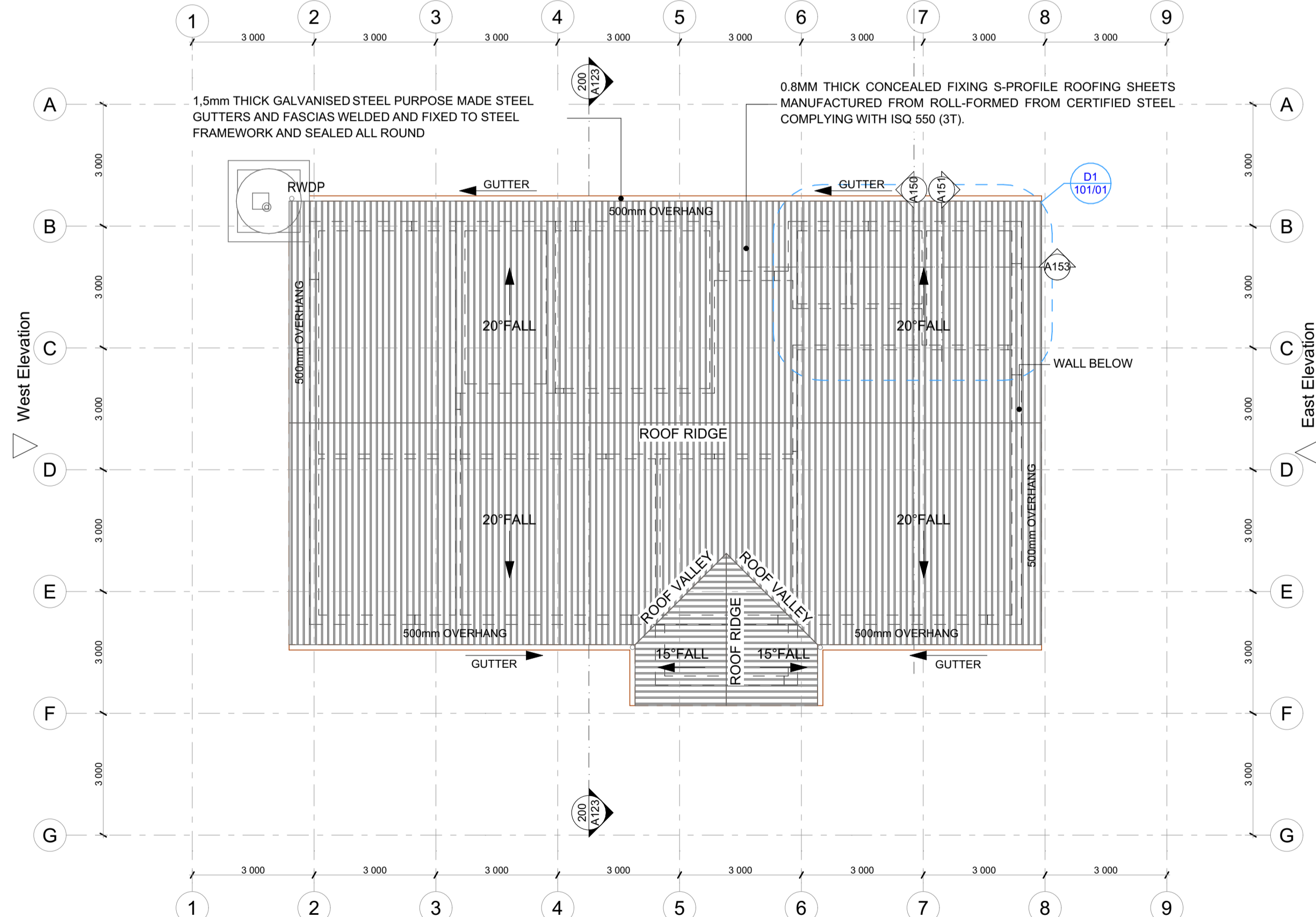
ROOF COVERING AND INSULATION:

- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
- Roofing Sheets:** 0.8mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (ST). The profile shall have three trapezoidal ribs at 200mm centres giving a total cover of 450mm. The rib height shall be 41mm and provide casibally breaks. The main ribs shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty "Aluminium stonafon" shall be installed AND 2, where the steel work is exposed, a 50mm "Tactoryboard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
- Galvanized Steel (GI) Gutters:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipes:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws To Manufacturer Installation Instructions.
- Fascia board:** 250 x 10 mm Fibre Cement Fascia/Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

CROSS SECTION
Scale 1: 50



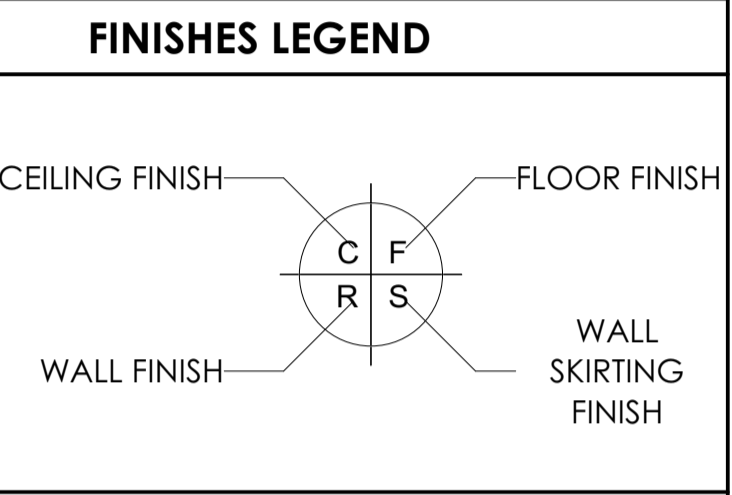
ROOF PLAN
Scale 1: 100



ISSUED FOR TENDER

- LEGEND**
- NEW WALLS
 - EXISTING WALL TO BE RETAINED
 - EXISTING WALL TO BE DEMOLISHED
 - NEW FIXTURES & FITTING TO BE INSTALLED
 - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
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DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

CONTRACT - SECTION

RESTORATIVES, REPAIRS & ADDITIONS

DISCIPLINE

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION

ROOF PLAN & SECTION

DRG No.	301-02	02/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING COORDINATED

TECTURA - INTERNATIONAL!

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME	
SIZE	PROJECT NUMBER	REV	
A1	LDPW - PROF/16002/E08	0	

FINISHES LEGEND

FLOORS:

F1: POLYURETHANE MAINT (CONFORMS RESISTANT & ANTI-SLIPPERY)

420 x 420 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.

F2: POLYURETHANE MAINT

600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle files where there is change of level. Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPETILES

500mm x 500mm, 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick concrete screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and 50 body test at less than 20% at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVING

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 / Latest Revision.

F6: GRANITIC FINISH

22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVING (EIGHT PAVING VEHICULAR WAYS)

220mm x 197mm x 60mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)

2.2mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO 9001 (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed grouted with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screed in strict compliance to manufacturer's instructions and SABS specification, with concave base and straight top. Complete with corner and top trim. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting covered at 20 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

W1: FACE BRICK

FBK face brick in common running bond to comply with SABS 227 and forming part of the structural work.

W2: EMULSION (PVA) PAINT - FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.

W3: ENAMEL (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.

W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

W5: CERAMIC WALL TILES - FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED

7mm GypCel Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gypcel RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber branding installed at maximum 300mm centres using Gypcel RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gypcel RhinoTape to all joints and skim the ceiling using Gypcel RhinoTape.

C2: FIBRE CEMENT BOARDS (H-JOINTE)

6mm thick GypCel Prestige 5 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gypcel RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing, non-combustible to SANS 10177-5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gypcel RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gypcel RhinoTape to all joints and skim the ceiling using Gypcel RhinoTape.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm x 15mm Gypcel Calceus Plus Prefinished or Fire Rated OR EQUAL & APPROVED laid into Dorn ceiling grid and secured into place using Dorn Hold Down Clips @ 200mm c/c. Dorn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Dorn 138 FR Main Tees @ 4mm thickness, 1150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Dorn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Dorn Hanger Strap 19mm suitably fixed to the building structural members. Dorn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend full length 1200 Cross Tees at their mid-point using Dorn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED

Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

R1: EMBOSSED ROOFING SHEET (TWO SIDES)

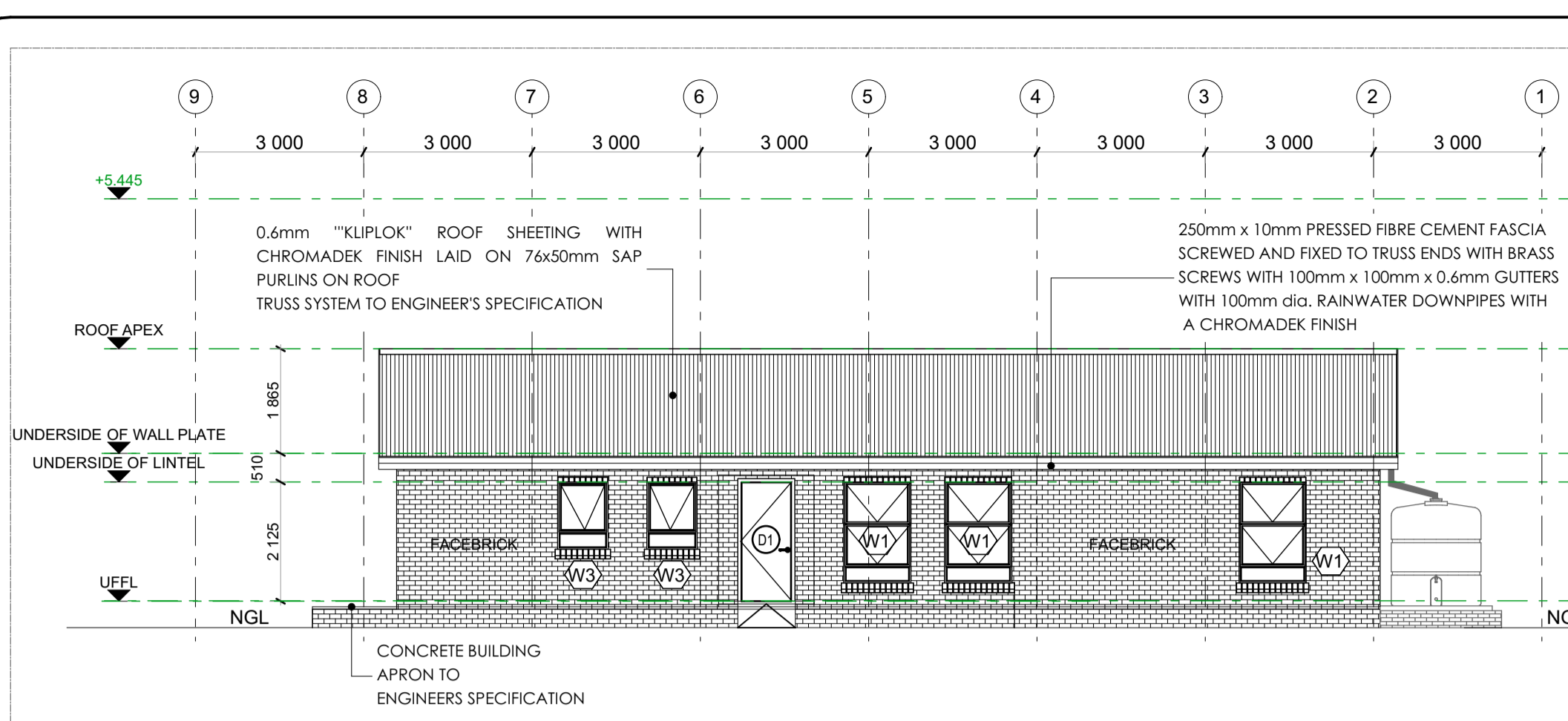
Roofing Sheets: 0.6mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 9001. The profile shall have three trapezoidal ribs at 200mm centres giving a total cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The male rib shall have gaps of 28mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1. where there are acoustic ceilings suspended above, a heavy duty Aluminium station foil shall be installed AND 2. where the steel work is exposed, a 50mm FactoryBoard[®] manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with metalized foil.

Galvanized Steel (GI) Gutters: 150mm Wide x 100mm Deep x 0.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

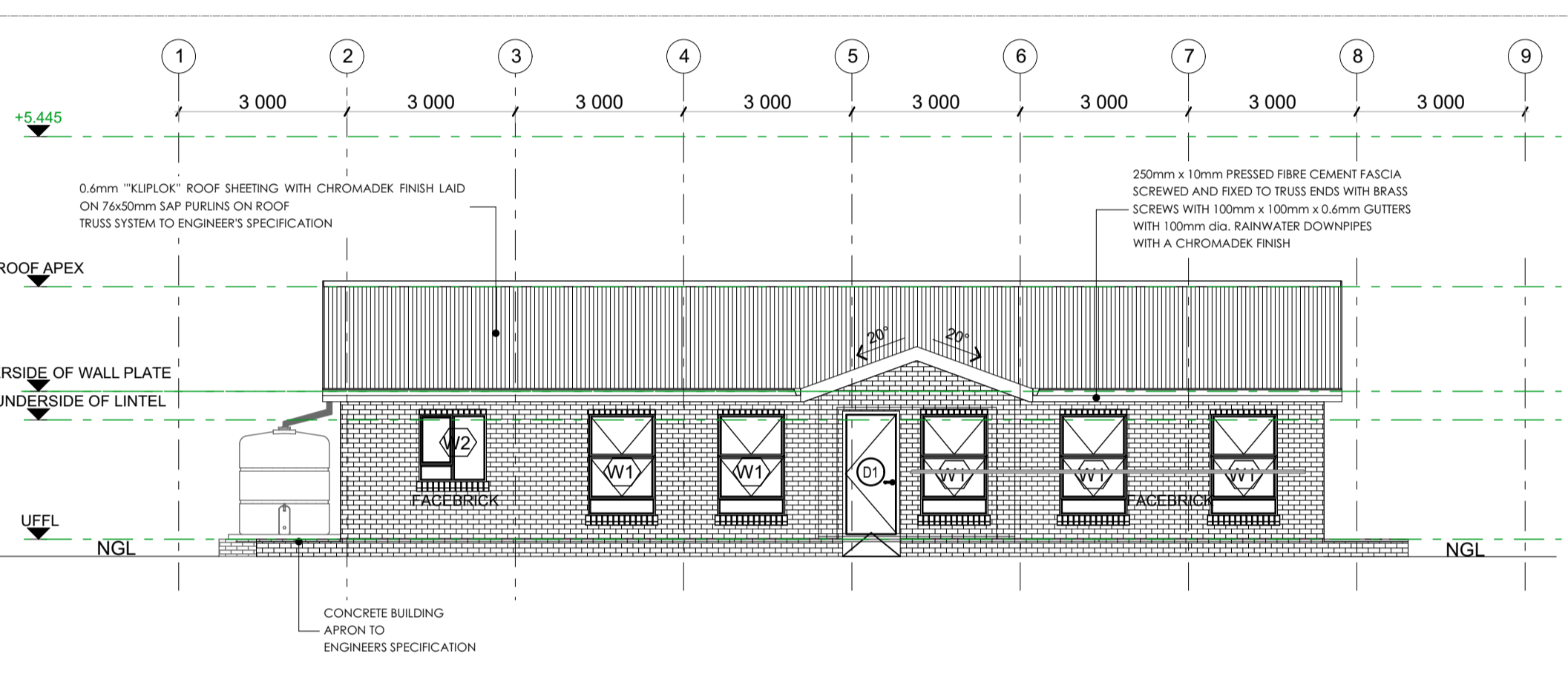
Downpipes: 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws to Manufacturer Installation instructions.

Fascia board: 250 x 10mm Fibre Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



REAR ELEVATION

Scale 1: 100

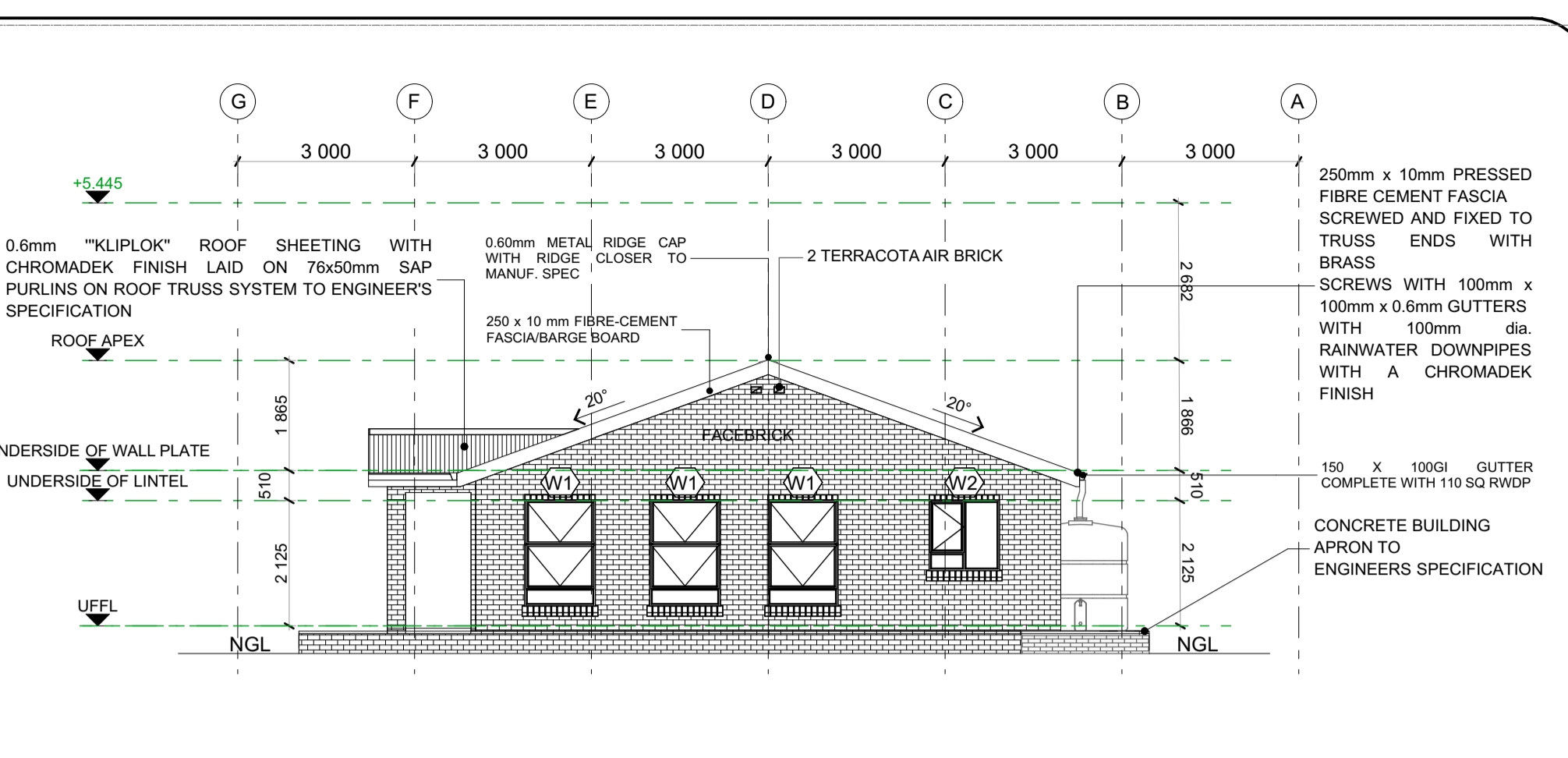


FRONT ELEVATION

Scale 1: 100

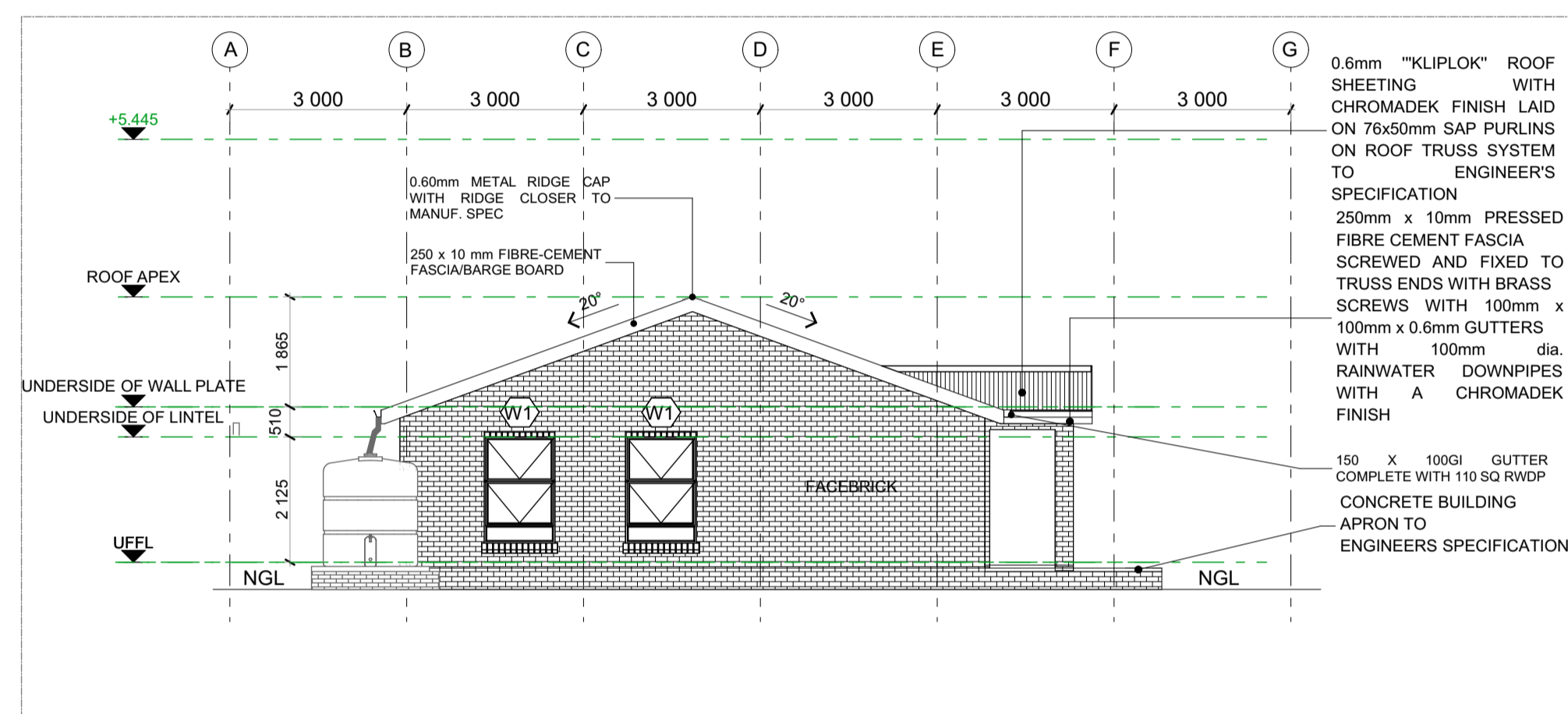
WINDOW SCHEDULE:

Window	Dimensions	No of Windows	GLAZING	FINISH COAT
W1	1200 x 1800	13 (THIRTEEN)	STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE418 ANODISED WITH BURGLAR-PROOFING OUT OF 10MM DIA SOLID ROUND-BARS. : 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME	CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.
W2	1200 x 1800	2 (TWO)	STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE47 COMPLETE WITH BURGLAR-PROOFING OUT OF 10mm DIA SOLID ROUND-BARS. : 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME	CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.
W3	1200 x 900	2 (TWO)	STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE47 COMPLETE WITH BURGLAR-PROOFING OUT OF 10mm DIA SOLID ROUND-BARS. : 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME	CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.



SIDE ELEVATION

Scale 1: 100



SIDE ELEVATION

Scale 1: 100

DOOR SCHEDULE:

Door	Dimensions	FRAME	DOOR	IRON-MONGERY	TYPE	No OF DOORS
D1	899 x 2118	EXTRUDED ALUMINIUM FRAME AS PER AAMSA SPECIFICATIONS ACCORDING TO DIMENSIONS 1015W x 2100H FINISH = NATURAL ANODISED ALUMINIUM.	15x2015mm EXTRUDED ALUMINIUM DOOR AS PER AAMSA SPECIFICATIONS ACCORDING TO DIMENSIONS 1015w x 2015h FINISH = NATURAL ANODISED ALUMINIUM. GLASS 6mm PVB FADEBAND LAMINATED SAFETY GLASS ACCORDING TO SABS SPECIFICATIONS.	LOCKSET - NARROW STYLE SABS APPROVED DOUBLE CYLINDER LOCKSET. DOORCLOSERS & FLOORSPRINGS - SABS APPROVED DOORCLOSERS & FLOOR-SPRING AS SUPPLY BY DORMA OR EQUAL APPROVED BARREL BOLT RECESSED AS SUPPLY BY UNION 100mm LENGTH. HANDLES DOUBLE SIDED - SATIN CHROME FINISH HANDLES ACCORDING TO ARCHITECT.	DOOR	1 (ONE)
D2	813 x 1916	SUPPLY COMPLETE WITH DOOR FOR 230mm BRICK WALL.	GLOSS ENAMEL PAINT ON STEEL FIREGUARD B.S.6 AS SUPPLIED BY ARCHITECT OR EQUAL APPROVED. GLOSS ENAMEL PAINT ON STEEL.	LEVER SECURITY KEY, 1/DOORSTOP AND 2 DOUBLE SIDED VENTS. ALL AS PER SUPPLIER. DOOR STOP AS BY DOOR SUPPLIER FOR SAFE DOOR.	DOOR	1 (ONE)
D3	813 x 1916	STANDARD MILD STEEL 813x2032x1.2mm SINGLE REBATE PRESSED METAL DOOR FRAME FOR 115mm WALLS FINISH WITH 1 COAT DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL COLOUR AS PER ARCHITECT.	813x2032mm SEMI-SOLID CORE DOOR FINISH WITH 1 COAT UNIVERSAL UNDERCOAT AND 2 COATS ACRYLIC P.V.A. COLOUR AS PER ARCHITECT.		DOOR	

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH

FLOOR FINISH

WALL FINISH

WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE: **ARCHITECTURAL**

WORK DESCRIPTION - SUB DIVISION: **4**

SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION: **ELEVATIONS DOOR & WINDOW SCHEDULES**

DRG. NO.	DATE	DESIGN	DATE	DESIGN	DATE	ITEM No.	DRAWN	CHECK
301-03	03/09	NA	03/09	CM				
AS SHOWN	SMTN							

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING COORDINATED

TECTURA - INTERNATIONAL!

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CONTRACTOR

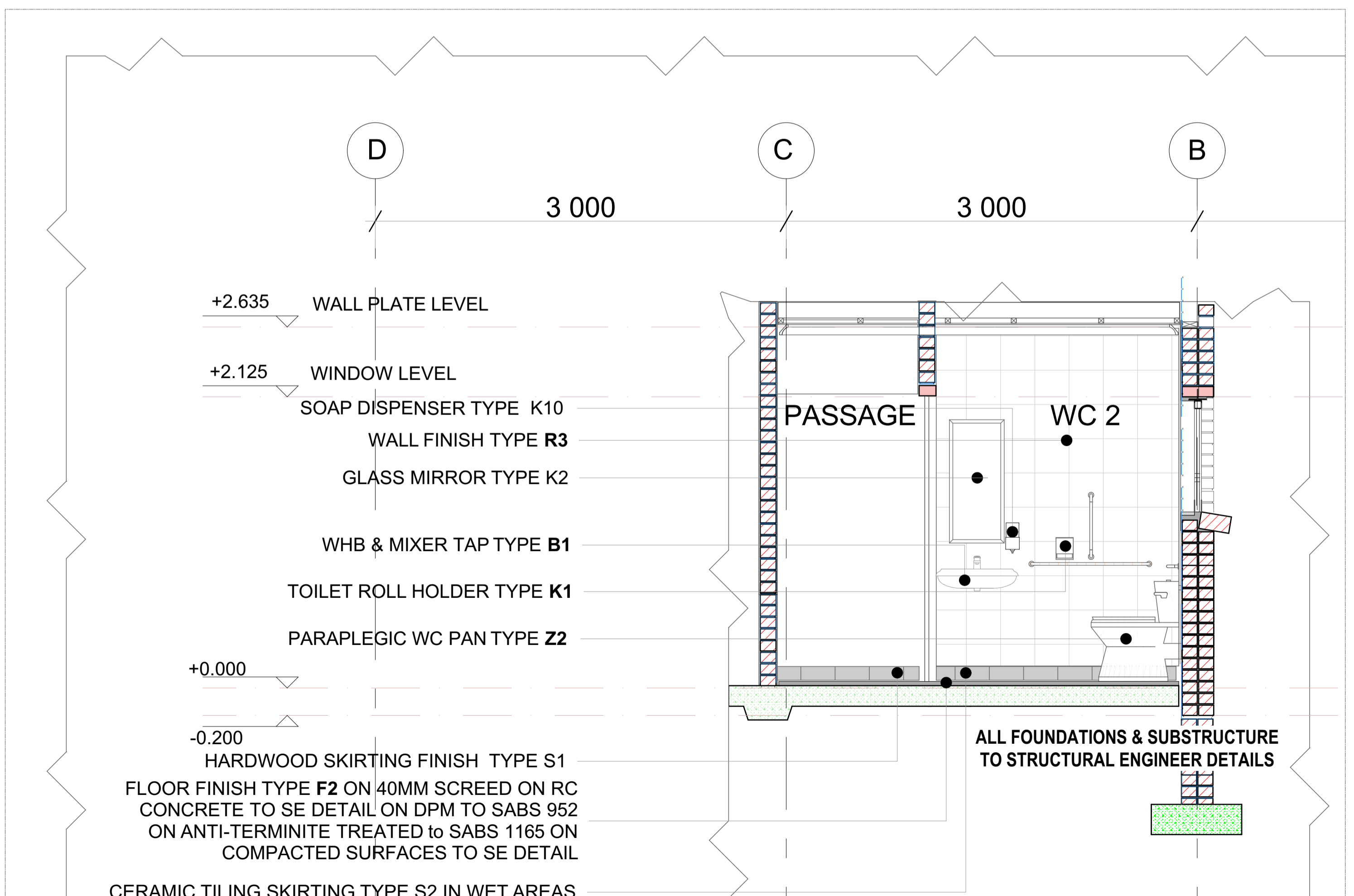
CAD SYSTEM	AUTOCAD	FILE NAME
SHEET	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

- FLOORS:**
F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)
400x400 11.5mm laminar floor tile or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
F2: PORCELAIN TILES - MATI
400 x 400 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle files where there is change of level and Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
F3: CARPETILES
500mm x 500mm, 100S PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4 (heavy duty)', laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 in fire rating, and DIN 54824 on wear test and 50 body feet at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.
F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.
F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
F6: GRANITIC FINISH
22 mm thick unglazed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 150mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or ID (anti-static) Protection Vinyl Sheet, Laid on Self Levelled, Smooth Screed grout with conductive adhesive to SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.
SKIRTING:
S1: HARDWOOD OR EQUAL AND APPROVED
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SABS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and thigh top. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.
S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 30 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.
WALL FINISHES:
R1: FACE BRICK
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
R2: EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
R3: ENAMEL PAINT
2 no. coats matt (egg shell) finish alkyl (zirconium) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
R4: GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
R5: CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest Revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.
CEILING AND CORNICE:
C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED
'Gyp-Cel Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTite.
C2: FIBRE CEMENT BOARDS (H-JOINTED)
4 mm thick GypCel Prestige 5 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTite.
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm x 15mm Gyproc Caloria (in Pre-finished or Fire Rated OR EQUAL & APPROVED) laid into Dorn ceiling grid and secured into place using Dorn Hold Down Clips @ 200mm c/c. Dorn Wall Angle M6 fixed to the perimeter wall using fixings @ 300mm centres. Dorn T38 Fire Main Tees @ 4mm thickness, 2150 gpa, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Dorn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Dorn Hanger Strap 19mm suitably fixed to the building structural members. Dorn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Dorn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Slab' 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab/stiff.
ROOF COVERING AND INSULATION:
F1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 1.50mm thick concealed fixing sheets manufactured from roll-formed from certified steel complying with ISO 9001. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide callousy breaks. The metal rib shall have gusset of 285mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled non-ferrous to be coated on both sides with 'Global Coat' or 'Chromalok Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1, where there are acoustic ceiling suspended board, a heavy duty 'Aluminium stator foil' shall be installed AND 2, where the steel work is exposed, a 50mm 'FocotryBoard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m3 and finished with white melitobated foil.
Galvanized Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.5mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.
Facia board: 250 x 110 mm Fibre Cement Facia/Barge Board, Screw Fixed To Tuss Ends & Counter Batten With Countersunk Brass Screws. Repairs & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

WET AREA DETAIL D5 101/05

Scale 1: 20



WET AREAS SECTION DETAIL A150

Scale 1: 20

SANITARY SCHEDULE

- WC'S URINALS & SHOWER**
Z1: CERAMIC STANDARD WC (CCL) CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostatic Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
Z2: CERAMIC PARALEGIC WC (CCL) CONCEALED CISTERN
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
Z3: CERAMIC PARALEGIC WC (CCL) CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostatic Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for paralegic access.
Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostatic (H.D. seat) and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hung bowl urinal to comply with SABS 497. Supplied with stainless 38mm CP domical grating, CP tap inlet spreader and two hanger brackets and fitted with exposed full-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
SHOWER
32mm Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glass Shower Cubicle with access door as per standard supply from manufacturer and fixed to tiled up space configuration
• Wheelchair shower arm with flange
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete pit with unexposed pitth face.
WASH-HAND BASIN
B1: WMB & MIXER TAP
'Jazz Sanitaryware' Vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and chairstay hole and fitted with:
• No. chrome plated tap with flanged bowl (code KM2 102) metering tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2 No chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged backout, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.
B3: WHITE GLAZED PORCELAIN WASH (VANITY)
Ceramic freesty size 450x350mm and self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with:
• No. chrome plated tap with flanged bowl (code KM2 102) metering tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.
B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 450x290mm wash basin to comply with SABS 497 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-hell plug with sprinle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
B5: HUNIDY BASIN & No. TAP (FOR LABS)
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and R5 hole plugged and fitted with: No. pillar tap, Chrome Plated anti-hell plug with sprinle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged backout, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
SINKS:
X1: STAINLESS STEEL SINK
Stainless steel 316L x 450mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
X2: STAINLESS STEEL SINK
Stainless steel 316L x 450mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, with chrome plated overflow swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
X3: CERAMIC SINK
Ceramic freesty size 465 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)
X4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS
600mm x 300mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP lab-taps - plain oriented and chrome plated, complete with sliding wall flanges. Inletted sink waste with back out, plug with strip, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFPL, Cut out size 535 x 425mm.
X5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS
1200 x 550 x 200mm Double wall hung washtrough manufactured from grade 304 (18/10) SS, radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no wall type lab-taps, with swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP, In-letted sink waste with back out and plug with strip, CP, Double drain black rubber deep seal 'P'-trap. Sink mounted on 2no. 30mm square SS galvaz. brackets, front leg and adjustable foot piece of height of 915mm AFPL.
SANITARY ACCESSORIES
K1: SS TOILET ROLL HOLDER - 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x600mm height with polished bevelled edges 4 times holder and fixed, with chromium plated dome-headed mirror screws.
K3: SS WASTE BIN
200mm x 650mm x 200mm Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Peda Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
K6: WALL GRAB RAILS-PARALEGIC
Stainless steel 91.4 x 90 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
K7: PAPER TOWEL DISPENSER
300mmx300mmx200mm Paper and dry paper towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
K8: SOAP DISPENSER, DISH- WALL MOUNTED
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
K9: ALUMINIUM COAT HOOKS (MULTI-TRACK)
600mm wide x 220mm high x 190mm deep Aluminium Multi-track Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws
K10: HAND DRYER (Hands free)
As per Electrical Engineers specification
K11: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
K12: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.
GENERAL FIXTURES
G1: DOOR PROTECTOR
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to full door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.
G2: PROTECTOR SCREEN
Full door PVC screen size 2440 x 1850mm (viewing area 2240 x 1750mm) with wall-mounted code SC4000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict compliance with manufactures instructions.
G3: PINBOARD 1500W X 1000H
Pinboard size 1500mm H x 1000mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
G4: PINBOARD 300W X 1200H
Pinboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
G5: WINDOW NORMAL BUNDS (vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear made a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.
G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
G7: SS FLOOR EXPANSION JOINT COVER
Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
G8: CHALKBOARDS - GREEN SURFACE COLOUR
Vitreous system 1200 standard WHITEBOARD OR EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 36/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitreous Colour Reference - Chalk Board Green LM197/2), featuring complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH: C F S
FLOOR FINISH: F
WALL FINISH: W
WALL SKIRTING FINISH: S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	FIRST ISSUE FOR TENDER	DESCRIPTION
A	JUL 21		

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE: ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION: PARALEGIC WET AREAS DETAIL

DRG No.	301-05	05/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK

DATE RESPONSIBLE PROFESSIONAL PR. NUMBER

NOV 2019	T. MANYAZA	PrArch	43981757
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DRAWING CO-ORDINATED

TECTURA - INTERNATIONAL!

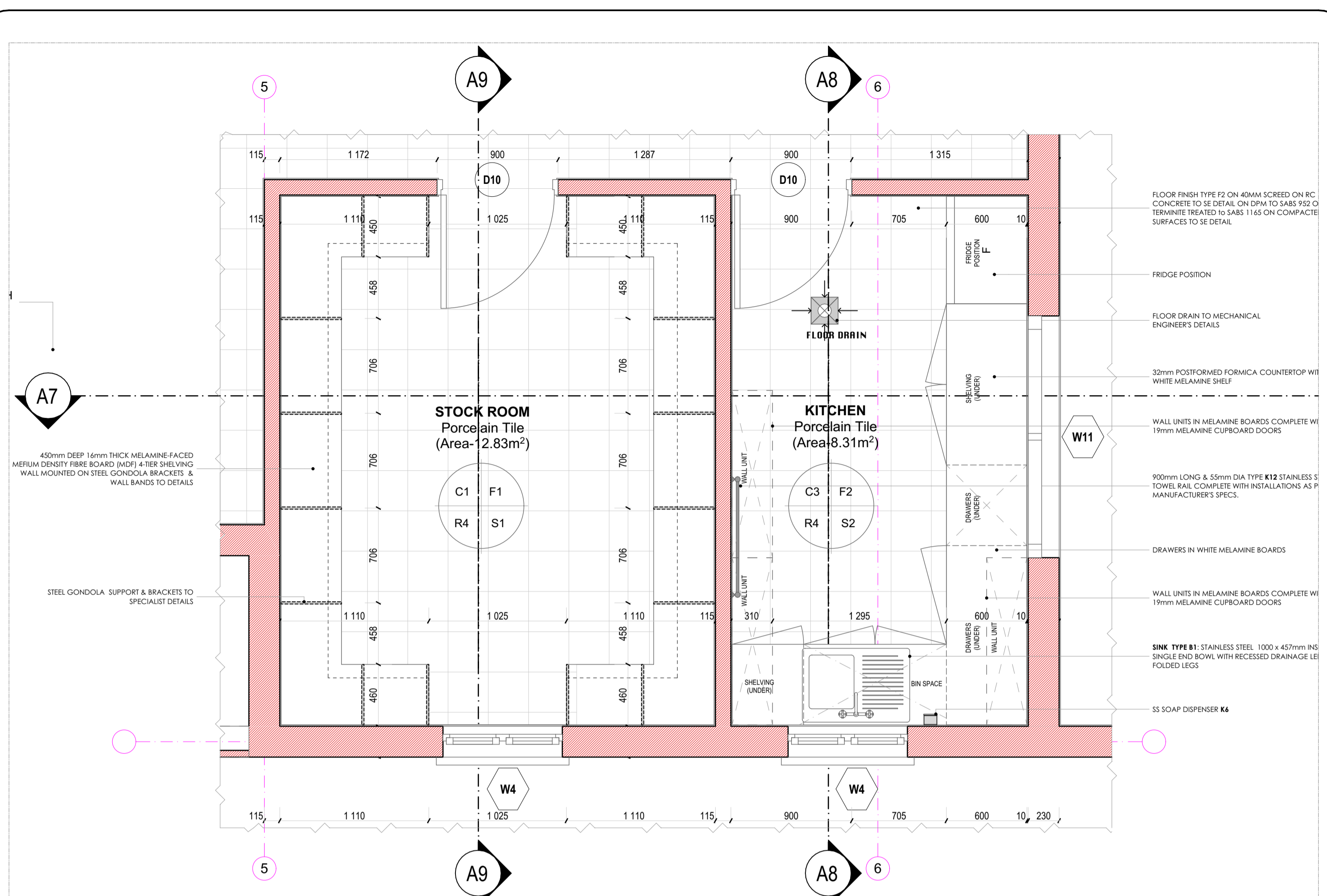
ALSO IN NAMIBI, KENYA AND GAMBIA, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

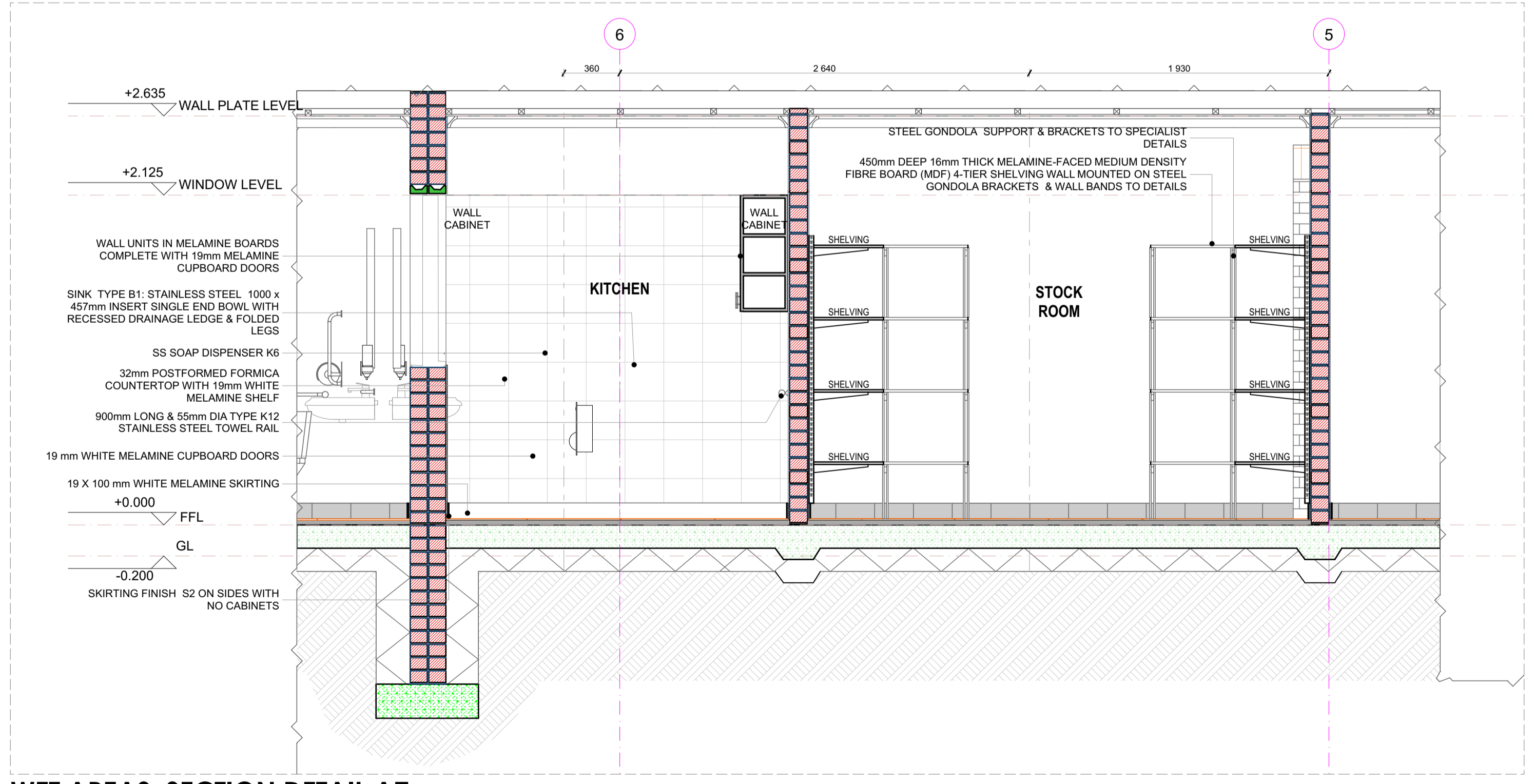
FINISHES LEGEND

- FLOORS:**
F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)
400 x 400 x 10mm laminar floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
F2: PORCELAIN TILES - MATI
400 x 400 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Filings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
F3: CARPETILES
500mm x 500mm x 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4' heavy duty, laid with approved adhesive on 30mm thick concrete screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and ISO body test at less than 20% at 25% RH on static electricity. Colour and pattern to architects approval.
F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.
F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVES
65mm thick multi-coloured concrete paves laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
F6: GRANITIC FINISH
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
F7: INTERLOCKING PAVES (RIGID PAVING/VEHICULAR WAYS)
200mm x 150mm x 50 mm thick concrete interlocking paves, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or ISO (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled, Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specification With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.
SKIRTING:
S1: HARDWOOD OR EQUAL AND APPROVED
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs of centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding, the skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and thigh top. Complete with corner and top trims. Filings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.
S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.
WALL FINISHES:
R1: FACE BRICK
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
R2: EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade, in accordance to manufacturer's instructions.
R3: ENAMEL PAINT
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no. coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade, in accordance to manufacturer's instructions.
R4: GLAZED CERAMIC WALL TILES - ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
R5: CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tile to Comply with SABS 22 or Latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standard.
CEILING AND CORNICE:
C1: 7mm GYPSUM BOARDS FINISH FLASHERD CEILING OR EQUAL AND APPROVED
'OpacCell Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing fixed to timber branding installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GyprocCell Prestige S7 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing non-combustible to SANS 10173:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm x 15mm Gyproc Celotex (Pre-Flashed or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4, fixed to the perimeter wall using fixings of 300mm centres. Donn TR 138 Fan Tiles @ 4mm thickness, 1150 gsm, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn TB3V (1200 long) Cross Tees at 600 centres. Supports main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Sto' 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab stiff.
ROOF COVERING AND INSULATION:
R61: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 1.50mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (G1). The profile shall have three trapezoidal ribs at 200mm center giving a net cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The male rib shall have gaps of 285mm centers to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with 'Global Coat' or 'Chromalox Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and dove clips in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1, where there are acoustic ceiling suspended board, a heavy duty 'Aluminium' insulation foil shall be installed AND 2, where the steel work is exposed, a 50mm 'Focoboard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanized Steel Gullies (Gullies)
150mm Wide x 100mm Deep x 0.6mm Eaves Gullies of Commercial Grade Steel With Class Z275 Galvanizing to Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipes: 110 x 110 x 10.0mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing to Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation Instructions.
Facia board: 250 x 110 mm Fibre Cement Facia/Barge Board, Screw Fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Repairs & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



WET AREAS PLAN DETAIL D03

Scale 1: 25



WET AREAS SECTION DETAIL A7

Scale 1: 25

STEEL SHELVING table with columns: TYPE, LOCATION, DESCRIPTION/SPECIFICATION. Includes details for Melamine-faced MDF shelving in the Stock Room.

SANITARY SCHEDULE

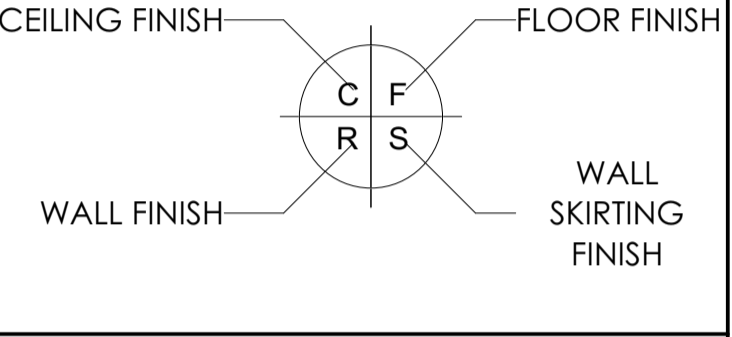
- WC'S URINALS & SHOWER**
W1: CERAMIC STANDARD WC (C/C) CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 487 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
W2: CERAMIC PARALEGIC WC
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 487. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
W3: CERAMIC PARALEGIC WC (C/C) CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 487 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for paralegic access.
W4: CERAMIC STANDARD WC (C/C) INLET
Vitreous china 90° outlet, back inlet pan to comply with SABS 487. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
W5: CERAMIC STANDARD WC (C/C)
Vitreous china 90° outlet, back inlet pan to comply with SABS 487. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat (G. seat) and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
W6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hung bowl urinal to comply with SABS 487. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
SHOWER
2no. Thick Enameled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm GRP graded waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glass Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Wheelchair shower arm with wall flange
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to recessed 50 mm deep x 100mm high concrete pit with well exposed pitth face.
WASH-HAND BASIN
B1: WMR & MISCER TAP
'Jazz Sanitaryware' Vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVED basin to comply with SABS 487 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 'No. Cobro WaterTech' 15mm chrome pushbutton demand pillar tap with flanged bracket (code KM2102) metering tap, 30-32 CP anti-fllt plug with spindle. 308 brass wall-walls 345x45 CP bottle trap, mounting kit and angle valves.
B2: DESAILED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 487, in two tap hole configuration fitted with 2 No. chrome plated Elbow action pillar tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic freesty size 450x350mm oval self-rimming vanity basin to comply with SABS 487 in one tap hole configuration supplied without overflow and fitted with: No. chrome plated tap with flanged bracket (code KM2102) metering tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.
B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 450x300mm wash basin to comply with SABS 487 in 2-tap hole configuration supplied with integrated overflow and chairstay hole with 2no. pillar tap, chrome plated anti-fllt plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
B5: HUNTY BASIN & No. TAP (FOR LABS)
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 487 and R16 hole plugged and fitted with: No. pillar tap, Chrome Plated anti-fllt plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2no. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
B6: MEDIC BASIN & FITTINGS (SICK BAY)
Ceramic fire clay 510 x 400mm semi rounded lavatory basin to comply with SABS 487, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2
- Paper towel dispenser K8 and bin type K3
- Soap dispenser type K7
- Soapback comprising 2no. rows of wall tie finish type B5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
SINKS:
K1: STAINLESS STEEL SINK
Stainless steel 300 x 450 mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
K2: STAINLESS STEEL SINK
Stainless steel 300 x 450 mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, with chrome plated overflow swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
K3: CERAMIC SINK
Ceramic freesty size 485 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)
K4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS
600mm x 300mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP tap/water tap, anti-fllt plug with spindle plug, slotted basin waste and adjustable connector. CP In-stalled sink waste with back nut and plug with stop, CP, P trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFPL. Cut out size 553 x 425mm.
K5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS
1200 x 553 x 200mm Double wall hung washtrough manufactured from grade 304 (18/10) SS, rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. wall type tap/water tap, anti-fllt plug with spindle plug, slotted basin waste and adjustable connector. CP In-stalled sink waste with back nut and plug with stop, CP. Double drain back rubber deep seal P-trap. Sink mounted on 2no. 30mm square SS galvazn brackets, front leg and adjustable foot piece of height of 915mm AFPL.
SANITARY ACCESSORIES
K1: SS TOILET ROLL HOLDER - 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
K2: GLASS MIRROR
6mm Thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holer and fixed, with chromium plated domed headed mirror screws.
K3: SS WASTE BIN
200 x 650 x 2100 Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
K6: WALL GRAB RAILS-PARALEGIC
Stainless steel 91.4 x 91 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
K7: GRAB RAILS (RIGHT/LEFT HAND)-PARALEGIC
Stainless steel 101.6 x 91 x 32mm diameter (right/left) hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
K8: PAPER TOWEL DISPENSER
350mmx160mmx200mm) Paper and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
K9: SOAP DISPENSER, DISH- WALL MOUNTED
115W x 270H x 110D Stainless Steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
K10: ALUMINIUM COAT HOOK (Multi-track)
500mm x 220mm x 19mm top Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws
K11: HAND DRYER (Hands free)
As per Electrical Engineers specification
K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.
GENERAL FIXTURES
G1: DOOR PROTECTOR
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.
G2: PROTECTOR SCREEN
Full cover (Screen Size: 3440 x 1850mm (viewing area 2240 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturer's instructions.
G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
G4: PINBOARD 900W X 1200H
Pinboard size 1200mm H x 900mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
G5: WINDOW NORMAL BUNDS (vertical blinds)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear ratio a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed tie fixing brackets.
G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
G7: SS FLOOR EXPANSION JOINT COVER
Concealed heavy-duty stainless steel movement joint, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
G8: CHALKBOARDS - GREEN SURFACE COLOUR
Vitrea system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enameled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 362004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitreux Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

ISSUED FOR TENDER

- LEGEND**
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE table with columns: DISCIPLINE, CLIENT, SIGN, DATE. Includes fields for Plan Examiner, Fire Control, Environmental, Roads / Stormwater, Water & Sanitation.

REVISIONS table with columns: REV. NO., DATE, DESCRIPTION.

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA. DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

Table with columns: DISCIPLINE, ARCHITECTURAL, WORK DESCRIPTION - SUB DIVISION, SMALL ADMINISTRATION BLOCK.

WET AREAS & JOINERY DETAIL D03-01

Table with columns: DRG No., DESIGN, DATE, AS SHOWN, 301-06, NA, 06/09, CM, 06/09, SMTN, 06/09, PR. NUMBER, P/ARCH, 43981757, CHECK.

Table with columns: DATE, RESPONSIBLE PROFESSIONAL, NAME, SIGN, PR. NUMBER. Includes signature of T. MANTAZA.

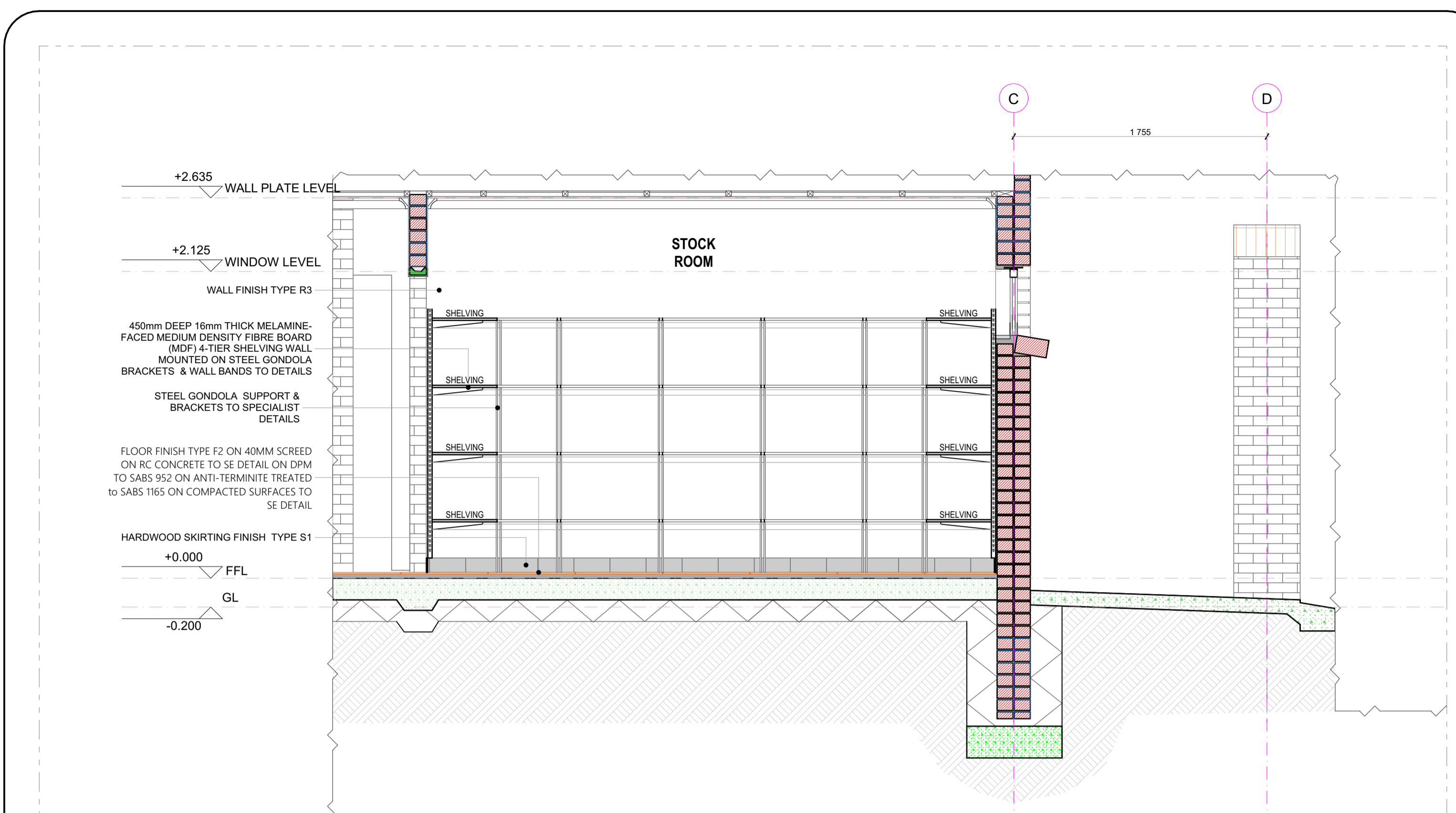
TECTURA - INTERNATIONAL! Logo and contact information for various offices including Johannesburg, Durban, and Cape Town.

CONTRACTOR

Table with columns: CAD SYSTEM, AUTOCAD, PROJECT NUMBER, LDPW - PROF/16002/E08, FREE, REV, DATE, 0.

FINISHES LEGEND

- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**
450x450 15mm kiln-fired floor tile or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**
450 x 450 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include: ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**
500mm x 500mm x 1005 PFK staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and SO body test at less than 20x at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 (Latest Revision).
- F6: GRANOLITHIC FINISH**
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 193mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.
- F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or ID (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and straight top. Complete with corner and top trims. Fittings to include: ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance with SABS 1083 or latest revision.
- WALL FINISHES:**
- R1: FACE BRICK**
FBK face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- R2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
- R3: ALKOYL (ENAMEL) PAINT**
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
- R4: GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)**
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- R5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest Revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.
- CEILING AND CORNICE:**
- C1: 7mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Celotex (or Prefabbed or Fire Insulated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn TR3 Mesh Ties @14mm thickness, 2150 g/m² coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn SBV (1200 long) Cross Tees at 600 centres. Suspend main ties @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend end full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffits.
- ROOF COVERING AND INSULATION:**
- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
Roofing Sheets: 0.38mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 530 (R). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide caulking breaks. The male rib shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roofbeams to be coated on both sides with "Global Coat" or "Chromalok Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty "Aluminium station foil" shall be installed AND 2, where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white meltable foil.
- Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Even Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.
- Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board. Screw Fixed to Tuss Ends & Counter Butts With Countersunk Brass Screws. Repairs & Apply One Universal Undercoat & Two Coats Super Acrylic F.P.V.A.

**JOINERY SECTION DETAIL A9**

Scale 1: 25

STEEL SHELVING		
TYPE	LOCATION	DESCRIPTION/SPECIFICATION
MELAMINE FACED MDF SHELVING D450mm	STOCK ROOM	450mm deep 16mm thick Melamine-faced Medium Density Fibre board (MDF) 4-tier shelving wallmounted on steel gondola brackets and wall bands, comprising of: * Shelf boards comprising of plain "Supawood" MDF faced with melamine impregnated paper, in architect approved finish. Vertical spacing for each tier 450mm. * Medium steel wall band double slotted 1825mm in 'Ivory Epoxy' finish, at 900mm spacing. * Wall gondola brackets 450mm (as applicable), in 'Ivory Epoxy' finish.

SANITARY SCHEDULE

- WC'S URINALS & SHOWER**
- U1: CERAMIC STANDARD WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermostat Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
- U2: CERAMIC PARAPLEGIC WC**
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- U3: CERAMIC PARAPLEGIC WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermostat Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. blank flush plate & offset push button for paraplegic access.
- U4: CERAMIC STANDARD WC (BACK INLET)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- U5: CERAMIC STANDARD WC (CC)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat, 1/3 seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
- U6: CERAMIC WALL HUNG URINAL**
Vitreous china size 415x315x275 mm wall hung bowl urinal to comply with SABS 497. Supplied with suitable 38mm CP domical grating, CP tap inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
- SU: SHOWER**
30mm Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP graded waste fitting in corner position fitted with Shower set and complying with SABS 22a comprising of approved:
 * Glass/Shower Cubicle with access door as per standard supply from manufacturer and tied to 18 space configuration
 * Wheelchair shower arm with wall flange.
 * Chrome Plated Shower Head with ball jointed connector
 * Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete pit with exposed pitth face.
- WASH-HAND BASIN**
- B1: WMR & MIXER TAP**
"Fast Sanitaryware" Vitreous china size 565 x 415mm rounded "Tuscany" OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a "Tuscany" pedestal and fitted with 1No. "Cobra WaterTech" 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2102) metering tap, 309-32 CP anti-hell plug with spindle. 308 basin-walls 45mm CP bottle trap, mounting kit and angle valves.
- B2: DISABLED BASIN**
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2 No. chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
- B3: WHITE GLAZED PORCELAIN WHB (VANTO)**
Ceramic freesty size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: No. chrome plated tap with flanged backnut (code KM2102) metering tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.
- B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)**
Vitreous china size 450x290mm wash basin to comply with SABS 497 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-hell plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
- B5: HUNTERY BASIN & No. TAP (FOR LABS)**
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and R15 hole plugged and fitted with 1No. pillar tap, Chrome Plated anti-hell plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
- B6: MEDIC BASIN & FITTINGS (SICK BAY)**
Ceramic china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:
 * Mixer type K2
 * Paper towel dispenser KB and bin type K3.
 * Soap dispenser type K5.
 * Sabotback comprising 2No. rows of wall tile finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
- SINKS:**
- K1: STAINLESS STEEL SINK**
Stainless steel 304 1450mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFRL.
- K2: STAINLESS STEEL SINK**
Stainless steel 304 1450mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved sink mixer-wall type, with chrome plated oversize swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFRL.
- K3: CERAMIC SINK**
Ceramic freesty 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)
- K4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS**
600mm x 300mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP tap/straps - plain extended chrome plated, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with strap, chain and stay. CP, P, Trip, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFRL, Cut out size 535 x 425mm.
- K5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS**
1200 x 553 x 200mm Double bowl hung washub manufactured from grade 304 (18/10) SS, rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No wall type tap/straps, with level Outlet, adjustable wall flange and exposed adjustable connections. CP, Un-slotted sink waste with back nut and plug with strap. CP, Double drain black rubber deep seal P-Trip. Sink mounted on 2No. 30mm square SS galvaz brackets, front leg and adjustable foot piece at height of 915mm AFRL.
- SANITARY ACCESSORIES**
- K1: SS TOILET ROLL HOLDER- 2 ROLL**
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin Finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
- K2: GLASS MIRROR**
6mm Thick clear float glass silver-backed mirror, size 450x600mm height with polished bevelled edges 4 times bevel and fixed, with chromium plated dome-headed mirror screws.
- K3: SS WASTE BIN**
200mm x 65mm x 200mm Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness: 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
- K4: SANITARY BIN (PLASTIC)**
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K5: SOAP HOLDER**
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K6: WALL GRAB RAILS-PARAPLEGIC**
Stainless steel 914 x 90 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC**
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K8: PAPER TOWEL DISPENSER**
350mmx160mmx200mm) Paper and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K9: SOAP DISPENSER, DISH- WALL MOUNTED**
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K10: ALUMINIUM COAT HOOKS (MULTI-COOL)**
500mm Wide x 220mm High x 19mm Top Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws
- K11: HAND DRYER (Hands free)**
As per Electrical Engineers specification
- K12: TOWEL RAIL**
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
- K13: SHOWER CURTAIN RAIL (straight)**
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.
- GENERAL FIXTURES**
- G1: DOOR PROTECTOR**
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FL, or as specified.
- G2: PROTECTOR SCREEN**
Full door PVC screen size 2440 x 1850mm (viewing area 2240 x 1750mm) with wall-mounted code SC4000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.
- G3: FINBOARD 1500W X 1000H**
Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G4: FINBOARD 300W X 1200H**
Finboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G5: WINDOW NORMAL BUNDS (vertical fabric)**
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.
- G6: FLOOR DRAIN**
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
- G7: SS FLOOR EXPANSION JOINT COVER**
Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey), to be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
- G8: CHALKBOARDS- GREEN SURFACE COLOUR**
Vitex system 1000 standard WHITEBOARD & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 36/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and freely structured, olive green in colour (Vitex Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

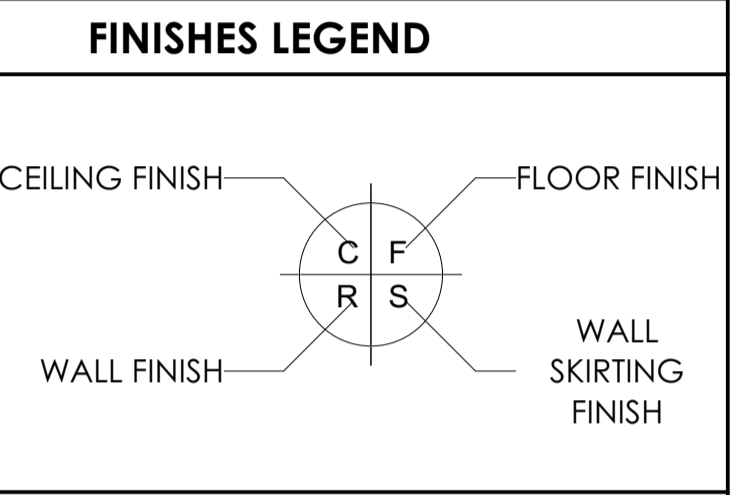
ISSUED FOR TENDER

- LEGEND**
- NEW WALLS
 - EXISTING WALL TO BE RETAINED
 - EXISTING WALL TO BE DEMOLISHED
 - NEW FIXTURES & FITTING TO BE INSTALLED
 - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE: ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION: JOINERY DETAILS D03-02

DRG No.	301-07	07/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	MTN	CHECK
NOV 2019	T. MANYAZZA		Pr/Arch 43981757

DRAWING CO-ORDINATED

TECTURA - INTERNATIONAL!

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

www.ecturaal.com

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

FLOORS:

F1. PORCELAIN TILES - MATI (CORROSION RESISTANT & ANTI-SLIPPER)
420 x 420 11.5mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

F2. PORCELAIN TILES - MATI
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With thickness/specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3. CARPETILES
500mm x 500mm . 1005 PFK staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54224 on wear test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.

F4. CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5. EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6. GRANULITIC FINISH
22mm thick unadorned Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7. INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8. SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPER)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (Anti-Static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9. GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1. HARDWOOD OR EQUAL AND APPROVED
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099 fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2. CERAMIC TILE SKIRTING
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with concave base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3. CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1. FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2. EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.

R3. ENAMEL (ENAMEL) PAINT
2 no. coats matt (egg shell) finish (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.

R4. GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5. CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standards.

CEILING AND CORNICE:

C1. 9mm GYPSUM BOARDS FINISH PLASTERED CEILING OR EQUAL AND APPROVED
GypCel Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

C2. FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

C3. PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm x 15mm Gyproc Calceus (Pre-finished or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings of 300mm centres. Donn 138 FR Main Tees @ 40mm thickness, 1150 gwg, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4. EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

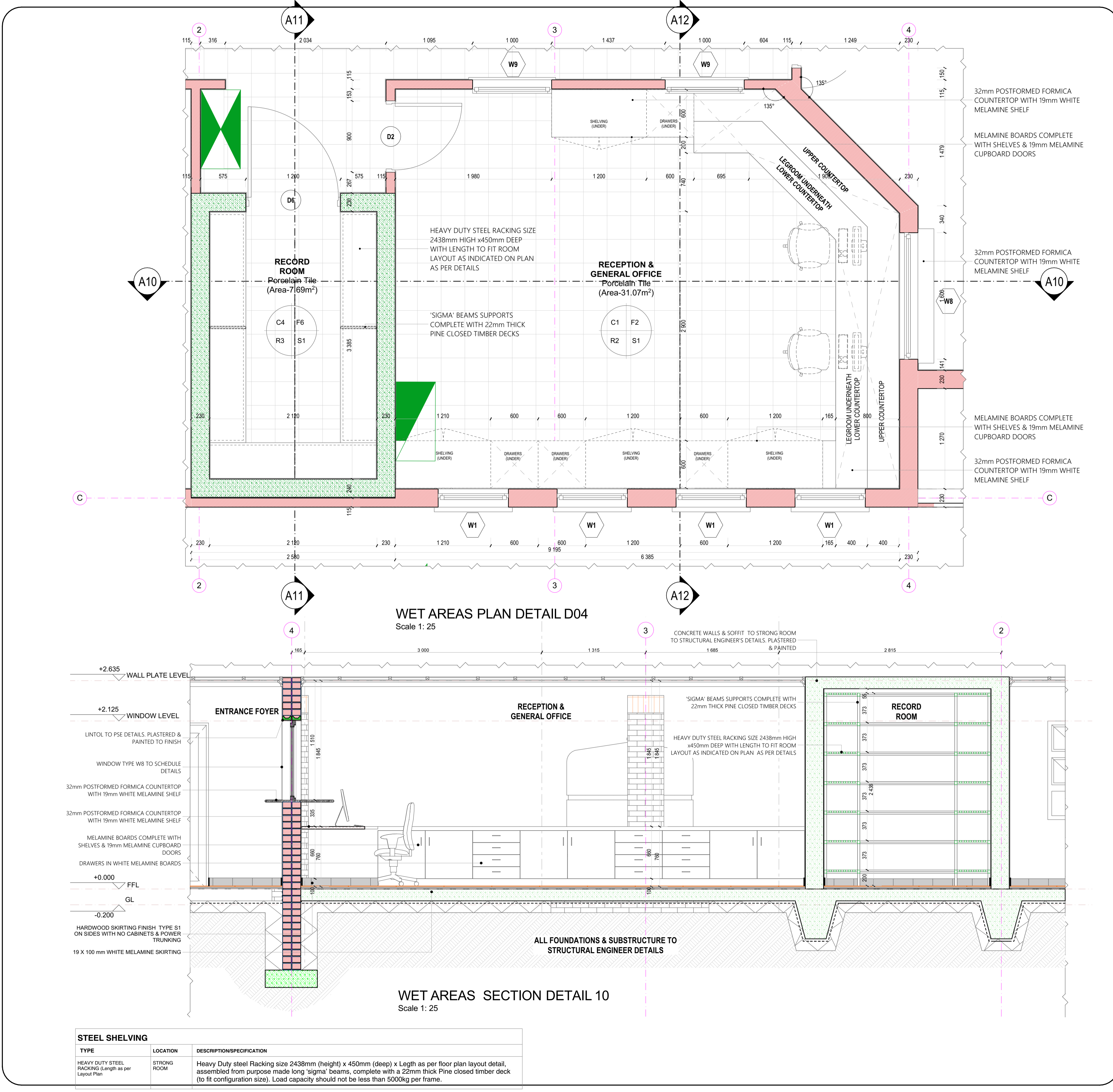
R1. EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 1.58mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel conforming with ISO 580 (ET). The profile shall have three trapezoidal ribs of 20mm spacing giving a total cover of 456mm. The rib height shall be 41mm and provide cavity breaks. The main ribs shall have gaps of 28mm centres to ensure a positive double interlocking action of side-laps. Each span shall incorporate two stiffener ribs. Profiled rooflights to be coated on both sides with 'Global Coat' or 'Chromalok Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closes in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1. where there are acoustic ceilings suspended board, a heavy duty 'Aluminium stonafon' foil shall be installed AND 2. where the steel work is exposed, a 50mm 'FactoryBoard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with metalized foil.

Galvanized Steel (GI) Gutter: 150mm wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws to Manufacturer Installation Instructions.

Facia board: 250 x 10 mm Fibre Cement Facia/Barge Board. Screw fixed to Tuss Ends & Corner Butten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



STEEL SHELVING		
TYPE	LOCATION	DESCRIPTION/SPECIFICATION
HEAVY DUTY STEEL RACKING (Length as per Layout Plan)	STRONG ROOM	Heavy Duty steel Racking size 2438mm (height) x 450mm (deep) x Legth as per floor plan layout detail, assembled from purpose made long 'sigma' beams, complete with a 22mm thick Pine closed timber deck (to fit configuration size). Load capacity should not be less than 500kg per frame.

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

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FINISHES LEGEND

CEILING FINISH: C, F, R, S
FLOOR FINISH: F
WALL FINISH: W, S
WALL SKIRTING FINISH: S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS / STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

SMALL ADMINISTRATION BLOCK

JOINERY DETAILS D04-01

DRG No.	301-08	08/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	SMTN	CHECK
NOV 2019	T. MANYADZA		PrArch 43981757

TECTURA - INTERNATIONAL!

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/E08	0

FINISHES LEGEND

FLOORS:

F1- PORCELAIN TILES - MATI (Conservative Resistant & Anti-Slippery)
450x450 11.5mm kiln-fired floor tile or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.

F2- PORCELAIN TILES - MATI
450 x 450x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Filings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3- CARPETILES
500mm x 500mm x 1005 PFK staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and 500 body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.

F4- CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

F5- EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete paver laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and graded in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6- GRANITIC FINISH
22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7- INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 150mm x 50 mm thick concrete interlocking pavers, 25 nps, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8- SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Conservative Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or ISO (anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, CONDUCT TO ARCHITECT APPROVAL ON SAMPLE PRESENTATION. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Conservative resistant & Anti-Slippery.

F9- GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1- HARDWOOD OR EQUAL AND APPROVED
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm, and fixed with 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2- CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cone base and straight top. Complete with corner and top trims. Filings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

S3- CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1- FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2- EMULSION (PVA) PAINT - FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade, in accordance to manufacturer's instructions.

R3- ENAMEL PAINT
2 no. coats matt (egg shell) finish alkyl (zirconium) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade, in accordance to manufacturer's instructions.

R4- GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5- CERAMIC WALL TILES - FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1- 7mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"TopCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

C2- FIBRE CEMENT BOARDS (H-JOINTED)
4mm thick Gyproc Cel Prestige 5 fibre cement ceiling boards OR EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

C3- PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm x 15mm Gyproc Celotex (Pre-Plastered or Fire Rated) OR EQUAL & APPROVED laid into Dorn ceiling grid and secured into place using Dorn Hold Down Clips @ 200mm c/c. Dorn Wall Angle M4 fixed to the perimeter wall using fixings @ 300mm centres. Dorn 138 FR Main Tees @ 4mm thickness, 2150 gwg, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Dorn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Dorn Hanger Strap 19mm suitably fixed to the building structural members. Dorn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Dorn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4- EMULSION (PVA) PAINT OR EQUAL AND APPROVED
Emulsion (PVA) Paint on Skimmed Plastered Stud 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

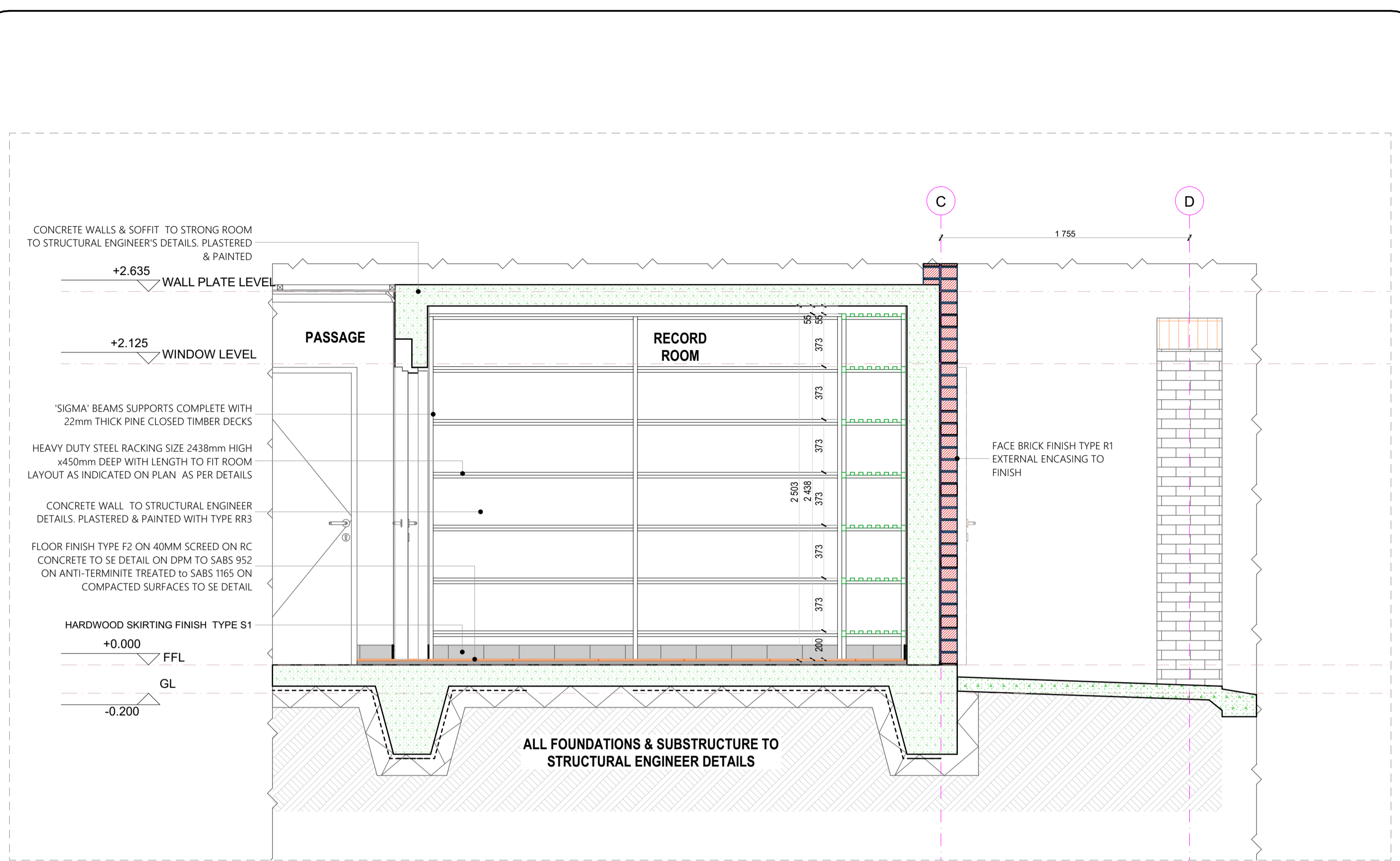
R6-1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 1.5mm thick concealed fixing sheets manufactured from roll-formed from certified steel complying with ISO 550:07. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide callousy breaks. The metal rib shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromalok Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty 'Aluminium station foil' shall be installed AND 2, where the steel work is exposed, a 50mm 'TactylonBoard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied at 2400mm x 1200mm and 80kg/m³ and finished with white melafol foil.

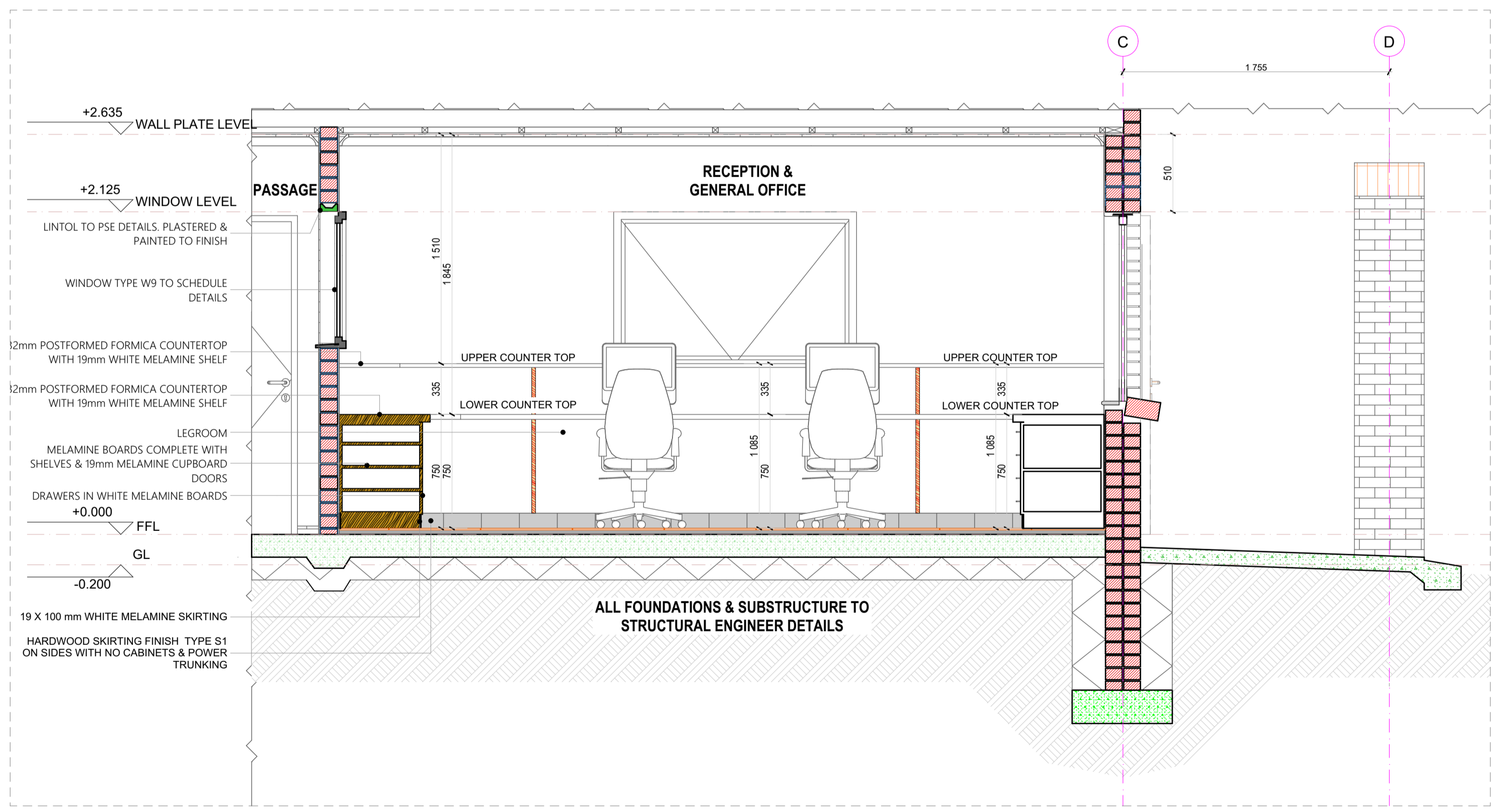
Galvanized Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing to Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing to Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws to Manufacturer installation instructions.

Facia board: 250 x 110 mm Fibre Cement Facia/Barge Board. Screw Fixed to Tuss Ends & Corner Butters With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



JOINERY SECTION DETAIL 11
Scale 1: 25



JOINERY SECTION DETAIL 12
Scale 1: 25

TYPE	LOCATION	DESCRIPTION/SPECIFICATION
HEAVY DUTY STEEL RACKING (Length as per Layout Plan)	STRONG ROOM	Heavy Duty steel Racking size 2438mm (height) x 450mm (deep) x L eght as per floor plan layout detail, assembled from purpose made long 'sigma' beams, complete with a 22mm thick Pine closed timber deck (to fit configuration size). Load capacity should not be less than 5000kg per frame.

SANITARY SCHEDULE

WC'S URINALS & SHOWER

T1- CERAMIC STANDARD WC (C/C)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 487 & Fitted with 'Jazz ThermoSeal Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

T2- CERAMIC PARALEGIC WC (C/C)- CONCEALED CISTERN
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 487. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

T3- CERAMIC STANDARD WC (C/C)
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 487 & Fitted with 'Jazz ThermoSeal Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. blank flush plate & offset push button for paralegic access.

T4- CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90° outlet, back inlet pan to comply with SABS 487. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

T5- CERAMIC STANDARD WC (C/C)
Vitreous china 90° outlet, back inlet pan to comply with SABS 487. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoSeal (G Seal) and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

T6- CERAMIC WALL HUNG URINAL
Vitreous china size 415x152x75 mm wall hung bowl urinal to comply with SABS 487. Supplied with suitable 38mm CP domical grating, CP tap inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

R9- SHOWER
2000 Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP graded waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glass Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
• Overhead shower arm with wall flange
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete pit with exposed pitth face.

WASH-HAND BASIN
R1- MIB & MIXER TAP
Top Sanitaryware Vitreous china size 565 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 487 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 'Mio, 'Cobra WaterTech' 15mm chrome pushbutton demand pillar tap with flanged bakcstop (code KM2102) metering tap, 309-32 CP anti-hell plug with spindle, 308 basin-walls 345x45 CP bottle trap, mounting kit and angle valves.

R2- DISABLED BASIN
Vitreous china 410 x 510mm semi rounded lavatory basin to comply with SABS 487, in two tap hole configuration fitted with 2 No. chrome plated Elbow action pillar-tap, with 1/2 turn ceramic disc head and blue & Red indicators water application and flanged bakcstop, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.

R3- WHITE GLAZED PORCELAIN WALL (VANITY)
Ceramic freecay size 450x350mm oval self-forming vanity basin to comply with SABS 487 in one tap hole configuration supplied without overflow and fitted with: 2No. chrome plated tap with flanged bakcstop (code KM2102) metering tap, mounting kit, angle valves, 400mm long flexible inlet and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.

R4- SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 450x290mm wash basin to comply with SABS 487 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-hell plug with spindle plug, 308mm basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlet supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

R5- HEAVY DUTY BASIN & NO. TAP (FOR LABS)
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 487 and R5 hole plugged and fitted with 1No. pillar tap, Chrome Plated anti-hell plug with spindle plug, 308mm basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlet supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

R6- MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 487, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar-tap, with 1/2 turn ceramic disc head and blue & Red indicators water application and flanged bakcstop, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.

Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2
• Paper towel dispenser K8 and bin type K3
• Soap dispenser type K9
• Soapback comprising 2No. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

K1- STAINLESS STEEL SINK
Stainless steel 300 x 450mm inset single and bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.

K2- STAINLESS STEEL SINK
Stainless steel 300 x 450mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, with chrome plated overflow swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.

K3- CERAMIC SINK
Ceramic freecay size 485 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

K4- SINGLE WASH TROUGH (Inset) & 2 no. TAPS
600mm x 300mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP basins - plain enameled chrome plated, complete with sliding wall flanges. In-letted sink waste with back nut, plug with strip, chain and stay. CP, P, Trip, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFPL, Cut off size 335 x 425mm.

K5- DOUBLE WASH TROUGH (Inset) & 2 no. TAPS
1200 x 550 x 200mm Double bowl wall hung washub manufactured from grade 304 (18/10) SS, radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP basins - plain enameled chrome plated, complete with sliding wall flanges. In-letted sink waste with back nut and plug with strip, CP. Double drain back rubber deep seal P-Trip. Sink mounted on 2no. 30mm square SS galvok brackets, front leg and adjustable foot piece at height of 915mm AFPL.

SANITARY ACCESSORIES

K1- SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2- GLASS MIRROR
6mm thick clear float glass silver-backed mirror. Size 450x900mm height with polished bevelled edges 4 times top and four, with chromium plated demountable mirror screws

K3- SS WASTE BIN
200 x 650 x 2100 Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

K4- SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5- SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6- WALL GRAB RAILS-PARALEGIC
Stainless steel 914 x 91 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7- GRAB RAILS (RIGHT/LEFT HAND)-PARALEGIC
Stainless steel 1016 x 91 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8- PAPER TOWEL DISPENSER
350mmx160mmx200mm) Paper and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9- SOAP DISPENSER-DISH- WALL MOUNTED
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10- ALUMINIUM COAT HOOKS (Multi-Track)
500mm wide x 220mm high x 90mm deep Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws

K11- HAND DRYER (Hands free)
As per Electrical Engineers specification

K12- TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13- SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.

GENERAL FIXTURES

G1- DOOR PROTECTOR
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2- PROTECTOR SCREWS
Full cover PVC screws size 344 x 185mm (viewing area 224 x 175mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3- FINBOARD 1500W X 1000H
Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

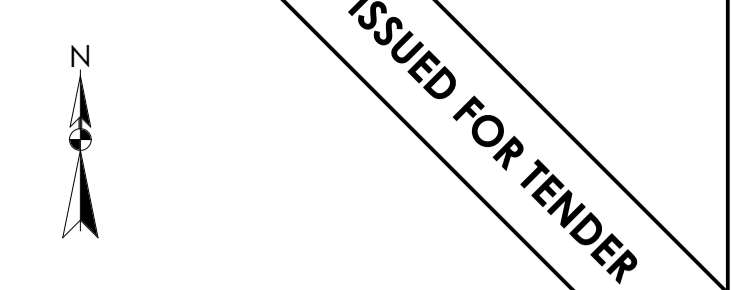
G4- FINBOARD 300W X 1200H
Finboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5- WINDOW NORMAL BINDS (vertical/sliding)
127 mm vertical deco binds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Binds to be face fixed (faced over the window opening) by means of concealed type fixing brackets.

G6- FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.

G7- SS FLOOR EXPANSION JOINT COVER
Concealed heavy-duty stainless steel movement joint, joint, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8- CHALKBOARDS- GREEN SURFACE COLOUR
Vitreous system 1000 standard WHITEBOARD OR EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 362004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and freely structured, olive green in colour (Vitreous Colour Reference - Chalk Board Green LM197/2), manufactured with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.



LEGEND

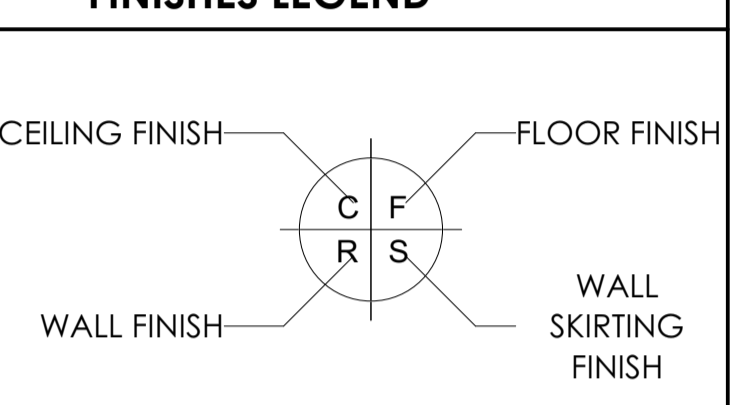
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS & STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	FIRST ISSUE FOR TENDER	DESCRIPTION
A	JUL 21	FIRST ISSUE FOR TENDER	

REVISIONS

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE
(INSTITUTION)
PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT
DISCIPLINE: ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION: JOINERY DETAILS D04-02

DRG No.	301-09	09/09	ITEM No.
DESIGN	NA	CM	DRAWN
DATE	AS SHOWN	MTM	CHECK

DATE	RESPONSIBLE PROFESSIONAL	PR. NUMBER
NOV 2019	T. MANYAZA	Pr/Arch 43981757

FINISHES LEGEND

FOILS:
F1. FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slip)
 300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification S81:1992 (or later revision), and laid to SABS D70 (or later revision) and in accordance to manufacturer's specifications on cement sand subfloor. Filings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Slips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2. PORCELAIN TILES - MATI
 600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Filings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Slips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3. CARPET FLOORS
 50mm x 50mm x 1.008 RFX Staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and laid with BN 307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DN S4324 on wire test and 50 body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.

F4. CEMENT SAND SCREED
 30mm thick potholed cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

F5. EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
 60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and approved to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6. GRANULITE FINISH
 22mm thick unsealed Granulite finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m², divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7. INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
 220mm x 191mm x 80 mm thick concrete interlocking pavers, 23 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

F8. SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
 2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS S86. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (Anti-static) Protection Vinyl Sheet, Laid on Self Levelled Smooth Surface grout with conductive adhesive to SABS D70 or Latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

F9. GRAVEL FINISH ON SAND LAYER
 30mm Gravel On Compacted Sand Layer Base as Per P&E Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:
S1. HARDWOOD OR EQUAL AND APPROVED
 18 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

S2. CERAMIC TILE SKIRTING
 600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Filings to include, ribbed angle files where there is a change of level. Colour and pattern to architects approval.

S3. CEMENT SAND SCREED
 75mm high 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

WALL FINISHES:
W1. FACE BRICK
 F8 Face brick in common running bond to comply with SABS 227 and forming part of the structural work.

W2. EMULSION (PVA) PAINT - FULL HEIGHT
 2 No. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade (I), in accordance to manufacturer's instructions.

W3. ENAMEL PAINT
 2 No. coats matt (egg shell) finish white (enamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer prior to SABS 1416 and 1 no. coat undercoat to SABS 681 grade (I), in accordance to manufacturer's instructions.

W4. GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
 Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'R5', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL, paint to specification 'R2' To Comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

W5. CERAMIC WALL TILES - FULL HEIGHT
 600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:
C1. 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
 Gyproc Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinoboard Strap Fast Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotile.

C2. FIRE CEMENT BOARDS (IN JOINTS)
 6mm thick Gyproc Fire-Cel plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171:5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinoboard Strap Fast Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotile.

C3. PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
 1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Fused OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn 138 FR Main Tees @ 4mm thickness, 2150 gaw, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) @ 1200 centres & Donn 138V (1200 long) Cross Tees @ 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the file notch. All file notches to be in file. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 603 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4. EMULSION (PVA) PAINT OR EQUAL AND APPROVED
 Emulsion (PVA) Paint on Plastered Plasterboard 2No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

ROOF COVERING AND INSULATION:
R1. EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 355 (3). The profile shall have three trapezoidal ribs at 203mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide copillary drains. The male rib shall have spurs at 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roofnuts to be coated on both sides with "Global Coat" or "Chromadek Coat" and laid on structural members/structure incorporating all necessary accessories such as fixings and eave covers in strict compliance to manufacturer's instructions.

Insulation: SMALL (200) 60: 1 where there are acoustic ceilings suspended board, a heavy duty Aluminium insulation foil shall be installed AND 2 where the steel work is exposed, a 50mm "Factorboard" manufactured from noncombustible glass fibres and mineral-wool resin bonded supplied size 2400mm x 1200mm and 80kg/m³ and finished with white meltable foil.

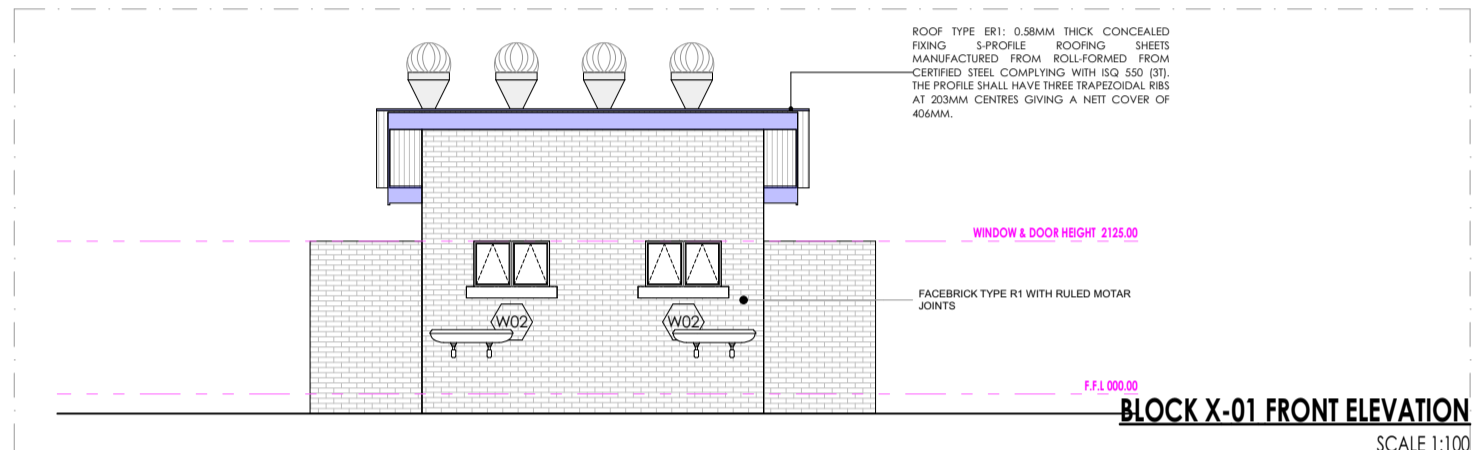
Galvanized Steel (GIGI Gutter): 150mm Wide x 100mm Deep x 4.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x 110 x 4.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.

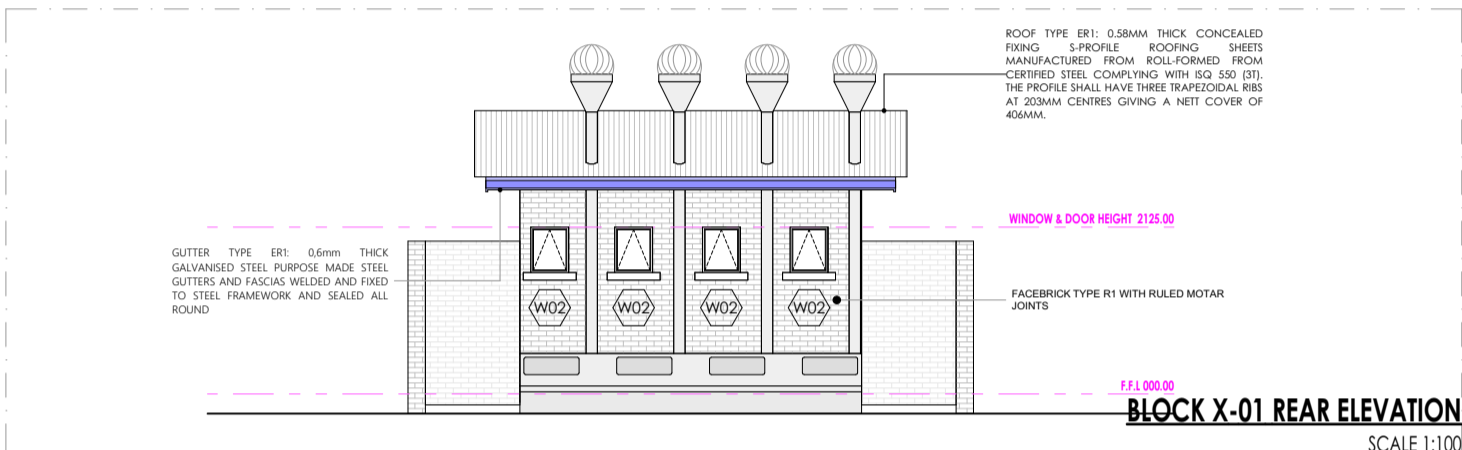
Facia board: 250 x 10 mm Fibre Cement Facia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:		
EXTERIOR DOOR	BURGLAR DOOR (SINGLE)	INTERIOR DOOR
QUANTITY 01	QUANTITY 02	QUANTITY 02
DOOR DESCRIPTION 813 x 2032 x 44mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01, AND FINISH WITH TWO COATS ALTYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630.	DOOR DESCRIPTION 813 x 2032 x 44mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE.
FRAME STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMMODATE 843 1910 DOOR LEAF.	FRAME 50 x 50mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMMODATE 843 1910 DOOR LEAF.	FRAME STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMMODATE 843 1910 DOOR LEAF.
FRAME FINISH WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL.	FRAME FINISH 1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL.
DOOR FINISH APPLY 3No. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, FINISH DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE DRYING COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.	DOOR FINISH PAINTED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALTYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION.	DOOR FINISH APPLY 3No. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, FINISH DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE DRYING COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE.
IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.	IRON MONGERY DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.
HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES	HINGES 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES

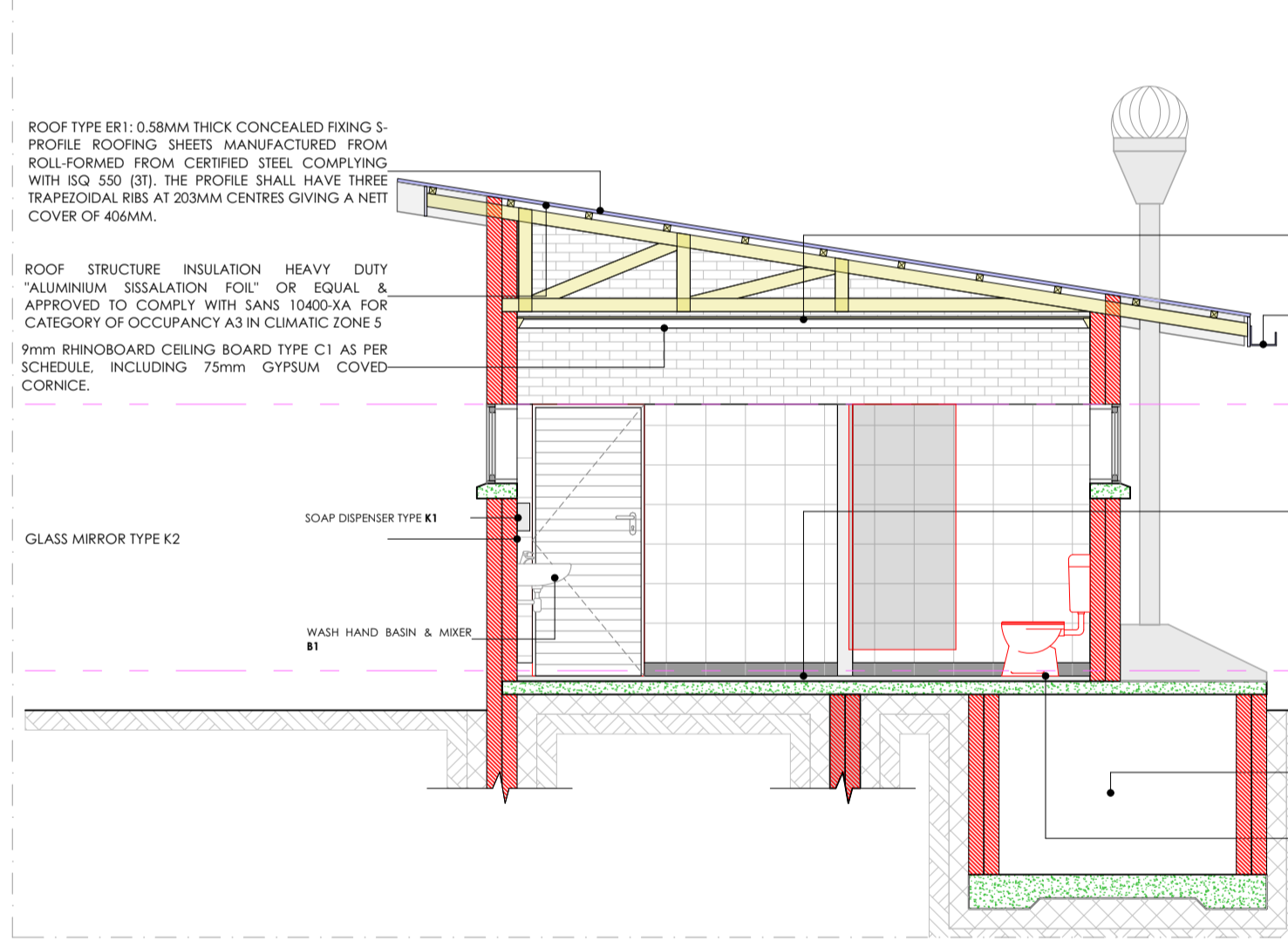
BLOCK X-01 DOOR SCHEDULE
SCALE: 1:100



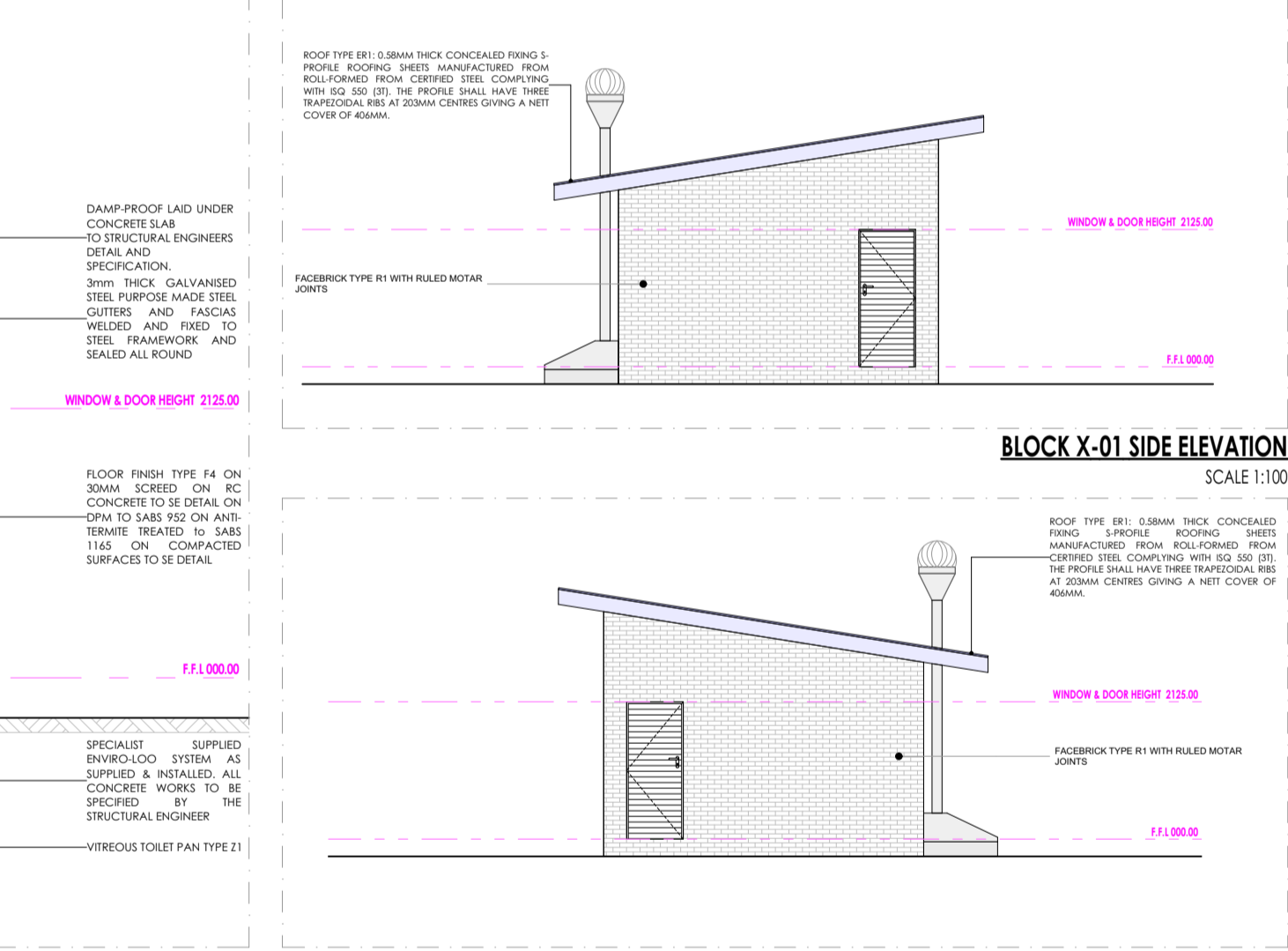
BLOCK X-01 FRONT ELEVATION
SCALE: 1:100



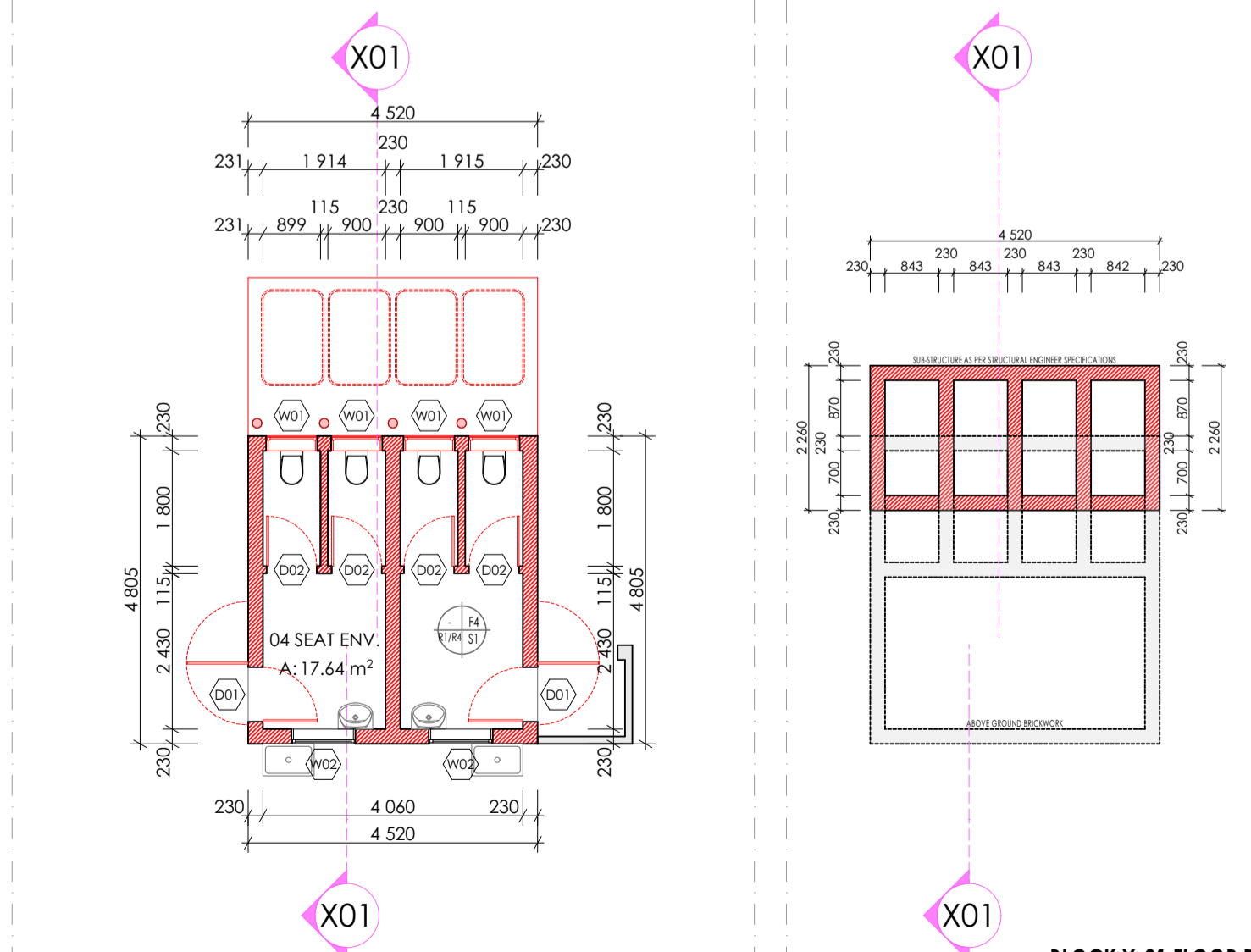
BLOCK X-01 REAR ELEVATION
SCALE: 1:100



BLOCK X-01 SECTION X01
SCALE: 1:50



BLOCK X-01 SIDE ELEVATION
SCALE: 1:100



BLOCK X-01 FLOOR PLAN
SCALE: 1:100

WINDOW SCHEDULE:		
W01	W02	W03
QUANTITY 04	QUANTITY 02	QUANTITY 02
WINDOW DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HING WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS, & WEATHER STOPS TO OVENABLE PANELS. PLUGGED & SCREWED INTO WALLING.	WINDOW DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HING WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS, & WEATHER STOPS TO OVENABLE PANELS. PLUGGED & SCREWED INTO WALLING.	WINDOW DESCRIPTION STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HING WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS, & WEATHER STOPS TO OVENABLE PANELS. PLUGGED & SCREWED INTO WALLING.
FRAME STANDARD 'STANDARD' TYPE GALVANISED MILD STEEL WINDOW FRAME MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALTYDE ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS.	FRAME STANDARD 'STANDARD' TYPE GALVANISED MILD STEEL WINDOW FRAME MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALTYDE ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS.	FRAME STANDARD 'STANDARD' TYPE GALVANISED MILD STEEL WINDOW FRAME MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALTYDE ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS.
GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.	GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.	GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.
WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION	HINGES FIXED, MANUFACTURER'S SPECIFICATION

BLOCK X-01 WINDOW SCHEDULE
SCALE: 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER
W1. CERAMIC STANDARD WC (C/C) - CONCEALED CISTERN
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

W2. CERAMIC PARALEGIC WC (C/C) - CONCEALED CISTERN
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for passage access.

W3. CERAMIC STANDARD WC (BACK INLET)
 Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

W4. CERAMIC STANDARD WC (C/C)
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat (H.S.E.) seal and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

W5. CERAMIC STANDARD WC (C/C)
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for passage access.

W6. CERAMIC WALL HUNG URINAL
 Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical grommet, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

W7. SHOWER
 2mm Thick Cromelised steel shower tray 900x900x16mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm RSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
 • Gated Shower Chubbie with access door as per standard supply from manufacturer and sized to fit space configuration.
 • Overhead shower arm with wall flange.
 • Chrome Plated Shower Head with dual jointed connector.
 • Chrome Plated Shower Diverter mixer-valve with sliding wall flanges and concealed connectors adjustable from 178mm to 203mm centres. Shower tray to be recessed 50mm into a 100mm high concrete plinth with exposed plinth face.

W8. DISABLED BATH
 1200mm semi recessed lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated elbow action pillar-top, with 1/4" ceramic disc head and 8/16" Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Faced with concealed wall bracket in accordance to the manufacturer's specifications.

W9. WHITE GLAZED PORCELAIN W/B (VANITY)
 Ceramic Freeco size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with 2No. chrome plated tap with flanged bracket (code KM2.102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded between cabinet areas in strict accordance to manufacturer's specifications.

W10. SMALL BASIN & 2 FASTRAY & SHOWER SET (FOR WORKSHOPS)
 Vitreous china size 450x300mm wall basin to comply with SABS 497. In 2 top hole configuration supplied with integrated overflow and charity hole with 2No. pillar tops, chrome plated anti-slip plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

W11. HEAVY DUTY BASIN & TAP (FOR LABS)
 Ceramic Freeco size 600x450mm rectangular heavy duty basin in one top hole configuration to comply with SABS 497 and 8/16" hole plugged and fitted with No. pillar top. Chrome Plated anti-slip plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

W12. MEDIC BASIN & FITTINGS (SICK BAY)
 Vitreous china size 400mm semi-recessed lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated Elbow action pillar-top, with 1/4" ceramic disc head and 8/16" Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
 Combination of sanitaryware, accessories and general fittings comprising of:
 • Mirror type C
 • Paper towel dispenser KB and bin type K3.
 • Soap dispenser type K5.
 • Soapbox comprising 2No. rows of wall fin type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:
S1. STAINLESS STEEL SINK
 Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade S316 (18/10) Stainless Steel sink to comply with SABS 956 fitted with Approved Sink mixer-wall tap, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

S2. STAINLESS STEEL SINK
 Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade S316 (18/10) Stainless Steel sink to comply with SABS 956 fitted with Approved Sink mixer-wall tap, with chrome plated overflow. Bowl fitted, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

S3. CERAMIC SINK
 Ceramic Freeco 455 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet. Fitted to wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant).

S4. SINGLE WASH TROUGH (Inlet & 2No. TAPS)
 1200 x 550 x 200mm Double bowl wall hung wash trough manufactured from grade 18/10 S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibcocks - plain extended chrome plated, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with strap, chain and stay, CP, P trap, with deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut off seal 555 x 425mm.

S5. DOUBLE WASH TROUGH (Inlet & 2No. TAPS)
 1200 x 550 x 200mm Double bowl wall hung wash trough manufactured from grade 304 (18/10) S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No wall type bibcocks, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP, Un-slotted sink waste with back nut and plug with strap, CP, Double drain back rubber deep seal P-trap. Sink mounted on 2No. 25mm square S3 galvalv brackets, front leg adjustable foot piece of height of 150mm AFFL.

SANITARY ACCESSORIES
S1. SS TOWEL ROLL HOLDER - 2 ROLL
 Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Soft Finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

S2. GLASS MIRROR
 6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished beveled edges 4 times milled for and fixed, with chromium plated dome-headed mirror screws.

S3. SS WASTE BIN
 288W x 525H x 203D Waste bin manufactured from 18/10 Stainless Steel, Surface Satin Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

S4. SANITARY BIN (PLASTIC)
 160mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

S5. SOAP HOLDER
 Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

S6. WALL GRAB BAR-PARALEGIC
 Stainless steel 914 x 90 x 32mm diameter wall floor grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs, installed as per manufacturer's instructions.

S7. GRAB BARS (RIGHT-LEFT HAND)-PARALEGIC
 Stainless steel 914 x 90 x 32mm diameter wall floor side table grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs, installed as per manufacturer's instructions.

S8. PAPER TOWEL DISPENSER
 330mmWx365mmX230mmD Tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

S9. SOAP DISPENSER (ISH- WALL MOUNTED)
 115W x 200H x 110D Stainless Steel Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

S10. ALUMINIUM COAT HOOKS (MULTITRACK)
 200mm Wide x 220mm High x 90mm High Aluminium Multitrack Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.

S11. HAND DRYER (Hands free)
 As per Electrical Engineers specification

S12. TOWEL RAIL
 15mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

S13. SHOWER CURTAIN RAIL (Height)
 20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES
G1. DOOR PROTECTOR
 200mm wide UPVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut off door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL.

G2. PROTECTOR SCREENS
 Full-height UPVC screen size 2440 x 1850mm (including area 234 x 1750mm) with wall-mounted code SC4000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3. FINBOARD 1500W X 1000H
 Finboard size 1500mm H x 1000mm W comprising of laminated soft board core priming material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4. FINBOARD 3000W X 1200H
 Finboard size 3000mm H x 1200mm W comprising of laminated soft board core priming material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G5. WINDOW NORMAL BINDS (vertical blinds)
 127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be concealed by stainless steel fins. The mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6. FLOOR DRAIN
 Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.

G7. SS FLOOR EXPANSION JOINT COVER
 Concealed heavy-duty stainless steel movement joint, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8. CHALKBOARDS - GREEN SURFACE COLOUR
 Vitreous system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamel steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CE 36/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitreous Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACKR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

NOTES
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED
 DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING
 CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH: C F S

FLOOR FINISH: F

WALL SKIRTING FINISH: S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS & STORMWATER		
WATER & SANITATION		

REVISIONS

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST