

BID NUMBER: LDPWRI-B/20296

APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, REFURBISHMENT OF 23 CLASSROOMS, 12 ENVIROLOOS SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 6 SEATS WATERBORNE TOILET BLOCK, 4 SEATS ENVIROLOO TOILET BLOCK X 3 AND EXTERNAL WORKS AT NKGONYELETSE SECONDARY SCHOOL IN MALEGASANE VILLAGE, 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

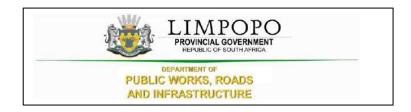
Contact Person: General Queries
Name : Mr NJ Motsopye,
Tel No. : 015 284 7126

Email : motsopyen@dpw.limpopo.gov.za

Technical: Technical QueriesName : Mr K Modjadji
Tel No. : 083 673 5436

Email : ModjadjiM@dpw.limpopo.gov.za

Name of the Bidder:



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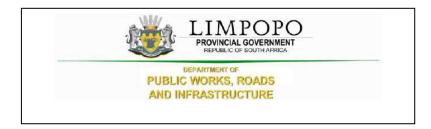
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PART T1: TENDERING PROCEDURE

T1.1 Tender Notice and Invitation to Tender

The Limpopo Department of Public Works, Roads and Infrastructure invites tenderers from contractors appointed on the framework agreement on category A for APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, REFURBISHMENT OF 23 CLASSROOMS, 12 ENVIROLOOS SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 6 SEATS WATERBORNE TOILET BLOCK, 4 SEATS ENVIROLOO TOILET BLOCK X 3 AND EXTERNAL WORKS AT NKGONYELETSE SECONDARY SCHOOL IN MALEGASANE VILLAGE, SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) for a period of 20 months. It is estimated that tenderers must have a CIDB contractor grading designation of 7 GB or higher.

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

Project Name	DEMOLITION OF ADMINISTRATION BLOCK, REFURBISHMENT OF 23 CLASSROOMS, 12 ENVIROLOOS SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 6 SEATS WATERBORNE TOILET BLOCK, 4 SEATS ENVIROLOO TOILET BLOCK X 3 AND EXTERNAL WORKS AT NKGONYELETSE SECONDARY SCHOOL IN MALEGASANE VILLAGE, SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR A PERIOD OF 20 MONTHS.				
Tender Number	LDPWRI- B/20296				
Tender documents availability		of Public Works, Roads and Infrastructure website			
Address for submission of tenders	DEPARTMENT OF PU	JBLIC WORKS, ROADS & INFRASTRUCTURE.			
		ner River and Blaauwberg Streets, Ladanna, 0699.			
Closing date of the tender	As per Tender invite				
Closing time of the tender	As per Tender invite				
Compulsory briefing	Yes ⊠ No □				
meeting (Tenderers must sign the attendance register in the name of the tendering entity. Addenda (if any) will	Meeting venue As per Tender invite				
be issued only to those	Date	As per Tender invite			
tendering entities appearing on the attendance register)	Time:	As per Tender invite			
Evaluation criteria	Compliance with mandatory or compulsory requirements Risk assessment on current projects Price Preference				
Mandatory or Compulsory Requirements (failure to submit or comply with these requirements will lead to automatic disqualification)	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
	The conditions of tender are the Standard Conditions of Tender as contained in Annex C of Board Notice 423 of 2019 in Government Gazette No. 42622 of 08 August 2019, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of tenderers as an Annexure to this Tender Data.
	The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.
	The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts Gazette Notice <i>No. 36190 of 25 February 2013</i> . In this case, contractor shall provide a <i>minimum Contract Participation Goal (CPG) of 5%</i> of the total project value and develop targeted enterprises stated under C3 of this document.
	The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender. Add the following to clauses in Standard Conditions of Tender:
C.1.1	The Employer is the Department of Public Works, Roads and Infrastructure

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

C.2.7	Compulsory site briefing
	A compulsory briefing meeting will be held as per Tender invite
	Tenderers must sign the attendance list in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance list.
C.2.11	Alterations to the documents
	Bidders are required to not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations
C.2.12	Alternative tender offer
	No alternative tender offer is permitted in this tender.
C.2.13.2	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)
C.2.13.3	Parts of each tender offer communicated on paper shall be submitted as an original
C.2.13.4	The tender shall be signed by a person duly authorized to do so.
C.2.13.5	The employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are:
	Location of tender box: DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699 Identification details: Sealed Tender with Tender reference number, Title of Tender and the closing date and time of the tender.
C.2.15.1	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender. Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
C.2.16.1	The tender offer validity period is 12 weeks or 90 days.
C.2.16.2	The tender accepts that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16.1 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).
C.3.1	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: - 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

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

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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:

$$P = A * \left(1 - \frac{(P_0 - P_m)}{P_m}\right)$$

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.

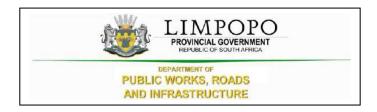
P is the points awarded to the bid under consideration

 P_m is the lowest Comparative bid price

 P_o is the comparative price under consideration

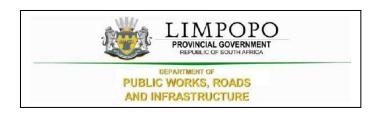
b) N_P is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

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PART T2: RETURNABLE DOCUMENTS

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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:

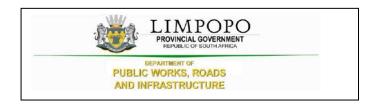
- 2.1 Fully completed Form of Offer
- 2.2 Bills of Quantities
- 2.3 Record of Addenda to tender documents (if applicable)
- 2.4 Proposed amendments and qualifications (if applicable)
- 2.5 Proof of specific goal for award of the preference points as determined on the Request for Proposal
- 2.6 SBD 1.
- 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.

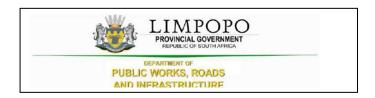
The bidder should also not appear on the National Treasury's list of black listed entities.

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T 2.2: RETURNABLE SCHEDULE

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



Declaration on the status of administrative compliance

Please indicate, by	y circling either Yes or No , whether	r the administrative informat	ion submitted with the original
framework tender	documents have changed or no	t. If yes, kindly provide the	e particulars below with any
supporting docum	ents.		
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 sp	pace is required.	
Signe	d	Date	
Name		Position	
Tende	erer		

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LIMPOPO
PROVINCIAL GOVERNMENT
NEPUBLIC OF SOUTH APRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

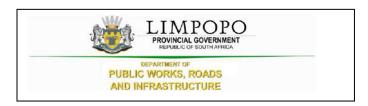
Proposed amendments and qualifications

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

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

Page	Clause or item	Proposal	
Signe	d 	Date	
Name)	Position	
Tende	erer		

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SBD 1 PART A: INVITATION TO BID

YOU ARE HERE	BY INVITED TO BI	D FOR REQUIREM	MENTS OF T	HE LIMPOPO	DEPARTMENT	OF PU	BLIC WORKS, F	ROADS AND
			CLOSING D	DATE	As per			As per Tender
BID NUMBER:	LDPWRI-B/20296				Tender Advert		NG TIME:	Advert
DESCRIPTION	DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION SCHOOL IN MALEGASANE VILLAGE, SEKHUKHUNE DISTRICT.							
	DOCUMENTS MAY E					RESS)		
DEPARTMEN	T OF PUBLIC WC	RKS, ROADS &	INFRASTI	RUCTURE.	•	,		
Physical addre	ess: Corner River	and Blaauwberg	Streets, La	danna, 069	9.			
BIDDING PROCE	EDURE ENQUIRIES N	MAY BE DIRECTED	то					
CONTACT PERS	ON	Mr. NJ Motsopye						
TELEPHONE NU	MBER	0152847126	E-MAIL AI	DDRESS		motsop	yen@dpw.limpop	o.gov.za
CONTACT PERS	ON (TECHNICAL)	Mr. K Modjadji				1		
TELEPHONE NU		083 673 5436	E-MAIL AI	DDRESS		Modjad	jiM@dpw.limpopo	.gov.za
NAME OF BIDDE								
POSTAL ADDRE								
STREET ADDRE								
TELEPHONE NU		CODE			NUMBER			
CELLPHONE NU		OODL			NOWBER			
E-MAIL ADDRES								
VAT REGISTRAT								
SUPPLIER COM	PLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No	o: MA	AA	
ARE YOU THE REPRESENTA SOUTH AFRICE		□Yes	□No	BASED S	I A FOREIGN UPPLIER FOR SERVICES /W		□Yes	□No
	VICES /WORKS	[IF YES ENCLOS	E PROOF]	OFFERE		UKNO	[IF YES, ANSW QUESTIONNAI	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS								
IS THE ENTITY A	IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?					ES NO		
DOES THE ENTI	DOES THE ENTITY HAVE A BRANCH IN THE RSA?				ES NO			
DOES THE ENTI	TY HAVE A PERMAN	ENT ESTABLISHM	ENT IN THE I	RSA?				ES NO
DOES THE ENTI	TY HAVE ANY SOUR	CE OF INCOME IN	THE RSA?					ES NO
IS THE ENTITY L	IABLE IN THE RSA F	OR ANY FORM OF	TAXATION?				☐ YI	S 🗌 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.

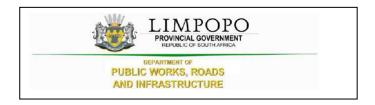
2. TAX COMPLIANCE REQUIREMENTS

- 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:	

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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:

80/20 or 90/10

$$Ps = 80\left(1 - \frac{Pt - Pmin}{Pmin}\right)$$
 or $Ps = 90\left(1 - \frac{Pt - Pmin}{Pmin}\right)$

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:

$$Ps = 80\left(1+rac{Pt-P\,max}{P\,max}
ight)$$
 or $Ps = 90\left(1+rac{Pt-P\,max}{Pmax}
ight)$

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.)

system. _j				
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	1	1		

of South African ID as proof)			
South African owned enterprises (Attach Director's certified copy of South African ID as proof + company registration documents)	2	2	

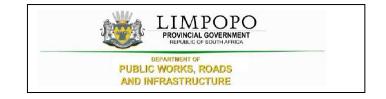
DECL	ARATIO	N WITH	REGARD	TO COME	PANY/FIRM

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

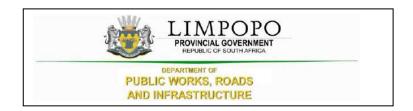
Signed	 Date	
Name	 Position	
Enterprise		



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 NKGONYELETSE SECONDARY SCHOOL IN MALEGASANE VILLAGE, SEKHUKHUNE DISTRICT.

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

By the representative of the tenderer, deemed to be duly authorized, signing this part of the Form of Offer and Acceptance, the tenderer offers to perfom 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)

and (in words); R
n figures) R
nis 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 nder data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract entified in the contract data.
Signature(s)
Name(s)
Capacity
or the enderer:
Name & signature of vitness 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 Em	ployer
Signature	
Name	
Capacity	
Name and a	address of organization
Signature a	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 <i>Employer</i> and the Tenderer agree to and accep foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of offer agreed by the Tenderer and the <i>Employer</i> during this process of offer and acceptance.	and
It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have meaning or effect in the contract between the parties arising from this agreement.	



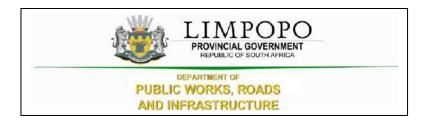
C2.1 CONTRACT DATA

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

		Quantity	Rate	Amount
SEC	TION NO. 1			
BILL	_ NO. 1			
PRE	LIMINARIES NOTES			
PRE	<u>AMBLES</u>			
in the	E : The tenderer is referred to the relevant clauses Model Preambles for Trades (2008 Edition) as d by the Association of South African Quantity eyors before pricing this bill.			
NOT	<u>ES</u>			
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".			
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			
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			
	Carried Forward		R	
Bill No	IMINARIES AND GENERAL o. 1 ninaries and General			

	Brought Forward		R	
	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			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
	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.			
	PRICING OF PRELIMINARIES			
	Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.			
	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 4.1, March 2005)			
	DEFINITIONS AND INTERPRETATION (A1)			
1/1/1	Clause 1.0			
	F: T:	Item		
	OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)			
1/1/2	Clause 2.0			
	F: T:	Item		
	DOCUMENTS (A3)			
1/1/3	Clause 3.0			
	F: T:	Item		
	Comind Former			
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

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

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

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

	Brought Forward		R	
	SELECTED SUBCONTRACTORS (A21)			
1/1/21	Clause 21.0			
	F: T:	Item		
	EMPLOYERS DIRECT CONTRACTORS (A22)			
1/1/22	Clause 22.0			
	F: T:	Item		
	CONTRACTORS DOMESTIC SUBCONTRACTORS (A23)			
1/1/23	Clause 23.0			
	F: T:	Item		
	COMPLETION			
	PRACTICAL COMPLETION (A24)			
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: T:	Item		
	WORKS COMPLETION (A25)			
1/1/25	Clause 25.0			
	F: T:	Item		
			_	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

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

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

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

	Brought Forward		R	
	SCHEDULE OF VARIABLES (A42)			
1/1/43	Clause 42.0			
	F: V: T:	Item		
	<u>AGREEMENT</u>			
	<u>AGREEMENT</u>			
1/1/44	Clause			
	F: V: T:	Item		
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
	CONTRACT DETAILS			
	Works Description:			
	Demolishing of administration block, Refurbishment of 23 classrooms & 12 enviro-loo toilets and Construction of medium administration, 6 seat waterborne and 12 seat enviro-loo toilets, as well as related external works			
	Site Description:			
	Nkgonyeletse Secondary School Ga-Mashabela, Malegasane, Limpopo Province			
	Work for installation by direct contractors: TBC			
	This agreement is for a government contract: Yes			
	Date on which possession of the site is intended to be given: TBC			
	Period for the commencement of the works after the contractor takes possession of the site: 10 days			
	Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
	Completions in sections are required: No			
	Intended date of practical completion and the penalty per calender day for the works as a whole:			
	R 5 000.00			
	Contract duration : 20 months including national builder's break			
	SPECIAL COMPLETION REQUIREMENTS			
	Beneficial occupation dates: TBC			
	Tenant Installations beneficial occupation			
	F V T			
1/1/45	Arbitration rules as recommended by the Association of Arbitrators (SA)			
	F V T	Item		
1/1/46	The law applicable to this agreement shall be that of South Africa			
	F V T	Item		
	INSURANCES			
1/1/47	Contract works insurance to be effected by: Contractor			
	For the amount of: The Contract Sum plus 20% with deductible of R20 000.00			
	Notwithstanding the provisions of Clause 41.3.2, the first amount deductible will be for the Contractor's account			
	SASRIA insurance required:			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/48	Public liability insurance to be effected by Contractor For the amount of: R 10 000 000.00 With a deductible of: R 10 000.00 per claim			
	F: T:	Item		
	DOCUMENT			
	Waivers of contractors lien is required: Yes			
	Number of construction document copies to be supplied free of charge: 3			
	Number of days for submission of priced documents: TBA			
	Notwithstanding the provisions of the above clause, no payments will be certified unless the priced documents are agreed with the Quantity Surveyors.			
	JBCC Engineering General Conditions are to be included in the documents: No			
	Alternative if contract value is not adjusted using Contract Price Adjustment Provision: N/A			
	Tender Price is requested for Fixed Rates.			
	Details of changes made to the provision of JBCC standard documentation:			
	The Contractor shall issue a Tax Invoice immediately to enable the Employer to process payment.			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
	SECTION B: PRELIMINARIES			
	Definition and interpretation (B1)			
1/1/49	Definition and interpretation (B1.1 - B1.6.5)			
	F: T:	Item		
	Documents (B2)			
1/1/50	Checking of documents (B2.1)			
	F: 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: T:	Item		
1/1/52	Provisional bills of quantities (B2.2)			
	F: T:	Item		
1/1/53	Availability of construction documentation for contracts based on provisional bills of quantities (B2.3)			
	F: T:	Item		
1/1/54	Interests of agents (B2.4)			
	F: T:	Item		
	Carried Forward			
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
1/1/55	Priced documents (B2.5)			
	F: T:	Item		
1/1/56	Tender submission (B2.6)			
	F: 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: T:	Item		
	The site (B3)			
1/1/58	Defined works area (B3.1)			
	F: 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: T:	Item		
1/1/60	Inspection of the site (B3.3)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
1/1/61	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 Nkgonyeletse Secondary School			
	F: T:	Item		
1/1/62	Existing premises occupied (B3.4)			
	F: T:	Item		
1/1/63	Previous work - dimensional accuracy (B3.5)			
	F: T:	Item		
1/1/64	Previous work - defects (B3.6)			
	F: T:	Item		
1/1/65	Services - known (B3.7)			
	F: T:	Item		
1/1/66	Services - unknown (B3.8)			
	F: T:	Item		
1/1/67	Protection of trees etc (B3.9)			
	F: T:	Item		
1/1/68	Articles of value (B3.10)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
1/1/69	Inspection of adjoining properties etc (B3.11)			
	F:			
	T:	Item		
	Management of contract (B4)			
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: 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: T:			
	1	Item		
1/1/72	Progress meetings (B4.3)			
	F: T:	Item		
1/1/73	Technical meetings (B4.4)			
	F: T:	Item		
	Samples and shop drawings and manufacturer's instructions (B5)			
1/1/74	Samples of materials (B5.1)			
	F: T:	Item		
1/1/75	Workmanship samples (B5.2)			
	F: T:	Item		
			_	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
1/1/76	Shop drawings (B5.3)			
	F: T:	Item		
	Temporary works and plant (B6)			
1/1/77	Deposits and fees (B6.1)			
	F: T:	Item		
1/1/78	Enclosure of the works (B6.2)			
	F: T:	Item		
1/1/79	Advertising (B6.3)			
	F: T:	Item		
1/1/80	Plant, equipment, sheds and offices (B6.4)			
	F: 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: T:	Item		
1/1/82	Subcontractors notice board (B6.6)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

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

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

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

	Brought Forward		R	
	Schedule of variables (B12)			
1/1/106	Pre-tender information (B12.1)			
	F: T:	Item		
	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			
1/1/107	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes			
	F: T:	Item		
1/1/108	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete: Yes			
	F: T:	Item		
1/1/109	12.1.3 Interest of agents (B2.4)			
	F: T:	Item		
1/1/110	12.1.4 Defined works area (B3.1)			
	F: T:	Item		
1/1/111	12.1.5 Geotechnical investigation (B3.2)			
	F: T:	Item		
1/1/112	12.1.6 Existing premises occupied (B3.4)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/113	12.1.7 Services - known (B3.7)			
	F: T:	Item		
1/1/11		iteiii		
1/1/114	12.1.8 Protection of trees (B3.9)			
	F: T:	Item		
1/1/115	12.1.9 Inspection of adjoining properties (B3.11)			
	F: T:	Item		
1/1/116	12.1.10 Enclosure of the works (B6.2)			
	F: T:	Item		
1/1/117	12.1.11 Offices (B6.4.3)			
	F: T:	Item		
1/1/118	12.1.12 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.			
	<u>F</u> :V:			
	T:	Item		
1/1/119	12.1.13 Subcontractors notice board (B6.6) A notice board is required: No			
	F: T:	Item		
				\vdash
	Carried Forward Section No. 1		R	
	PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
1/1/120	12.1.14 Water (B7.2) Alternative Selected: A			
	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.			
	F: T:	Item		
1/1/121	12.1.15 Electricity (B7.3) Alternative selected: A			
	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 wit the specifications of the Local authority.			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/122	12.1.16 Telecommunications (B7.4) Alternative selected: A			
	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.			
	F: T:	Item		
1/1/123	12.1.17 Ablution facilities (B7.5) Alternative selected: A			
	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.			
	F: T:	Item		
1/1/124	12.1.8 Special attendance (B9.2)			
	F: T:	Item		
1/1/125	12.1.19 Protection of the works (B11.1) F:V:			
	T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/126	12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: Yes			
	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.			
	F: T:	Item		
1/1/127	12.1.21 Disturbance (B11.5)			
	F: T:	Item		
1/1/128	Post tender information (B12.2)			
	F: T:	Item		
1/1/129	12.2.1 Payment of preliminaries Alternative selected: (A or B)			
	F: T:	Item		
1/1/130	12.2.2 Adjustment of preliminaries Alternative selected: (A or B)			
	F: T:	Item		
1/1/131	12.2.3 Additional agreed preliminaries items			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	SECTION C: SPECIFIC PRELIMINARIES			
1/1/132	GUARANTEE			
	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.			
	F: T:	Item		
1/1/133	SHOP DRAWINGS			
	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. 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) calender days and shall not proceed with fabrication until so authorised by the principal agent			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/134	SAMPLES			
	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.			
	Samples must be submitted in duplicate or as instructed and must allow a reasonable time for their consideration.			
	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.			
	F: T:	Item		
1/1/135	SITE INSTRUCTIONS			
	Site instructions issued are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor.			
	Site instructions to the various sub-contractors may be issued only by the Principal Agent and must be issued via the contractor.			
	Copies of all site instructions issued are to be submitted for the principal agent and the quantity surveyors within two (2) days of issue.			
	F: T:	Item		
			_	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
1/1/136	OVERTIME			
	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.			
	F: T:	Item		
1/1/137	CO-OPERATION OF CONTRACTOR FOR COST CONTROL			
	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.			
	It is specifically agreed that the professionals and the contractor will endeavour to agree and sign off variations within sixty days of them arising.			
	F: T:	Item		
1/1/138	SITE LEVELS			
	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.			
	F: T:	Item		
1/1/139	PROPRIETARY BRANDED PRODUCTS			
	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			
	F: T:	Item		
	Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
1/1/140	AS BUILT DRAWINGS			
	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.			
	F: T:	Item		
1/1/141	OCCUPATIONAL HEALTH AND SAFETY ACT			
	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.			
	F: V: T:	Item		
1/1/142	COVID-19 RELATED ITEMS			
	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.			
	F: V: T:	Item		
	Carried to Final Summary Section No. 1		R	
	PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	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			
	Filling			
	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			
	Excavations measured in successive depths of 2m.			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 1 Earthworks			

	Brought Forward			R	
	SITE CLEARANCE ETC				
	Site clearance				
2/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	165		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
2/1/2	Trenches	m3	54		
2/1/3	Holes	m3	60		
	Extra over excavations in earth to trenches and holes for				
2/1/4	Excavation in soft rock	m3	11		
2/1/5	Excavation in hard rock	m3	6		
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
2/1/6	Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc 500mm away from excavated face	m2	80		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	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.				
2/1/7	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	89		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 1 Earthworks				

	Brought Forward			R	Τ
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
2/1/8	Trenches and holes	m2	233		
	KEEPING EXCAVATIONS FREE FROM WATER				
2/1/9	Keeping excavations free of all water other than subterranean water		Item		
	FILLING, ETC.				
	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				
2/1/10	Backfilling to trenches, holes, etc	m3	27		
2/1/11	Under floors, steps, pavings, etc	m3	68		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
2/1/12	Backfilling to trenches, holes, etc	m3	8		
2/1/13	Under floors, steps, pavings, etc	m3	10		
	Filling supplied by the Contractor under floors, trenches, etc.				
2/1/14	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	12		
	COMPACTION OF SURFACES				
2/1/15	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	177		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 1 Earthworks				

	Brought Forward			R	
	WEED KILLERS, INSECTICIDES, TERMITES,				
	etc.				
	Protection against termites, ants, etc				
2/1/16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	148		
2/1/17	To bottom and sides of excavated trenches, Holes, etc.	m2	317		
	Carried Forward to Summary of Section No. Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 1 Earthworks			R	

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	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)			
	<u>Formwork</u>			
	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 reuse. 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.			
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 2		R	
	Concrete, Formwork and Reinforcement			

Brought Forward	R	
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.		
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".		
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:-		
 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		
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.		
Carried Forward Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3	R	
Bill No. 2 Concrete, Formwork and Reinforcement		

	Brought Forward			R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
2/2/1	Blinding	m3	3		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
2/2/2	Strip footings	m3	13		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
2/2/3	Concrete Apron cast to fall etc,	m3	7		
	25MPa/19mm Concrete				
2/2/4	Surface beds cast in panels	m3	12		
2/2/5	Slabs including beams and inverted beams	m3	3		
	TEST BLOCKS				
	Notes:				
	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)				
2/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	16		
				<u> </u>	
	Carried Forward Section No. 2			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 2 Concrete, Formwork and Reinforcement				
	Solidio, Formion and Politicionion				

	Brought Forward			R		Π
	SUNDRIES TO CONCRETE				I	
	Surface treatment					
2/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	179			
	ROUGH FORMWORK (DEGREE OF ACCURACY II)					
	Rough formwork to sides					
2/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	208			
	Rough formwork to soffits					
2/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	31			
	MOVEMENTS JOINTS ETC,					
	Expansion joints					
2/2/10	10mm soft board or similar approved between concrete and brick wall	m	101			
	REINFORCEMENT (PROVISIONAL)					
	High and mild tensile steel reinforcement to structural concrete work					
2/2/11	All diameter bars	t	1			
	Fabric reinforcement:					
2/2/12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	81			
						+
	Carried Forward to Summary of Section No.			R		<u> </u>
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 2					
	Concrete, Formwork and Reinforcement					

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	MASONRY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include 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.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 3 Masonry			

	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				
	BRICKWORK IN FOUNDATION				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints				
2/3/1	One brick wall	m2	58		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
2/3/2	One brick wall	m2	312		
2/3/3	Half brick wall	m2	33		
2/3/4	Half brick wall, in beamfilling	m2	18		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
2/3/5	340 x 230mm Brick Piers	m3	1		
2/3/6	360 x 230mm Brick Piers	m3	1		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"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				
2/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	115		
	Carried Forward Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 3 Masonry			R	
	'				

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

	Brought Forward			R	Π
2/3/8	Extra over brickwork for face brickwork in superstructure	m2	257		
2/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	11		
2/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	6		
2/3/11	Extra over brickwork for face brickwork to piers	m2	40		
2/3/12	Extra over brickwork for face brickwork in beamfilling	m2	18		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2/3/13	75mm Wide reinforcement built in horizontally	m	98		
2/3/14	150mm Wide reinforcement built in horizontally.	m	1 267		
	"Allied concrete" or similar approved prestressed fabricated lintels				
2/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	10		
2/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	35		
	Turning pieces				
2/3/17	110mm Wide turning piece to flat brick lintels	m	32		
	Air bricks etc				
2/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	6		
	Roof ties				
2/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	58		
				_	
	Carried Forward Section No. 2			R	
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 3 Masonry				

	Brought Forward		R	
	MOVEMENTS JOINTS ETC,			
	Expansion joints			
2/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	11		
	Carried Forward to Summary of Section No.		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3			
	Bill No. 3 Masonry			

Item No		C	Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
2/4/1	Under walls	m2	4		
2/4/2	Under cills, etc.	m2	1		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
2/4/3	Under surface beds.	m2	148		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
2/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	101		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 4			K	

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	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				
2/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	121		
2/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	17		
2/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	30		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 5 Roof Coverings				

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
2/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	121		
	Carried Forward to Summary of Section No.		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 5 Roof Coverings			
				ı

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Joinery			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Decorative laminate finish			
	Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
	<u>Timber</u>			
	All softwood to be South African Pine			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 6 Carpentry and Joinery			

Brought Forward	R	_
<u>Descriptions</u>		
Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.		
Where the fixing of members is not stated it shall mean the nailing of one timber member to another.		
The term "planted on" shall mean the nailing of one timber member to another		
The term "screwed on" shall mean the countersunk screwing of one timber member to another.		
The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.		
The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.		
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.		
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.		
Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting		
Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.		
Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.		
Carried Forward	R	_
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 6		
Carpentry and Joinery		

	Brought Forward			R	<u> </u>
	ROOFS, ETC				
	Plate nailed timber roof truss construction				
	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.				
	Roof trusses				
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	101		
	Sawn softwood				
2/6/2	38 x 114mm Wall plates	m	70		
	<u>Sundries</u>				
2/6/3	Two coats creosote on sawn timbers	m2	26		
					<u></u>
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
2/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	69		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
2/6/5	813 x 2032mm single door	No	12		
2/6/6	914 x 2032mm single door	No	6		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
2/6/7	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	6		
	Carried Forward to Summary of Section No. Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3			R	
	Bill No. 6 Carpentry and Joinery				

n		Quantity	Rate	Amount
	BILL NO. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	<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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>Fixing</u>			
	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.			
	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			
	Ceilings & Bulkheads			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	Steel components			
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward		R	_
	Proprietary suspended ceilings			
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations			
	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)			
	Suspension systems			
	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.			
	NAILED UP CEILINGS			
	FIBRE - CEMENT BOARDS			
	Similar Approved			
	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			
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	51		
	CORNICES			
	Similar Approved			
	"Rhino" plasterboard cornice			
2/7/2	75mm Coved cornice, plugged to brickwork	114		
	Carried Forward		R	_
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	Π
	SUNDRIES				
	Extra over for Trap Doors				
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	6		
	CEILING INSULATION				
	Insulation				
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	51		
					_
	Carried Forward to Summary of Section No. Section No. 2			R	+
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 7 Callings Partitions and Assess Floaring				
	Ceilings, Partitions and Access Flooring				

n O		Quantity	Rate	Amount
<u> </u>	BILL NO. 8			
1	IRONMONGERY			
<u> </u>	PREAMBLES			
i:	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.			
2	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
9	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
t r	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.			
<u> </u>	Proprietary items			
0	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
r c	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			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
4 E	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 8 Ironmongery			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled 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				
	Rates The tenderer is to price for supply, taking delivery of,				
	storing and fixing of the ironmongery listed below. DOOR FURNITURE				
	Similar Approved				
	Handles				
2/8/1	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	12		
	Locks				
2/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	12		
2/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	6		
2/8/4	SC 150mm Cabin hook (Code: CH 150)	No	6		
2/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	12.0		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 8 Ironmongery			K	

	Brought Forward			R	
	Kick and push plates	ı			
2/8/6	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	36		
2/8/7	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	12		
	Panic hardware				
2/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	6.0		
2/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	6		
	<u>Sundries</u>				
2/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	12.0		
2/8/11	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	12		
	SUNDRIES				
	Approved				
2/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	30		
	Carried Forward to Summary of Section No. Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 8 Ironmongery			R	

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	SPECIFICATIONS			
	User Note:			
	Glazing			
	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.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 9 Metalwork			

E	Brought Forward	R	
<u>Actuators</u>			
All rates for shopfronts with actuators to supply and installation of actuators as sp			
Scaffolding			
All scaffolding should be provided by the contractor and no claims/ qualifications waccepted.			
Protection			
With this tender, the glazing sub-contract a statement concerning protection that w to finishes and components until Practica This to include specific references to the removal of such protection. All tenderers to include cost of protection	rill be provided all Completion. method of		
<u>Installation</u>			
All measurements to be checked on site ordering and manufacturing.	prior to		
Aluminium sections and shop drawings to by Architect prior to manufacturing.	o be accepted		
Allow for water and weather proof polysu to approved specifications all around frar plaster and other materials.			
<u>Profiles</u>			
Tenderers to provide typical details of pro aluminium section to be used in the design			
Structural Silicone			
Tenderers to allow a 10 year guarantee of powdercoating.	on all		
Preliminary and Shop Drawings:			
The contractor shall submit preliminary d showing basic system sections for the Ar approval.			
	Carried Forward	R	
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork			

Brought Forward	R
After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.	
Fixing:	
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.	
Deflection of structure:	
The contractor is advised to make adequate provision for the design deflection of the structure.	
<u>Tolerances:</u>	
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.	
Protection:	
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.	
Such protection shall only be removed after a written instruction from the Architect.	
Cleaning:	
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.	
Note: All windows and doors should be read in conjunction with window and door schedules	
Carried Forward	R
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 9 Metalwork	

	Brought Forward			R		
	WELDED SCREENS, GATES, ETC.				i:	
	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					
2/9/1	Steel gate to door, size 813mm x 2032mm high	No	6			
	PRESSED STEEL DOOR FRAMES					
	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					
2/9/2	813 x 2032mm single door	No	12			
	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					
2/9/3	914 x 2032mm single door	No	6			
	WINDOWS FRAMES, etc.					
	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					
2/9/4	Window size 533 x 950mm high	No	12			
	Carried Forward to Summary of Section No. Section No. 2			R		<u> </u>
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 9 Metalwork					

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
2/10/1	30mm Thick on floors and landings	m2	80		
2/10/2	30mm Thick to falls and currents	m2	8		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
2/10/3	On brick walls	m2	281		
2/10/4	On narrow widths	m2	28		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
2/10/5	Aluminium straight edge M-trim suitable for under- screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	5		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 10 Plastering				

1		Quantity	Rate	Amount
	BILL NO. 11			
	<u>TILING</u>			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>Pricing</u>			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	<u>Fixing</u>			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.			
	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.			
	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.			
	<u>Wastage</u>			
	Tile wastage in excess of 10% will be for the tenderer's account.			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 11 Tiling			

	Brought Forward			R	
	GENERAL NOTES TO TENDERERS				
	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.				
	WALL TILING				
	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				
2/11/1	Plastered walls	m2	167		
2/11/2	On narrow widths	m2	17		
2/11/3	Splash backs	m2	2		
	FLOOR TILING				
	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 cementetious grout				
2/11/4	On floors	m2	88		
2/11/5	75mm high skirting	m	219		
	ATTIC STOCK				
2/11/6	150 x 150 x mm ceramic tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	17		
2/11/7	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	9		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 11 Tiling				

	Brought Forward		R	
	SUNDRIES			
	10mm aluminium straight edge trim			
2/11/8	Dividing strip between tiles and door frames m	5		
	Carried Forward to Summary of Section No.		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3			<u> </u>
	Bill No. 11 Tiling			
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Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	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.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	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.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	Π
	Laying, backfilling, bedding, etc., of pipes:				
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	<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	69		
2/12/2	Extra over eaves gutter for stopped end	No	24		
2/12/3	Extra over eaves gutter for corner	No	52		
2/12/4	Extra over eaves gutter for outlet	No	12		
	Rainwater downpipes				
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	42		
2/12/6	Extra over downpipe for offset	No	24		
2/12/7	Extra over downpipe for shoe	No	12		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	
	WASH HAND BASINS				
	Similar Approved				
	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				
2/12/8	WHB, installed complete	No	6		
	WATER CLOSET				
	Similar Approved				
	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				
2/12/9	WC, installed complete	No	12		
	CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)				
2/12/10	32mm Basin waste union	No	6		
	TOILET ROLL HOLDER				
	To be approved by Architect				
2/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	12		
					4
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 12 Plumbing and Drainage				

	Brought Forward			R		_
	SOAP DISPENSER					
	To be approved by Architect					
2/12/12	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	2			
	PAPER TOWEL DISPENSER					
	To be approved by Architect					
2/12/13	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	2			
	TAPS, VALVES, ETC					
	Similar Approved					
2/12/14	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	6			
	TESTING					
2/12/15	Testing water pipe system		Item			
	BUDGETARY ALLOWANCE					
2/12/16	Allow an amount of R322 200.00 (Three Hundred and Twenty Two Thousand Two Hundred) for the supply and installation of Sanitary Fitting Sundries		Item		322 200.0	00
2/12/17	Allow an amount of R200 000.00 (Two Hundred Thousand) for the supply and installation of Enviro-loo complete		Item		200 000.0	00
				_		_
	Carried Forward to Summary of Section No. Section No. 2			R		=
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 12 Plumbing and Drainage					
	Transing and Drainage					

Item No		Qu	antity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	6mm obscure floated glass fixed glazing putty				
2/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	6		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
2/13/2	Mirror 400 x 600 mm high	No	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 13				
	Glazing				

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
2/14/1	On internal ceilings and cornices	m2	62		
2/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	69		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
2/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	6		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 14 Paintwork				

	Brought Forward			R	
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
2/14/4	Plastered walls	m2	281		
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
2/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	23		
2/14/6	On window frames	m2	6		
2/14/7	On door frames	m2	38		
2/14/8	On gutters	m	69		
2/14/9	On downpipes	m	43		
	Prepare and apply one coat Merit universal undercoat and two coats gloss enamel paint, colour to be confirmed by architect				
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
2/14/10	On door	m2	84		
	Prepare and paint three coats clear varnish:				
2/14/11	On door	m2	20		
	Openied Formand to Open				
	Carried Forward to Summary of Section No. Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 14 Paintwork			R	

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

	SECTION SUMMARY			
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2/5	Roof Coverings	2/15		
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	Carried to Final Summary		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3			
		1	1	II I

Item No		Quantity	Rate	Amount
	SECTION NO. 3			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	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			
	Filling			
	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			
	Excavations measured in successive depths of 2m.			
	SITE CLEARANCE ETC			
	Site clearance			
3/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2 435		
	Carried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks		11	

		Brought Forward			R	
	<u>EXCAVATIONS</u>					
	Excavation in earth not exceeding 2r	n deep				
3/1/2	Trenches	I	m3	109		
	Extra over excavations in earth to tre	enches and				
3/1/3	Excavation in soft rock	I	m3	11		
3/1/4	Excavation in hard rock	1	m3	5		
	CARTING AWAY OF EXCAVATED	MATERIAL				
	Note:					
	Description of carting away of excavate be deemed to include loading excavate trucks directly from the excavations or , from stock piles situated on the building	d material onto alternatively,				
3/1/5	Extra over all excavation for carting awa material from excavation and / or stock dumping site to be located by the Contr	oile on site to a	m3	62		
	RISK OF COLLAPSE OF EXCAVA	<u>TIONS</u>				
	Risk of collapse to side of excavation exceeding 1,5m deep	n in earth not				
3/1/6	Trenches and holes	1	m2	335		
	KEEPING EXCAVATIONS FREE F	ROM WATER				
3/1/7	Keeping excavations free of all water of subterranean water	ther than		Item		
	FILLING, ETC.					
	Earth filling obtained from the excave prescribed stock piles on site comparts Mod AASHTO density in layers not entire the stock piles on the stoc	icted to 93%				
3/1/8	Backfilling to trenches, holes, etc	I	m3	53		
3/1/9	Under floors, steps, pavings, etc		m3	237		
	Section No. 2	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks					

	Brought Forward			R	Π
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
3/1/10	Backfilling to trenches, holes, etc	m3	16		
3/1/11	Under floors, steps, pavings, etc	m3	46		
	Filling supplied by the Contractor under floors, trenches, etc.				
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	46		
	COMPACTION OF SURFACES				
3/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	484		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
3/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	484		
3/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	444		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks				

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	<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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	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)			
	<u>Formwork</u>			
	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 reuse. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	Formwork to 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.			
	Carried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 2 Concrete, Formwork and Reinforcement			

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	Brought Forward			R	,	
	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".					
	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:-					
	 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 					
	Structural Concrete					
	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.					
	GENERAL NOTES TO TENDERERS					
	General notes, described in Bill No.1, shall equally apply to this Bill.					
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
	15Mpa/19mm concrete					
3/2/1	Blinding	m3	5			
	Carried Forward			R		F
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 2 Concrete, Formwork and Reinforcement					
	Concrete, Formwork and Itemiorocinetic					

	Brought Forward			R	
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
3/2/2	Strip footings	m3	27		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
3/2/3	Concrete Apron cast to fall etc,	m3	18		
	25MPa/19mm Concrete				
3/2/4	Surface beds cast in panels	m3	40		
3/2/5	Slabs including beams and inverted beams	m3	1		
	TEST BLOCKS				
	Notes:				
	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)				
3/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	42		
	SUNDRIES TO CONCRETE				
	Surface treatment				
3/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	489		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
3/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	277		
	Rough formwork to soffits				
3/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	5		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
3/2/10	3 x 30mm In saw cut joints in floors	m	19		
	Expansion joints				
3/2/11	10mm soft board or similar approved between concrete and brick wall	m	87		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
3/2/12	All diameter bars	t	2		
	Fabric reinforcement:				
3/2/13	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	305		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK				
	Bill No. 2 Concrete, Formwork and Reinforcement				
	Consiste, Forthwork and Reinforcement				

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	MASONRY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include 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.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Pointing			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	Carried Forward Section No. 3		R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 3 Masonry			

	Brought Forward			R	
	BRICKWORK IN FOUNDATION				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints				
3/3/1	One brick wall	m2	126		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
3/3/2	One brick wall	m2	377		
3/3/3	Half brick wall	m2	127		
3/3/4	Half brick wall, in beamfilling	m2	14		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
3/3/5	340 x 230mm Brick Piers	m3	1		
3/3/6	360 x 230mm Brick Piers	m3	1		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"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				
3/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	252		
3/3/8	Extra over brickwork for face brickwork in superstructure	m2	256		
3/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	41		
3/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	32		
3/3/11	Extra over brickwork for face brickwork to piers	m2	27		
3/3/12	Extra over brickwork for face brickwork in beamfilling	m2	14		
	5				
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 3 Masonry				

	Brought Forward			R		
	BRICKWORK SUNDRIES					
	Brickwork reinforcement					
3/3/13	75mm Wide reinforcement built in horizontally	m	374			
3/3/14	150mm Wide reinforcement built in horizontally.	m	1 857			
	"Allied concrete" or similar approved prestressed fabricated lintels					
3/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	43			
3/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	33			
	Turning pieces					
3/3/17	110mm Wide turning piece to flat brick lintels	m	57			
	Air bricks etc					
3/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4			
	Roof ties					
3/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	76			
	MOVEMENTS JOINTS ETC,					
	Expansion joints					
3/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	18			
						_
	Carried Forward to Summary of Section No.			R		
	Section No. 3 MEDIUM ADMINISTRATION BLOCK					T
	Bill No. 3 Masonry					
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tem No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
3/4/1	Under walls	m2	3		
3/4/2	Under cills, etc.	m2	7		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
3/4/3	Under surface beds.	m2	484		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
3/4/4	3 x 30mm In saw cut joints in floors	m	19		
3/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	87		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 4				
	Waterproofing				

tem No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	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				
3/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	441		
3/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	25		
3/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	39		
3/5/4	550mm girth close cut and mitred Valley gutter, 4 times bent and including soakers, etc	m	9		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 5				
	Roof Coverings				

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
3/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	441		
	Carried Forward to Summary of Section No.		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 5 Roof Coverings			
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Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>Joinery</u>			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Decorative laminate finish			
	Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
	<u>Timber</u>			
	All softwood to be South African Pine			
	<u>Descriptions</u>			
	Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.			
	Carried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery			

Brought Forward	R	
Where the fixing of members is not stated it shall mean the nailing of one timber member to another.		
The term "planted on" shall mean the nailing of one timber member to another		
The term "screwed on" shall mean the countersunk screwing of one timber member to another.		
The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.		
The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.		
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.		
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.		
Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting		
Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.		
Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.		
Carried Forward	R	
Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 6		
Carpentry and Joinery		

	Bro	ought Forward		R	
	ROOFS, ETC				
	Plate nailed timber roof truss constructi	<u>ion</u>			
	The following is applicable in respect of roo	of trusses:			
	All timber to be sawn softwood in accordar M4 as defined in SABS 563 or SABS 1245				
	Metal connector plates shall have a minimus strength of 228 MPa and a minimum ultima strength of 330 Mpa with hot-dip galvanise	ate tensile			
	All joints to be close fitted butt joints.				
	Trusses shall be designed by a register of prefabricated trusses who shall issue Engineers Certificate upon completion cinstallation.	an			
	The dimensions in the descriptions of the are nominal and actual measurements a obtained on site before design or fabric commences.	re to be			
	Tenderers must study the roof plan and attached to the back of these bills of qu must obtain prices from a qualified and roof truss supplier as no claims in this be entertained.	antities and registered			
	Roof trusses				
3/6/1	Design, supply, take delivery, temporary st position and erect plate nailed timber roof to purlins, gang boarding, temporary and perioracing, etc (measured on plan)	trusses,	367		
	Sawn softwood				
3/6/2	38 x 114mm Wall plates	m	92		
	<u>Sundries</u>				
3/6/3	Two coats creosote on sawn timbers	m2	34		
	C	arried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery	ailleu Foiwalu		K	
			Ī	ı	ı I

	Brought Forward			R	
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
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	94		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
3/6/5	914 x 2032mm single door	No	11		
3/6/6	1500 x 2400mm double door	No	2		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
3/6/7	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	32		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery				

Item No		Quantity	Rate	Amount
	BILL NO. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>Fixing</u>			
	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.			
	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			
	Ceilings & Bulkheads			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	Steel components			
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
	Proprietary suspended ceilings			
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations			
	Carried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	П
	-				
	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)				
	Suspension systems				
	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.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	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				
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	284		
	CORNICES				
	"Rhino" plasterboard cornice				
3/7/2	75mm Coved cornice, plugged to brickwork	m	254		
	SUNDRIES				
	Extra over for Trap Doors				
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		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring			K	

	Brought Forward		R	
	CEILING INSULATION			
	Insulation			
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.	284		
	1112	204		
				_
	Carried Forward to Summary of Section No.		R	_
	Section No. 3 MEDIUM ADMINISTRATION BLOCK			
	Bill No. 7 Ceilings, Partitions and Access Flooring			

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	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.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	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			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward Section No. 3		R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled 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				
	Rates The tenderer is to price for supply, taking delivery of,				
	storing and fixing of the ironmongery listed below. DOOR FURNITURE				
	Similar Approved				
	Handles				
3/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)				
		Sets	2.0		
3/8/2	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	11		
	<u>Locks</u>				
3/8/3	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		
3/8/4	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	11		
	Carried Forward Section No. 3			R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery				

	Brought Forward			R	—
3/8/5	SN 66mm five pin Euro-profile double cylinder master keyed (Code: DDC106601 MK)	No	2		
3/8/6	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	11		
3/8/7	NP Rebate conversion kit for Euro-profile locks D036S, D037D (Code: D038R NP)	No	2		
3/8/8	SC heavy duty 150 x 32mm Barrel bolt (Code: BHD 150)	No	2		
3/8/9	SC heavy duty 150 x 32mm Necked barrel bolt (Code: NBHD 150)	No	2		
3/8/10	SC 150mm Cabin hook (Code: CH 150)	No	4		
	Kick and push plates				
3/8/11	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	30		
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	11		
	<u>Door closers</u>				
3/8/13	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	11		
	Sundries				
3/8/14	Male / Female fixing screws (Qty 4 per pack)	Sets	11.0		
3/8/15	NP floor mounted Door stop (Code: DDS-NP-018)	No	11		
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.				
	<u>Approved</u>				
3/8/16	White magnetic boards 3000mm x 1200mm high with aluminium frame plugged @ 1100mm above floor level on centre of the wall	No	5		
	Carried Forward Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 8			R	
	Ironmongery				

	Brought Forward		R	
	SUNDRIES			
	<u>Approved</u>			
3/8/17	"CZ8730SC" Door stop or similarly approved to wall or floors No	26		
				_
	Carried Forward to Summary of Section No. Section No. 3		R	_
	MEDIUM ADMINISTRATION BLOCK Bill No. 8			
	Ironmongery			

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	<u>METALWORK</u>			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>ALUMINIUM</u>			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	<u>SPECIFICATIONS</u>			
	User Note:			
	Glazing			
	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.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	<u>Actuators</u>			
	All rates for shopfronts with actuators to include for the supply and installation of actuators as specified			
	Carried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork			

			1
Scaffolding			
All scaffolding should be provided by th contractor and no claims/ qualifications accepted.			
<u>Protection</u>			
With this tender, the glazing sub-contra a statement concerning protection that to finishes and components until Practic This to include specific references to the removal of such protection. All tenderers to include cost of protection.	will be provided cal Completion. e method of		
<u>Installation</u>			
All measurements to be checked on sit ordering and manufacturing.	e prior to		
Aluminium sections and shop drawings by Architect prior to manufacturing.	to be accepted		
Allow for water and weather proof polys to approved specifications all around fra plaster and other materials.			
<u>Profiles</u>			
Tenderers to provide typical details of paluminium section to be used in the details			
Structural Silicone			
Tenderers to allow a 10 year guarantee powdercoating.	e on all		
Preliminary and Shop Drawings:			
The contractor shall submit preliminary showing basic system sections for the approval.			
After approval and prior to fabrication d drawings shall be prepared and submit Architect for approval.			
Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 9	Carried Forward	R	

		_
Brought Forward	R	_
Fixing:		
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.		
<u>Deflection of structure:</u>		
The contractor is advised to make adequate provision for the design deflection of the structure.		
<u>Tolerances:</u>		
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.		
Protection:		
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.		
Such protection shall only be removed after a written instruction from the Architect.		
Cleaning:		
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.		
Note: All windows and doors should be read in conjunction with window and door schedules		
Carried Forward	R	
Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork		

	В	rought Forward		R	
	WELDED SCREENS, GATES, ETC.				
	Welded MS gate consisting of 50 x 50 x rectangular tubing section frame with a mitre at corners, bolted to reveals with rawlbolts and welded with 50 x 50 x 5m to walls, with 50 x 50 x 2.5mm mild ste tube gate leaf with 45 degree mitre at 0 two 50 x 50 x 2.5mm horizontal section 12mm mild steel vertical style solid sqr 100mm c/c, including 3x pair of 20mm bullet-hinges per gate, with "Solid bles four lever lockset with rebate set, including, holes, bolts etc., all complete a architect's specifications	45 degrees 10mm (10M) nm mild steel el rectangular corners and ns, with 12 x uare bars at diameter bok" 460/313 uding welding,			
3/9/1	Steel gate to door, size 1500mm x 2400m PRESSED STEEL DOOR FRAMES	ım high N	lo :	2	
	1.2mm thick Single rebated frame suitabrick walls, complete with lugs and barred oxide primer factory finish by many	se ties, with			
3/9/2	914 x 2032mm single door	N	lo 1	O	
	1.2mm thick Single rebated frame suitabrick walls, complete with lugs and barred oxide primer factory finish by many	se ties, with			
3/9/3	914 x 2032mm single door	N	lo	1	
3/9/4	1500 x 2400mm double door	N	lo :	2	
	STRONG ROOM DOORS ETC, SUIT 220MM WALLS FIXED TO BRICKWO CONCRETE				
	Similar Approved				
	DS-70mm SABS Category 2 ADM strong 190mm thick and steel frame, 813 x 203 including 8 bolts of 40 diameter-4 from 2x7- lever security keylock, non-deterior insulation material, rust proof undercopainting by contractors, weight- 630 kg	32mm t and 4 back, orating at for final			
3/9/5	Door size 813 x 2032mm	x	lo	1	
	WINDOWS FRAMES, etc.	ľ			
	C	Carried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork				

	Brought Forward			R	—
	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				
3/9/6	Window size 1022 x 900mm high	No	3		
3/9/7	Window size 1022 x 949mm high	No	3		
3/9/8	Window size 2000 x 1170mm high	No	1		
3/9/9	Window size 533 x 950mm high	No	5		
3/9/10	Window size 1511 x 1170mm high	No	14		
	ALUMINIUM WINDOWS, DOORS, ETC				
	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				
3/9/11	Size 1500mm x 2100mm	No	2		
	MESH IN CEILING VOIDS				
	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.				
3/9/12	In Ceiling voids	m2	284		
	FLAG POST				
3/9/13	2 x 15m high flag poles bolted to steel channel (211mm x 100mm) & channel to be anchored in concrete bases		Item		
	Carried Forward to Summary of Section No.			R	_
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork				

Item No		C	Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
3/10/1	30mm Thick on floors and landings	m2	581		
3/10/2	30mm Thick to falls and currents	m2	17		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
3/10/3	On brick walls	m2	692		
3/10/4	On narrow widths	m2	69		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
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	6		
				_	
	Carried Forward to Summary of Section No. Section No. 3			R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 10				

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	<u>TILING</u>			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Pricing			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	Fixing			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.			
	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.			
	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.			
	<u>Wastage</u>			
	Tile wastage in excess of 10% will be for the tenderer's account.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Carried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 11 Tilling			

	Brought Forward			R	
	<u>Note</u>				
	All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	WALL TILING				
	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				
3/11/1	Plastered walls	m2	162		
3/11/2	On narrow widths	m2	16		
3/11/3	Splash backs	m2	1		
	FLOOR TILING				
	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 cementetious grout				
3/11/4	On floors	m2	408		
3/11/5	75mm high skirting	m	372		
	ATTIC STOCK				
3/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	16		
3/11/7	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	41		
	SUNDRIES				
	10mm aluminium straight edge trim				
3/11/8	Dividing strip between tiles and door frames	m	9		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 11 Tiling			,	+

Item No		Quantity	Rate	Amount
	SECTION NO. 3			
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	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.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	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.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Laying, backfilling, bedding, etc., of pipes:			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	Carried Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forwa	ard		R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally appl to this Bill.	у			
	RAINWATER GOODS				
	Similar Approved				
	<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	94		
3/12/2	Extra over eaves gutter for stopped end	No	22		
3/12/3	Extra over eaves gutter for corner	No	48		
3/12/4	Extra over eaves gutter for outlet	No	11		
	Rainwater downpipes				
3/12/5	100mm diameter x 0.6mm thick rainwater downpipe wit 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		38		
3/12/6	Extra over downpipe for offset	No	22		
3/12/7	Extra over downpipe for shoe	No	11		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations	f			
	WASH HAND BASINS				
	Similar Approved				
	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> </u>			
3/12/8	WHB, installed complete	No	3		
	Carried Forwa	ard		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	
	WATER CLOSET				
	Similar Approved				
	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				
3/12/9	WC, installed complete	No	2		
	SINKS, etc.				
	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				
3/12/10	Stainless steel sink, complete.	No	1		
	Concrete double wash trough with outlets and three pedestals (PC allowance of R780.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
	TOILET ROLL HOLDER				
	To be approved by Architect				
3/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls				
		No	2		
	TAPS, VALVES, ETC				
	Similar Approved				
3/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	3		
3/12/13	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	1		
	Section No. 3 MEDIUM ADMINISTRATION BLOCK			R	
	Bill No. 12 Plumbing and Drainage				

	Brought Forward			R		-
	FIRE FIGHTING EQUIPMENT					
	Extinguishers including initial charge and setting up in position:					
3/12/14	9kg dry chemical powder fire extinguisher	No	4			
3/12/15	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2			
	TESTING					
3/12/16	Testing water pipe system		Item			
	BUDGETARY ALLOWANCE					
3/12/17	Allow an amount of R72 500.00 (Seventy Two Thousand Five Hundred) for the supply and installation of Sanitary Fitting Sundries		ltem		72 500.00)
						-
	Carried Forward to Summary of Section No.			R		=
	Section No. 3 MEDIUM ADMINISTRATION BLOCK					
	Bill No. 12 Plumbing and Drainage					
					1	

Item No		C	Quantity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
3/13/1	Panes not exceeding 0.1m2	m2	33		
	6mm obscure floated glass fixed glazing putty				
3/13/2	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	3		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
3/13/3	Mirror 400 x 600 mm high	No	3		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 13				

tem No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
3/14/1	On internal ceilings and cornices	m2	305		
3/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	94		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
3/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	32		
				R	
	Carried Forward			I I	

	Brought Forward			R	Π
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
3/14/4	Plastered walls	m2	692		
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
3/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	29		
3/14/6	On window frames	m2	35		
3/14/7	On door frames	m2	34		
3/14/8	On gutters	m	94		
3/14/9	On downpipes	m	39		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
3/14/10	On door	m2	76		
	Prepare and paint three coats clear varnish:				
3/14/11	On door	m2	27		
	Carried Economy of Section No.			R	_
	Carried Forward to Summary of Section No. Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 14 Paintwork			K	<u></u>

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

	SECTION SUMMARY			
Bill No		Page No		Amount
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3/3	Masonry	3/10		
3/4	Waterproofing	3/11		
3/5	Roof Coverings	3/13		
3/6	Carpentry and Joinery	3/17		
3/7	Ceilings, Partitions and Access Flooring	3/20		
3/8	Ironmongery	3/24		
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3/11	Tiling	3/32		
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3/13	Glazing	3/37		
3/14	Paintwork	3/39		
	Carried to Final Summary Section No. 3 MEDIUM ADMINISTRATION BLOCK		R	

Item No		Qu	antity	Rate	Amount
	SECTION NO. 4				
	BILL NO. 1				
	EARTHWORKS (PROVISIONAL)				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	NOTES				
	Carting away of excavated material				
	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				
	Filling				
	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				
	Excavations measured in successive depths of 2m.				
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
4/1/1	Trenches	m3	27		
	Extra over excavations in earth to trenches and holes for				
4/1/2	Excavation in soft rock	m3	3		
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 1			R	
	Earthworks				

	Brought Forward			R	
4/1/3	Excavation in hard rock	m3	1		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	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.				
4/1/4	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	16		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
4/1/5	Trenches and holes	m2	94		
	KEEPING EXCAVATIONS FREE FROM WATER				
4/1/6	Keeping excavations free of all water other than subterranean water		Item		
	FILLING, ETC.				
	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				
4/1/7	Backfilling to trenches, holes, etc	m3	12		
4/1/8	Under floors, steps, pavings, etc	m3	30		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
4/1/9	Backfilling to trenches, holes, etc	m3	4		
4/1/10	Under floors, steps, pavings, etc	m3	5		
	Filling supplied by the Contractor under floors, trenches, etc.				
4/1/11	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	5		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	
	COMPACTION OF SURFACES				
4/1/12	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	66		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
4/1/13	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	66		
4/1/14	To bottom and sides of excavated trenches, Holes, etc.	m2	122		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 1 Earthworks				

n)		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	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)			
	<u>Formwork</u>			
	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 reuse. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	Formwork to 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.			
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement			

	Brought Forward			R	_
	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".				
	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:- 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 Structural Concrete 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.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
4/2/1	Blinding	m3	1		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
4/2/2	Strip footings	m3	7		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
4/2/3	Concrete Apron cast to fall etc,	m3	3		
	25MPa/19mm Concrete				
4/2/4	Surface beds cast in panels	m3	4		
	TEST BLOCKS				
	Notes:				
	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	7		
	SUNDRIES TO CONCRETE				
	Surface treatment				
4/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	66		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
4/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	67		
	Rough formwork to soffits				
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
4/2/8	10mm soft board or similar approved between concrete and brick wall	m	33		
	Carried Forward			R	
	Section No. 4				
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
4/2/9	All diameter bars	t	1		
	Fabric reinforcement:				
4/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	33		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

m o		Quantity	Rate	Amount
	BILL NO. 3			
	MASONRY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include 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.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Pointing			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 3 Masonry			

	Brought Forward			R	—
	BRICKWORK IN FOUNDATION				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints				
4/3/1	One brick wall	m2	35		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
4/3/2	One brick wall	m2	112		
4/3/3	Half brick wall	m2	34		
4/3/4	Half brick wall, in beamfilling	m2	5		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"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				
4/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	71		
4/3/6	Extra over brickwork for face brickwork in superstructure	m2	95		
4/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	6		
4/3/8	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	6		
4/3/9	Extra over brickwork for face brickwork in beamfilling	m2	5		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
4/3/10	75mm Wide reinforcement built in horizontally	m	98		
4/3/11	150mm Wide reinforcement built in horizontally.	m	536		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 3 Masonry			ĸ	

	Brought Forward			R	Π
	"Allied concrete" or similar approved prestressed fabricated lintels				
4/3/12	100 x 70mm Lintels in lengths not exceeding 3m	m	8		
4/3/13	175 x 70mm Lintels in lengths not exceeding 3m	m	7		
	<u>Turning pieces</u>				
4/3/14	110mm Wide turning piece to flat brick lintels	m	12		
	Air bricks etc				
4/3/15	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	3		
	Fair cutting to face brickwork				
4/3/16	Fair raking cutting at gables	m	35		
	Roof ties				
4/3/17	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	28		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
4/3/18	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	6		
					+
	Carried Forward to Summary of Section No.			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK				
	Bill No. 3 Masonry				

BILL NO. 4				<u> </u>
WATERPROOFING				
<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.				
SUPPLEMENTARY PREAMBLES				
Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
GENERAL NOTES TO TENDERERS				
General notes, described in Bill No.1, shall equally apply to this Bill.				
DAMP PROOFING OF WALLS AND FLOORS				
One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
Under walls	m2	1		
Under cills, etc.	m2	1		
One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
Under surface beds.	m2	66		
JOINTS SEALANTS, ETC.				
Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
10mm Isolation Joints between surface bed concrete and brick wall	m	33		
Carried Forward to Summary of Section No.			R	
Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 4 Waterproofing				
	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. SUPPLEMENTARY PREAMBLES Supplementary preamble items described in Bill No. 1, shall equally apply to this bill. GENERAL NOTES TO TENDERERS General notes, described in Bill No.1, shall equally apply to this Bill. DAMP PROOFING OF WALLS AND FLOORS One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course Under walls Under cills, etc. One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape Under surface beds. JOINTS SEALANTS, ETC. Mastic grey polysulphide sealing compound including raking out of joints filler as necessary 10mm Isolation Joints between surface bed concrete and brick wall Carried Forward to Summary of Section No. Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 4	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. SUPPLEMENTARY PREAMBLES Supplementary preamble items described in Bill No. 1, shall equally apply to this bill. GENERAL NOTES TO TENDERERS General notes, described in Bill No.1, shall equally apply to this Bill. DAMP PROOFING OF WALLS AND FLOORS One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course Under walls	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. SUPPLEMENTARY PREAMBLES Supplementary preamble items described in Bill No. 1, shall equally apply to this bill. GENERAL NOTES TO TENDERERS General notes, described in Bill No.1, shall equally apply to this Bill. DAMP PROOFING OF WALLS AND FLOORS One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course Under walls	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. SUPPLEMENTARY PREAMBLES Supplementary preamble items described in Bill No. 1, shall equally apply to this bill. GENERAL NOTES TO TENDERERS General notes, described in Bill No.1, shall equally apply to this Bill. DAMP PROOFING OF WALLS AND FLOORS One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course Under walls

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	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				
4/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	55		
4/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	9		
4/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	15		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 5				
	Roof Coverings				

	Brought Forward			R	
	<u>LOUVRES</u>				
	Similar Approved				
	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				
4/5/4	Steel triangular louvre, 1600 x 600mm high overall	No	3		
	ROOF AND WALL INSULATION				
	Similar Approved				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
4/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	55		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK BIII No. 5				
	Roof Coverings				

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Joinery			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Decorative laminate finish			
	Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
	<u>Timber</u>			
	All softwood to be South African Pine			
	<u>Descriptions</u>			
	Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.			
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 6 Carpentry and Joinery			

Brought Forward	R	
Where the fixing of members is not stated it shall mean the nailing of one timber member to another.		
The term "planted on" shall mean the nailing of one timber member to another		
The term "screwed on" shall mean the countersunk screwing of one timber member to another.		
The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.		
The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.		
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.		
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.		
Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting		
Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.		
Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.		
Carried Forward	R	
Section No. 4 6 SEATS WATERBORNE TOILET BLOCK		
Bill No. 6		
Carpentry and Joinery		

	Brought Forward			R	
	ROOFS, ETC				
	Plate nailed timber roof truss construction				
	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.				
	Roof trusses				
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	46		
	Sawn softwood				
4/6/2	38 x 114mm Wall plates	m	33		
	Sundries				
4/6/3	Two coats creosote on sawn timbers	m2	12		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 6				
	Carpentry and Joinery				
	Carpornity and contory				

	Brought Forward			R	
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
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	35		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
4/6/6	813 x 2032mm single door	No	6		
4/6/7	914 x 2032mm single door	No	2		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
4/6/8	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	6		
	Carried Forward to Summary of Section No. Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 6 Carpentry and Joinery			R	

m o		Quantity	Rate	Amount
	BILL NO. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	<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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>Fixing</u>			
	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.			
	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			
	Ceilings & Bulkheads			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	Steel components			
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
	Proprietary suspended ceilings			
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations			
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	П
ı	_	1			
	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)				
	Suspension systems				
	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.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	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				
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	21		
	CORNICES				
	"Rhino" plasterboard cornice				
4/7/2	75mm Coved cornice, plugged to brickwork	m	23		
	SUNDRIES				
	Extra over for Trap Doors				
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	2		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 7				
	Ceilings, Partitions and Access Flooring				

	Brought Forward		R	
	CEILING INSULATION			
	<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	21		
	Coming Formulate Community (Co. 1)			
	Carried Forward to Summary of Section No. Section No. 4		R	
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 7 Collings Partitions and Access Flooring			
	Ceilings, Partitions and Access Flooring			

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	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.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	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			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 8 Ironmongery			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled 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 Rates The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	DOOR FURNITURE				
	Similar Approved				
	<u>Handles</u>				
4/8/1	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	6		
	Locks				
4/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	6		
4/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	3		
4/8/4	SC 150mm Cabin hook (Code: CH 150)	No	3		
4/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	6.0		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 8 Ironmongery				

	Brought Forward			R	
	Kick and push plates				
4/8/6	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	18		
4/8/7	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	6		
	Panic hardware				
4/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	3.0		
4/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	3		
	<u>Sundries</u>				
4/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	6.0		
4/8/11	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	6		
	SUNDRIES				
	<u>Approved</u>				
4/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	6		
	Carried Forward to Summary of Section No. Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 8 Ironmongery			R	

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	<u>METALWORK</u>			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	SPECIFICATIONS			
	User Note:			
	Glazing			
	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.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	<u>Actuators</u>			
	All rates for shopfronts with actuators to include for the supply and installation of actuators as specified			
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9 Metalwork			

Scaffolding All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted. Protection 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 ost of protection in tender price. Installation All measurements to be checked on site prior to ordering and manufacturing. Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing. Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials. Profiles Tenderers to provide typical details of proposed aluminium section to be used in the design. Structural Silicone Tenderers to allow a 10 year guarantee on all powdercoating. Proliminary and Shop Drawings: The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect's approval. Carried Forward Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9 Metalwork			
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Tenderers to allow a 10 year guarantee on all powdercoating. Preliminary and Shop Drawings: The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval. Carried Forward R Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9			
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The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval. Carried Forward R Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9			
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Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9	drawings shall be prepared and submitted to the		
Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9			
Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9			
Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9			
6 SEATS WATERBORNE TOILET BLOCK Bill No. 9	Carried Forward	R	
Metalwork	6 SEATS WATERBORNE TOILET BLOCK Bill No. 9		
	Metalwork		

	Brought Forward			F	R	
	Fixing:					
	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.					
	Deflection of structure:					
	The contractor is advised to make adequate provision for the design deflection of the structure.					
	<u>Tolerances:</u>					
	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.					
	Protection:					
	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.					
	Such protection shall only be removed after a written instruction from the Architect.					
	Cleaning:					
	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.					
	Note: All windows and doors should be read in conjunction with window and door schedules					
	PRESSED STEEL DOOR FRAMES]
	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					
4/9/1	813 x 2032mm single door	No	6	5		
	Carried Forward			R		
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9 Metalwork					

	Brought Forward			R	
	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				
4/9/2	914 x 2032mm single door	No	2		
	WINDOWS FRAMES, etc.				
	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				
4/9/3	Window size 1022 x 949mm high	No	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9 Metalwork				

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
4/10/1	30mm Thick on floors and landings	m2	50		
4/10/2	30mm Thick to falls and currents	m2	5		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
4/10/3	On brick walls	m2	173		
4/10/4	On narrow widths	m2	17		
	Coming Forward to Common of Contine No.			R	
	Carried Forward to Summary of Section No. Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 10			K	

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	TILING			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Pricing			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	<u>Fixing</u>			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.			
	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.			
	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.			
	<u>Wastage</u>			
	Tile wastage in excess of 10% will be for the tenderer's account.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 11 Tiling			

	Brought Forward			R	
	<u>Note</u>				
	All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	WALL TILING				
	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				
4/11/1	Plastered walls	m2	92		
4/11/2	On narrow widths	m2	9		
4/11/3	Splash backs	m2	2		
	FLOOR TILING				
	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 cementetious grout				
4/11/4	On floors	m2	55		
4/11/5	75mm high skirting	m	121		
	ATTIC STOCK				
4/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	9		
4/11/7	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	6		
	Carried Forward to Summary of Section No. Section No. 4			R	
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 11 Tiling				
		I	I	II	ļ

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	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.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	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.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Laying, backfilling, bedding, etc., of pipes:			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	<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	12		
4/12/3	Extra over eaves gutter for corner	No	26		
4/12/4	Extra over eaves gutter for outlet	No	6		
	Rainwater downpipes				
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	21		
4/12/6	Extra over downpipe for offset	No	12		
4/12/7	Extra over downpipe for shoe	No	6		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	WASH HAND BASINS				
	Similar Approved				
4/40/0	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				
4/12/8	WHB, installed complete	No	6		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	Γ
	WATER CLOSET				
	Similar Approved				
	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				
4/12/9	WC, installed complete	No	6		
	TOILET ROLL HOLDER				
	To be approved by Architect				
4/12/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls				
		No	6		
	SOAP DISPENSER				
	To be approved by Architect				
4/12/11	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	2		
	PAPER TOWEL DISPENSER				
	To be approved by Architect				
4/12/12	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	1		
	TAPS, VALVES, ETC				
	Similar Approved				
4/12/13	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	6		
	TESTING				
4/12/14	Testing water pipe system		Item		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward		R		
	BUDGETARY ALLOWANCE				
4/12/15	Allow an amount of R161 071.20 (One Hundred and Sixty One Thousand and Seventy One and Twenty) for the supply and installation of Sanitary Fitting Sundries	Item		161 071,2	20
	Carried Forward to Summary of Section No.		R		
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 12				
	Plumbing and Drainage				

Item No		Qı	uantity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
4/13/1	Panes not exceeding 0.1m2	m2	6		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
4/13/2	Mirror 400 x 600 mm high	No	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 4			, iv	
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 13 Glazing				

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
4/14/1	On internal ceilings and cornices	m2	24		
4/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	69		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
4/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	6		
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
4/14/4	Plastered walls	m2	173		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 14 Paintwork				

	Brought Forward			R	
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
4/14/5	On window frames	m2	6		
4/14/6	On door frames	m2	8		
4/14/7	On gutters	m	35		
4/14/8	On downpipes	m	21		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
4/14/9	On door	m2	22		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK				
	Bill No. 14				
	Paintwork				

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

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

Item No		Quantity	Rate	Amount
	SECTION NO. 5			
	BILL NO. 1			
	DEMOLITIONS AND ALTERATIONS			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Subterranean water			
	No subterranean water is expected			
	Excavation for working space in rock			
	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			
	Carting away of excavated material			
	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			
	<u>Filling</u>			
	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			
	Testing			
	Prices for filling are to include for all necessary density tests in accordance with SABS 1200D			
	Carried Forward		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1 Demolitions and Alterations			

Brought Forward	R	
Existing structures		
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		
<u>Services</u>		
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.		
<u>Dust and noise</u>		
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.		
<u>Disposal of debris</u>		
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.		
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		
Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary		
Temporary support to openings through existing walls		
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.		
Carried Forward	R	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1 Demolitions and Alterations		

Brought Forward	R	
Electrical and Mechanical		
Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included.		
GENERAL NOTES TO TENDERERS		
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.		
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.		
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		
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.		
Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.		
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.		
Carried Forward	R	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1 Demolitions and Alterations		

	Brought Forward			R	
	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.				
	REMOVAL OF EXISTING WORK				
	Demolitions of existing structures all complete				
5/1/1	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	243		
	Breaking up/demolishing and removal of walls, slabs, surface beds etc				
5/1/2	100mm thick concrete aprons	m2	528		
5/1/3	25mm thick concrete screed	m2	422		
	Taking down and removing panelling, ceilings, partitions, etc				
5/1/4	Ceiling trap door	No	23		
	Taking out and removing glass and mirrors				
5/1/5	Glass from steel windows including cleaning out rebates and preparing to receive new glass	m2	354		
	Taking up and removing floor coverings carpeting, tiles etc				
5/1/6	Vinyl tile floor covering including preparing screed for new tile flooring	m2	1 461		
	Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)				
5/1/7	813mm x 2032mm high timber door including metal frame, ironmongery etc.	No	55		
	Taking out and removing ironmongery				
5/1/8	Remove all ironmongery to a single door	No	55		
5/1/9	Remove pinning board and make good wall finishes	No	46		
5/1/10	Remove green chalk board and make good wall finishes	No	23		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1				
	Demolitions and Alterations				

ove brass sliding stays, peg stay, handles window nongery ng out and removing piping, sanitary fittings, ncluding disconnecting piping from fittings	No			
	.,,	884		
making good floor and wall finishes (making I tiling and paintwork elsewhere)				
ove wash trough including all fittings and make wall and floor finishes	No	4		
ove water closet with cistern and make good wall loor finishes	No	12		
ove wash hand basin and make good wall finishes	No	8		
ng out and removing sundry joinery work				
er skirting from brickwork	m	958		
ng out and removing metalwork				
rity gate including framing bolted to brickwork and ng good mortar joints between face brickwork	No	27		
ng out and removing roof coverings, roof ssories and rainwater disposal fittings, keeping structure intact				
ove roof sheeting, roof accessories, timber roof ture, ceilings etc.	m2	2 397		
ove steel gutters, keeping barge boards intact	m	534		
ove barge board	m	96		
ove fascia board	m	534		
ove ridge capping, keeping roof covering intact	m	184		
airing cracks				
lastered brick walls	m2	119		
KING GOOD OF FINISHES ETC				
ng good screed				
rs in patches	m2	1 461		
ng good plaster				
plaster in patches	m2	13		
	i		R	
on No. 5 OVATION (12 ENVIROLOOS & 23 CLASSROOMS) o. 1				
on O\ o.	Carried Forward No. 5 /ATION (12 ENVIROLOOS & 23 CLASSROOMS)	Carried Forward No. 5 /ATION (12 ENVIROLOOS & 23 CLASSROOMS) 1	Carried Forward No. 5 /ATION (12 ENVIROLOOS & 23 CLASSROOMS) 1	Carried Forward R No. 5 /ATION (12 ENVIROLOOS & 23 CLASSROOMS) 1

	Brought Forward		R	
	Face bricks			
5/1/25	Clean and treat face bricks with approved oxidation preventative solution m2	3 446		
	REPAIR/MAINTAIN OF EXISTING WORK			
	Enviro-loos			
5/1/26	Clean Enviro-loo septic tank and replace ventilation system	Item		
	Carried Forward to Summary of Section No.		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)			
	Bill No. 1 Demolitions and Alterations			

Item No			Quantity	Rate	Amount
	BILL NO. 2				
	EARTHWORKS (PROVISIONAL)				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	<u>NOTES</u>				
	Carting away of excavated material				
	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				
	Filling				
	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				
	EXCAVATION OTHER THAN BULK, ETC				
	Excavation in earth not exceeding 2m deep				
5/2/1	Trenches	m3	36		
5/2/2	Holes	m3	83		
	Extra over trench and hole excavations in earth for excavation in				
5/2/3	Soft rock	m3	12		
5/2/4	Hard rock	m3	7		
J/ ·	1.0.4 7001	0	(
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 2 Earthworks			IV.	

	Brought Forward			R	
	Extra over all excavations for carting away				
5/2/5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	119		
	Risk of collapse of excavations				
5/2/6	Sides of trench excavations not exceeding 1.5m deep	m2	131		
	Keeping excavations free of water				
5/2/7	Keeping excavations free of water		Item		
	FILLING, ETC.				
	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				
5/2/8	Under floors, steps, pavings, etc	m3	12		
	Selected (G5) layer earth filling supplied by the contractor, compacted in 150mm thick layers, compacted to 93% Mod AASHTO density				
5/2/9	Under floors, steps, pavings, etc	m3	40		
	COMPACTION OF SURFACES				
	Prepare ground surface by scarifying for a depth of 150mm, breaking down oversized material, adding suitable material where necessary and recompacting to 90% modified AASHTO density				
5/2/10	Under floors, steps, paving, etc	m2	696		
	WEED KILLERS, INSECTICIDES, TERMITES,				
	etc. Protection against termites, ants, etc				
5/2/11	Under floors etc including forming and poisoning shallow				
<i>3/2/</i> 11	furrows against foundation walls etc, filling in furrows and ramming	m2	696		
5/2/12	Weedkiller: To bottoms and sides of trenches etc.	m2	176		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 2 Earthworks				

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	<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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	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)			
	<u>Formwork</u>			
	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 reuse. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	Formwork to 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.			
	Carried Forward		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 3 Concrete, Formwork and Reinforcement			

	Brought Forward			R	_
	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".				
	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:- 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 Structural Concrete				
	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.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	10MPa/19mm concrete				
5/3/1	Surface blinding under bases	m3	8		
	Carried Forward Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 3 Concrete, Formwork and Reinforcement			R	_

	Brought Forward			R	Π
	20MPa/19mm concrete				
5/3/2	Footings	m3	66		
5/3/3	Concrete apron, cast to falls	m3	53		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm Concrete				
5/3/4	Ramps	m3	23		
	30MPa/19mm concrete				
5/3/5	Surface beds	m3	8		
5/3/6	Staircases and landings	m3	9		
	TEST BLOCKS				
	Notes:				
	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)				
5/3/7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	80		
	SUNDRIES TO CONCRETE				
	Surface treatment				
5/3/8	Power float top surface of concrete surface bed to a true and even level finish	m2	621		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
5/3/9	Sloping sides of ramps not exceeding 600mm high extreme	m2	62		
5/3/10	Sloping and stepped sides of staircase	m2	9		
5/3/11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	580		
					_
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 3				
	Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	REINFORCEMENT				
	High tensile steel reinforcement				
5/3/12	All diameter bars	t	0.61		
	Fabric reinforcement				
5/3/13	Type 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	75		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 3 Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	BILL NO. 4			
	MASONRY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include 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.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Pointing			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	Carried Forward		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 4 Masonry			

	Brought Forward			R		
	BRICKWORK IN FOUNDATION					
	Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar					
5/4/1	One brick wall	m2	104			
	SUPERSTRUCTURE BRICKWORK					
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints					
5/4/2	Rectangular piers	m3	1			
5/4/3	One brick wall	m2	494			
5/4/4	Half brick wall	m2	7			
	FACE BRICKWORK					
	Bricks shall be ordered timeously to obtain uniformity in size and colour					
	"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					
5/4/5	Extra over brickwork for face brickwork in superstructure	m2	582			
5/4/6	Extra over brickwork for face brickwork to piers	m2	8			
5/4/7	Extra over brickwork for face brickwork in brick-on-edge header coping	m	103			
	BRICKWORK SUNDRIES					
	Brickwork reinforcement					
5/4/8	75mm wide reinforcement built in horizontally	m	22			
5/4/9	150mm wide reinforcement built in horizontally.	m	1 819			
	Carried Forward to Summary of Section No.			R		
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 4 Masonry			K		
		I			II	1

Item No		Quant	ity Rat	е	Amount
	BILL NO. 5				
	WATERPROOFING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
5/5/1	Under walls	m2	20		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 5 Waterproofing				
	waterproofing				

Item No		C	Quantity	Rate	Amount
	BILL NO. 6				
	ROOF COVERINGS				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised pre-painted 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				
5/6/1	Roof sheeting pitch not exceeding 25 degrees	m2	3 116		
5/6/2	550mm girth ridge capping, 3 times bent and notched on site to suit roof profile	m	184		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 6 Roof Coverings				

	Brought Forward			R	Τ
	ROOF AND WALL INSULATION				
	Similar Approved				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
5/6/3	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	3 116		
	Carried Forward to Summary of Section No. Section No. 5			R	<u></u>
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 6 Roof Coverings				

BILL NO. 7 CARPENTRY AND JOINERY			
			1
<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.			
SUPPLEMENTARY PREAMBLES			
Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
GENERAL NOTES TO TENDERERS			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
<u>Fixing</u>			
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
Decorative laminate finish			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
<u>Timber</u>			
All softwood to be South African Pine			
<u>Descriptions</u>			
Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.			
Carried Forward		R	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 7 Carpentry and Joinery			
iiis s s s c Ot s of of of of other or of the second o	In the Model Preambles for Trades (2008 Edition) as saued by the Association of South African Quantity Surveyors before pricing this bill. SUPPLEMENTARY PREAMBLES Supplementary preamble items described in Bill No. 1, shall equally apply to this bill. GENERAL NOTES TO TENDERERS General notes, described in Bill No.1, shall equally apply to this Bill. Joinery Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. Fixing Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete Decorative laminate finish Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish Timber All softwood to be South African Pine Descriptions Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described. Carried Forward Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 7	n the Model Preambles for Trades (2008 Edition) as saued by the Association of South African Quantity Surveyors before pricing this bill. SUPPLEMENTARY PREAMBLES Supplementary preamble items described in Bill No. 1, shall equally apply to this bill. GENERAL NOTES TO TENDERERS General notes, described in Bill No.1, shall equally apply to this Bill. Joinery Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. Fixing Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete Decorative laminate finish Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish Timber All softwood to be South African Pine Descriptions Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described. Carried Forward Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) 3311 No. 7	In the Model Preambles for Trades (2008 Edition) as saued by the Association of South African Quantity Surveyors before pricing this bill. SUPPLEMENTARY PREAMBLES Supplementary preamble items described in Bill No. 1, shall equally apply to this bill. GENERAL NOTES TO TENDERERS General notes, described in Bill No.1, shall equally apply to this Bill. Joinery Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to be lixed with hardened steel nails or shot pins to brickwork or concrete. Fixing Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete Decorative laminate finish Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish Timber All softwood to be South African Pine Descriptions Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described. Carried Forward R Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) 3ill No. 7

	Brought Forward			R	
1	Where the fixing of members is not stated it shall mean the nailing of one timber member to another.				I
	The term "planted on" shall mean the nailing of one timber member to another				Ī
	The term "screwed on" shall mean the countersunk screwing of one timber member to another.				Ī
	The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.				
	The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.				
	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.				
	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.				
	Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting				l
	Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.				ſ
	Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.				ĺ
	ROOFS, ETC				1
	Similar Approved				1
	Roof trusses				1
5/7/1	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	2 397		
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					Ī
	Carried Forward			R	
	Section No. 5				Î.
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 7				Î.
	Carpentry and Joinery				ı

	Brought Forward			R	Τ
	"Everite FC77" fascia and barge boards				
5/7/2	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	534		
5/7/3	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	96		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
5/7/4	813 x 2032mm single door	No	12		
5/7/5	914 x 2032mm single door	No	43		
	Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 7 Carpentry and Joinery			R	

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>Fixing</u>			
	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.			
	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			
	Ceilings & Bulkheads			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	Steel components			
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
	Proprietary suspended ceilings			
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations			
	Carried Forward		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 8			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	
	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)				
	Suspension systems				
	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.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	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				
5/8/1	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	2 397		
5/8/2	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	23		
	CORNICES				
	Similar Approved				
	"Rhino" plasterboard cornice				
5/8/3	75mm Coved cornice, plugged to brickwork	m	1 265		
					_
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)				
	Bill No. 8 Ceilings, Partitions and Access Flooring				
	Somings, I diditions and 7,00000 I looming				

	Brought Forward			R	
	CEILING INSULATION				
	<u>Insulation</u>				
5/8/4	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	2 397		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)				
	Bill No. 8 Ceilings, Partitions and Access Flooring				

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	IRONMONGERY			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	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.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	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			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9 Ironmongery			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:				
	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				
	Rates				
	The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.				
	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				
5/9/1	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	46		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray				
5/9/2	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	46		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9 Ironmongery				

	Brought Forward			R	
	DOOR FURNITURE				
	Similar Approved				
	<u>Handles</u>				
5/9/3	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	12		
5/9/4	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	16		
	<u>Locks</u>				
5/9/5	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	12		
5/9/6	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	16		
5/9/7	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	43		
5/9/8	SC 150mm Cabin hook (Code: CH 150)	No	27		
5/9/9	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	12		
	Kick and push plates				
5/9/10	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	110		
5/9/11	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	12		
5/9/12	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	16		
	Panic hardware				
5/9/13	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	27		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9 Ironmongery				

Brought Forward			R		
Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	27			
Door closers					
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	16			
<u>Sundries</u>					
Male / Female fixing screws (Qty 4 per pack)	Sets	28			
SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	12			
NP floor mounted Door stop (Code: DDS-NP-018)	No	16			
WINDOW FURNITURE					
Similar Approved					
Brass spring catch	No	68			
Brass peg stay	No	408			
Brass handle	No	408			
Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9			R		
	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901) Door closers 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) Sundries Male / Female fixing screws (Qty 4 per pack) SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B) NP floor mounted Door stop (Code: DDS-NP-018) WINDOW FURNITURE Similar Approved Brass spring catch Brass peg stay Brass handle Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901) Door closers 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 Sundries Male / Female fixing screws (Qty 4 per pack) Sets SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B) NP floor mounted Door stop (Code: DDS-NP-018) WINDOW FURNITURE Similar Approved Brass spring catch No Brass peg stay No Brass handle Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901) Door closers 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 16 Sundries Male / Female fixing screws (Qty 4 per pack) Sets 28 SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B) No 12 NP floor mounted Door stop (Code: DDS-NP-018) WINDOW FURNITURE Similar Approved Brass spring catch No 68 Brass peg stay No 408 Brass handle No 408 Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901) Door closers 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) Male / Female fixing screws (Qty 4 per pack) Sets 28 SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B) No 12 NP floor mounted Door stop (Code: DDS-NP-018) No 16 WINDOW FURNITURE Similar Approved Brass spring catch No 68 Brass peg stay No 408 Brass handle No 408 Carried Forward to Summary of Section No. R Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901) Door closers Non hold open cam action slide channel door closer for 950mm maximum door width, with closing force EN 3, with hydralicis speed control, with pull-side door leaf fixing (standard) and push-side transom fixing (Colour: Silver) (Code: TS91B) Male / Fernale fixing screws (City 4 per pack) Sets 28 SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B) No 12 NP floor mounted Door stop (Code: DDS-NP-01B) WINDOW FURNITURE Similar Approved Brass spring catch Brass peg stay No 408 Brass handle No 408 Carried Forward to Summary of Section No. R Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9

Item No		Quantity	Rate	Amount
	BILL NO. 10			
	METALWORK			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>ALUMINIUM</u>			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	SPECIFICATIONS			
	User Note:			
	Glazing			
	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.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	<u>Actuators</u>			
	All rates for shopfronts with actuators to include for the supply and installation of actuators as specified			
	Carried Forward		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10 Metalwork			

Brought Forward	R	
Scaffolding		
All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.		
<u>Protection</u>		
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.		
Installation		
All measurements to be checked on site prior to ordering and manufacturing.		
Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing.		
Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.		
<u>Profiles</u>		
Tenderers to provide typical details of proposed aluminium section to be used in the design.		
Structural Silicone		
Tenderers to allow a 10 year guarantee on all powdercoating.		
Preliminary and Shop Drawings:		
The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.		
After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.		
Carried Forward	R	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10 Metalwork		

Brought Forward	R	
Fixing:		
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.		
<u>Deflection of structure:</u>		
The contractor is advised to make adequate provision for the design deflection of the structure.		
Tolerances:		
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.		
Protection:		
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.		
Such protection shall only be removed after a written instruction from the Architect.		
Cleaning:		
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.		
Note: All windows and doors should be read in conjunction with window and door schedules		
Carried Forward	R	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10 Metalwork		

	Brought Forward			R	
	WELDED SCREENS, GATES, ETC.				
	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				
5/10/1	Steel gate to door, size 813mm x 2032mm high	No	27		
	Welded MS screen consisting of 10mm diameter bars, all complete as per the architect's specifications				
5/10/2	Steel screen to window, size 1200 x 1300mm high	No	160		
5/10/3	Steel screen to window, size 1000 x 600mm high	No	4		
5/10/4	Steel screen to window, size 500 x 600mm high	No	12		
	PRESSED STEEL DOOR FRAMES 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				
5/10/5	813 x 2032mm single door	No	12		
5/10/6	914 x 2032mm single door	No	43		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10 Metalwork				

			Quantity	Rate	Amount
	BILL NO. 11				
	PLASTERING				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
5/11/1	30mm thick on floors and landings	m2	1 883		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
5/11/2	On brick walls	m2	402		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 11 Plastering				

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	TILING			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Pricing			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	<u>Fixing</u>			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.			
	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.			
	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.			
	<u>Wastage</u>			
	Tile wastage in excess of 10% will be for the tenderer's account.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Carried Forward		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 12 Tiling			

	Brought Forward			R	
	<u>Note</u>				
	All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	FLOOR TILING				
	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 cementetious grout				
5/12/1	On floors	m2	1 504		
5/12/2	75mm high skirting	m	1 048		
	ATTIC STOCK				
5/12/3	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	150		
	SUNDRIES				
	10mm aluminium straight edge trim				
5/12/4	Dividing strip between tiles and door frames	m	25		
	25 x 25mm aluminium angle				
5/12/5	Trim to edge of concrete, to be secured with screws	m	21		
	Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 12 Tilling			R	_

tem No		Quantity	Rate	Amount
	BILL NO. 13			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	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.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	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.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Laying, backfilling, bedding, etc., of pipes:			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	Carried Forward		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 13 Plumbing and Drainage			

	Brought Forward			R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	<u>Gutters</u>				
5/13/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	534		
5/13/2	Extra over eaves gutter for outlet	No	28		
	Rainwater downpipes				
5/13/3	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	120		
5/13/4	Extra over rainwater pipe for offset	No	52		
5/13/5	Extra over rainwater pipe for shoe	No	28		
5/13/6	Extra over rainwater pipe for bend	No	40		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	WASH HAND BASINS				
	Similar Approved				
	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				
5/13/7	WHB, installed complete	No	8		
	Carried Forward Section No. 5			R	
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 13 Plumbing and Drainage				

	Brought Forward			R	Π
	WATER CLOSET				
	Similar Approved				
	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				
5/13/8	WC, installed complete	No	12		
	SINKS, etc.				
	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				
5/13/9	Wash trough, installed complete	No	4		
	TOILET ROLL HOLDER				
	To be approved by Architect				
5/13/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	12		
	TAPS, VALVES, ETC				
	Similar Approved				
5/13/11	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	20		
	<u>TANKS</u>				
	Similar Approved				
5/13/12	1900mm dia. x 2040mm high 2500L JoJo water storage tank (Colour: JoJo Green), installed on a brick base with compacted fill (measured elsewhere)	No	12		
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
5/13/13	9kg dry chemical powder fire extinguisher	No	23		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 13 Plumbing and Drainage			•	

	Brought Forward		R	
5/13/14	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No 6		
	TESTING			
5/13/15	Testing water pipe system	Item		
	BUDGETARY ALLOWANCE			
5/13/16	Allow an amount of R150 456.96 (One Hundred and Fifty Thousand Four Hundred and Fifty Six and Ninety Six) for the supply and installation of Sanitary Fitting Sundries	Item		150 456.96
	Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 13 Plumbing and Drainage		R	

Item No		1	Quantity	Rate	Amount
	BILL NO. 14				
	<u>GLAZING</u>				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
5/14/1	Panes not exceeding 0.1m2	m2	348		
5/14/2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	6		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
5/14/3	Mirror 400 x 600 mm high	No	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 14				

Item No			Quantity	Rate	Amount
	BILL NO. 15				
	PAINTWORK				
	PREAMBLES				
	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.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK TO PREVIOUS PAINTED				
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats super Acrylic PVA paint or similar approved, colour to be confirmed by Architect				
5/15/1	On walls	m2	2 630		
	METAL SURFACES				
	Similar Approved				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by Architect				
5/15/2	On window frames	m2	709		
5/15/3	On roof ridge	m2	101		
5/15/4	On steel columns	m2	77		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 15				

	Brought Forward			R	
	PAINTWORK ETC TO NEW WORK				
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats super Acrylic PVA paint or similar approved, colour to be confirmed by Architect				
5/15/5	On walls	m2	402		
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by Architect				
5/15/6	On internal ceilings and cornices	m2	2 506		
5/15/7	Fibre cement fascia/barge boards	m2	332		
	METAL SURFACES				
	Similar Approved				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by Architect				
5/15/8	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	600		
5/15/9	On gutters	m	534		
5/15/10	On door frames	m2	166		
5/15/11	On downpipes	m	28		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by Architect				
5/15/12	On door	m2	211		
	BRICKWORK				
	Similar Approved				
	Three coats brick dressing				
5/15/13	On face brickwork	m2	3 446		
				_	
	Carried Forward to Summary of Section No. Section No. 5			R	-
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 15 Paintwork				

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

	SECTION SUMMARY			
Bill No		Page No		Amount
5/1	Demolitions and Alterations	5/6		
5/2	Earthworks	5/8		
5/3	Concrete, Formwork and Reinforcement	5/12		
5/4	Masonry	5/14		
5/5	Waterproofing	5/15		
5/6	Roof Coverings	5/17		
5/7	Carpentry and Joinery	5/20		
5/8	Ceilings, Partitions and Access Flooring	5/23		
5/9	Ironmongery	5/27		
5/10	Metalwork	5/31		
5/11	Plastering	5/32		
5/12	Tiling	5/34		
5/13	Plumbing and Drainage	5/38		
5/14	Glazing	5/39		
5/15	Paintwork	5/41		
	Carried to Final Summary		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)			

Item No		Quantity	Rate	Amount
	SECTION NO. 6			
	BILL NO. 1			
	BUDGETARY ALLOWANCES			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Provisional Sums are to be expended/utilized only upon:			
	·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.			
	Cash discount			
	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			
	Carried Forward Section No. 6 PROVISIONAL SUMS		R	
	Bill No. 1 Budgetary Allowance			

	Brought Forward		R	
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	General attendance on nominated/selected subcontractors			
	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:			
	Builder's work			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	LOCAL AUTHORITY FEES			
	Local authority fees for connections			
6/1/1	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
	Relocation of mobiles			
6/1/2	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. 6 PROVISIONAL SUMS Bill No. 1		R	
	Budgetary Allowance			

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	PROVISIONAL SUMS			
	PREAMBLES			
	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.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill			
	Provisional Sums are to be expended/utilized only upon:			
	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.			
	<u>Cash discount</u>			
	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			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	Carried Forward		R	
	Section No. 6 PROVISIONAL SUMS Bill No. 2 Provisional Sums			

	Brought Forward		R	
	General attendance on nominated/selected subcontractors			
	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:			
	Builder's work			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	Signage Installation			
6/2/1	Allow an amount of R113 050.00 (One Hundred and Thirteen Thousand and Fifty) for the supply and installation of Signage	Item		113 050 00
6/2/2	Attendance		%	
6/2/3	Profit		%	
	Joinery Fittings			
6/2/4	Allow an amount of R83 310.00 (Eighty Three Thousand Three Hundred and Ten) for the supply and installation of Joinery Fittings	Item		83 310.00
6/2/5	Attendance		%	
6/2/6	Profit		%	
	School Furniture and Fittings			
6/2/7	Allow an amount of R20 000.00 (Twenty Thousand) for the supply and installation of School Furniture and Fittings	Item		20 000 00
6/2/8	Attendance		%	
6/2/9	Profit		%	
	Carried Forward Section No. 6 PROVISIONAL SUMS Bill No. 2 Provisional Sums		R	

	Brought Forward		R	
	Community Liaison Officer			
6/2/10	Allow an amount of R200 000.00 (Two Hundred Thousand) for provision of Community Liaison Officer	Item		200 000.00
6/2/11	Attendance		%	
6/2/12	Profit		%	
	Project Steering Committee			
6/2/13	Allow an amount of R40 000.00 (Forty Thousand) for provision of Project Steering Committee	Item		40 000 00
6/2/14	Attendance		%	
6/2/15	Profit		%	
	Health and Safety Agent			
6/2/16	Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of Health and Safety Agent	Item		500 000.00
6/2/17	Attendance		%	
6/2/18	Profit		%	
	Carried Forward to Summary of Section No.		R	
	Section No. 6 PROVISIONAL SUMS		``	
	Bill No. 2 Provisional Sums			
	i Tovisional Guins			

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

Bill No 6/1 Budgetary Allowance 6/2 6/2 6/2		SECTION SUMMARY				
6/2 Provisional Sums 6/5 Range of the state	Bill No			Page No		Amount
Carried to Final Summary R	6/1	Budgetary Allowance		6/2		
Section No. 6	6/2	Provisional Sums		6/5		
Section No. 6						
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PROVISIONAL SUMS		Section No. 6	Carried to Final Summary		R 	
		PROVISIONAL SUMS				

ELECTRICAL INSTALLATION

MV Reticulation

ltem	Description	Unit	Quantity	Rate	Amount
1	Provide the sum of R 235 545,80 for Installation of MV RETICULATION	Item	1		
	Contractors Markup	Item	0,1		
	Contractors Attendance	Item	0,05		
Total for	installation Carried to Summary of Cost (Excl.VAT)				

ELECTRICAL INSTALLATION

Internal Installation

LV Reticulation

Item	Description	Unit	Quantity	Rate	Amount
1	Excavation and Trenching				
	General trenching workfor 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.				
1,1	Excavation and backfilling in soft soil	m³	180		
1.2.	Excavation and backfilling in hard rock-supply cable	m³	90		
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				
2,1	110mm Diameter for power cable	m	200		
	Radius bends:				
2,3	110mm Diameter	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward		.				
3	Kiosk Supply and install kiosk as per drawings, complete with breakers						
3,1	Main Kiosk	each	1				
4	Low Voltage PVC Cables						
	Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches						
4,1	16mm ² 4 core PVC SWA Cable	m	300				
4,2	16mm ² 2 core PVC SWA Cable	m	1200				
4,3	16mm ² BCEW	m	1500				
5	Treminations:						
5,1	16mm ² 4 core PVC SWA Cable	No	2				
5,2	16mm ² 2 core PVC SWA Cable	No	10				
5,3	16mm ² BCEW	No	20				
6	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
6,1	Kiosks	Sum	1				
7	<u>Others</u>						
7,1	Conctrete cable markers	each	60				
7,2	Danger Tape	m	1500				
Total fo	Fotal for internal installation Carried to Summary of Cost (Excl.VAT)						

ELECTRICAL INSTALLATION

Block A - Administration Block

ltem	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	15		
1,2	110mm Diameter for power cable	m	15		
	Radius bends:				
1,3	75mm Diameter	No	2		
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	500		
3	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				
3,1	SU 2 Distribution board	No	1		
4	Conduit Work				
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
4,1	20mm PVC Conduit	m	900		
4,2	25mm PVC Conduit	m	600		

ltem	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
4,3	20mm PVC Conduit	m	300		
4,4	25mm PVC Conduit	m	200		
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.				
5,1	20mm diameter 4 way type(round box)	No	55		
6	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:				
6,1	100 x 50 x 50mm	No	8		
6,2	100 x 100 x 50mm	No	24		
7	PVC Wiring				
	PVC Wiring in conduits:				
7,1	2.5mm² for lights circuits	m	2000		
7,2	4mm² for plug sockets circuits	m	1000		
7,3	6,0 mm² for plug sockets circuits	m	500		
8	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.				
8,1	2.5mm²	m	1000		
8,2	4mm²	m	500		
8,3	6mm²	m	250		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward		T		
9	<u>Light Switches</u>				
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
9,1	1 Lever 1 way	No	8		
9,2	2 Lever 2 way	No	2		
10	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:				
10,1	16A SA/Euro combined socket outlet	No	8		
11	Light Fittings				
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted				
	manufacture.				
11,1	Ceiling mounted fitting 2x18W CFL - Interior	No	2		
11,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
11,3	1200mm Open channel Fluorescent fitting 2x49W	No	2		
11,4	1200x600 Recessed Flourescent 3x28W LBR	No	24		
11,5	1200mm Open channel Fluorescent fitting 2x28W	No	2		
11,6	1x18W CFL circular downlighters	No	8		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
12	Electrical Tests				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
12,1	Building installation	Sum	1		
13	<u>Others</u>				
13,1	300 x 300mm - Telephone DB	No	1		
13,2	100 x 100 x 50mm - Draw box for Communication complete with blank cover	No	1		
13,2	Power Skirting 2 compartment c/w divider	m	40		
13,3	Telephone points	No	8		
13,4	Data points	No	8		
13,5	20A Isolator	No	4		
13,6	30A Isolator points	No	2		
13,7	40A Isolator points	No	2		
14	Lightning Protection				
14,1	1,5m earth spike complete with clamps	No	4		
14,2	35mm² Bare copper earth wire	m	40		
14,3	Testing and installation of installation	Sum	1		
15	Provisional Sum				
15.1.1	Internet WI-FI	Prov Sum	1		
	Overhead, charges and profit on item 15.1.1	%	0		
15.1.2	Public Address	Prov Sum	1		
	Overhead, charges and profit on item 15.1.2	%	0		

ELECTRICAL INSTALLATION

Block Ex-C1 - 3 Classoom Block

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	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:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	500		
6,2	4mm² for plug sockets circuits	m	250		
7	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.				
7,1	2.5mm²	m	250		
7,2	4mm²	m	125		
	Sub Total Carried Forward				

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

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	<u>Other</u>						
12,1	1,5m earth spike complete with clamps	No	4				
12,2	35mm² Bare copper earth wire	m	40				
12,3	Testing and installation of installation	Sum	1				
Total for in	Fotal for internal installation Carried to Summary of Cost (Excl.VAT)						

ELECTRICAL INSTALLATION

Block Ex-C2 - 4 Classroom Block with Stores

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	Draw Wires				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	<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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	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:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	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.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u>				
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	10		
9	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:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	<u>Light Fittings</u>				
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	24		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	<u>Other</u>						
12,1	1,5m earth spike complete with clamps	No	4				
12,2	35mm² Bare copper earth wire	m	40				
12,3	Testing and installation of installation	Sum	1				
Total for in	otal for internal installation Carried to Summary of Cost (Excl.VAT)						

ELECTRICAL INSTALLATION

Block Ex-C3 - 4 Classroom Block with Stores

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	Draw Wires				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	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:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	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.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	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 measured elsewhere.				
8,1	1 Lever 1 way	No	10		
9	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:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	Light Fittings				
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	24		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	<u>Other</u>						
12,1	1,5m earth spike complete with clamps	No	4				
12,2	35mm² Bare copper earth wire	m	40				
12,3	Testing and installation of installation	Sum	1				
Total for in	Total for internal installation Carried to Summary of Cost (Excl.VAT)						

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ELECTRICAL INSTALLATION

Block Ex-C4 - 4 Classroom Block with Stores

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	<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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
	25mm PVC Conduit	m	200		

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	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:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	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.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u>				
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	10		
9	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:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	Light Fittings				
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	24		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	Other_						
12,1	1,5m earth spike complete with clamps	No	4				
12,2	35mm² Bare copper earth wire	m	40				
12,3	Testing and installation of installation	Sum	1				
Total for in	otal for internal installation Carried to Summary of Cost (Excl.VAT)						

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Block Ex-C5 - 4 Classroom Block

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	Draw Wires				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	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:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	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.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	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 measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	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:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	Light Fittings				
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	<u>Other</u>						
12,1	1,5m earth spike complete with clamps	No	4				
12,2	35mm² Bare copper earth wire	m	40				
12,3	Testing and installation of installation	Sum	1				
Total for in	otal for internal installation Carried to Summary of Cost (Excl.VAT)						

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Block Ex-C6 - 4 Classroom Block with Stores

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward	l			

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	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:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	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.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u>				
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	10		
9	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:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	Light Fittings				
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	24		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	Other_						
12,1	1,5m earth spike complete with clamps	No	4				
12,2	35mm² Bare copper earth wire	m	40				
12,3	Testing and installation of installation	Sum	1				
Total for in	otal for internal installation Carried to Summary of Cost (Excl.VAT)						

ELECTRICAL INSTALLATION

Block Ex-T1 - 4 Seater Toilets

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	<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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
	25mm PVC Conduit	m	50		

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	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:				
5,1	100 x 50 x 50mm	No	2		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	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.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	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 measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	<u>Light Fittings</u>				
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	<u>Other</u>						
12,1	1,5m earth spike complete with clamps	No	2				
12,2	35mm² Bare copper earth wire	m	20				
12,3	Testing and installation of installation	Sum	1				
Total for in	Total for internal installation Carried to Summary of Cost (Excl.VAT)						

ELECTRICAL INSTALLATION

Block Ex-T2 - 8 Seater Toilets

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	40		
3	<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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	100		
3,3	25mm PVC Conduit	m	100		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward	1			
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	40		
3,5	25mm PVC Conduit	m	40		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	24		
5	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:				
5,1	100 x 50 x 50mm	No	4		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	200		
7	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.				
7,1	2.5mm²	m	100		
7,2	4mm²	m	0		

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u>				
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	4		
9	Light Fittings				
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	16		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	12		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount	
	Sub Total Brought Forward					
11	Electrical Tests					
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.					
11,1	Building installation	Sum	1			
12	<u>Other</u>					
12,1	1,5m earth spike complete with clamps	No	2			
12,2	35mm² Bare copper earth wire	m	20			
12,3	Testing and installation of installation	Sum	1			
Total for in	otal for internal installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION

Block X1- 4 Seater Toilets

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	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:				
5,1	100 x 50 x 50mm	No	2		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	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.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	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 measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	<u>Light Fittings</u>				
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		

Item	Description	Unit	Quantity	Rate	Amount	
	Sub Total Brought Forward					
11	Electrical Tests					
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.					
11,1	Building installation	Sum	1			
12	<u>Other</u>					
12,1	1,5m earth spike complete with clamps	No	2			
12,2	35mm² Bare copper earth wire	m	20			
12,3	Testing and installation of installation	Sum	1			
Total for ir	otal for internal installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION

Block X2- 4 Seater Toilets

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	<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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	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:				
5,1	100 x 50 x 50mm	No	2		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	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.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	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 measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	<u>Light Fittings</u>				
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	<u>Other</u>						
12,1	1,5m earth spike complete with clamps	No	2				
12,2	35mm² Bare copper earth wire	m	20				
12,3	Testing and installation of installation	Sum	1				
Total for in	Fotal for internal installation Carried to Summary of Cost (Excl.VAT)						

ELECTRICAL INSTALLATION

Block X3-4 Seater Toilets

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	<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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	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:				
5,1	100 x 50 x 50mm	No	2		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	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.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u>				
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	<u>Light Fittings</u>				
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	<u>Other</u>						
12,1	1,5m earth spike complete with clamps	No	2				
12,2	35mm² Bare copper earth wire	m	20				
12,3	Testing and installation of installation	Sum	1				
Total for in	Total for internal installation Carried to Summary of Cost (Excl.VAT)						

LIMPOPO: PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation

Block Z - 10 Seat Enviroloo

Item	Description	Unit	Quantity	Rate	Amount
1	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				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	20		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	4		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	2030		
3	<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 internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	60		
3,3	25mm PVC Conduit	m	60		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	30		
3,5	25mm PVC Conduit	m	30		
4	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.				
4,1	20mm diameter 4 way type(round box)	No	16		
5	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:				
5,1	100 x 50 x 50mm	No	2		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	120		
7	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.				
7,1	2.5mm²	m	60		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u>				
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	<u>Light Fittings</u>				
	Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	14		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount		
	Sub Total Brought Forward						
11	Electrical Tests						
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.						
11,1	Building installation	Sum	1				
12	<u>Other</u>						
12,1	1,5m earth spike complete with clamps	No	2				
12,2	35mm² Bare copper earth wire	m	20				
12,3	Testing and installation of installation	Sum	1				
Total for in	otal for internal installation Carried to Summary of Cost (Excl.VAT)						

Internal Installation

PUBLIC ADDRESS

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

Area Lighting

Item	Description	Unit	Quantity	Rate	Amount
1	Public Lighting				
1,1	1 x 57W CFL Post top fitting with electronic gear. To be approved by the Engineer.	No.	25		
1,2	3m galvanised steel poles	No.	25		
1,3	Excavation and backfilling in soft soil	m³	3,6		
1,4	Excavation and backfilling in hard rock	m³	18		
1,5	6mm² 4 core PVC SWA Cable	m	500		
1,6	6mm ² BCEW	m	500		
	Treminations:				
1,8	6mm² 4 core PVC SWA Cable	No	20		
1,9	6mm ² BCEW	No	20		
1,10	Electrical Danger tape	m	500		
Total for	internal installation Carried to Summary of Cost (Excl.VAT))			

Internal Installation

HVAC

Item	Description	Unit	Quantity	Rate	Amount
	HVAC				
1	Provide the sum of R 305 790 for Installation of HVAC	Item	1		
	Contractors Markup	Item			
	Contractors Attendance	Item			
Total for	installation Carried to Summary of Cost (Excl.VAT)				

Internal Installation

ICT

Item	Description	Unit	Quantity	Rate	Amount
	ІСТ				
1	Provide the sum of R288968,40 for Installation of ICT and related accessories in the administration block	Item	1		
	Contractors Markup	Item			
	Contractors Attendance	Item			
Total for	installation Carried to Summary of Cost (Excl.VAT)				

NKGONYELETSE SECONDARY SCHOOL ELECTRICAL WORKS

ITEM	DESCRIPTION	AMOUNT
1	MV Reticulation	
2	LV Reticulation	
3	Block A - Administration Block	
4	Block Ex-C1 - 3 Classroom Block	
5	Block Ex-C2 - 4 Classroom Block with Stores	
6	Block Ex-C3 - 4 Classroom Block with Stores	
7	Block Ex-C4 - 4 Classroom Block with Stores	
8	Block Ex-C5 - 4 Classroom Block	
9	Block Ex-C6 - 4 Classroom Block with Stores	
10	Block Ex-T1 - 4 Seater Toilets	
11	Block Ex-T2 - 8 Seater Toilets	
12	Block X01 - 4 Seater Toilets	
13	Block X02 - 4 Seater Toilets	
14	Block X03 - 4 Seater Toilets	
15	Block Z01- 10 Seater Mixed Toilets	
13	Public Address	
17	Area Lighting	
18	HVAC	
19	ICT	
	TOTAL CARRIED TO FINAL SUMMARY	

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	1	70		SECTION NO. 3				
3 3	1	70 70		BILL NO.1 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.				
				The section of County and County County of County of County and Co				
3	1	70		SUPPLEMENTARY PREAMBLES	H4			
3	1	70		Items, materials or methods	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		WORK GROUP 102	H4			
3	1	70		SITE CLEARANCE	H2			
3	1	70	2	Digging up and removing rubbish, debris, vegetation, hedges,	m2	35 895		
				shrubs and trees not exceeding 200mm girth, bush, etc				
3	1	70		Extra over all excavations for carting away	H3			
		70	,			7 179		
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	7 179		
3	1	70		<u>EARTHWORKS</u>	H2			
3	1	70		Bulk excavation	Н3			
3	1	70	4	Excavate in all materials and use for	m3	1 795		
				embankment or fill or dispose, as ordered				
3	1	70		Extra-over for	Н3			
3	1	70	5	Intermediate for excavation	m3	449		
3	1	70	6	Hard rock excavation	m3	90		
3	1	70		Restricted Excavation	Н3			
3	1	70	7	Excavate for restricted pipe trenches in all	m3	0		
				A.2.4 materials and use for backfill or dispose		-		
				Imment OF on hotton meetanic life and the Occurrence !!	110			
3	1	71		Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted	H3			
				to 95% of modified AASHTO maximum density				
3	1	71	8	150mm thick	m3	1 795		
3	1	71	9	Overhaul	m.km	8 974		
					_			
3	1	71		LOFFELSTEIN RETAINING WALLS	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			
				I DOEN LAIN ITIMONING	<u> 31</u>			

ı	Ī	ı '	1	ı	, ,	, ,
3	2 2	73 73	SECTION NO. 3 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	SUPPLEMENTARY PREAMBLES	H4		
3	2	73	Items, materials or methods	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	uPVC Pressure pipes and fittings	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	Copper pipes	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	Lead pipes and traps	H4		
3	2	73	All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel			
3	2	74	Reducing fittings	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	Steel sectional water tanks	H4		
3	2	74	Tanks shall comply with SABS CKS 114			
3	2	74	WORK GROUP 104	H4		
3	2	74	EARTHWORKS (PIPE TRENCHES)	H2		
3	2	74	Site clearance and removal of topsoil	Н3		
3	2	74	Clear vegetation and small trees/shrubs up 2m	m	1 050	
			wide			

	1			T				
3	2	74		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for water pipes up to 90mm in diameter for depths:	H2			
				pipes up to 90mm in diameter for depths:		4.050		
3	2	74	2	From 0m Up to 1.5m	m	1 050		
3	2	74		Extra-over item (a) above for:	Н3			
3	2	74	3	Intermidiate excavation	m3	189		
3	2	74	4	Hard rock excavation	m3	28		
3	2	74		Extra over all excavations for carting away	Н3			
3	2	74	5	Surplus material from trench excavations to a dumping site to be located by the Contractor	m3	58		
3	2	74		Excavation ancillaries	Н3			
3	2	74		Make up deficiency in backfill material	Н3			
3	2	74	6	From other necessary excavations on site	m3	58		
3	2	74	7	By importation from designated borrow pits	m3			
3	2	74	8	Compaction in road reserves	m			
		, ,	O	Compaction in road reserves				
3	2	74		WORK GROUP 148	H4			
3	2	74		MEDIUM PRESSURE PIPELINES	H2			
3	2	74		Supply, lay and bed pipes complete with couplings	Н3			
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	630		
3	2	74	15	90mm diameter uPVC Class 12 pipes	m	420		
3	2	74	16	65mm Pressure Reducing Valve	No			
3	2	74	17	75mm Pressure Reducing Valve	No			
3	2	74		BEDDING (PIPES)	H2			
3	2	74		Provision of Bedding from Trench Excavation	Н3			
3	2	74	18	Selected granular material	m3	378		
3	2	74	19	Selected fill material	m3	630		
3	2	74		ELEVATED STEEL TANK PLUS STAND	H2			
3	2	75		The following in sectional steel water tanks and bases	Н3			
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 100KL 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		75 mm diam. Gate valve	No	2		
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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/	m2	60	
				slab			
3	2	75	31	Supply and install a 5mm (1000 x 1000) Vastrap plate cover and frame for the openning in the reservoir roof	m2	0	
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		<u>TESTING</u>	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	НЗ		
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	3	77 77		BILL NO.3 SEWER RETICULATION			
3	3	77		<u>Preambles</u>	H4		
3	3			Madal Dasambles for Trades 2000 as mublished by the			
		77		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.			
3	3	77 77		· · · · · · · · · · · · · · · · · · ·	H4		
3	3			Association of South African Quantity Surveyors shall apply.	H4 H4		
		77		Association of South African Quantity Surveyors shall apply. SUPPLEMENTARY PREAMBLES			
3	3	77 77		Association of South African Quantity Surveyors shall apply. SUPPLEMENTARY PREAMBLES Items, materials or methods 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			
3	3	77 77 77		Association of South African Quantity Surveyors shall apply. SUPPLEMENTARY PREAMBLES Items, materials or methods 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.	H4		
3 3	3 3	77 77 77		Association of South African Quantity Surveyors shall apply. SUPPLEMENTARY PREAMBLES Items, materials or methods 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. Vitrified clay pipes, etc 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	H4		
3 3 3	3 3 3	77 77 77 77		Association of South African Quantity Surveyors shall apply. SUPPLEMENTARY PREAMBLES Items, materials or methods 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. Vitrified clay pipes, etc 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	H4		

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3	3	77		Reducing fittings	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			
3	3	77		Septic Tanks	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		Laying, backfilling, bedding, etc. of pipes	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		WORK GROUP 104	H4		
3	3	78		EARTHWORKS (PIPE TRENCHES)	H2		
3	3	78		Site clearance and removal of topsoil	нз		
3	3	78	1	Clear vegetation and small trees/shrubs within 2m wide strip	m	320	
3	3	78		EXCAVATION	H2		
3	3	78		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for sewers up to 160mm in	H3		
				diameter for depths:			
3	3	78	2	Up to 1.5m	m3	336	
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		Extra-over item (a) above for:	Н3		
3	3	78	5	Intermidiate excavation	m3	224	
3	3	78	6	Hard rock excavation	m3	17	
3	3	78	7	Excavate and dispose of unsuitable material from trench bottom (provisional)	m3		
3	3	78		Excavation ancillaries	Н3		
3	3	78		Make up deficiency in backfill material	Н3		
3	3	78	8	From other necessary excavations on site	m3	241	
3	3	78	9	By importation from designated borrow pits	m3		
I		l	l	I	1	I I	l l

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3	3	78		WORK GROUP 146	H4		
3	3	78		<u>SEWERS</u>	H2		
3	3	78		Supply, lay, joint, bed and test 400KPa Maincore uPVC sewer pipes manufactured to SABS 1601	Н3		
3	3	78	10	110mm dia.	m	320	
3	3	78	11	160mm dia.	m	0	
	3	79	40	Extra -over uPVC pipe for specials	H3		
	3	79 79	12 13	110mm 90 degree plain bend 110mm 45 degree plain bend	m	3	
	3	79 79	14	110mm 45 degree plain junction	m m	1	
	3	79 79	15	160mm 90 degree plain bend		0	
	3	79 79	16		m	0	
			17	160mm 45 degree plain bend	m		
3	3	79	17	160mm 45 degree plain junction	m	0	
3	3	79		MANHOLES	H2		
3	3	79		Supply and construct pre-cast concrete manholes, complete with cover and frame and step irons as per	Н3		
				drawings within the following depth ranges (depth measured from invert level to top of the manhole)			
3	3	79		1000mm dia. Manholes	Н3		
3	3	79	18	up to 1.5m	No	6	
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	79		BEDDING AND BACKFILLING (PIPES)	H2		
	3	79		Provision of Bedding from Trench Excavation	H3		
	3	79		Selected granular material	m3	115	
3	3	79	23	Selected fill material	m3	192	
3	3	79		SEWER TREATMENT PLANT	H2		
3	3	79		<u>Concrete</u>	Н3		
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	m3		
		75	20	concrete plus anchor blocks, filling where ordered by the engineer	1110		
3	3	79		Mild steel reinforcement:	Н3		
3	3	79	26	Mild steel bars	kg		
3	3	79		High-Tensile Welded mesh	Н3		
	3	79	27	Ref. 617 welded mesh in floor/walls/footing/slab	m2		
3	3	79		Brickwork of NFX bricks in 3:1 cement mortar:	Н3		
	3	79		One brick wall including wire ties	m2		
3	3	79	29	Half brick wall including wire ties	m2		
3	3	79		Septic Tank	Н3		
3	3	79	30	Construct septic tank with french drain as per specification	Item	1	

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3	3	79		Grease Trap	Н3		
3	3	79	30	Construct grease trap as per specification	Item	0	
3	3	79		1-4 Cement plaster finished with a wooden trowel on brickwork:	Н3		
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		TESTING_	H2		
3	3	79	33	Testing drainage pipe system	Item	1	
				SEWER RETICULATION	ST		
3 3 3	4 4 4	81 81 81		SECTION NO. 3 BILL NO.4 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		SUPPLEMENTARY PREAMBLES	H4		
3	4	81		Items, materials or methods	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		WORK GROUP 154	H4		
3	4	81		EARTHWORKS (ROADS, SUBGRADE)	H2		
3	4	81		Road-bed preparation and compaction of material to	Н3		
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		Selected layer compacted to 93% of modified AASHTO maximum density	Н3		
3	4	81	3	150mm thick	m3	0	
3	4	81		Extra -over items 8.3.4 and 8.3.5 for excavation and breaking down material in	Н3		
3	4	81	4	Intermidiate excavation	m3	0	
3	4	81	5	Hard excavation	m3	0	
3	4	81		Cut to spoil or stockpile from	Н3		
3	4	81	6	Soft excavation	m3	877	
3	4	81	7	Intermidiate excavation	m3	22	
3	4	81	8	Hard excavation	m3	3	
3	4	81	9	Overhaul	m .km	903	

					1			
3	4	81		<u>SUBBASE</u>	H2			
3	4	81		Construct the subbase course with material excavated in all materials or from borrow pit	Н3			
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		Process subbase material by the following processes, as relevant, and use in the subbase	Н3			
3	4	82	12	Stabilization	m3	1 536		
3	4	82		Stabilizing agent	Н3			
3	4	82	13	Ordinary Portland cement	t	44		
3	4	82	14	Lime	t	1		
3	4	82	15	Overbudden	m3	0		
3	4	82		BASE	H2			
3	4	82		Construct the base with gravel material from borrow pits	Н3			
3	4	82	16	Base 150mm thick and compacted to 97% Mod AASHTO density	m3	1 035		
3	4	82		Process base material by the following processes, as relevant and use in base	Н3			
3	4	82	18	Stabilization	m3	1 035	R 45.00	R 46 575.00
3	4	82		Stabilizing agent	Н3			
3	4	82	19	Ordinary Portland cement	t	75		
3	4	82	20	Lime	m			
3	4	82		SEGMENTED PAVING	H2			
3	4	82		Provision of edge Restraints	Н3			
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		Construction of paving complete	Н3			
3	4	82	22	Supply and lay 60mm thick segmented paving blocks with 20mm sand (Assembly and walkways)	m2	2 780		
3	4	82	23	Supply and lay 80mm thick segmented paving blocks with 20mm sand	m2	670		
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	3 450		
3	4	82		KERBING AND CHANNELING	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	338		
3	4	82		TESTING OF FILLING MATERIAL AND COMPACTION	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	
				BREAKING UP EXISTING PAVEMENT LAYERS			
3	4	83		Excavating and removing existing bituminous material			
3	4	83					
3	4	83	30	(a) Material intended for recycling with the average depth of excavation			
3	4	03	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	
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			
				(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	Backfiling 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	
				(ii)Exceeding 5m2 but not 100m2	m³	0	
3 3	5 5	85 85		Compacting the floor of excavations for patching	m2	0	
3	5	85		STABILIZATION			
3	5	85		Chemical stabilization extra over unstabilized			
3	5	85		compacted layers: (a) Base layer, 150mm thick	m³	0	
				Chemical stabilizing agent: (a) Ordinary portland cement	lt	0	
3	5	85		(b) Slaked road lime	t	Rate	
3	5	85				Only	
3	5	85		Provision and application of water for curing	kl	0	
				Prime coat:			
				(a) MC-30 cut back bitumen	litre	0	
3	5	85		(b) MSP1		Rate	
3	5	85				Only	
				Aggregate for blinding	m²	Rate Only	
3	5	85		Extra over item 41.01 for applying the prime			
3	5	85		coat in areas accessible only to hand held equipment	litre	0	
3	5	85		ASPHALT PAVEMENTS AND SEALS			
3	5	85		Asphalt surfacing (60/70 penetration grade bitumen)			
				(a) Medium continously graded asphalt			
				(i)Thickness -30mm	m²	0	

		1		T	1		Ī	1	1
3	5	85		Rolled in chippings (9.5mm)					
3	5	85		(a) in surfacing	t		Rate Only		
2	_	0.5		Task and of 2007 stable and a socialism	litur.				
3	5	85		Tack coat of 30% stable grade emulsion	litre		0		
3	5	85	1	ROADS AND PARKING	ST				
3 3	4 4	81 81		SECTION NO. 3 BILL NO.5					
3	4	81		STORMWATER DRAINAGE					
				<u>Preambles</u>	1	H4			
3	5	85		Model Preambles for Trades 2008 as published by the					
3	5	85	2	Association of South African Quantity Surveyors shall apply.					
3	5	85	3	SUPPLEMENTARY PREAMBLES	,	H4			
				Items, materials or methods		H4			
3	5	85		Items, materials or methods to be used specified by trade					
3	5	85		names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or					
3	5	85	4	methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.					
3	5	85	5	Concrete pipes		H4			
3	5	85		Pipes shall be jointed with ogee joints with rubber collars or					
3	5	85		socket and spigot joints with rubber rings					
3	5	85	6	Wire gratings	1	H4			
3	5	65	0	Descriptions of gutter outlets, etc shall be deemed to include					
3	5	85	7	wire balloon gratings	l .				
				Exposed concrete surfaces	'	H4			
				Exposed surfaces of concrete stormwater channels, cover slabs, inspection eve marker slabs, gulley tops, cleaning eye					
3	5	85		tops, catchpits, inspection chambers, etc shall be finished smooth with plaster					
3	5	85	8						
3	5	85	9	WORK GROUP 104	H	H4			
3	5	86	10	EARTHWORKS (OPEN CHANNEL)	'	H2			
3	5	86		EXCAVATION	'	H3			
3	5	86		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for stormwater channel	r	m3	365		
3	5	86	11						
3	5	86	12	Extra-over item (a) above for:	ı	Н3			
5	5		12	Intermidiate excavation	r	m3	164		
3	5	86		Hard rock excavation	r	m3	55		
				DEDDING AND DAGKER LING					
3	5	86	13	BEDDING AND BACKFILLING		H2			
3	5	86	14	Provision of Bedding from Trench Excavation		H3			
3	5	86	15	Selected granular material for bedding		m3			
				Selected fill material and backfilling	r	m3			
3	5	86		WORK GROUP 146	ı	H4			
3	5	86		CONCRETE AND REINFORCEMENT		H4			
				Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all		m2	325		
				level where reinforced					
				Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm	r	m3	33		
3	5	86	16	concrete plus anchor blocks, filling where ordered by the engineer					
		I .		I	1		l	I	I

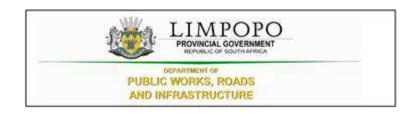
	ı	1		1	Γ	T		
				High-Tensile Welded mesh	Н3			
				Ref. 245 welded mesh in floor slab	m2	325		
3	5	86	17	Ref. 617 welded mesh in floor slab	m2			
				Mild steel bars	kg			
3	5	86						
3	5	86	18	CONCRETE PIPES	H4			
				Supply, lay and bed pipes complete with couplings	Н3			
				450mm Diameter C50	m	60		
				600mm Diameter C50	m	20		
3	5	86						
3	5	86		Supply and lay RS40 Grating Unbanded and Banded Rectagrid or similar approved Grid for	H3			
				Storm water drainage				
3	5	86	19	2 400 x 1 200 x 50 x 4.5mm RS40 Grating Unbanded Bitumen	No	2		
				1 000 x 500 x 50 x 4.5mm RS40 Grating Banded Bitumen	No	1		
				Supply and install 60 x 60 x 6mm Angle Iron cast into concrete	m	6		
3	6 6	88 88		SURFACE V-CHANNELS	H2			
3	6	88		In-situ 20 MPa/19mm Concrete open stormwater channels	H3			
3	6	88		finished on all exposed surfaces with woodfloat finish and with angles rounded, cast in approximately 2m lengths				
3	6	88		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				
3	6	88		excavations and filling and laying to falls				
3	6	88		V-shaped channel 1200mm wide, 105mm (average) thick and 50 mm deep (concrete = 0,10 m / m) next to existing wall and	m	280		
3	6	88		including the forming of an expansion joint with the existing wall formed with Flexcell joint filler and sealed with bitumastic joint				
				sealant				
				Extra over 900 x 50mm deep stormwater channel for bends, junctions, ends, etc	No			
3	6	88		Stormwater outlet spreader, culvert headwall, etc.	Н3			
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	No	1		
3	6	88		both sides and bricks cast in at 300mm centres and 150mm				
3	6	88	1	apart to project 50mm above 75mmm concrete surface bed, including all necessary shallow excavations, formwork and				
				finishing with a wood float				
3	6	88		STONE PITCHING	H2			
3	6	88		Stone pitched of approximately 150mm diameter river	H3			
3	6	88		stones tightly packed including preparation of ground surface under, top soil filling and planted with grass				
3	6	88		150mm Thick lining to open ends of outfall spreaders, ditches,	m2	120		
				etc.				
3	6	88		STORMWATER DRAINAGE	ST			
3	6	88	2	SECTION NO. 3 BILL NO.6				
3	6	89		FENCING AND LANDSCAPING				
				<u>Preambles</u>	H4			
3	6	89		Model Preambles for Trades 2008 as published by the				
3	6	89	3	Association of South African Quantity Surveyors shall apply.				
				SUPPLEMENTARY PREAMBLES	H4			
3	6	89	4	Items, materials or methods	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				
3	6	89		methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	6	89	6					
1 5	, ,	, 55		1	Ī		Ī	ı I

				WORK GROUP 124	H4		1
3	7	92	1				
3	7	92	2	GALVANIZED STEEL PALISADE FENCING	H2		
3	7	92	3	Palisade fencing, consisting of 75 x 75 x 4mm posts with 230 x 230mm foot plate welded on, 50 x 50 x 5mm angle	Н3		
				section top and bottom rail, filled in with 40 x 40 x 4mm			
3	7	92	4	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			
3	7	92	5	600 x 600 x 150mm selected fill and with 200 x 200mm Class C concrete ground beam along full length of fence			
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	1 340	
				Gates formed of 50 x 75mm rectangular hollow section	Н3		
				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.			
				Double pedestrian gate 1780mm wide x 2400mm high with 254	No	1	
				x 40 x 5mm hook and band hinges with flange built into walls,	No	ı	
				barrel bolt, and 600mm vertical extensions for razor wire coil (Gate type G6)			
				Double gate 2890mm wide x 1915mm high with 254 x 40 x	No		
				5mm hook and band hinges with flange built into walls and barrel bolt (Gate type G7)			
					NI.	4	
				Sliding gate 6000m wide x 2454mm high complete with rollers and v-track including 600mm extension on top for razor wire	No	1	
				coil (Gate type G8)			
				FENCING AND LANDSCAPING	ST		
				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		

	FINAL SUMMARY			
Section No		Page No		Amount
1	PRELIMINARIES AND GENERAL	1/29		
2	4 SEATER ENVIROLOO TOILET BLOCK X 3	2/41		
3	MEDIUM ADMINISTRATION BLOCK	3/40		
4	6 SEATS WATERBORNE TOILET BLOCK	4/38		
5	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)	5/42		
6	PROVISIONAL SUMS	6/6		
	Sub- Total (PART A - MAIN BUILDING WORKS)		R	
	PART B - ELECTRICAL AND MECHANICAL WORK			
	TENDER AMOUNT CARRIED OVER FROM PART B (ELECTRICAL AND MECHANICAL WORK)	Item		
	PART C - CIVIL WORK			
	TENDER AMOUNT CARRIED OVER FROM PART C (CIVIL WORK)	Item		
	Sub- Total - BUILDING COSTS		R	
	CONTINGENCY ALLOWANCE TO THE CONTRACT			
	Contingencies:			
	Allow an amount of R1 500 000.00 (One Million Five 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	

	FINAL SUMMARY			
Section No		Page No		Amount
	Brought Forward		R	
	Inflation:			
	Allow an amount of R1 600 000.00 (One Million Six			
	Hundred Thousand) for price adjustment for inflation.			
		Item		
	Sub- Total Excluding VAT		R	
	Tax		R	
	Carried to Form of Tender		R	
	Carried to Form of Tender		\[\ \	

PART C3 SCOPE OF WORKS



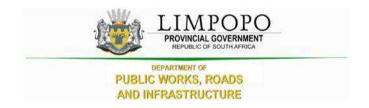
PART C3.1: SPECIAL NOTES TO BIDDERS

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

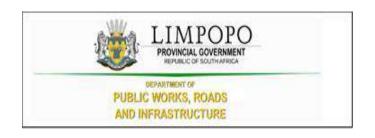
- 1.1.LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.
- 1.2.LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.
- 1.3. LDPWR&I reserve the right 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.



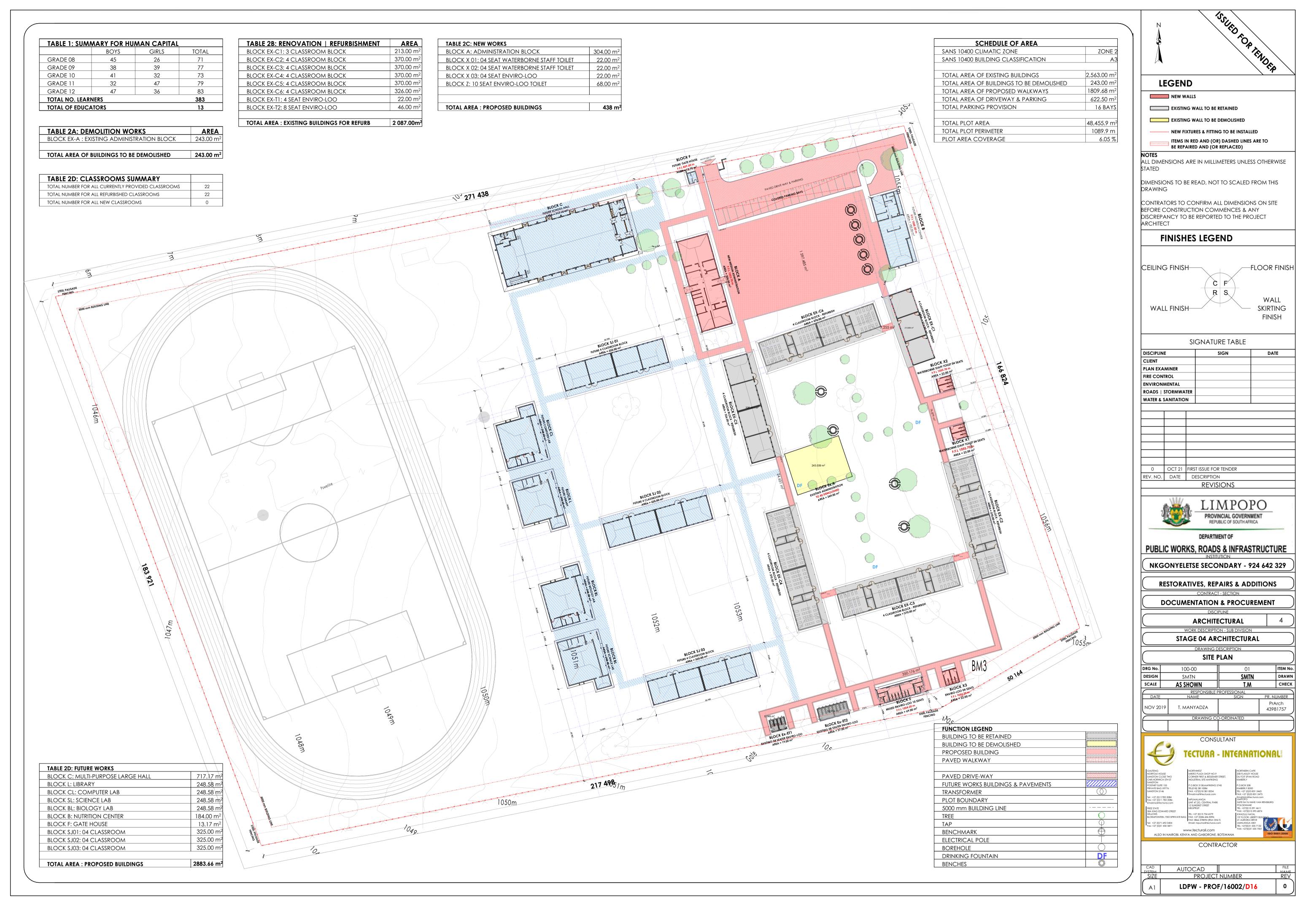
PART C3.2: OHS SPECIFICATIONS



PART C4 SITE INFORMATION



C4.1 DRAWINGS



FINISHES LEGEND

FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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: CARPET TILES

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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

grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light

weight hemi-hydrate gypsum plaster on concrete slab soffit. **ROOF COVERING AND INSULATION:**

ER1: EMBOSSED ROOFING SHEET (TWO SIDES) **Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

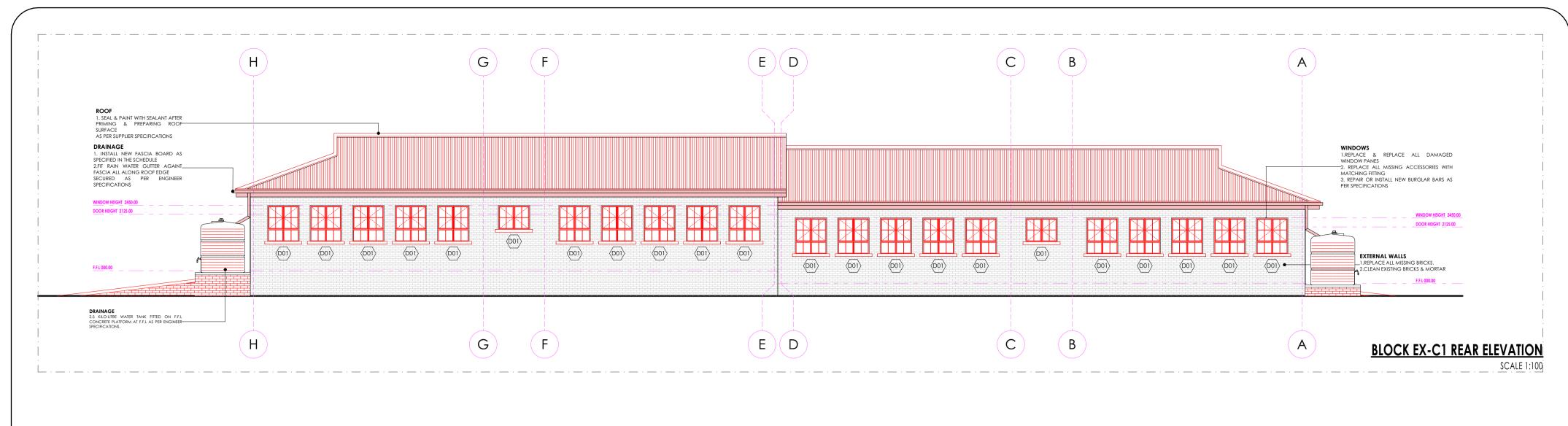
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict

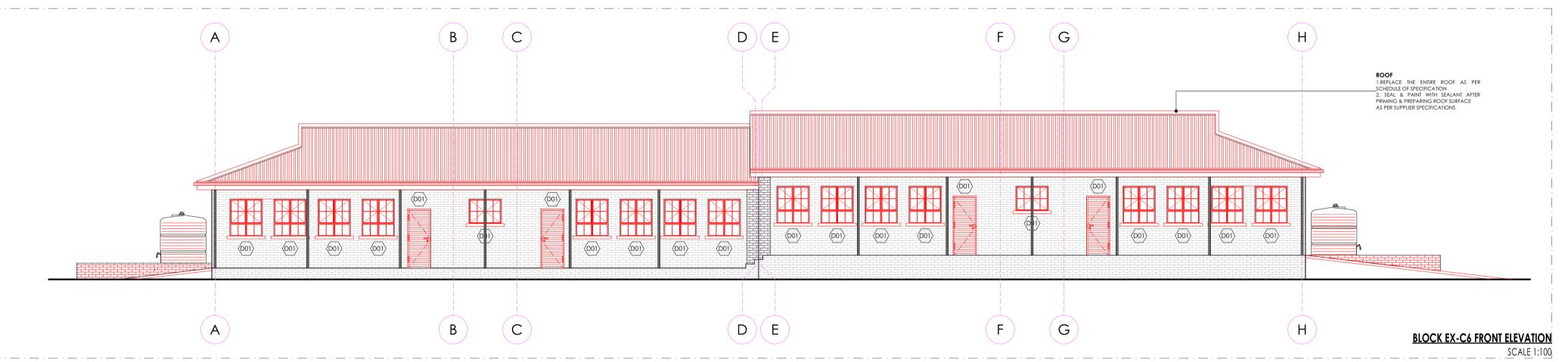
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

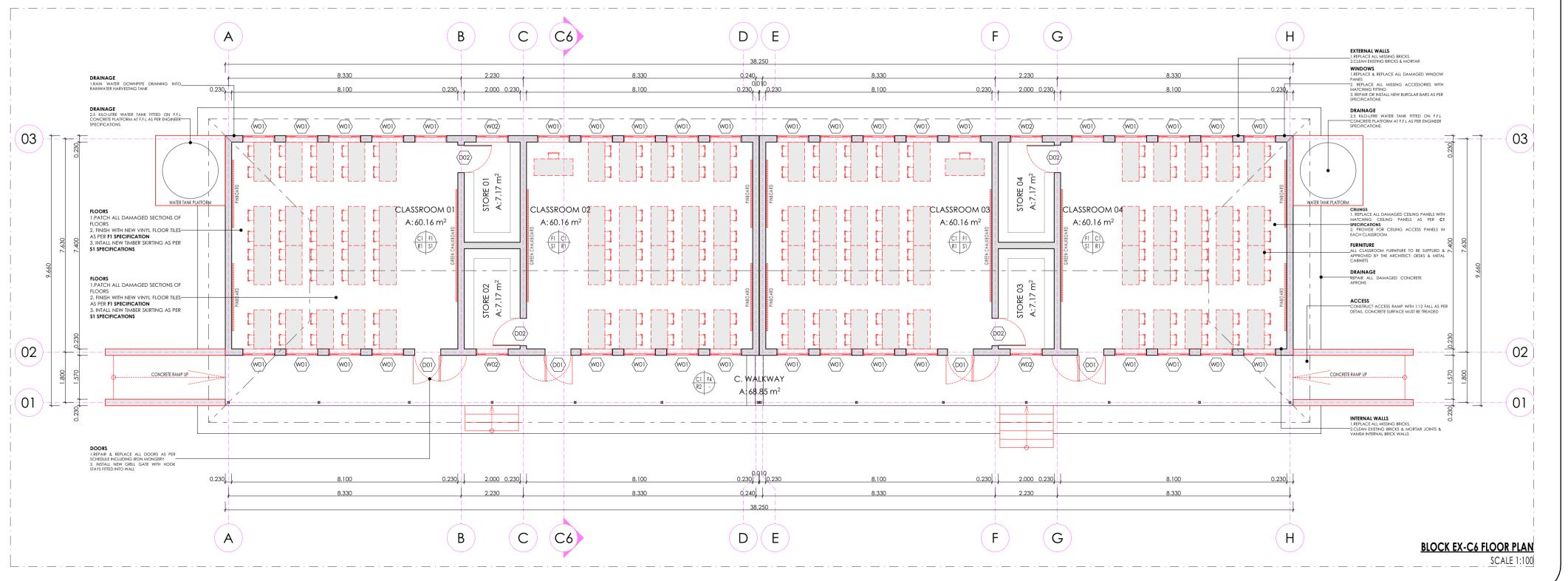
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

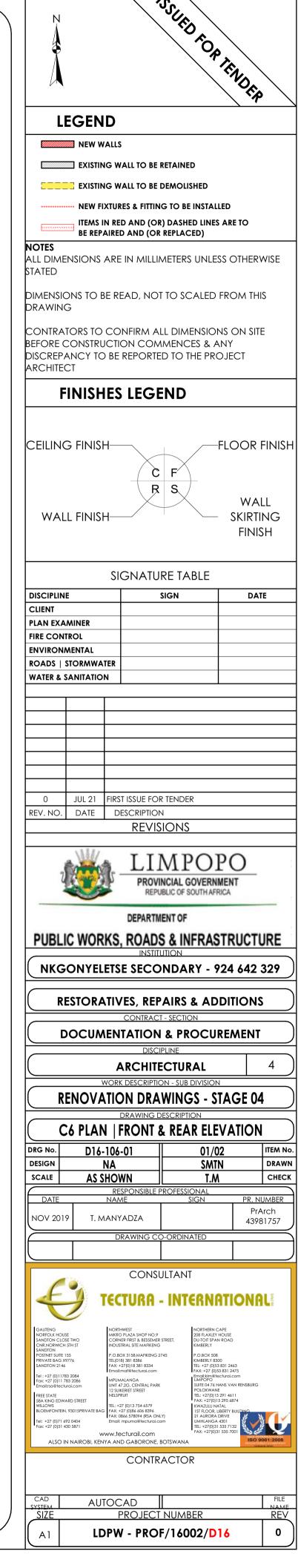
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm 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.









FINISHES LEGEND

FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira tes 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

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

22 mm thick untinted 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.

7: 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and nitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

5 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 no, coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no, coat undercoat to SABS 68 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant CONCRETE PLATFORM

laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions. R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepare 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, SO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally nanufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured ato place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 1586 approved on 6mm thick light veight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

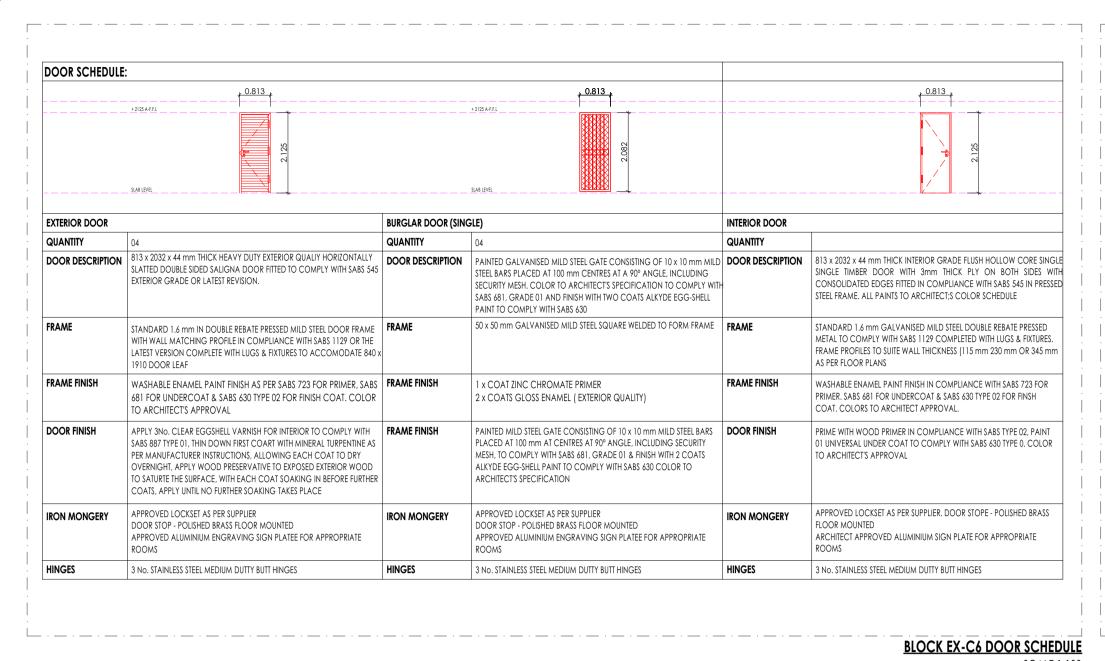
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

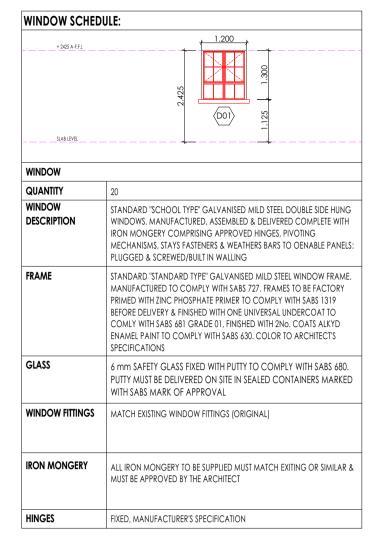
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising 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 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To Manufacturer Installation Instructions

Fascia board: 250 x 10 mm 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.





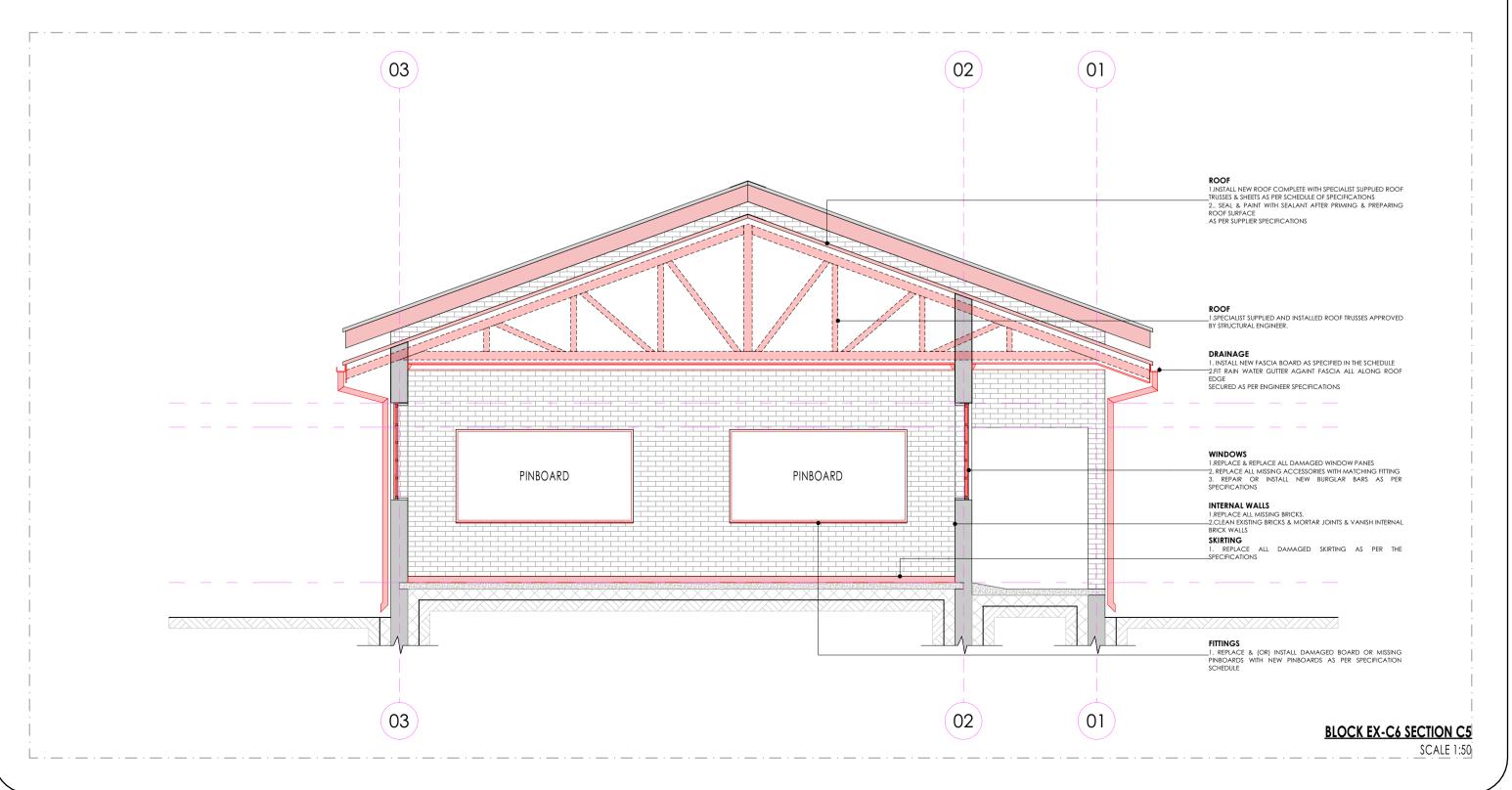
BLOCK EX-C6 WINDOW SCHEDULE

BLOCK EX-C6 LEFT ELEVATION

SCALE 1:100

SEAL & PAINT WITH SEALANT AFTER ROOF

1. SEAL & PAINT WITH SEALANT AFTER SURFACE
AS PER SUPPLIER SPECIFICATIONS ALL NEW FASCIA BOARD AS SPECIFIED IN THE SCHEDULE KILO-LITRE WATER TANK FITTED ON ONSTRUCT ACCESS RAMP WITH 1:12 CONSTRUCT ACCESS RAMP WITH 1:12 FALL AS PER DETAIL. FALL AS PER DETAIL. CONCRETE SURFACE MUST BE TREADED CONCRETE SURFACE MUST BE TREADED 02 03



BLOCK EX-C6 RIGHT ELEVATION

SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous china 90° outlet WC or eaual and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Ju Thermoset Plastic Seat" Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; Thermoset 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 900 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 900 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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. TALL FUNG UNION WALL HUNG JURINAL wall hang bowl urinal to comply with SABS 497. 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

S01: SHOWER mm 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:

• 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 ball jointed connector • Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower

tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP ous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with sinale tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

RECOUNTIES BASIN 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 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t

B3: WHITE GLAZED PORCELAIN WHB (VANITY) eramic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS) itreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Evaluation for comply with SABS 497 and RHS hole plugged and fitted with; 1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Wifeous china 310 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 . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t manufacturer's specifications.

Combination of sanitaryware, accessories and general fittings comprising of: Mirror type K2.

Paper towel dispenser K8 and bin type K3.

• Splashback 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.

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 elsewl measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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

Ceramic fireclay 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

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with bac nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable fo

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL dard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domheaded mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessa

accessories in accordance to manufacturer's specifications.

n x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance 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

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 screw and plastic wall plugs. Installed as per manufacturer's instructions

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 pe

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance manufacturer's specifications.

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple

K11: HAND DRYER (Hands free)

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as pe

K13: SHOWER CURTAIN RAIL (straight) 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

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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.

Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut

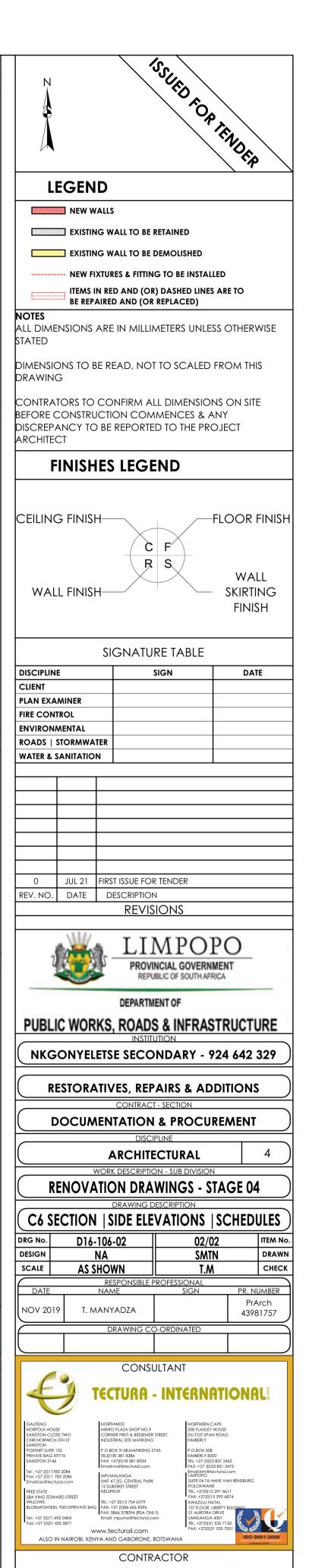
cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets. **G6: FLOOR DRAIN** Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER

Co-extruded 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

mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose

system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir accordance with the manufacturer's instructions



AUTOCAD

PROJECT NUMBER

LDPW - PROF/16002/D16

FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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: CARPET TILES

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire ratina, and DIN 54324 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

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

22 mm thick untinted 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.

7: 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished with 3No. coats of egg shell clear vanish 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 nick 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 tiles where there is change of level. Colour and pattern to architects approval.

5 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 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

grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant

laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions. R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard pecifications 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.

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

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, SO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally nanufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured ato place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 nanufacturer'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 veight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

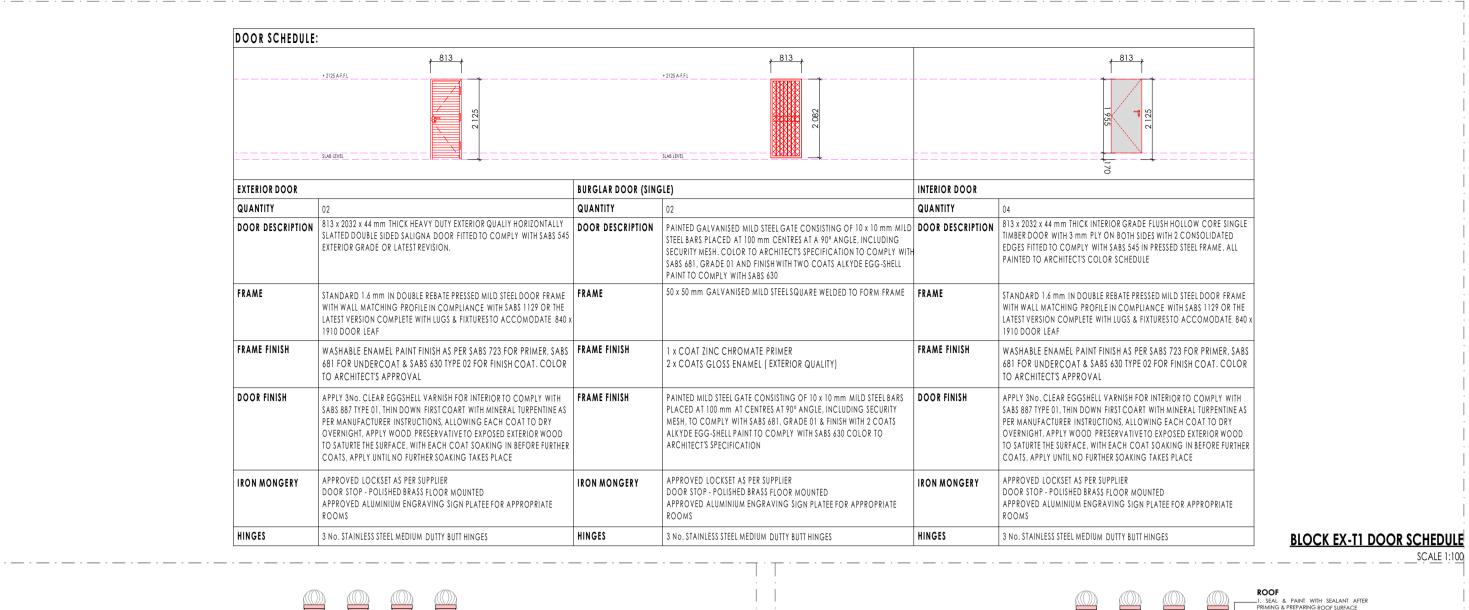
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict compliance to manufacturer's instructions.

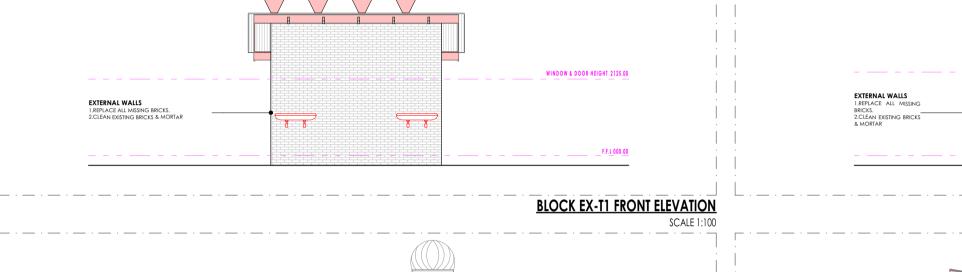
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

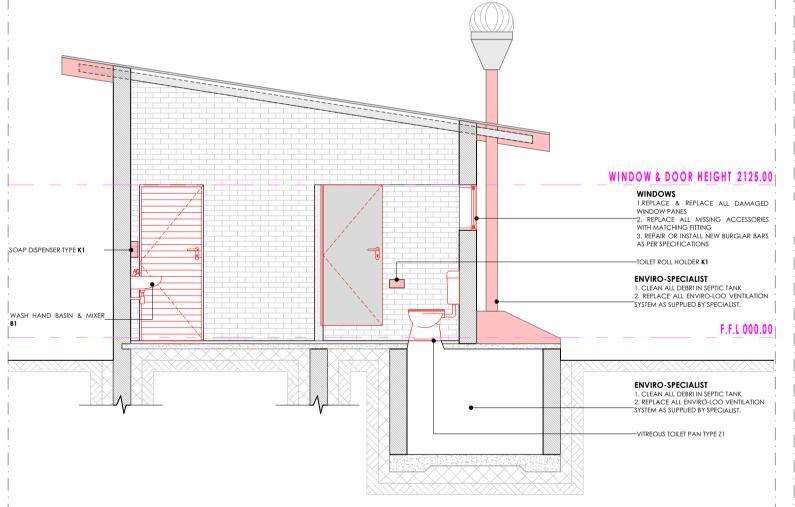
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

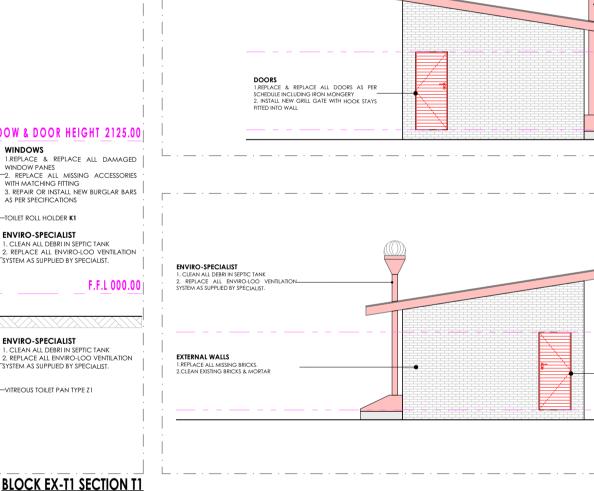
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

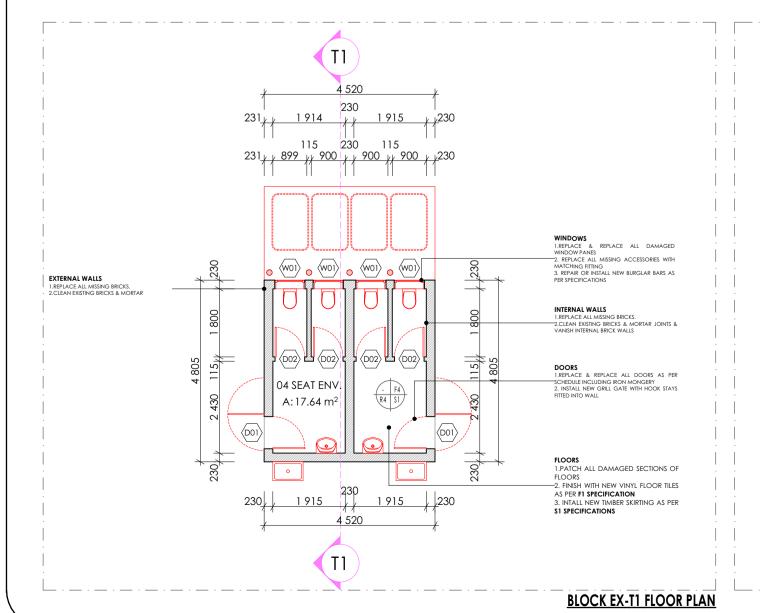
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

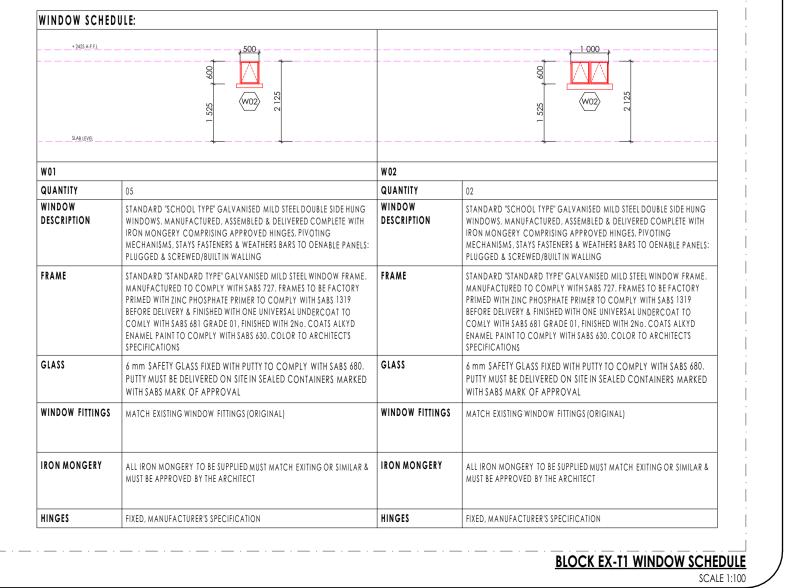












SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous china 90° outlet WC or eaual and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Ju Thermoset Plastic Seat" Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; Thermoset 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

Vitreous china 900 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 900 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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. 74: CERAMIC WALL HUNG URINAL wall hang bowl urinal to comply with SABS 497. 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

mm 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:

• 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 ball jointed connector • Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower

tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

I. REPAIR OR INSTALL NEW BURGLAR BARS AS

ENVIRO-SPECIALIS

BLOCK EX-T1 REAR ELEVATION

BLOCK EX-T1 SIDE ELEVATION

BLOCK EX-T1 SIDE ELEVATION

B1: WHB & MIXER TAP ous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 pasin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

#2: DISABLED BASIN 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 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t

B3: WHITE GLAZED PORCELAIN WHB (VANITY) Ceramic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric

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 chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor

flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications. B5: H/DUTY BASIN & 1No. TAP (FOR LABS) Examination of comply with SABS 497 and RHS hole plugged and fitted with; 1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

Wireous china 510 x 42 umm 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 . 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 connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

accordance to manufacture's specifications.

• Splashback 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.

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 elsewher measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fittled with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

Ceramic fireclay 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

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fitted with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm. X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

0 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outle fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup, CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square \$\$ gallow brackets, front leg and adjustable fool

SANITARY ACCESSORIES

dard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satii finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

Smm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domeheaded mirror screws K3: SS WASTE BIN

328W x 826H 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. 0mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance

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

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.

Stainless steel 101 & 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.

K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance manufacturer's specifications.

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple K11: HAND DRYER (Hands free)

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as pe

K13: SHOWER CURTAIN RAIL (straight)

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

installed in accordance to manufacturer's specifications.

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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.

Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric)

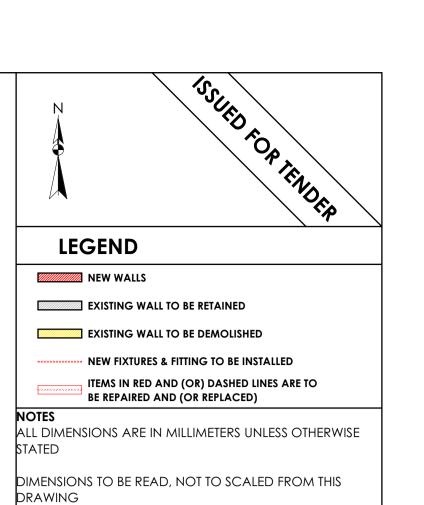
27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose 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 bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER Co-extruded 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.

accordance with the manufacturer's instructions.

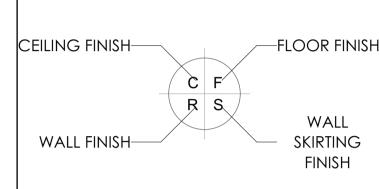
G8: CHALKBOARDS- GREEN SURFACE COLOUR m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig nanufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Util chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete wit ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly



DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT FINISHES LEGEND

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE

BEFORE CONSTRUCTION COMMENCES & ANY



DISCIPLINE			SIGN	DATE		
CLIENT						
PLAN EXAMINER						
FIRE CONTROL ENVIRONMENTAL						
ROADS	STORMWA	TER				
NATER & S	SANITATIO	N				
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NKGONYELETSE SECONDARY - 924 642 329

RESTORATIVES, REPAIRS & ADDITIONS **DOCUMENTATION & PROCUREMENT**

ARCHITECTURAL

STAGE 04 ARCHITECTURAL EX-T1 FLOOR | SECTION | SIDES | SCHEDULES D16-201-01 **SMTN**

AS SHOWN T.M CHECK NOV 2019 T. MANYADZA 43981757 CONSULTANT



AUTOCAD PRO IFCT NUMBER LDPW - PROF/16002/D10

FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

5 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 no, coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no, coat undercoat to SABS 68 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant

laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions. R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

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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

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, SO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally nanufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured ato place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 nanufacturer's specifications.

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Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light veight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

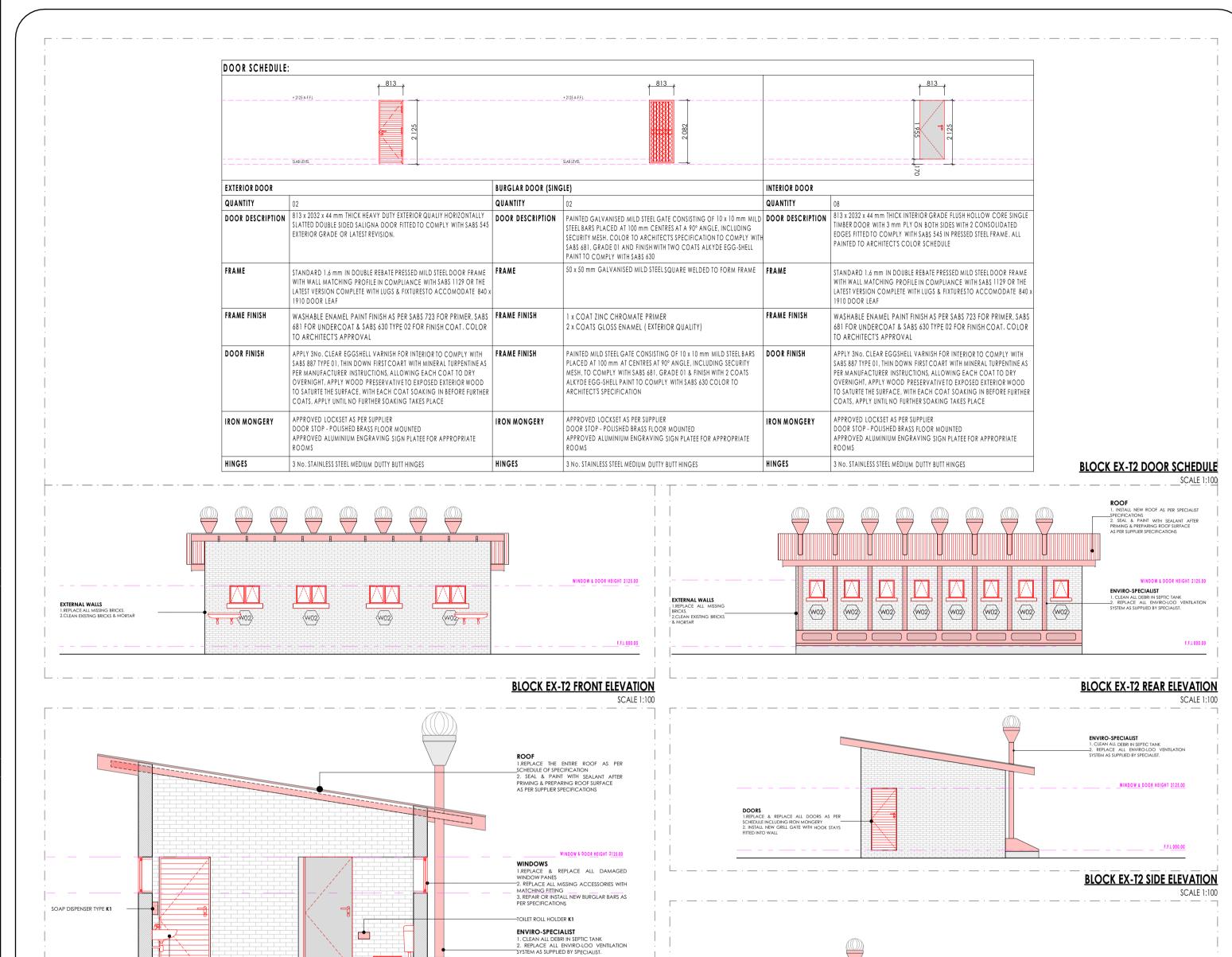
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

compliance to manufacturer's instructions Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

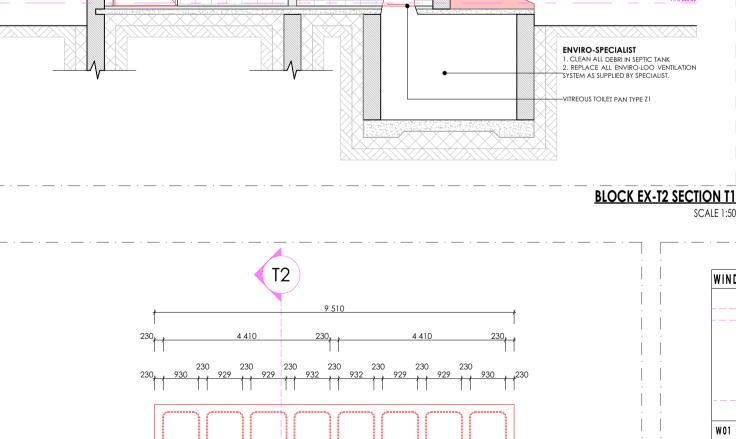
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising 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-taping screws To Manufacturer Installation Instructions

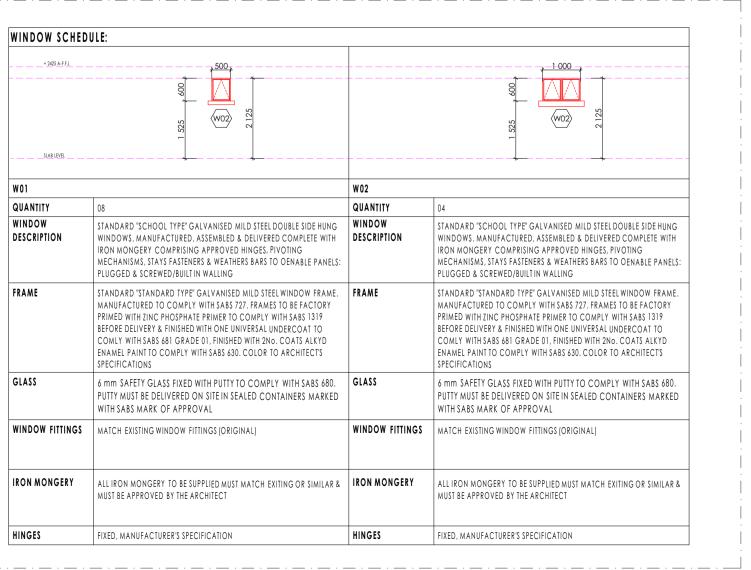
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



ENVIRO-SPECIALIS



BLOCK EX-T2 FLOOR PLAN



SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: 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 SARS 497 & Fitted with "Id Thermoset Plastic Seat". Fitted with Concealed Flushina Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae 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

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with c necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jo Thermoset 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

Vitreous china 900 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 900 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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. 74: CERAMIC WALL HUNG URINAL wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader an

mm 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: • 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 ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP yous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 30 pasin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN 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 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t

B3: WHITE GLAZED PORCELAIN WHB (VANITY) Ceramic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric accordance to manufacture'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 chainstay hole with; 2N pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications. B5: H/DUTY BASIN \$.1No. TAP (FOR LABS)

Ceramic fire clay 5503405 min rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1Nc

pillar tap, Chrome Plated anti-theft 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 B6: MEDIC BASIN & FITTINGS (SICK BAY)

Wifeous china 310 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 . 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 connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

 Soap dispenser type K9 • Splashback 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.

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 elsew measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealer brackets supplied with all necessary accessories (all to be acid resistant

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fith with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS 0 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outle fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with bac nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable fo

SANITARY ACCESSORIES

dard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

64 smm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom headed mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necess accessories in accordance to manufacturer's specifications. 0mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance

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

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 101 & 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.

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar installed in accordance to manufacturer's specifications. K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance

manufacturer's specifications. 820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple

K11: HAND DRYER (Hands free)

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per K13: SHOWER CURTAIN RAIL (straight) 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

BLOCK EX-T2 SIDE ELEVATION

BLOCK EX-T2 WINDOW SCHEDULI

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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.

Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

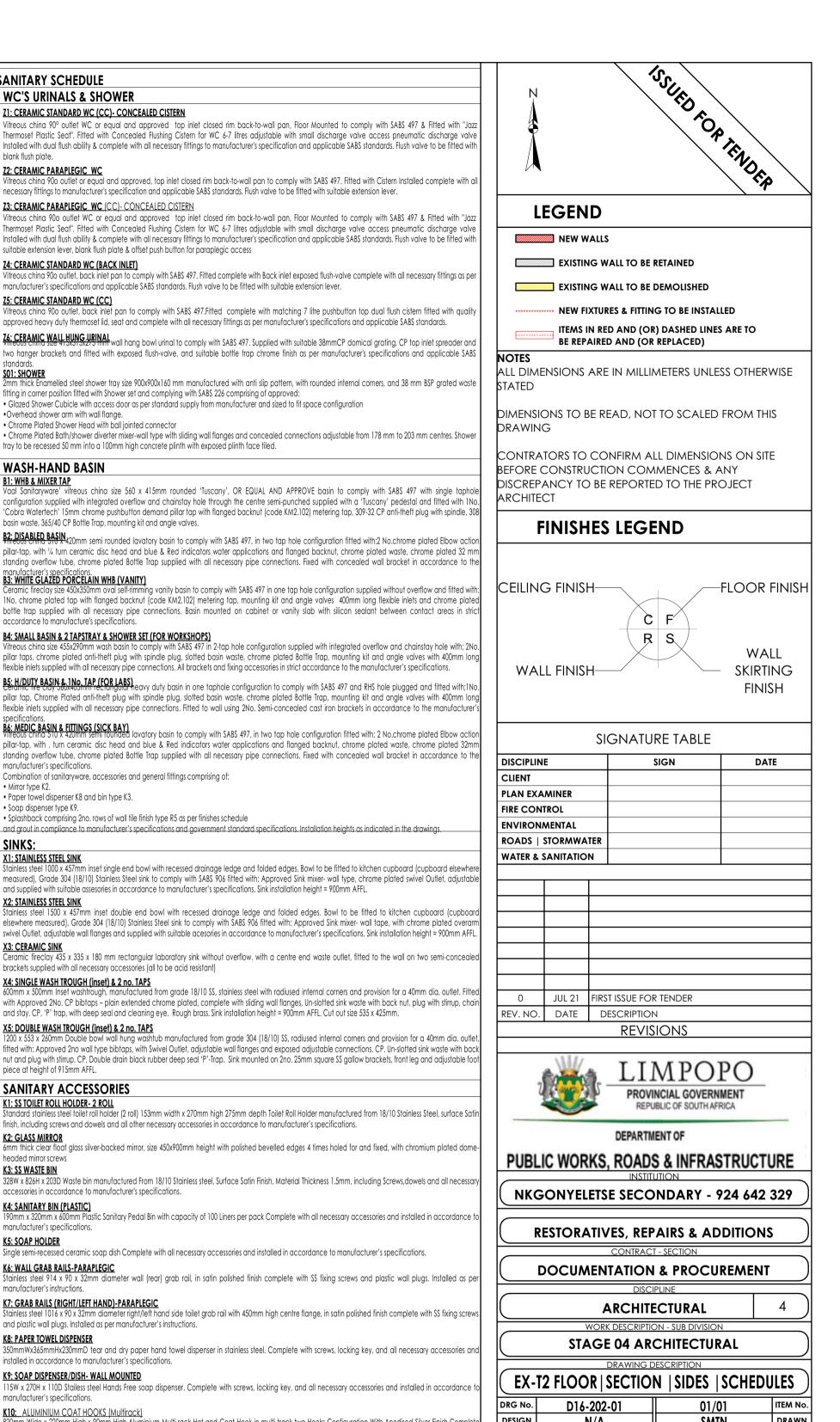
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric)

27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose 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 bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansior joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig nanufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Util chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), 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 accordance with the manufacturer's instructions.



SMTN AS SHOWN CHECK NOV 2019 T. MANYADZA 43981757 CONSULTANT



AUTOCAD LDPW - PROF/16002/D10

FINISHES LEGEND FLOORS: F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery) 420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip. 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 manufacturers 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: CARPET TILES 500mm x 500mm, 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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 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 22 mm thick untinted 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 VINLY 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 glued with conducive 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: \$1: HARDWOOD OR EQUAL AND APPROVED "Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval. 75 mm high x 20 mm thick hardened cement sand screed skirting coved 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:** 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 grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions. R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO manufactured and installed in strict compliance to the latest SABS Standards.

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

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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

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

"GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

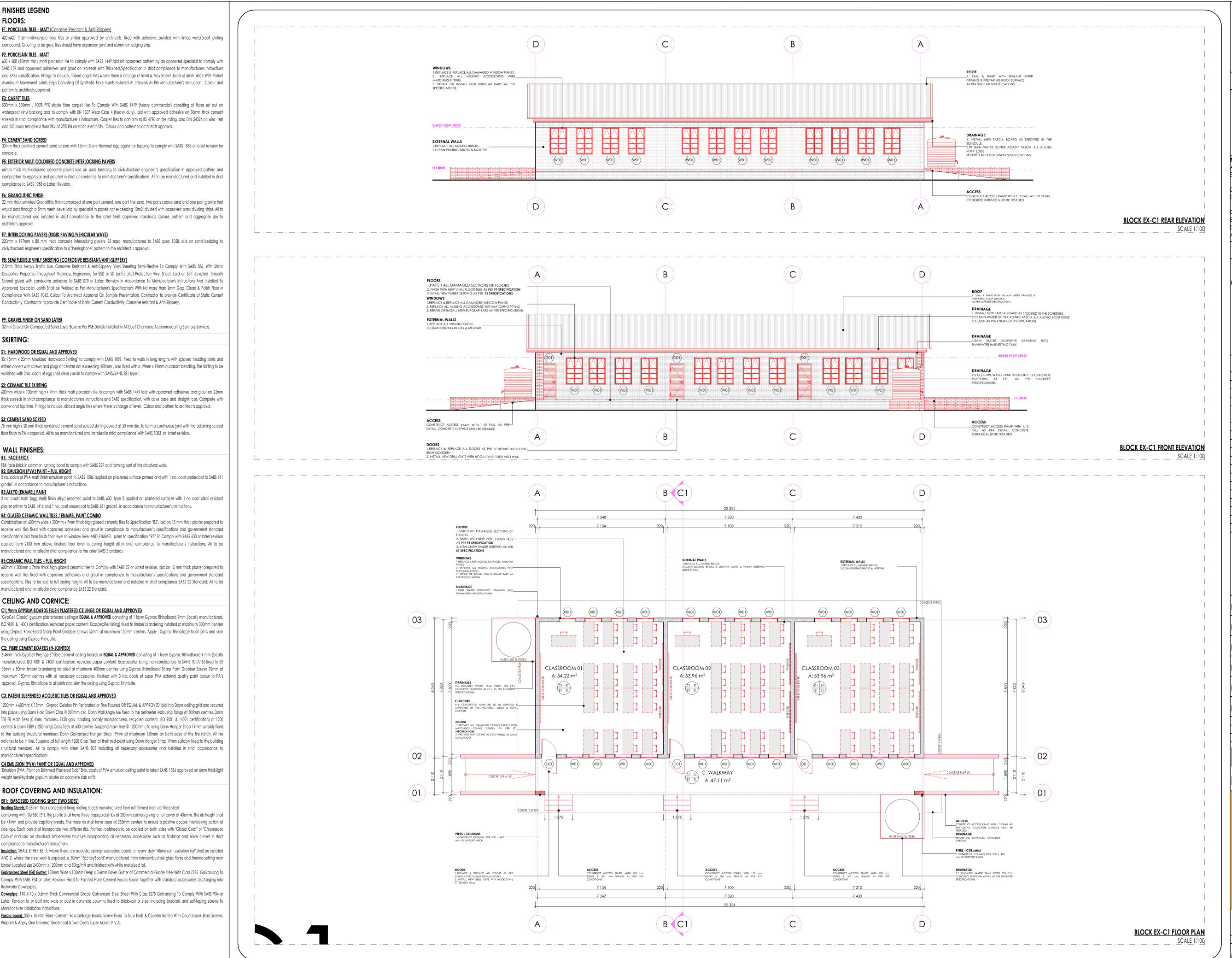
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

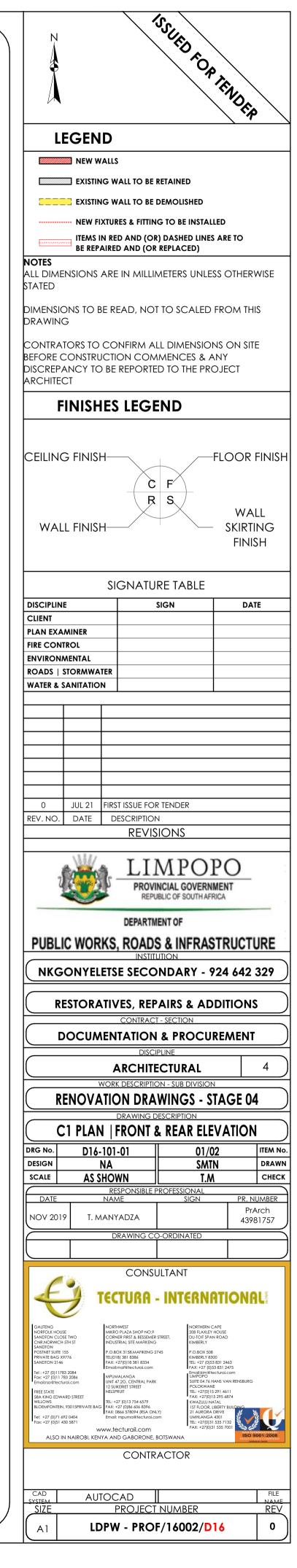
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation 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/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising 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 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To





FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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.

7: 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished with 3No. coats of egg shell clear vanish 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 nick 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 tiles where there is change of level. Colour and pattern to architects approval.

5 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 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

grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared

receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard pecifications 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, SO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally nanufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured ato place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 nanufacturer'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 veight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

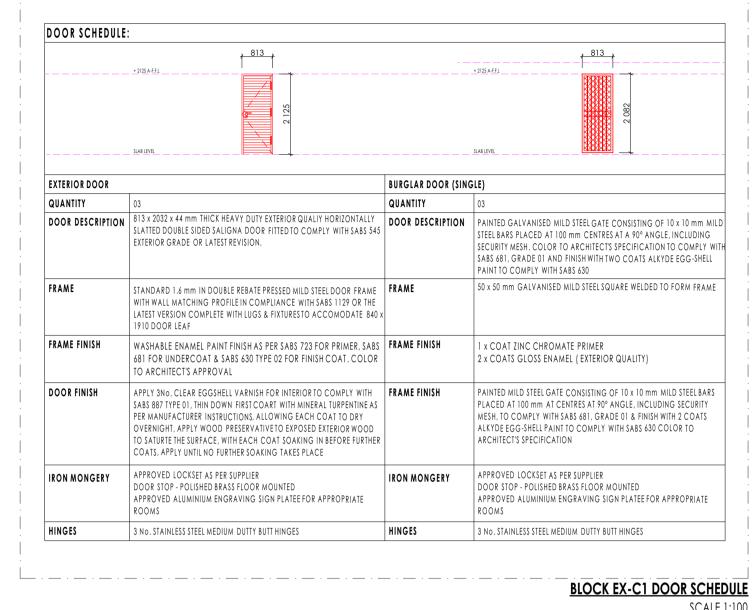
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

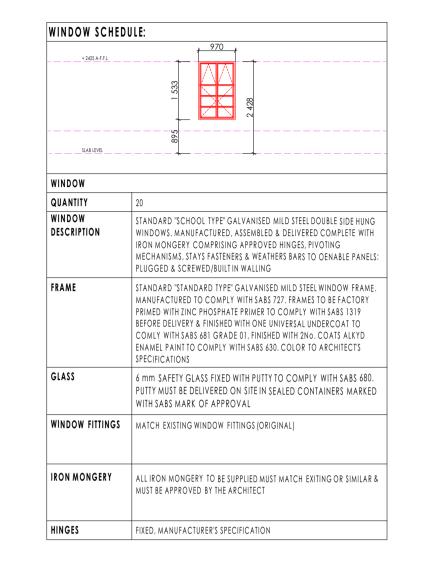
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

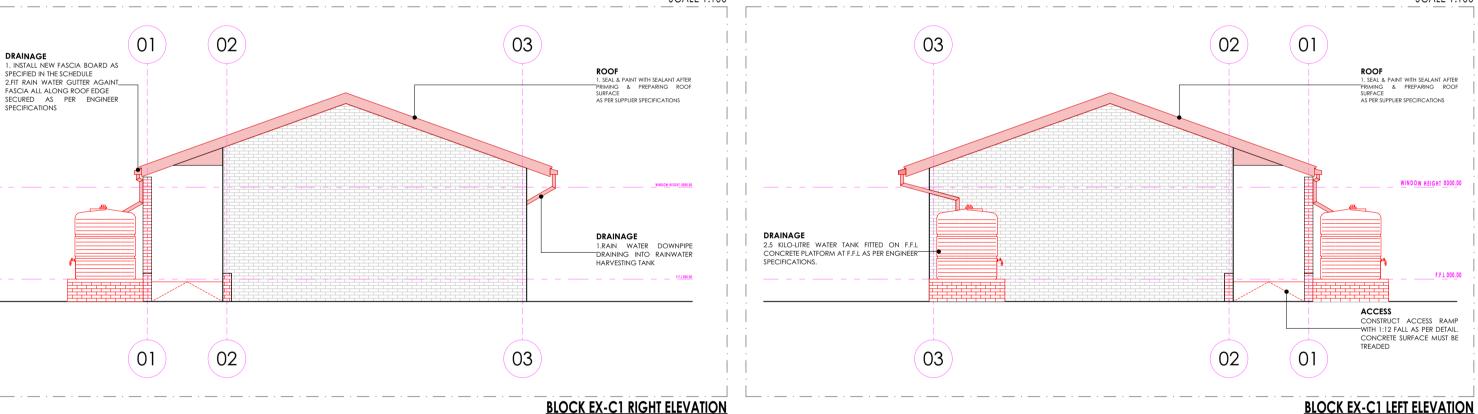
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm 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.

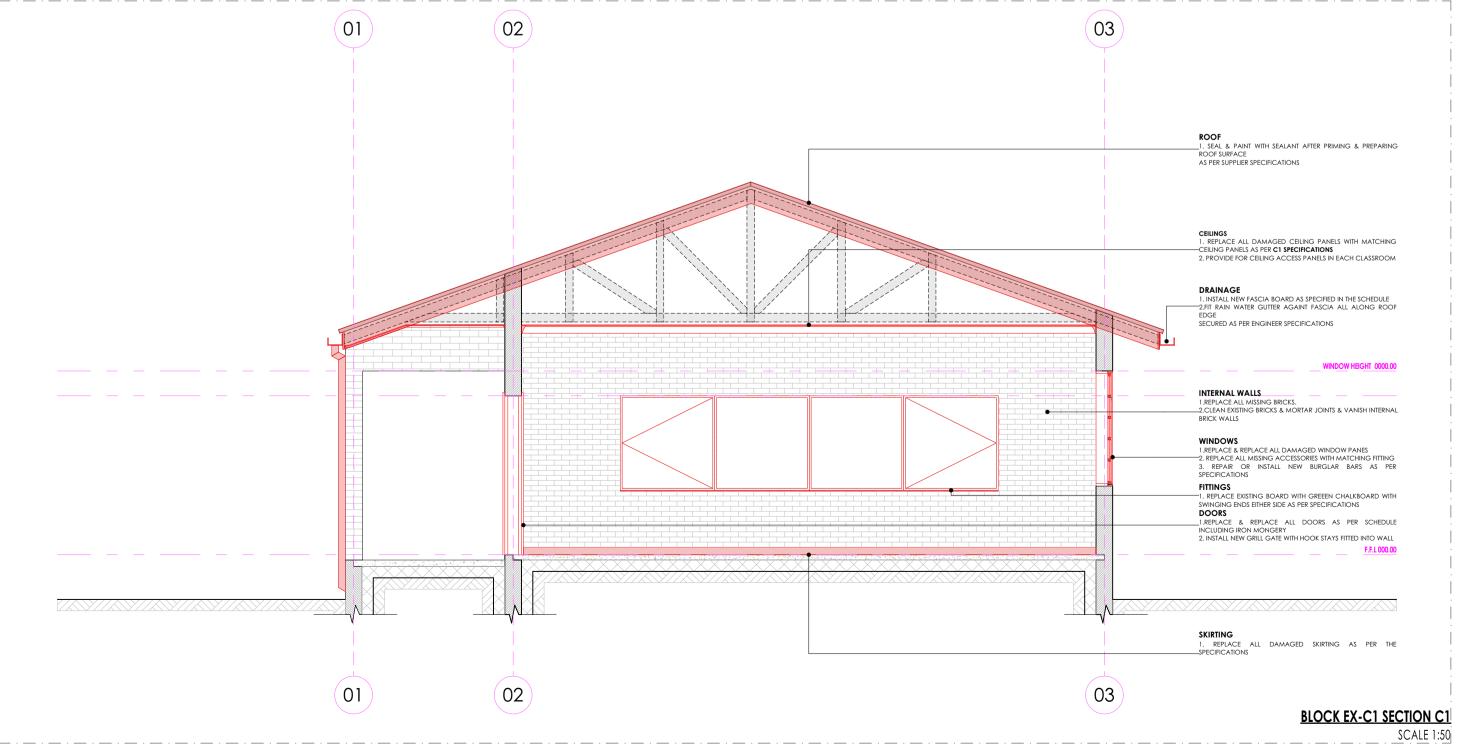






BLOCK EX-C1 RIGHT ELEVATION

SCALE 1:100



SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: 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 "Ju Thermoset Plastic Seat". Fitted with Concealed Flushina Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja;

Thermoset 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 parapleaic access

Z4: CERAMIC STANDARD WC (BACK INLET) Vitreous china 900 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 900 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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. 74: CERAMIC WALL HUNG URINAL wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader an

two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS mm 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: • 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 ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP eous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 pasin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

RECOUNTIES BASIN 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 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mn

standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the B3: WHITE GLAZED PORCELAIN WHB (VANITY)

nic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric accordance to manufacture'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 chainstay hole with; 2Nc

pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications. B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Evaluation for comply with SABS 497 and RHS hole plugged and fitted with; 1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long

X1: STAINLESS STEEL SINK

SANITARY ACCESSORIES

6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom headed mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

m x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners 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 \$\$\$ fixing screws and plastic wall plugs. Installed as pe

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 screw and plastic wall plugs. Installed as per manufacturer's instructions

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories al installed in accordance to manufacturer's specification K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance

K10: ALUMINIUM COAT HOOKS (Multirack).
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple

K11: HAND DRYER (Hands free)

manufacturer's specifications.

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as pe

K13: SHOWER CURTAIN RAIL (straight)

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

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

G2: PROJECTOR SCREEN Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut

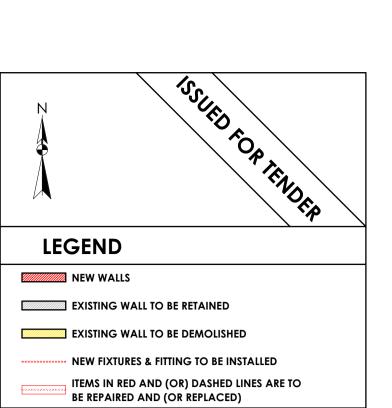
cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets. G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER Co-extruded 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 system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high

mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose

manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir accordance with the manufacturer's instructions



all dimensions are in millimeters unless otherwise

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

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

FINISHES LEGEND

WALL FINISH

-FLOOR FINISH CEILING FINISH-

SKIRTING

FINISH

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. RA: MEDIC RASIN & FITTINGS (SICK RAY)				
B6: MEDIC BASIN & FITTINGS (SICK BAY) 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 . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm	SIGNATURE TABLE			
standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.	DISCIPLINE		SIGN	DATE
Combination of sanitaryware, accessories and general fittings comprising of:	CLIENT			
 Mirror type K2. Paper towel dispenser K8 and bin type K3. 	PLAN EXAMINER			
• Soap dispenser type K9.	FIRE CONTROL			
Splashback 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.	ENVIRON	NMENTAL		
SINKS:	ROADS	STORMWA	ATER	
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 assessories 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 tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL. X3: CERAMIC SINK Ceramic fireclay 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	WATER &	SANITATIO	ON CONTRACTOR OF THE CONTRACTO	
brackets supplied with all necessary accessories (all to be acid resistant) X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS				
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain	0	JUL 21	FIRST ISSUE FOR TENDER	
and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.	REV. NO	. DATE	DESCRIPTION	
X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS 1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet,	REVISIONS			
fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.			LIMPO	OPO
SANITARY ACCESSORIES		1	PROVINCIAL GOV	
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.	REPUBLIC OF SOUTH AFRICA			
K2: GLASS MIRROR 6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-	DEPARTMENT OF			



RESTORATIVES, REPAIRS & ADDITIONS

NKGONYELETSE SECONDARY - 924 642 329

DOCUMENTATION & PROCUREMENT ARCHITECTURAL

RENOVATION DRAWINGS - STAGE 04

C1 SECTION | SIDES | SCHEDULES

D16-101-02 **SMTN** NΔ CHECK AS SHOWN T.M NOV 2019 T. MANYADZA 43981757



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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA CONTRACTOR

AUTOCAD PROJECT NUMBER LDPW - PROF/16002/D16

FINISHES LEGEND FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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: CARPET TILES

500mm x 500mm, 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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:

\$1: HARDWOOD OR EQUAL AND APPROVED

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT 2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepare 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

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

manufactured and installed in strict compliance SABS 22 Standard.

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light

weight hemi-hydrate gypsum plaster on concrete slab soffit. **ROOF COVERING AND INSULATION:**

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

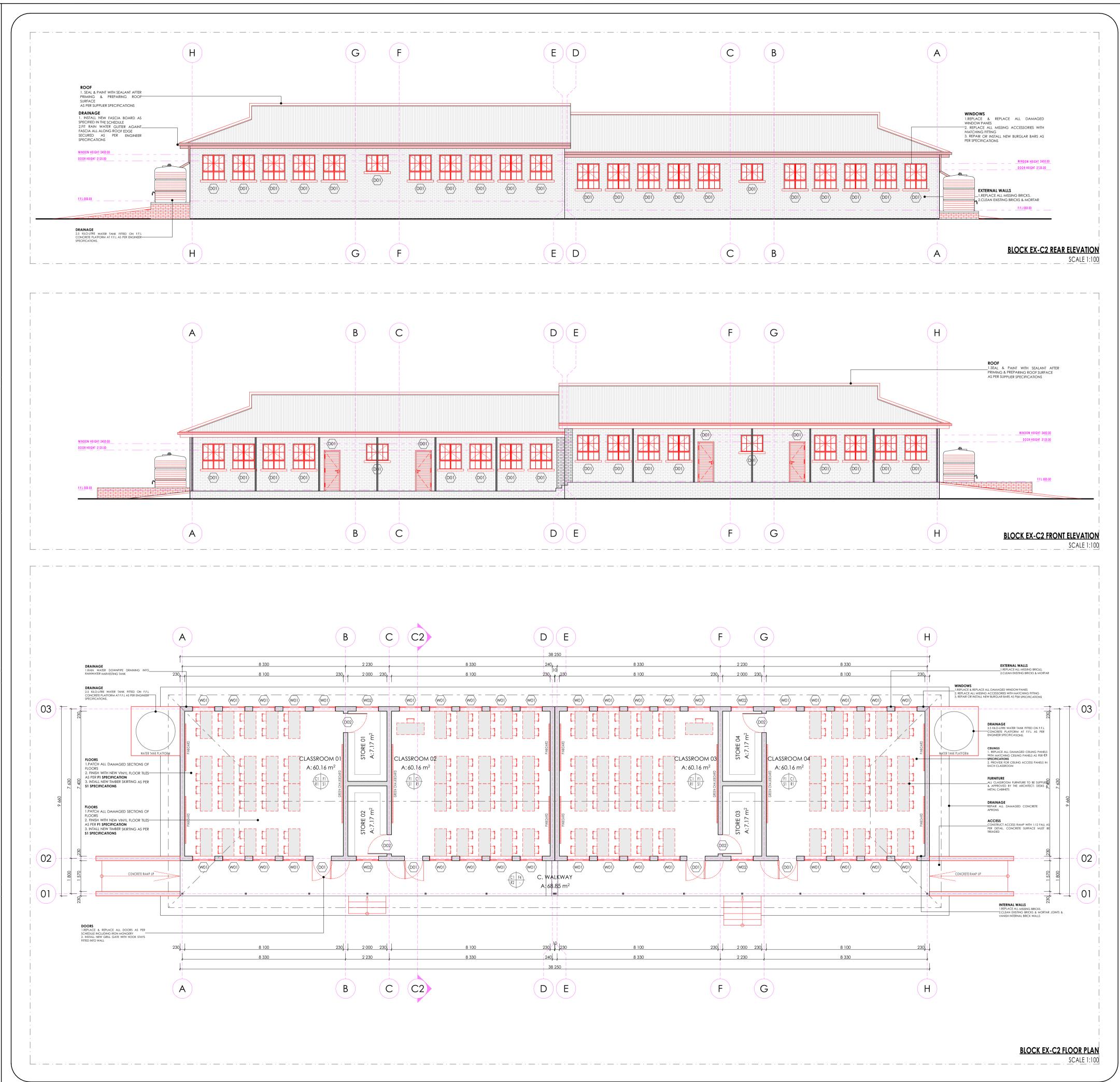
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

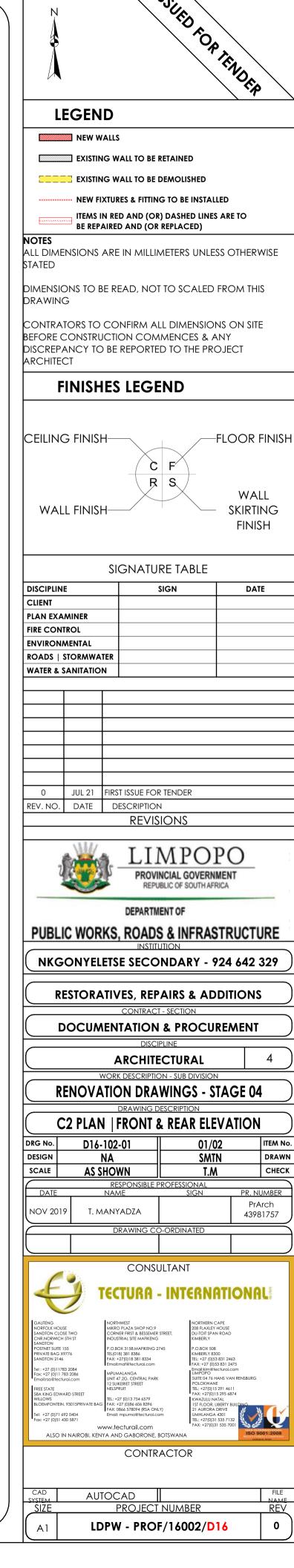
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict

compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation 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/mÑ and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising 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 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To





FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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.

7: 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

5 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 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

grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, SO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally nanufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured ato place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 1586 approved on 6mm thick light veight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

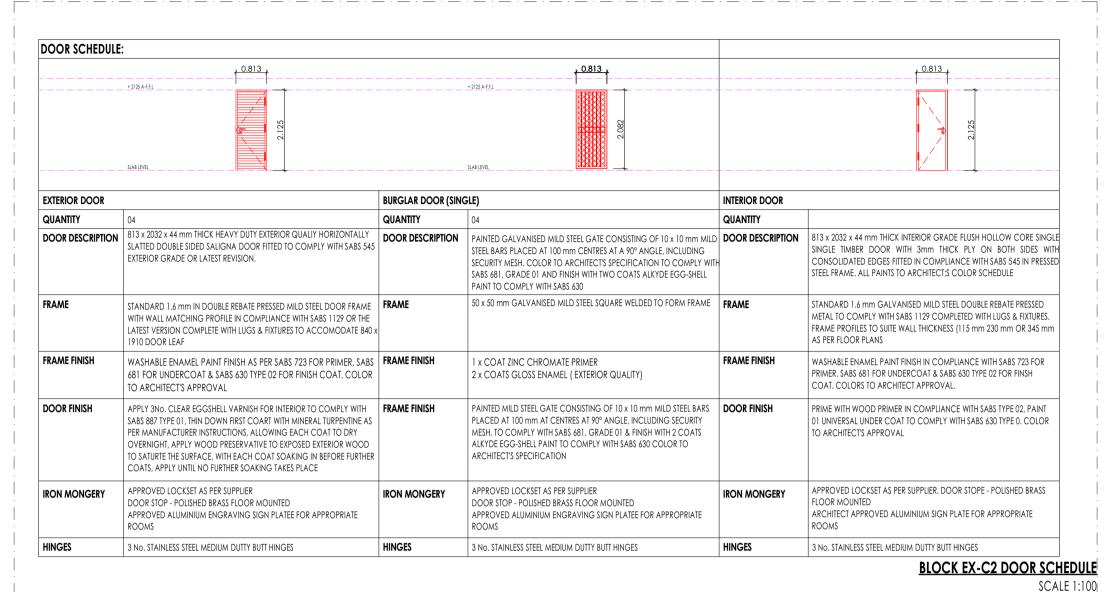
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict

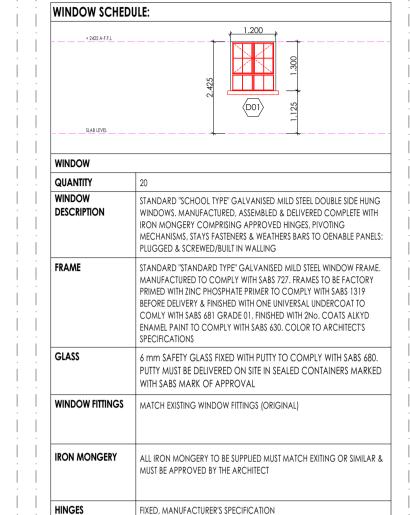
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

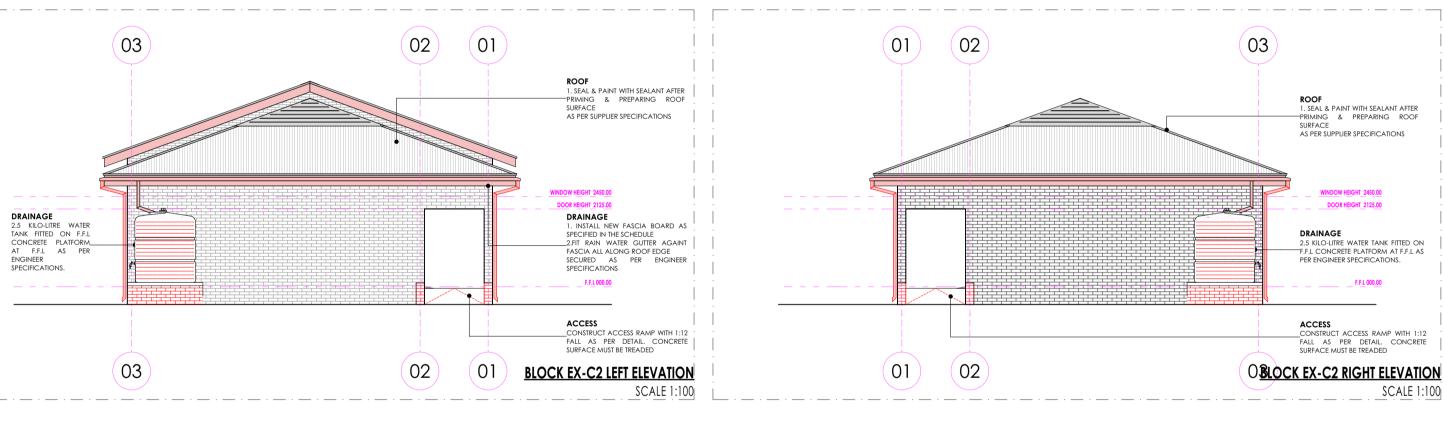
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

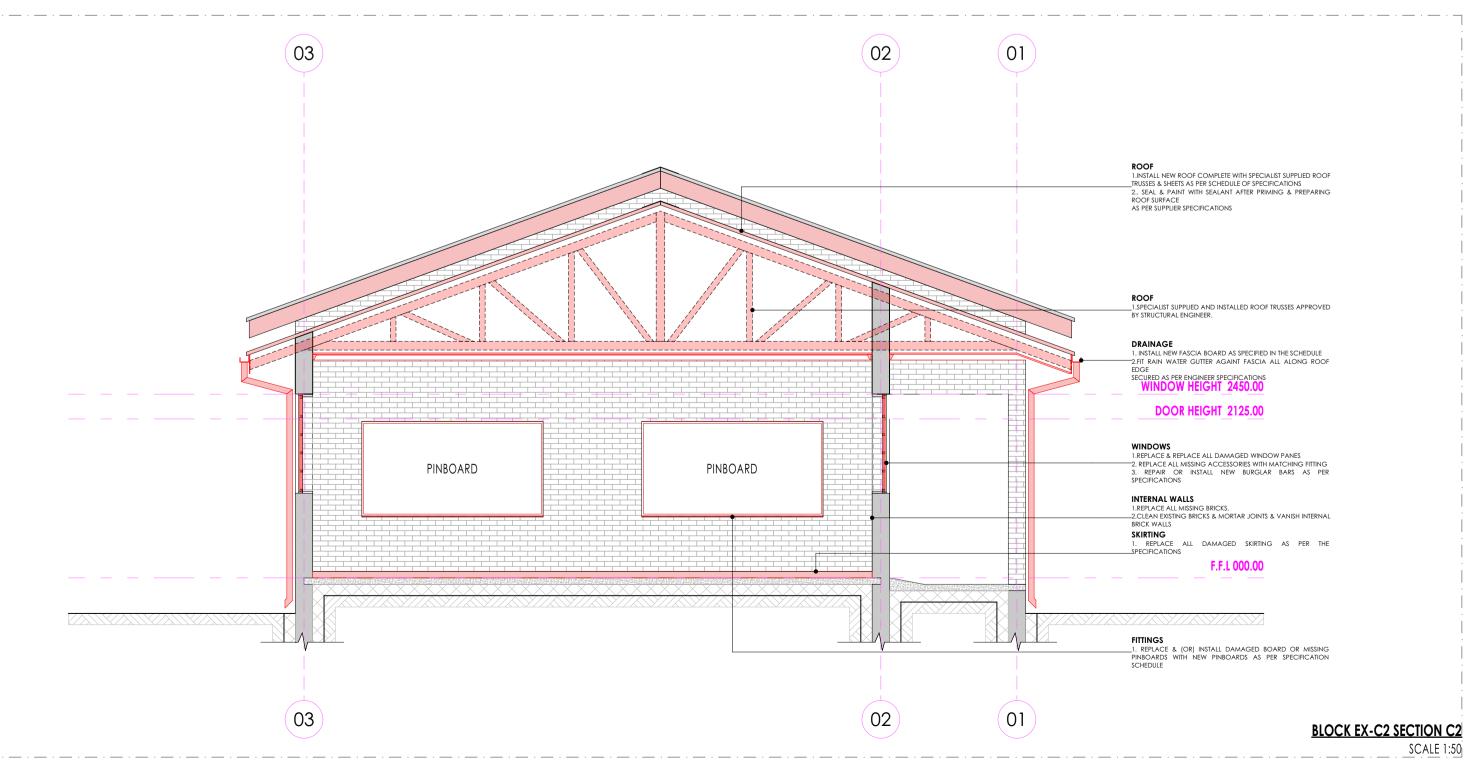
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.





BLOCK EX-C2 WINDOW SCHEDULE





SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: 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 "Ju Thermoset Plastic Seat" Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; Thermoset 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

Vitreous china 900 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 900 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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. TALL FUNG UNION WALL HUNG JURINAL wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and

mm 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:

• 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 ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP eous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

RECOUNTIES BASIN 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 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mn

standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

B3: WHITE GLAZED PORCELAIN WHB (VANITY) eramic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric accordance to manufacture'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 chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm for flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Evaluation for comply with SABS 497 and RHS hole plugged and fitted with; 1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN 8: FIITINGS (SICK BAY)
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 . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t manufacturer's specifications.

Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

• Splashback 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.

X1: STAINLESS STEEL SINK Stainless steel 1000 x 457mm inset sinale end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewl 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 assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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

Ceramic fireclay 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

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with bac nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable fo

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL ndard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domheaded mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessa accessories in accordance to manufacturer's specifications.

nm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance manufacturer's specifications.

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 $\overline{32}$ mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

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 screw

and plastic wall plugs. Installed as per manufacturer's instructions 350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar

installed in accordance to manufacturer's specification K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance manufacturer's specifications.

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple

K11: HAND DRYER (Hands free) 55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as pe

K13: SHOWER CURTAIN RAIL (straight) 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

K5: SOAP HOLDER

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut

G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G7: SS FLOOR EXPANSION JOINT COVER

Co-extruded 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

mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose

system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir accordance with the manufacturer's instructions



PROJECT NUMBER

LDPW - PROF/16002/D16

FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers 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: CARPET TILES

500mm x 500mm, 100% PFX staple fibre carpet tiles To Comply With \$AB\$ 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 B\$ 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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, 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant

plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, 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 files 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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 Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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

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 soffit. ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

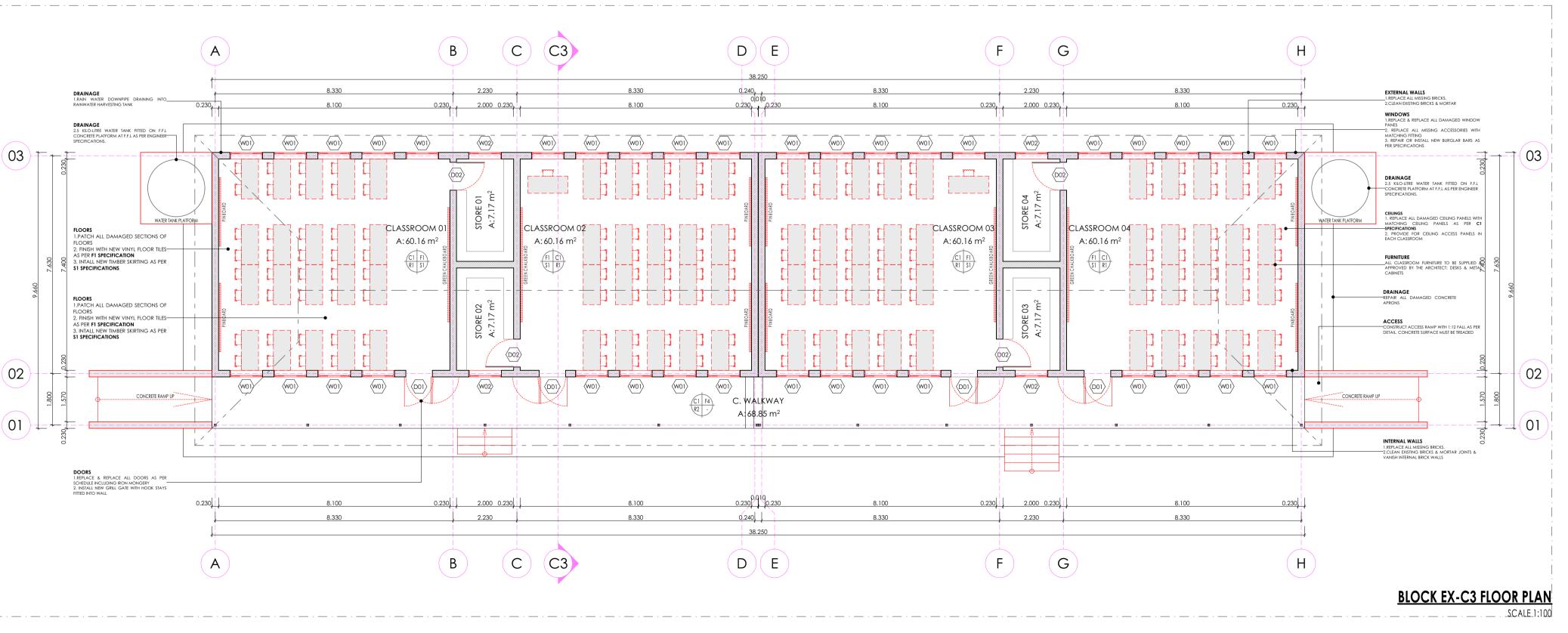
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict compliance to manufacturer's instructions.

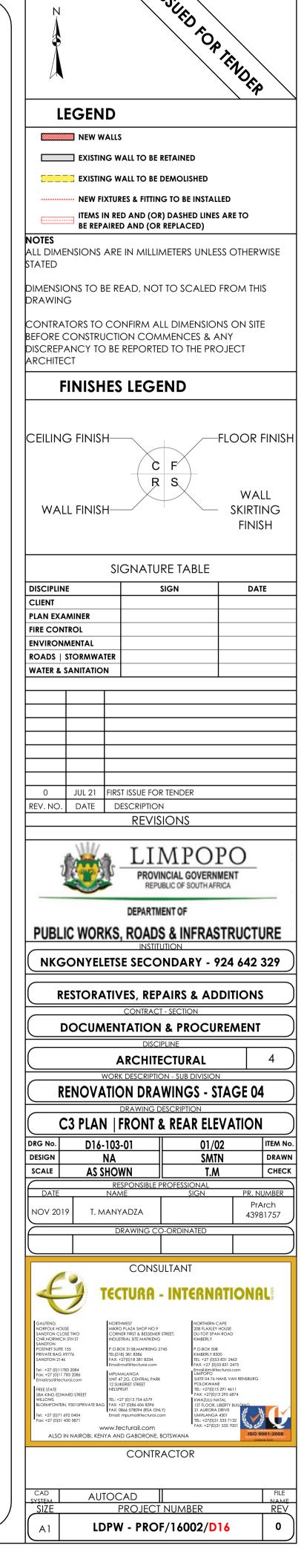
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising 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 Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To







FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

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F6: GRANOLITHIC FINISH

22 mm thick untinted 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.

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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 VINLY 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 glued with conducive 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.

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

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"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

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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 no, coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no, coat undercoat to SABS 68 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant

laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions. R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

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C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, SO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he ceiling using Gyproc RhinoLite.

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C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured ato place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 1586 approved on 6mm thick light veight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

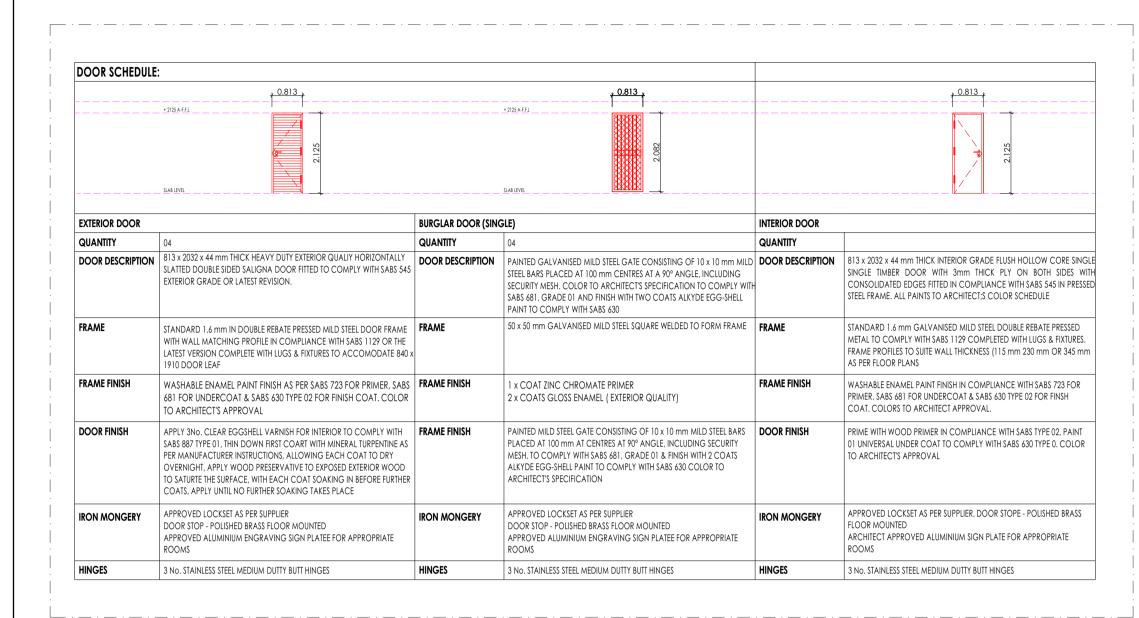
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

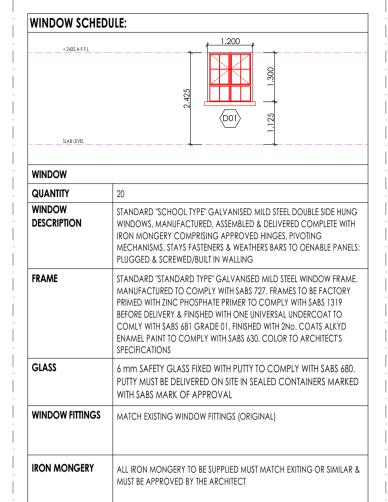
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

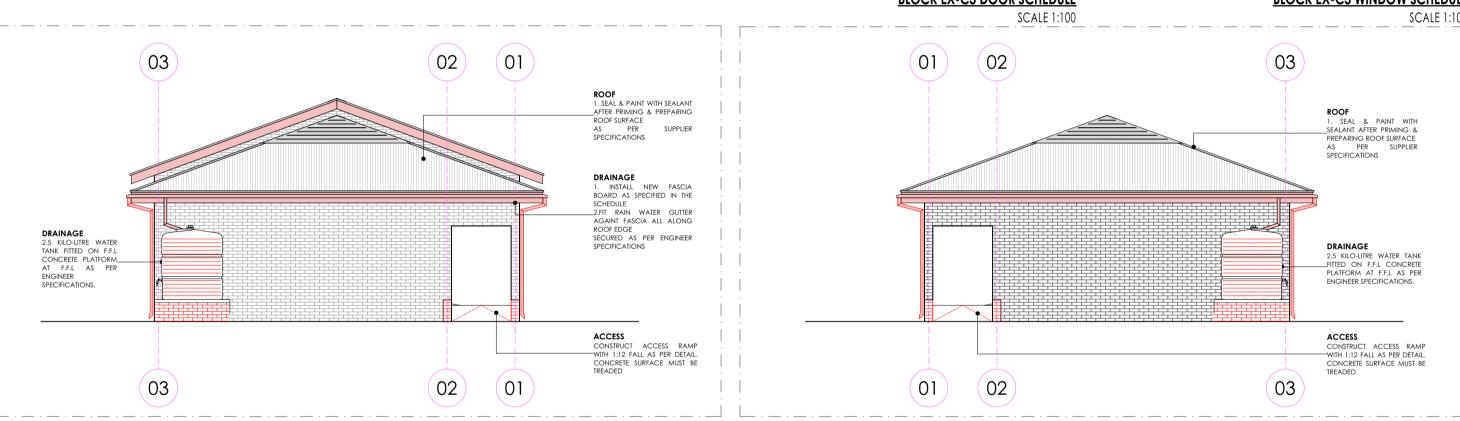
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To

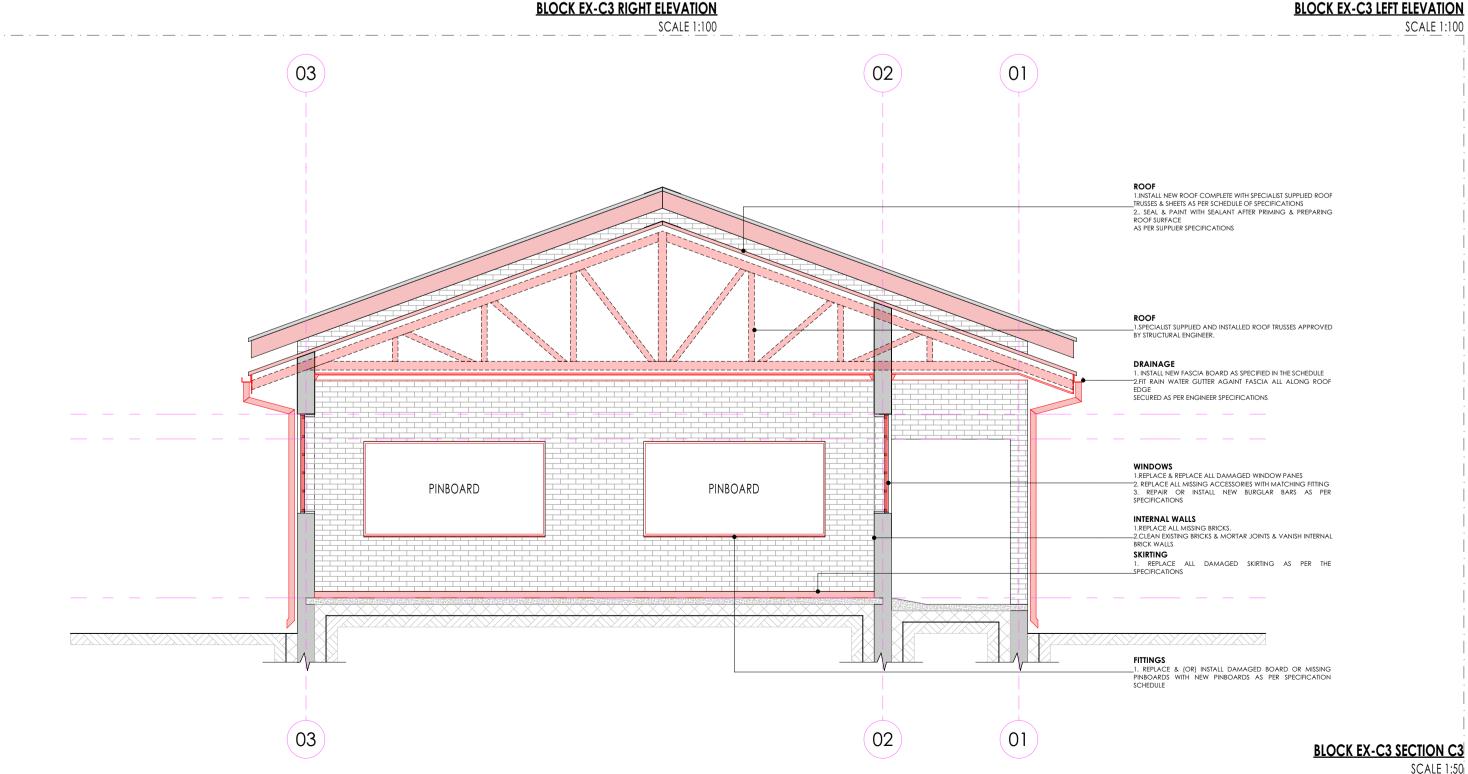
Manufacturer Installation Instructions. Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.





FIXED, MANUFACTURER'S SPECIFICATION





SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id Thermoset Plastic Seat". Fitted with Concealed Flushina Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; Thermoset 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 parapleaic access

Vitreous china 900 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 900 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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

TALL FUNG UNION WALL HUNG JURINAL wall hang bowl urinal to comply with SABS 497. 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

mm 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:

• 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 ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP eous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

RECOUNTIES BASIN 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 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mn

standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the B3: WHITE GLAZED PORCELAIN WHB (VANITY)

eramic firectay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric accordance to manufacture'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 chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm for flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Examination of comply with SABS 497 and RHS hole plugged and fitted with; 1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

Wifeous china 310 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 . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

• Splashback 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.

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 elsew measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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

Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealer brackets supplied with all necessary accessories (all to be acid resistant

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS 0 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with bac nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable fo

SANITARY ACCESSORIES

K5: SOAP HOLDER

K1: SS TOILET ROLL HOLDER- 2 ROLL ındard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

5mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom headed mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessa accessories in accordance to manufacturer's specifications.

x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

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 $\overline{32}$ mm 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 screw and plastic wall plugs. Installed as per manufacturer's instructions

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar installed in accordance to manufacturer's specification

K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance manufacturer's specifications.

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as pe

K11: HAND DRYER (Hands free)

K13: SHOWER CURTAIN RAIL (straight)

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

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

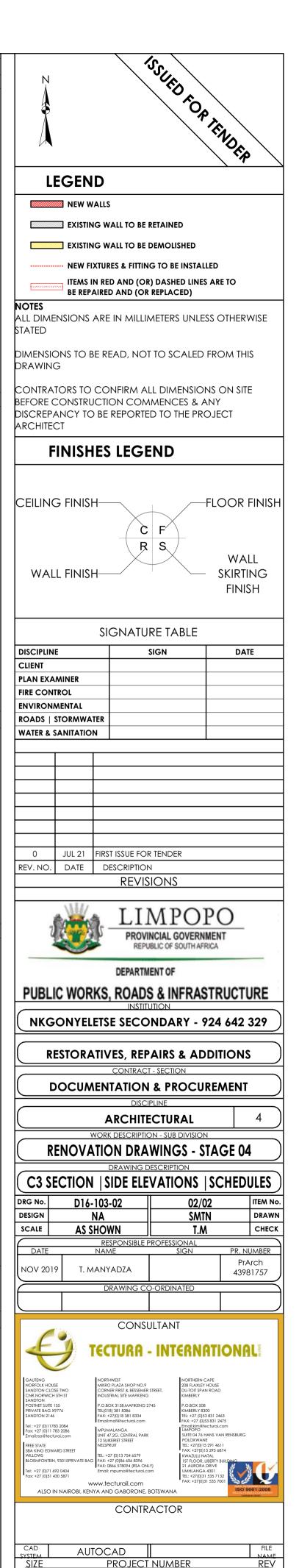
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric)

27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose 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 bolt, , including connections to downpipes. G7: SS FLOOR EXPANSION JOINT COVER

Co-extruded 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 system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir accordance with the manufacturer's instructions



LDPW - PROF/16002/D16

FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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: CARPET TILES

500mm x 500mm, 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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:

\$1: HARDWOOD OR EQUAL AND APPROVED

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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: 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 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant

plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions. R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light

weight hemi-hydrate gypsum plaster on concrete slab soffit. **ROOF COVERING AND INSULATION:**

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

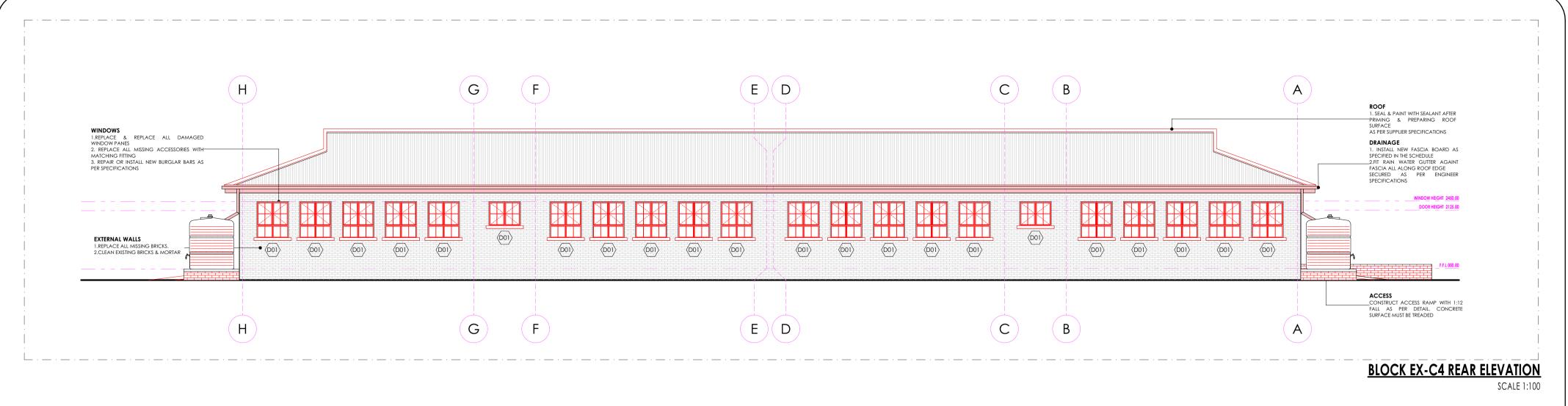
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

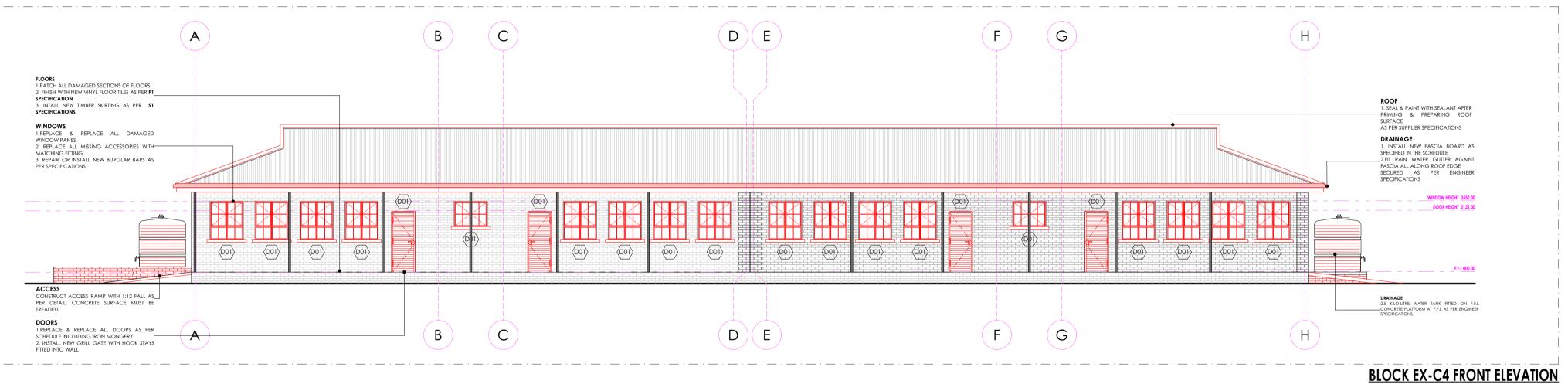
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict

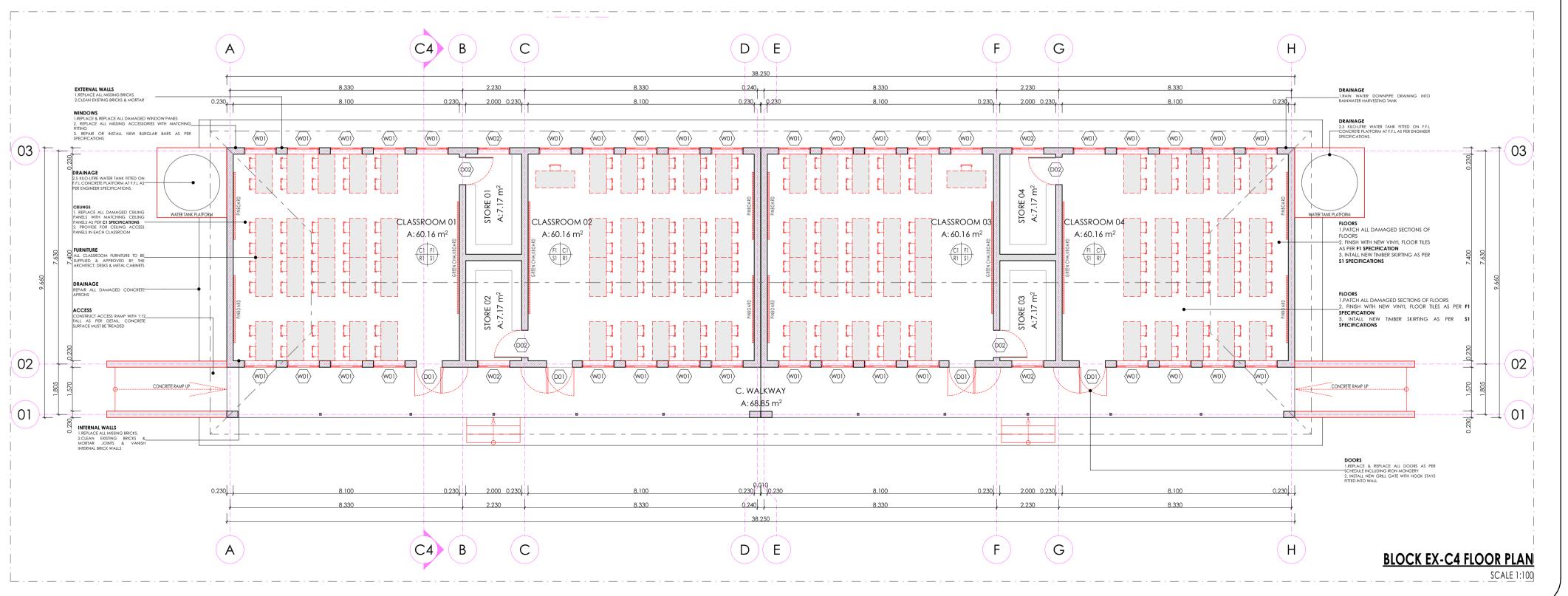
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

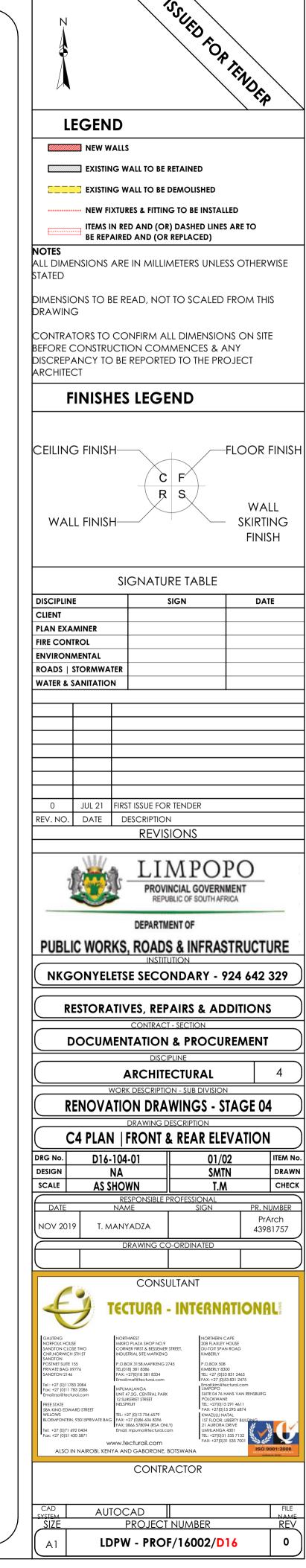
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To Manufacturer Installation Instructions.









FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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.

7: 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished with 3No. coats of egg shell clear vanish 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 nick 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 tiles where there is change of level. Colour and pattern to architects approval.

5 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 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 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant

laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions. R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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.

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

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, SO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally nanufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured ato place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 nanufacturer'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 veight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

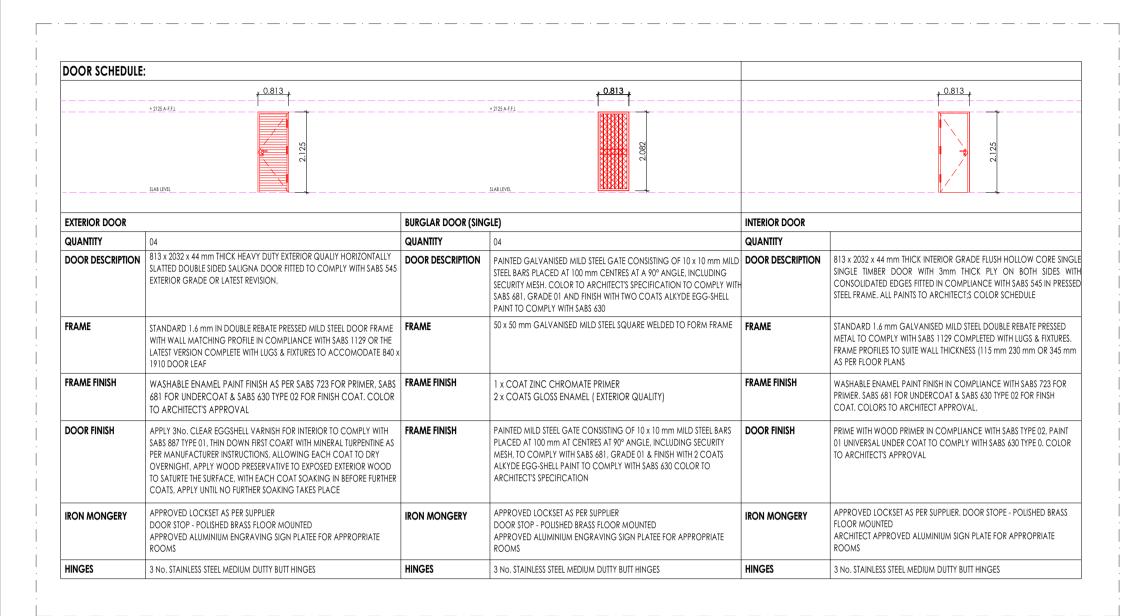
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

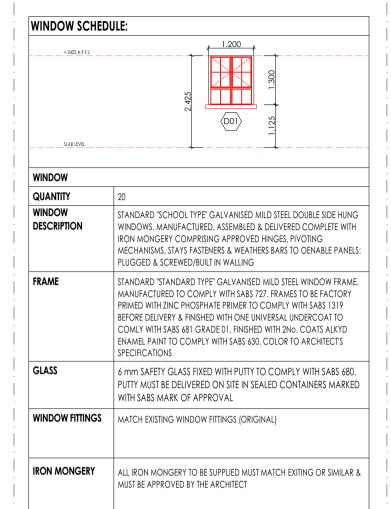
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

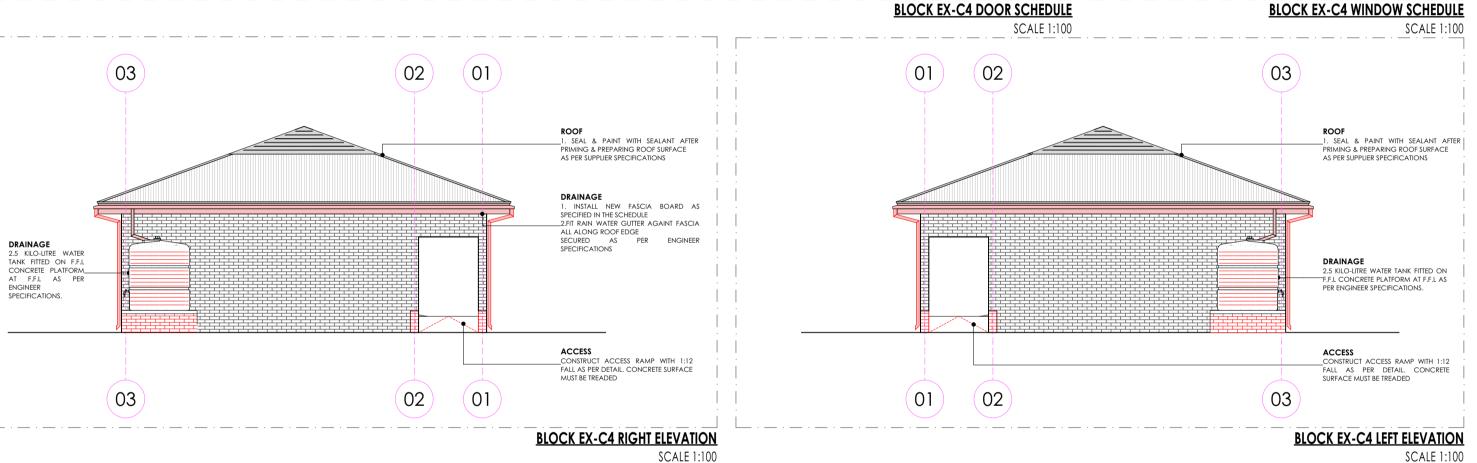
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

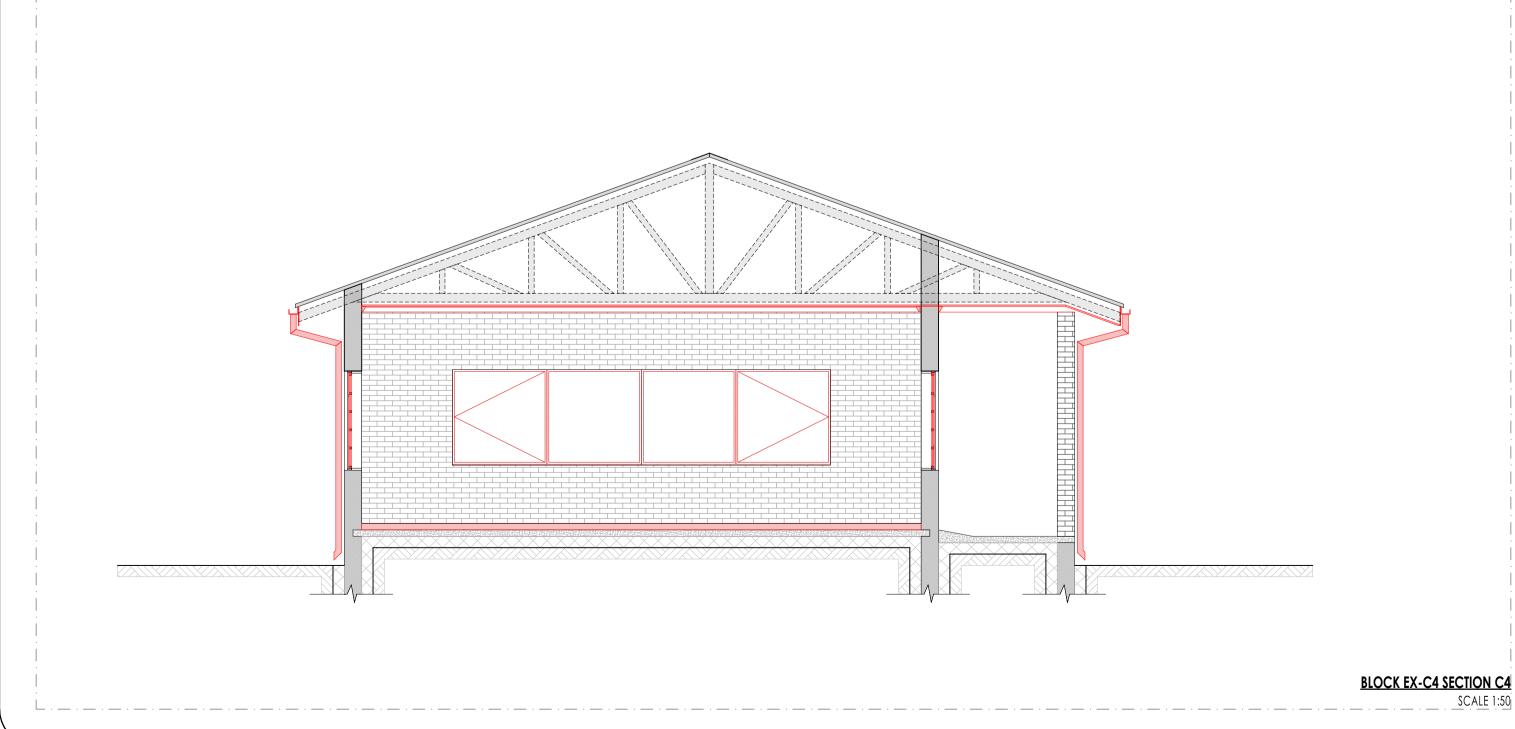
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.





FIXED, MANUFACTURER'S SPECIFICATION





SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: 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 "Ju Thermoset Plastic Seat". Fitted with Concealed Flushina Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; Thermoset 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 900 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 900 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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

TAIL CERAMIC WALL HUNG URINAL wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader an

mm 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: • 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 ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP eous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

RECOUNTIES BASIN 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 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mn

standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the B3: WHITE GLAZED PORCELAIN WHB (VANITY) amic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric accordance to manufacture'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 chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm for flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Evaluation for comply with SABS 497 and RHS hole plugged and fitted with; 1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

Wifeous china 310 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 . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

• Splashback 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.

X1: STAINLESS STEEL SINK

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

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

Ceramic fireclay 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

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm. X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with bac nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable fo

SANITARY ACCESSORIES

K5: SOAP HOLDER

K1: SS TOILET ROLL HOLDER- 2 ROLL dard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

imm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom headed mirror screws

K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel. Surface Satin Finish, Material Thickness 1,5mm, including Screws,dowels and all necessa accessories in accordance to manufacturer's specifications.

x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance manufacturer's specifications.

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 \$\$ fixing screws and plastic wall plugs. Installed as pe manufacturer's instructions. K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC

Stainless steel 101 & 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 screv and plastic wall plugs. Installed as per manufacturer's instructions

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories at installed in accordance to manufacturer's specification

K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple K11: HAND DRYER (Hands free)

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as p K13: SHOWER CURTAIN RAIL (straight)

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

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose

G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G7: SS FLOOR EXPANSION JOINT COVER

Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansior joints, in accordance to the manufacturer's specifications. G8: CHALKBOARDS- GREEN SURFACE COLOUR

n 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm higt manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Util chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete wit ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly accordance with the manufacturer's instructions



ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

AUTOCAD

CONTRACTOR

PROJECT NUMBER

LDPW - PROF/16002/D16

FINISHES LEGEND FLOORS: F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery) 420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip. 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 manufacturers 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: CARPET TILES 500mm x 500mm, 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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 F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS compliance to SABS 1058 or Latest Revision. F6: GRANOLITHIC FINISH 22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that architects approval. F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

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

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

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 VINLY 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 glued with conducive 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:

\$1: HARDWOOD OR EQUAL AND APPROVED

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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 SAB\$ 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 grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

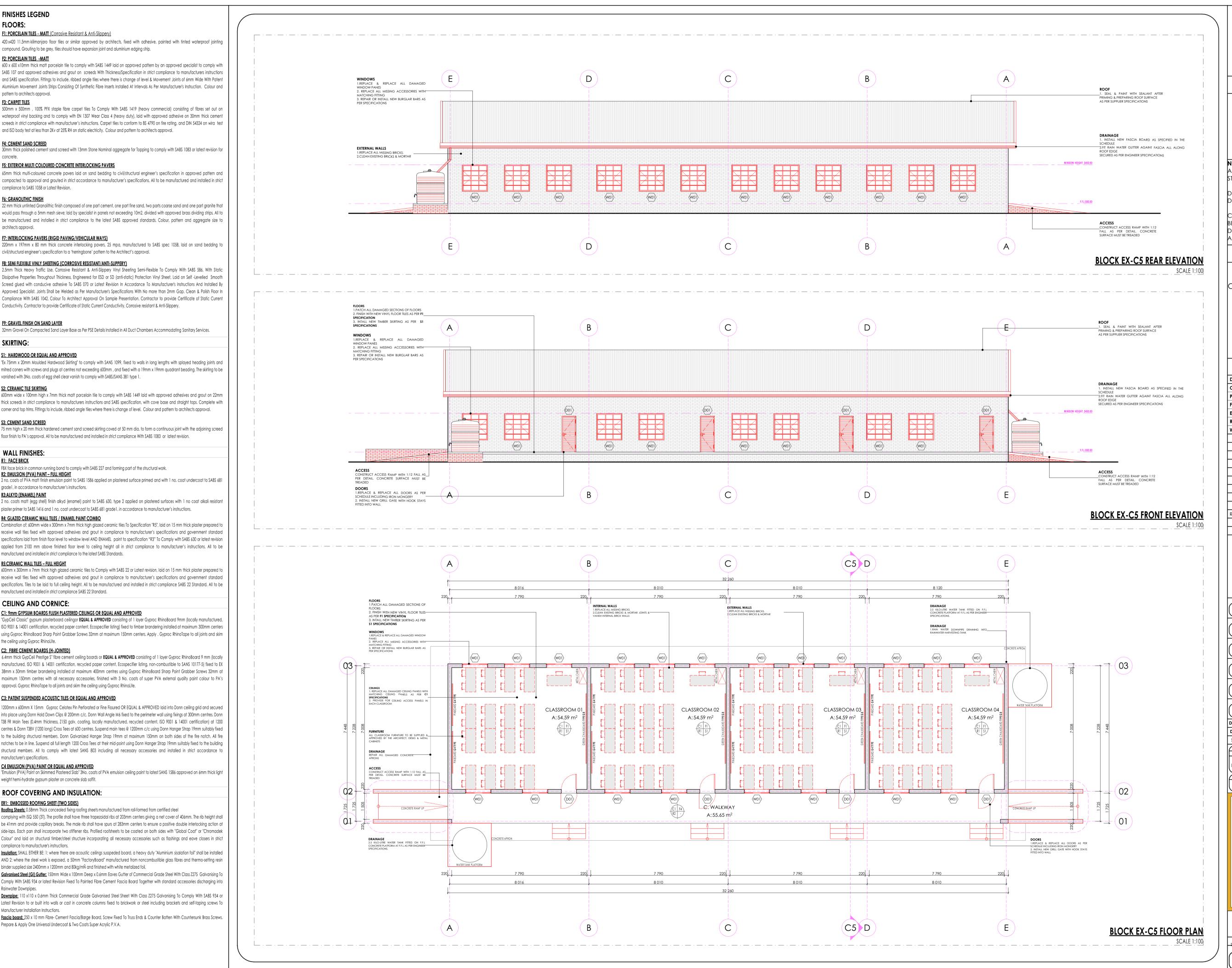
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

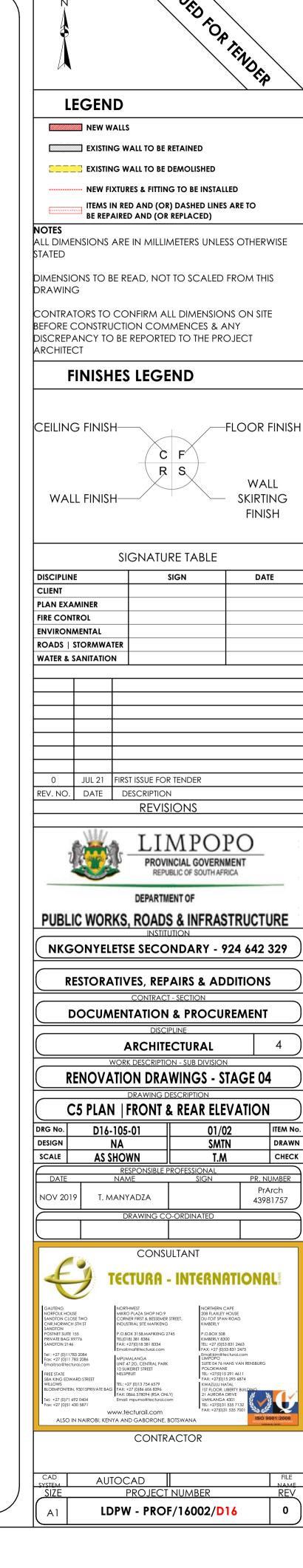
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation 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/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising 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 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To Manufacturer Installation Instructions.





FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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.

7: 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and nitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

5 mm high x 20 mm thick hardened cement sand screed skirting coved 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:

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 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 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepare 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, SO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally nanufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured ato place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 1586 approved on 6mm thick light veight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

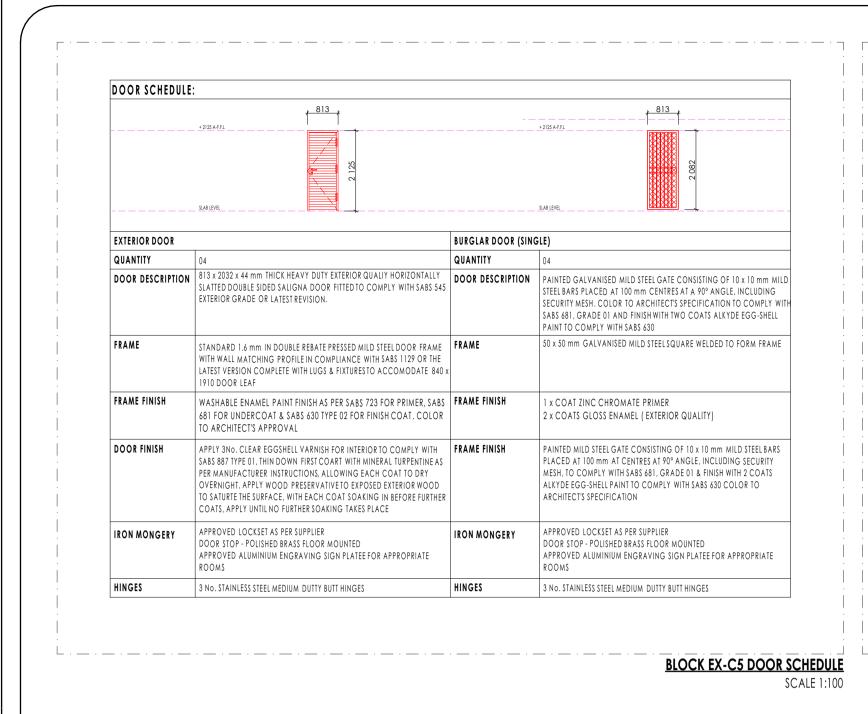
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict

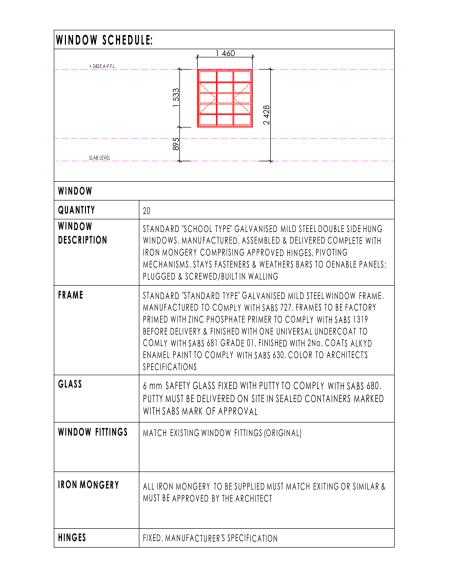
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

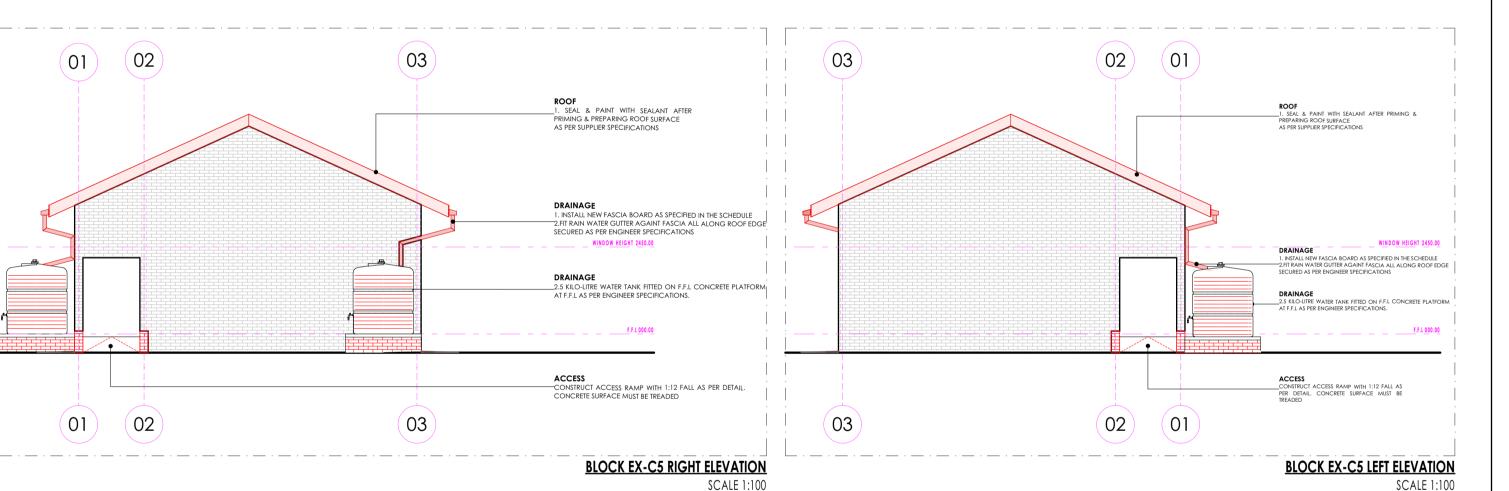
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

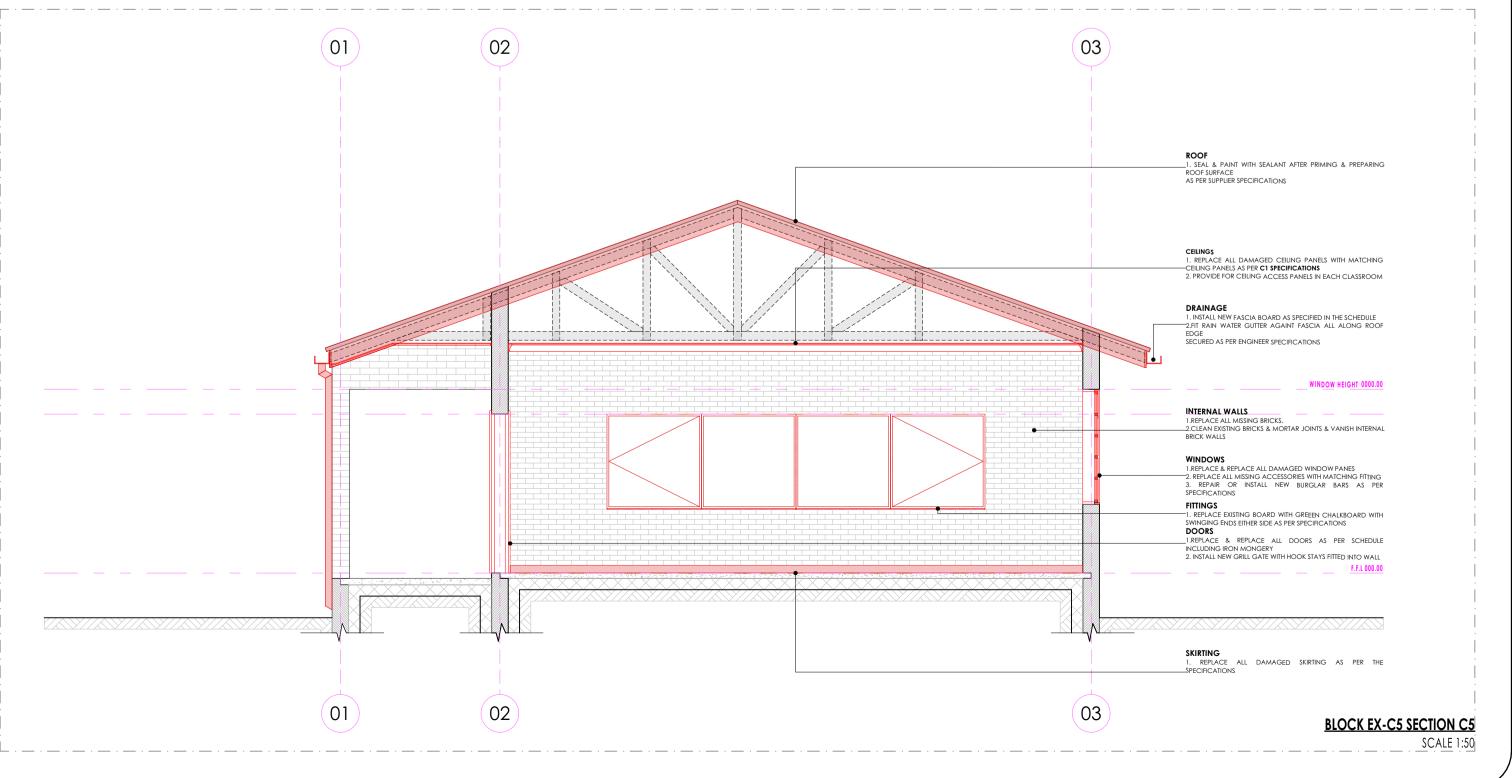
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm 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.









SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: 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 "Ju Thermoset 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

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; Thermoset 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 parapleaic access

Vitreous china 900 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 900 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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. 74: CERAMIC WALL HUNG URINAL wall hang bowl urinal to comply with SABS 497. 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

mm 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:

• 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 ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower

tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

BLOCK EX-C5 WINDOW SCHEDULE

B1: WHB & MIXER TAP ous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with sinale tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

#2: DISABLED BASIN 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 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

B3: WHITE GLAZED PORCELAIN WHB (VANITY) Ceramic fireclay size 450x350mm aval self-rimming vanity basin to comply with SABS 497 in one tap hale configuration supplied without overflow and fitted with

1No. 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS) itreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm for flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

Wifeous china 310 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 . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

• Splashback 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.

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 elsewh 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 assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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

Ceramic fireclay 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

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fittee with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm. X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with bac nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square \$\$ gallow brackets, front leg and adjustable for

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL dard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domheaded mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessa accessories in accordance to manufacturer's specifications. n x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance

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 \$\$ fixing screws and plastic wall plugs. Installed as pe manufacturer's instructions.

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 screw

and plastic wall plugs. Installed as per manufacturer's instructions 350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar

installed in accordance to manufacturer's specification K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance manufacturer's specifications.

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple

K11: HAND DRYER (Hands free)

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as pe

K13: SHOWER CURTAIN RAIL (straight)

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

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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.

Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour

mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose 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 bolt, , including connections to downpipes.

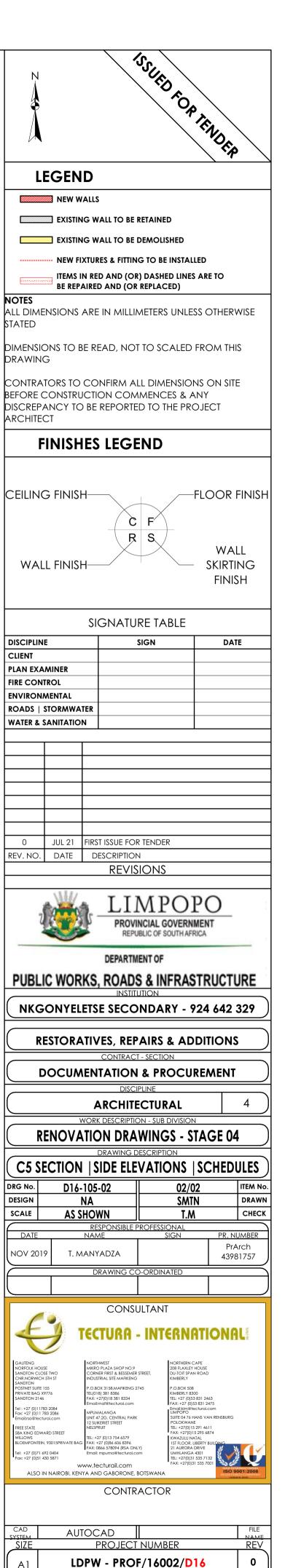
G7: SS FLOOR EXPANSION JOINT COVER Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion

accordance with the manufacturer's instructions

joints, in accordance to the manufacturer's specifications. G8: CHALKBOARDS- GREEN SURFACE COLOUR system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utili

chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with

ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir



FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% PFX staple fibre carpet files 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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: 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

grade1, in accordance to manufacturer's instructions.

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, 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 t 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.

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

"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict

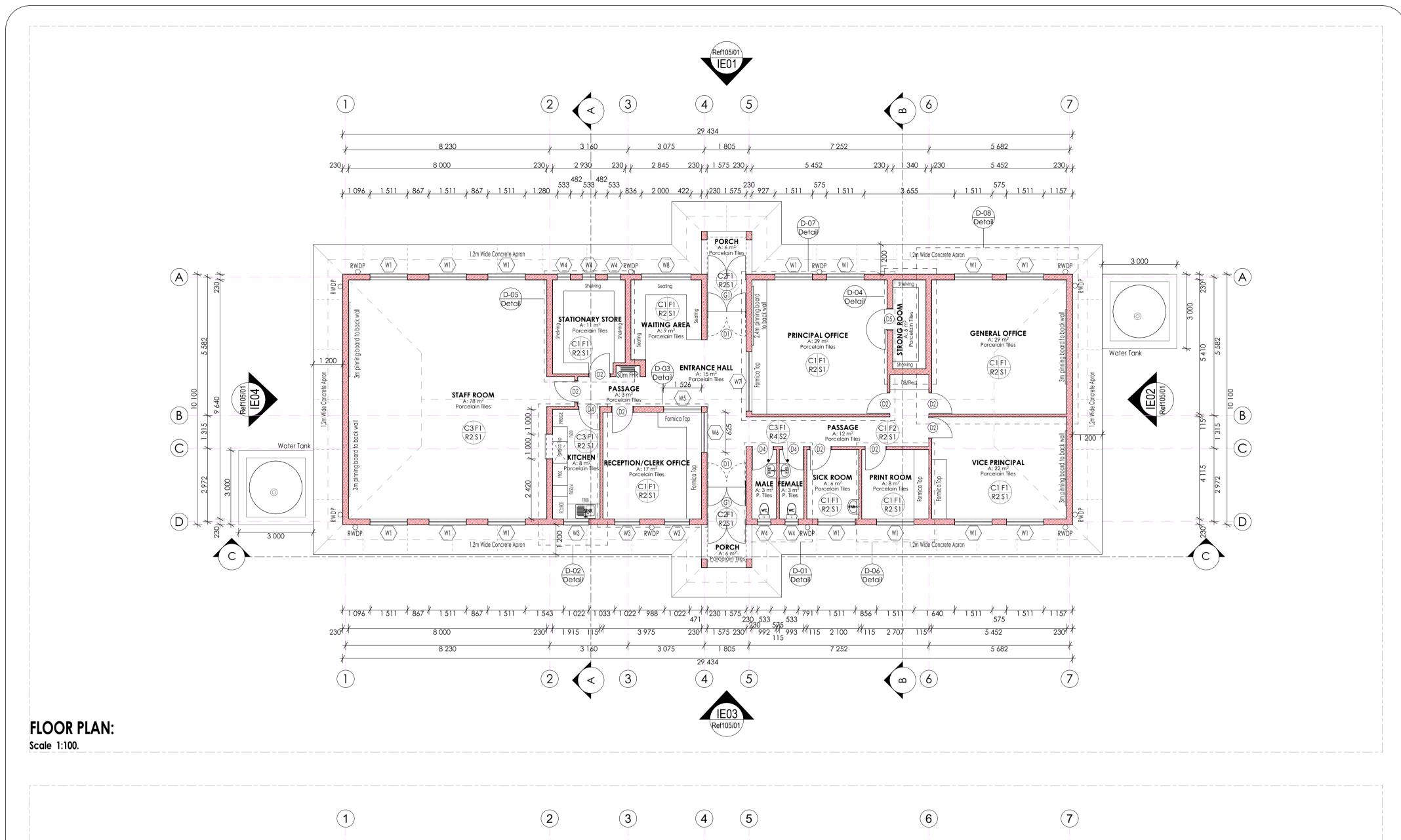
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

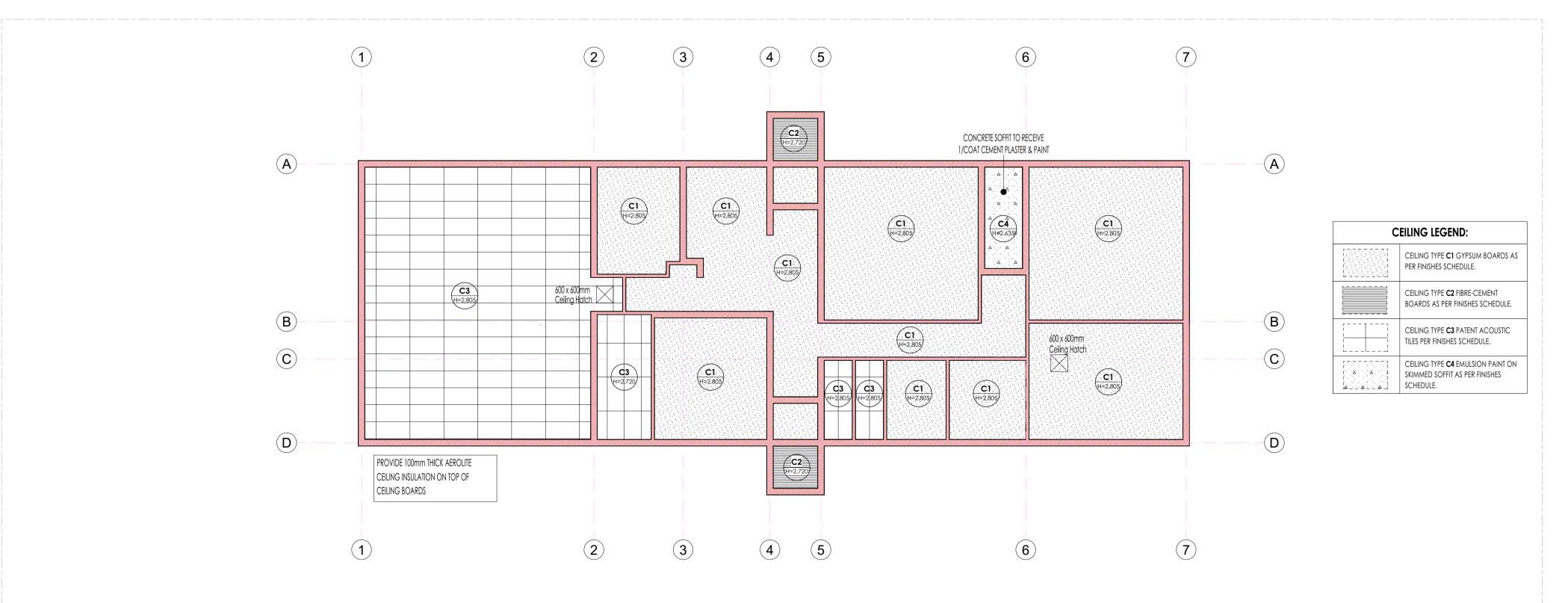
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

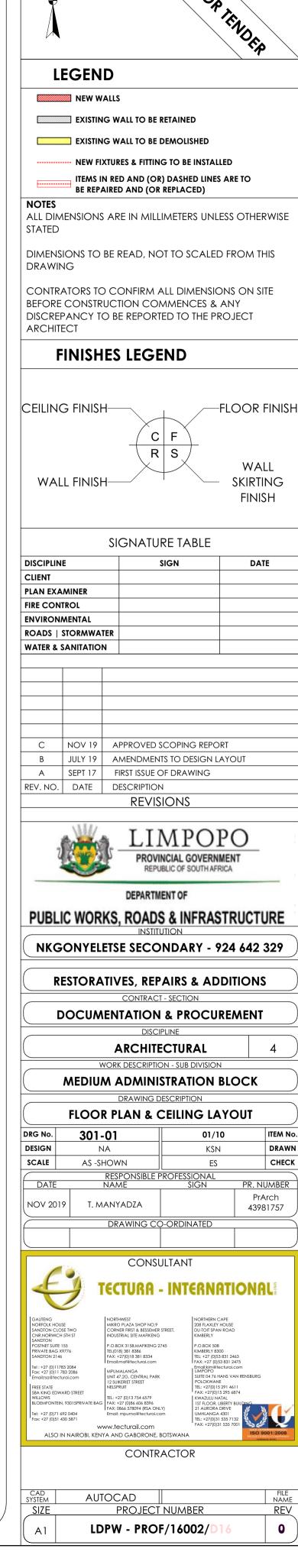
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

CEILING PLAN:

Scale 1:100.







FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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: CARPET TILES

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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:

\$1: HARDWOOD OR EQUAL AND APPROVED

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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: 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 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

grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light

weight hemi-hydrate gypsum plaster on concrete slab soffit. ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

compliance to manufacturer's instructions.

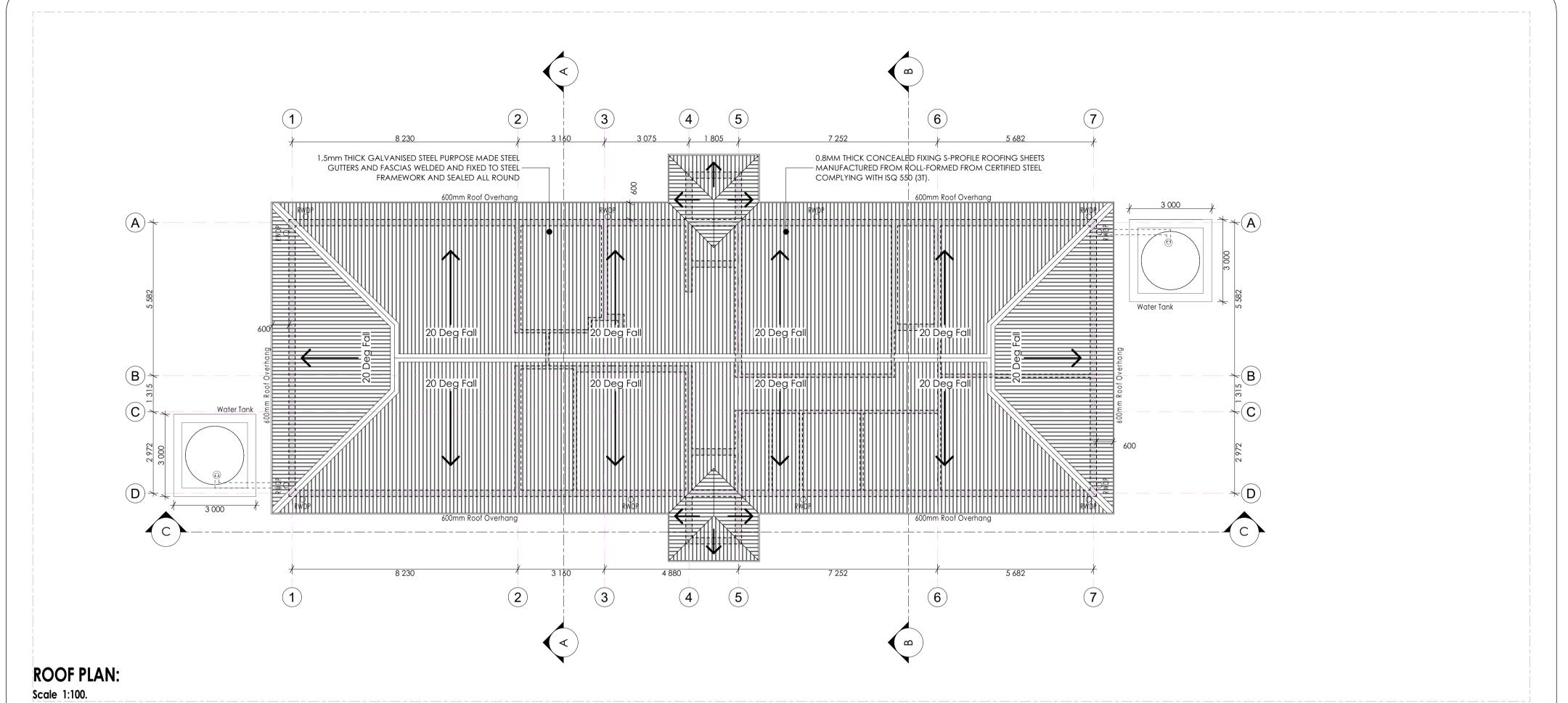
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

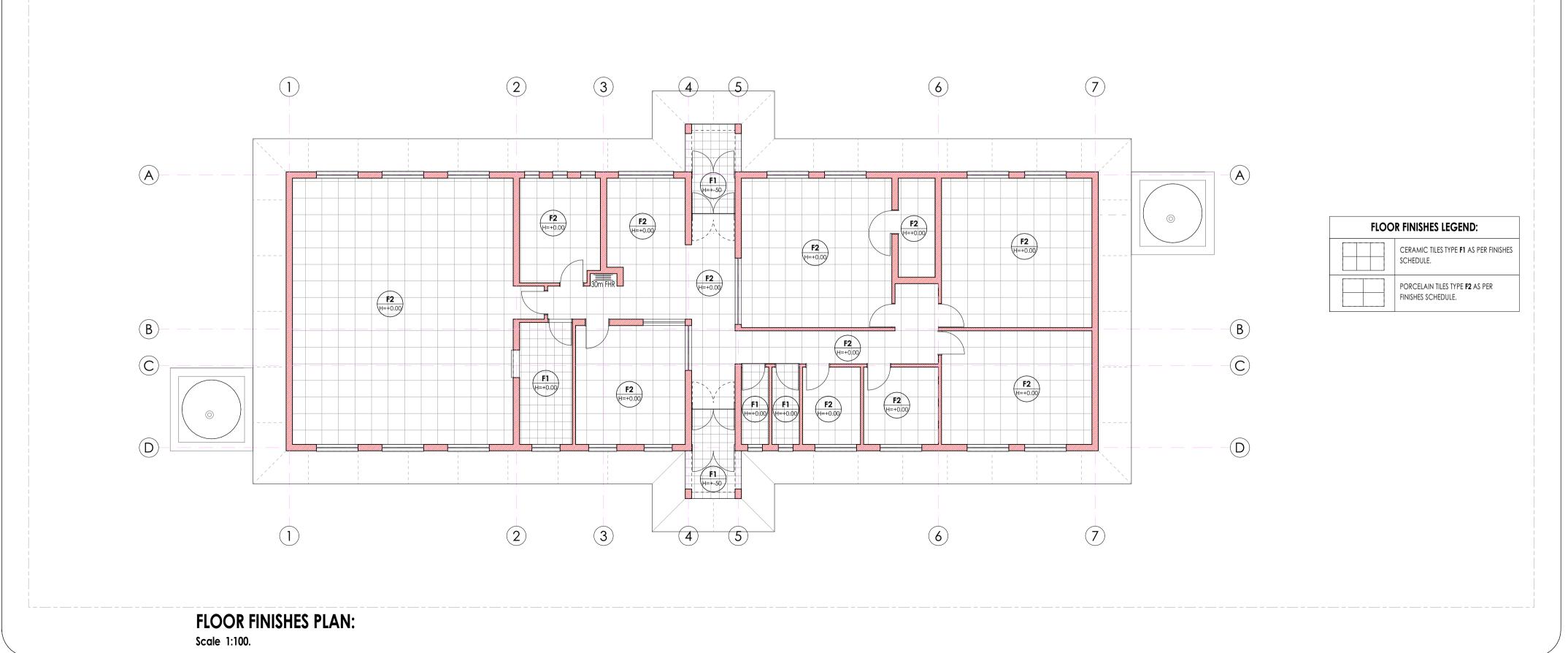
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict

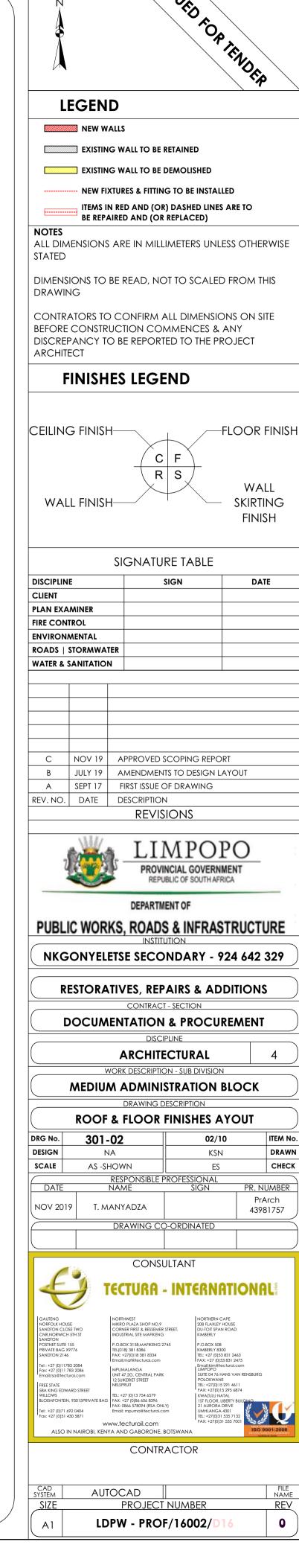
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

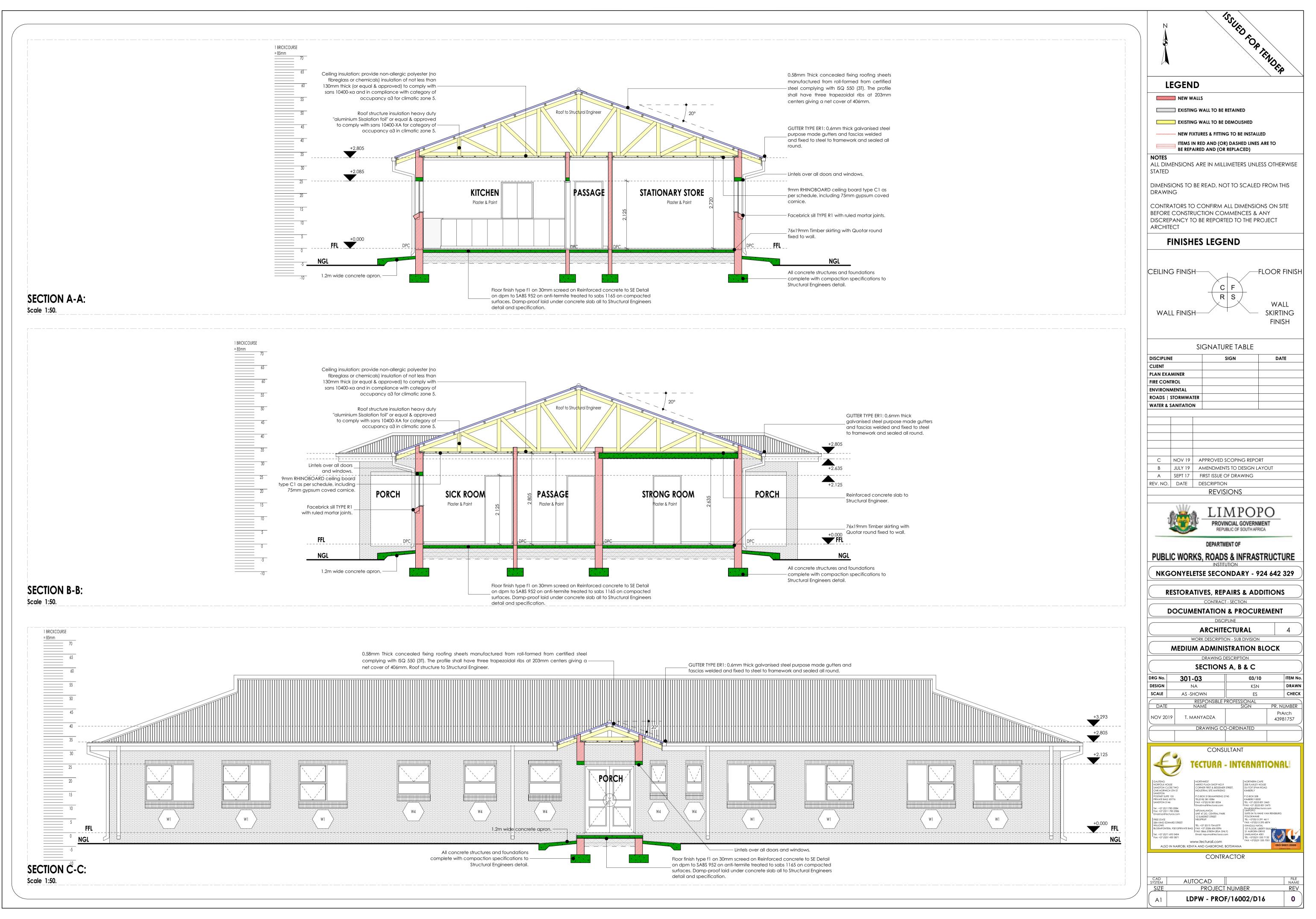
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To Manufacturer Installation Instructions.









FINISHES LEGEND FLOORS: F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery) 420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing

compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers 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: CARPET TILES

500mm x 500mm , 100% 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 files to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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.

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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

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75 mm high x 20 mm thick hardened cement sand screed skirting coved 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: 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

grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, 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.

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CEILING AND CORNICE:

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C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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 Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at

Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

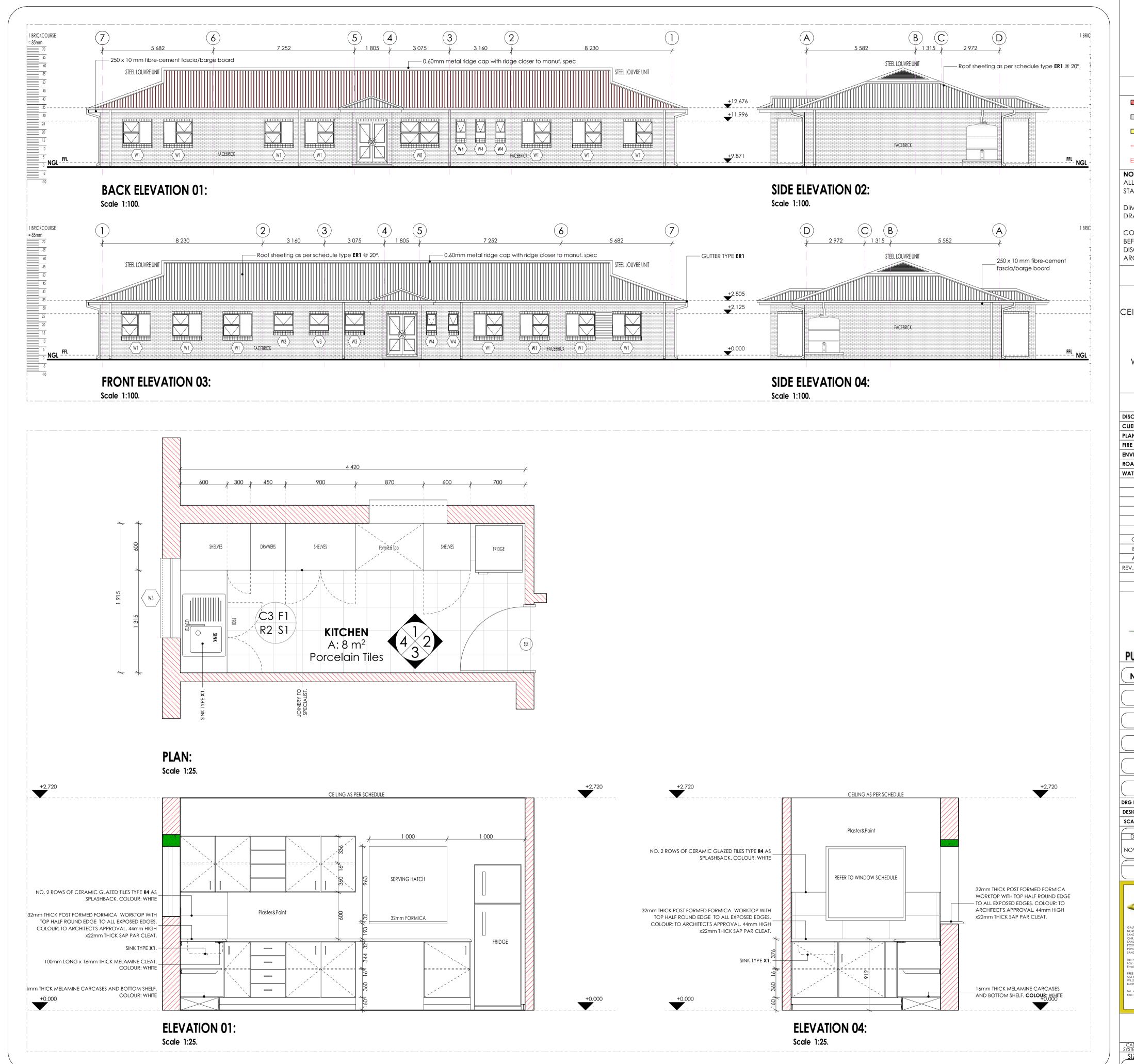
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

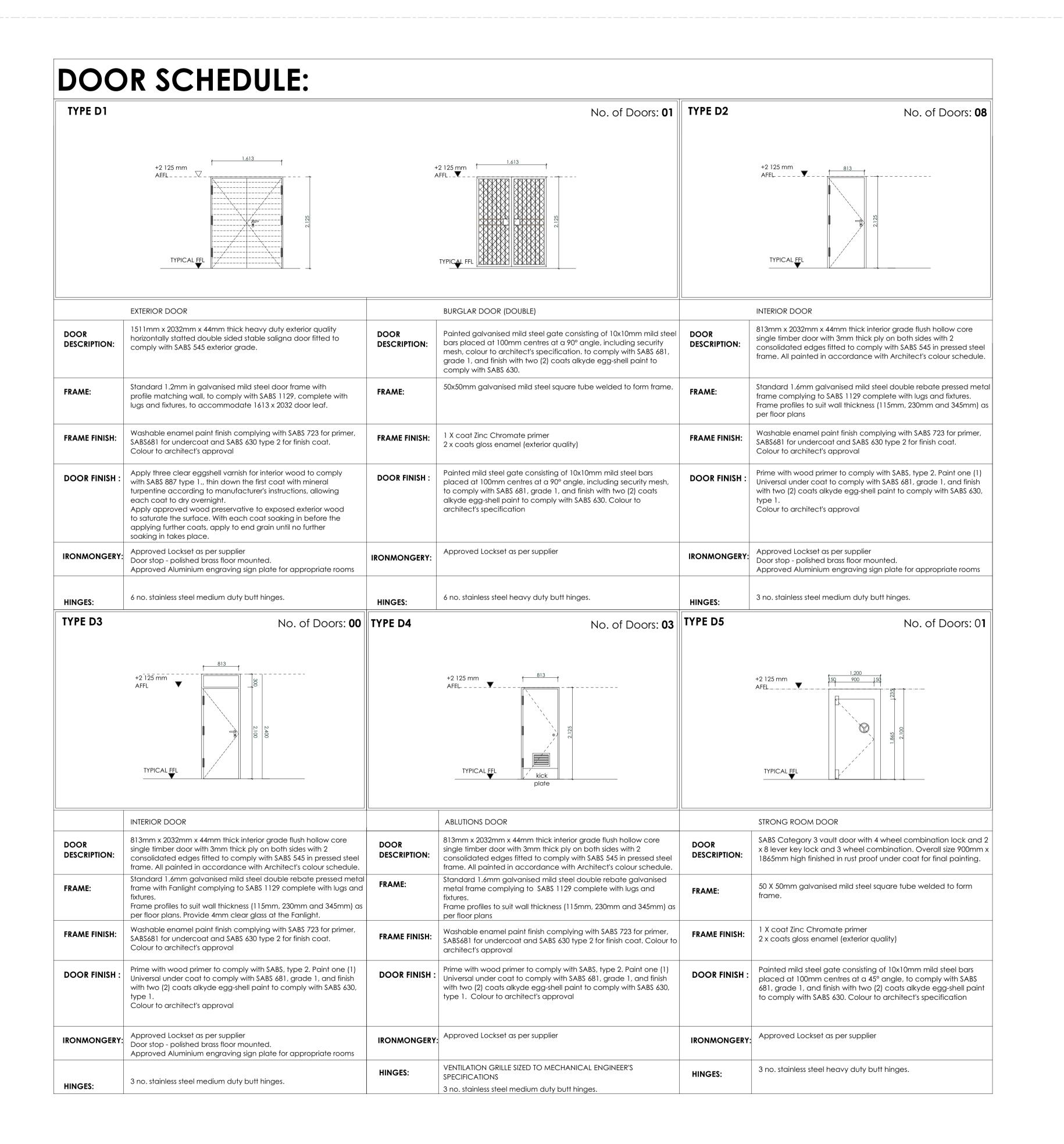
side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

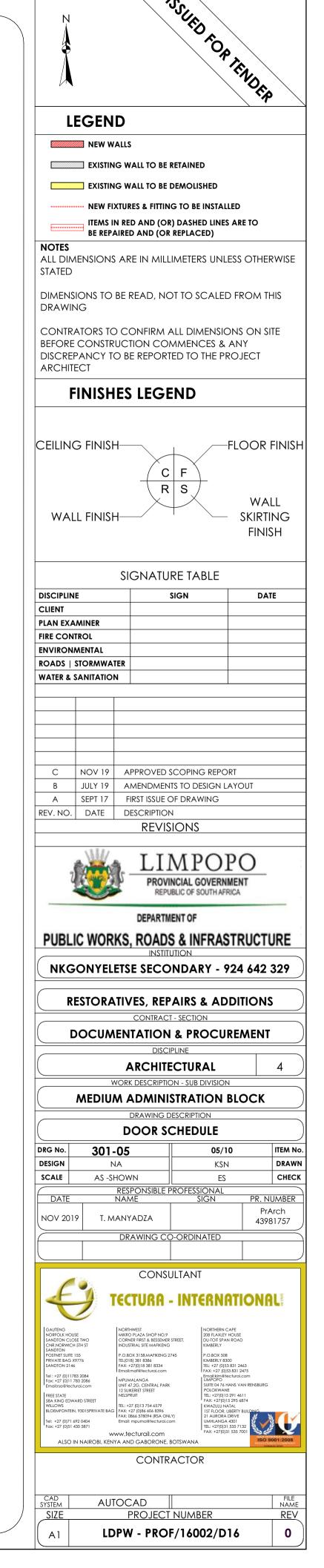
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

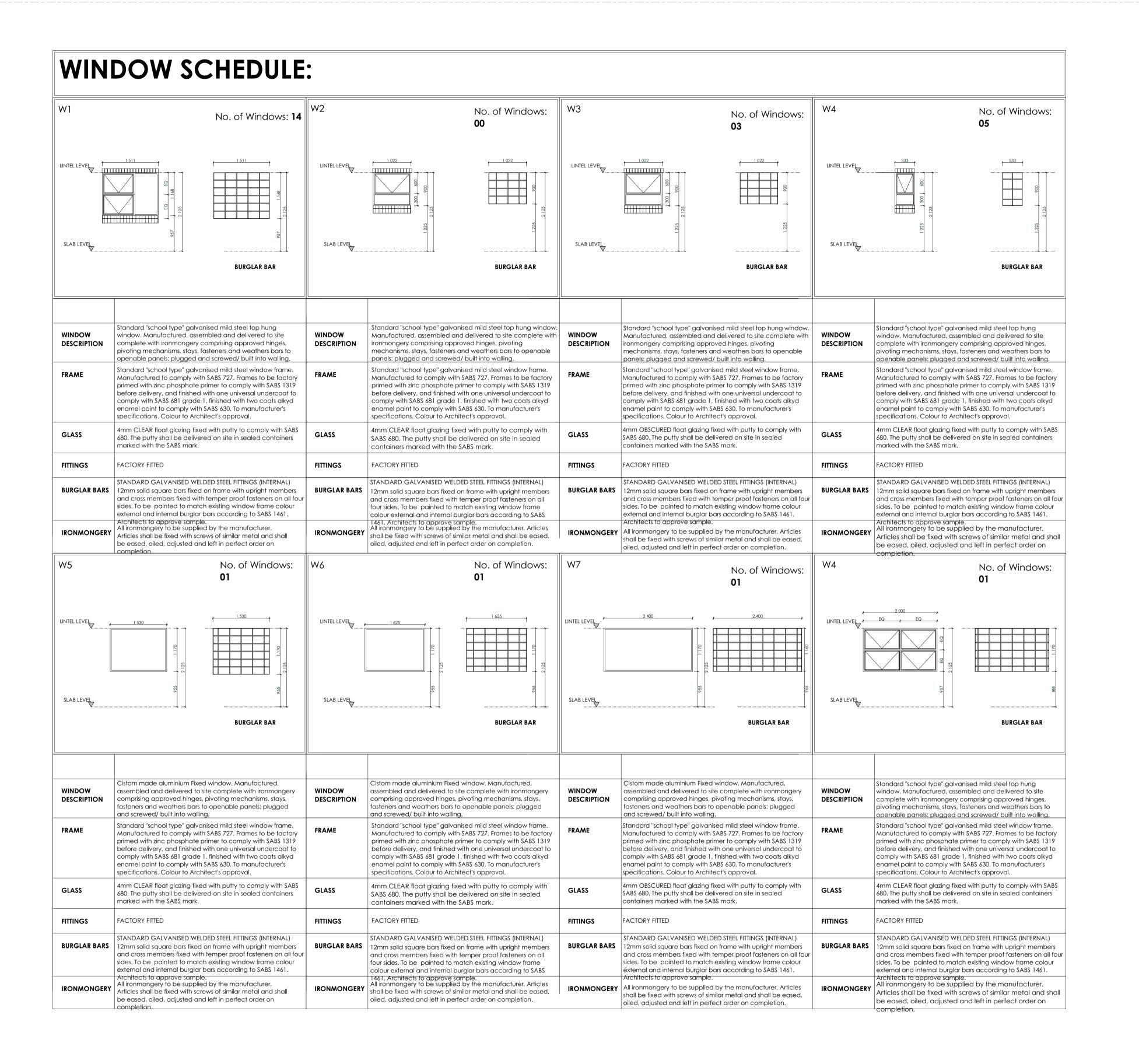
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

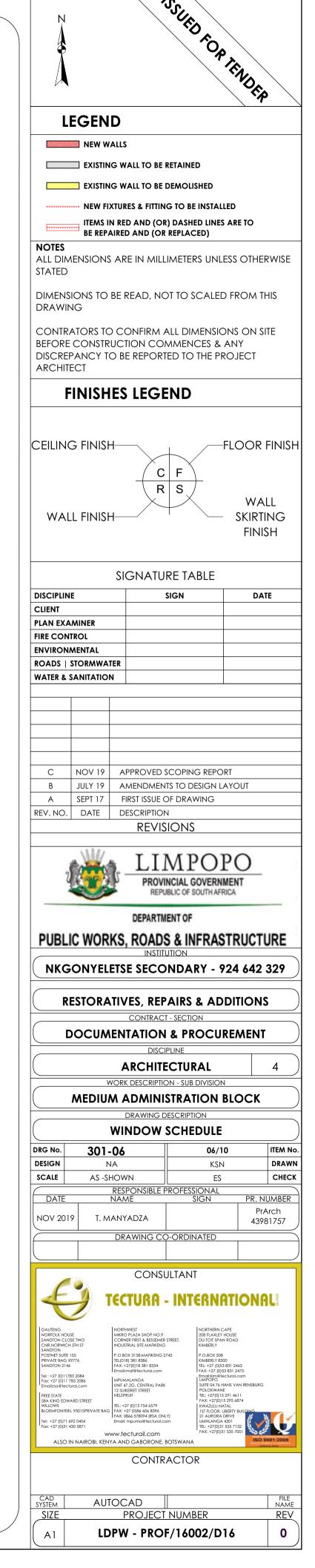
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.











SANITARY SCHEDULE WC'S URINALS & SHOWER

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z1: 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" Thermoset 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

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

Z3: CERAMIC PARAPLEGIC 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" Thermoset 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 matchina 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

/itreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. 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

WASH-HAND BASIN

Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay 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 KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 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 ¼ 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 connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)

Ceramic fireclay size 450x350mm oval self-imming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture'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 chainstay hole with; 2No. pillar taps, chrome plated anti-theft 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)

Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

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 . 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 connections. Fixed 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. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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 assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK Ceramic fireclay 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)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm. X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL ndard 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 holed for and fixed, with chromium plated domeheaded mirror screws

K3: SS WASTE BIN 328W x 826H 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. K4: SANITARY BIN (PLASTIC)

x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners 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.

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 350mmWx365mmHx230mmD 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/DISH- WALL MOUNTED 115W x 270H x 110D Stailess 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 (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete

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

K13: SHOWER CURTAIN RAIL (straight) 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

G2: PROJECTOR SCREEN

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft 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.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft 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 BLINDS(vertical fabric)

17 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt 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.

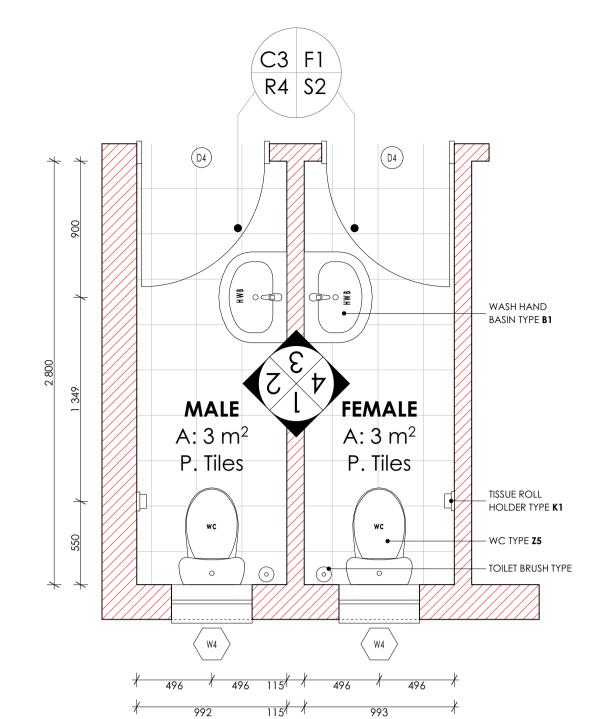
G6: FLOOR DRAIN

Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes. **G7: SS FLOOR EXPANSION JOINT COVER**

Co-extruded 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.

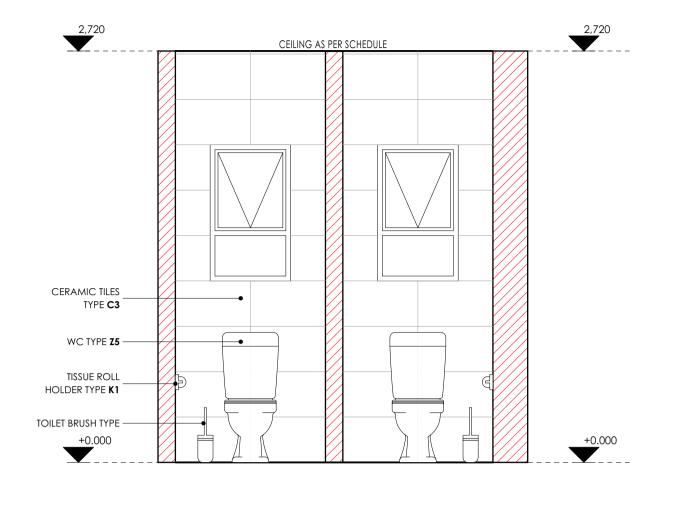
G8: CHALKBOARDS- GREEN SURFACE COLOUR

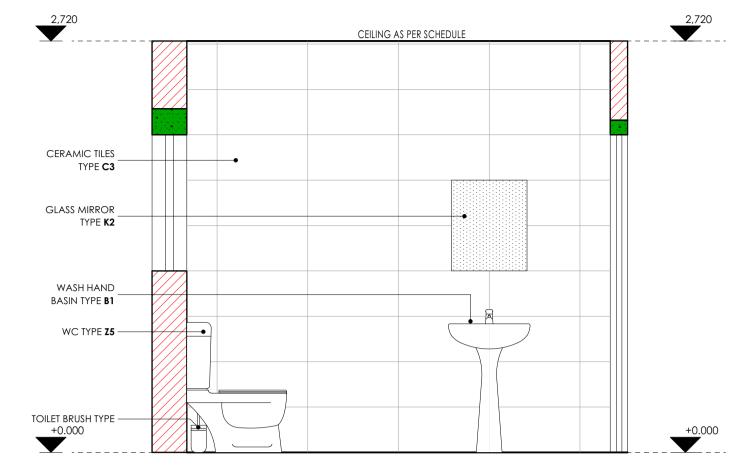
/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), 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 to the manufacturer's instructions.



STRONG ROOM PLAN:

Scale 1:25.

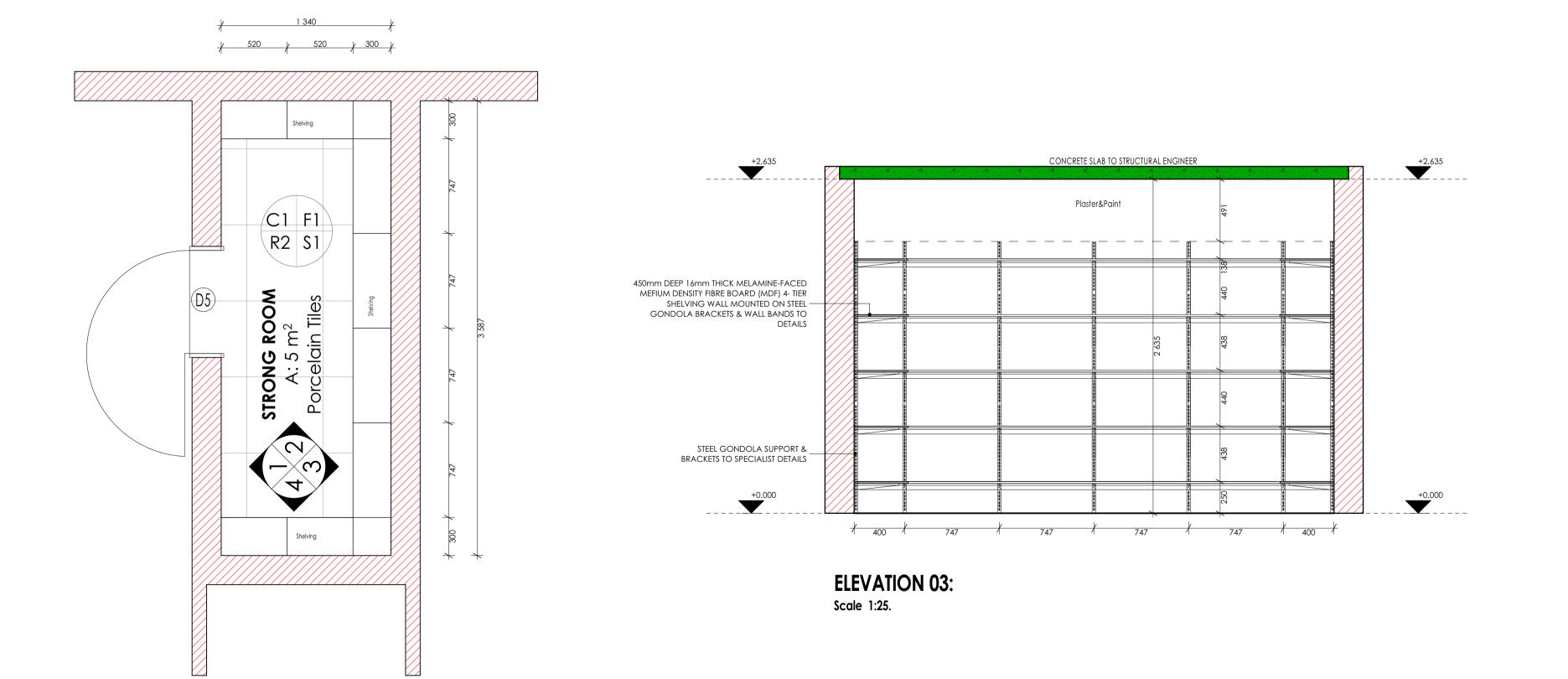




ABLUTIONS PLAN: Scale 1:25.

ELEVATION 01: Scale 1:25.

ELEVATION 02: Scale 1:25.



SANITARY SCHEDULE WC'S URINALS & SHOWER Z1: 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 Thermoset 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 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 PARAPLEGIC 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" Thermoset 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 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 **WASH-HAND BASIN** basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves. **B2: DISABLED BASIN**

approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

itreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. 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

Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay 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 KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308

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 ¼ 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 connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)

Ceramic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict

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 chainstay hole with; 2No. pillar taps, chrome plated anti-theft 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)

Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

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 . 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 connections. Fixed 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. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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 assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-conceoled brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

500mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet, Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm. X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup, CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL ndard 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 holed for and fixed, with chromium plated domeheaded mirror screws

K3: SS WASTE BIN 328W x 826H 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.

1 x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners 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.

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.

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and

K9: SOAP DISPENSER/DISH- WALL MOUNTED 115W x 270H x 110D Stailess 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 (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete

installed in accordance to manufacturer's specifications.

K11: HAND DRYER (Hands free) 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

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

K13: SHOWER CURTAIN RAIL (straight)

200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m lenath, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft 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.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft 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 BLINDS(vertical fabric) 7 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed

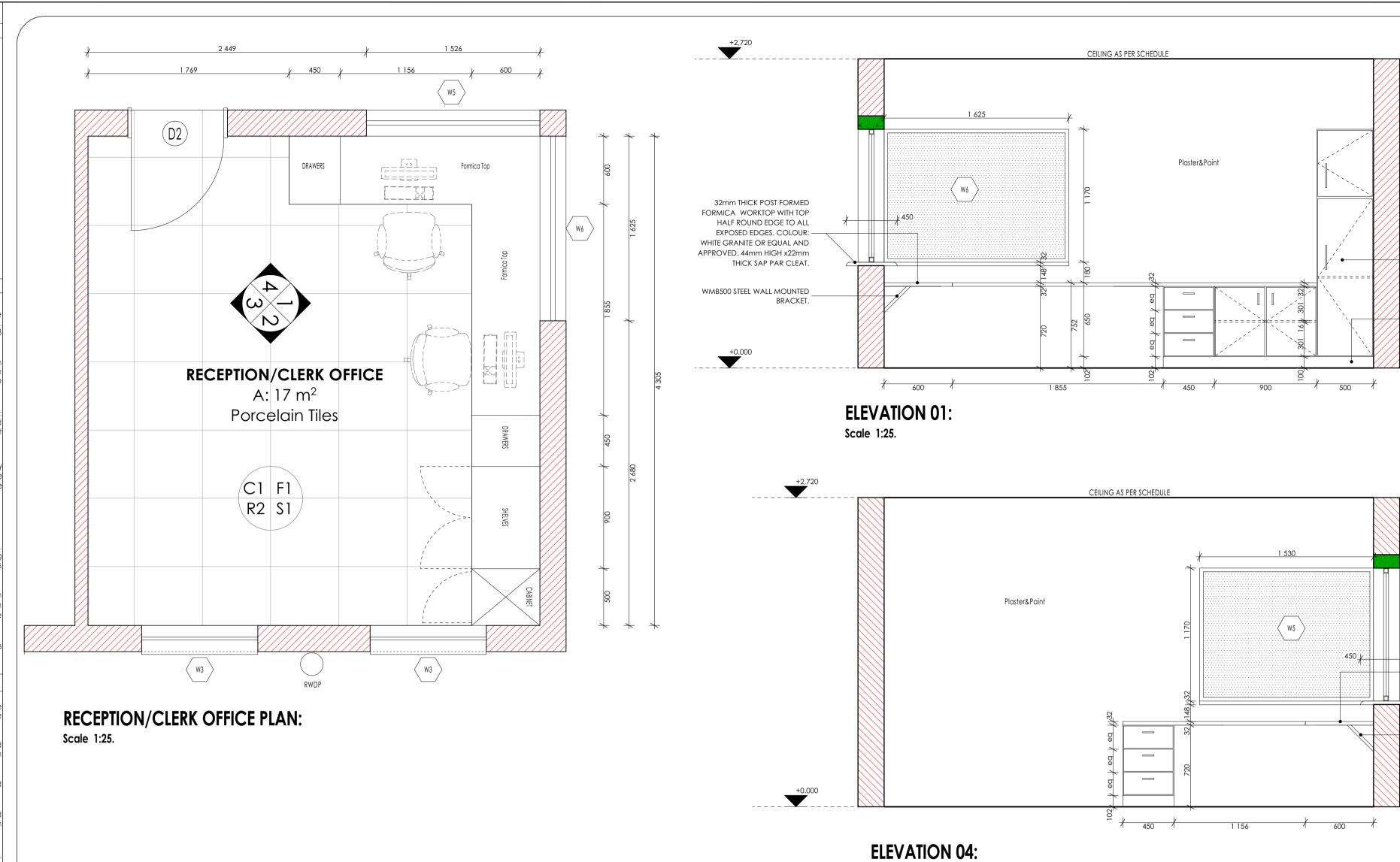
cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets. G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER

Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion

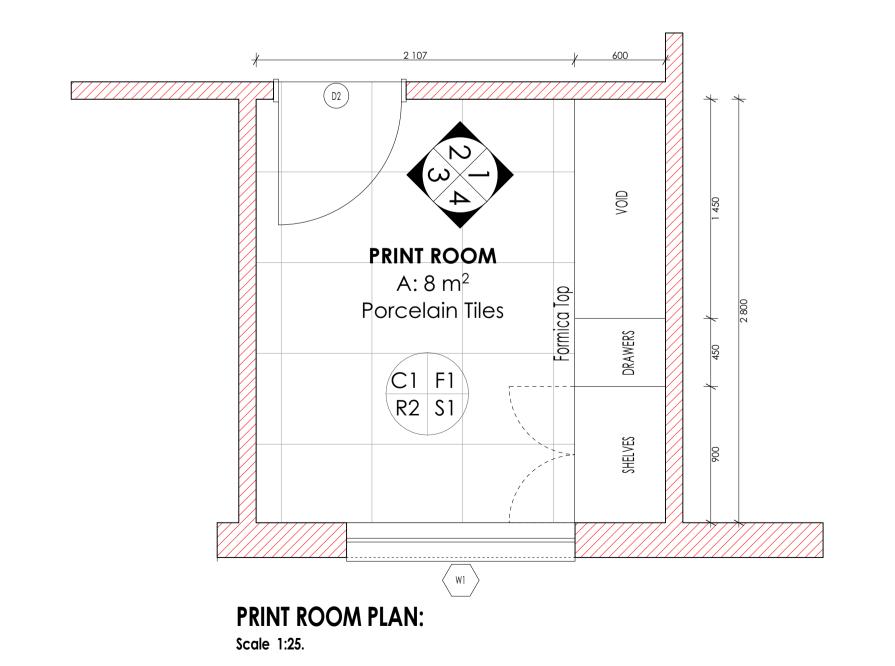
joints, in accordance to the manufacturer's specifications. **G8: CHALKBOARDS- GREEN SURFACE COLOUR**

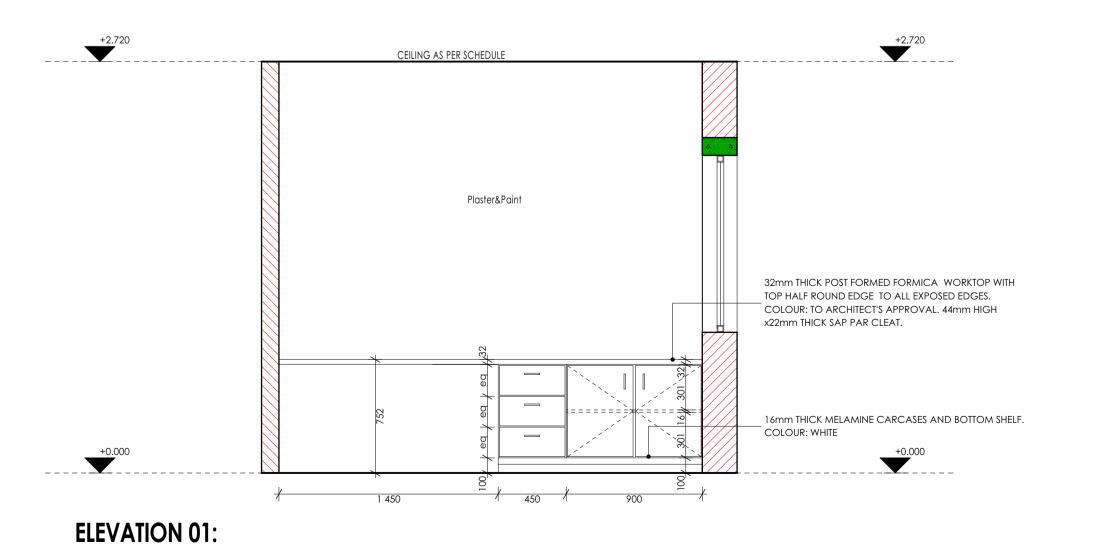
/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), 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 to the manufacturer's instructions.

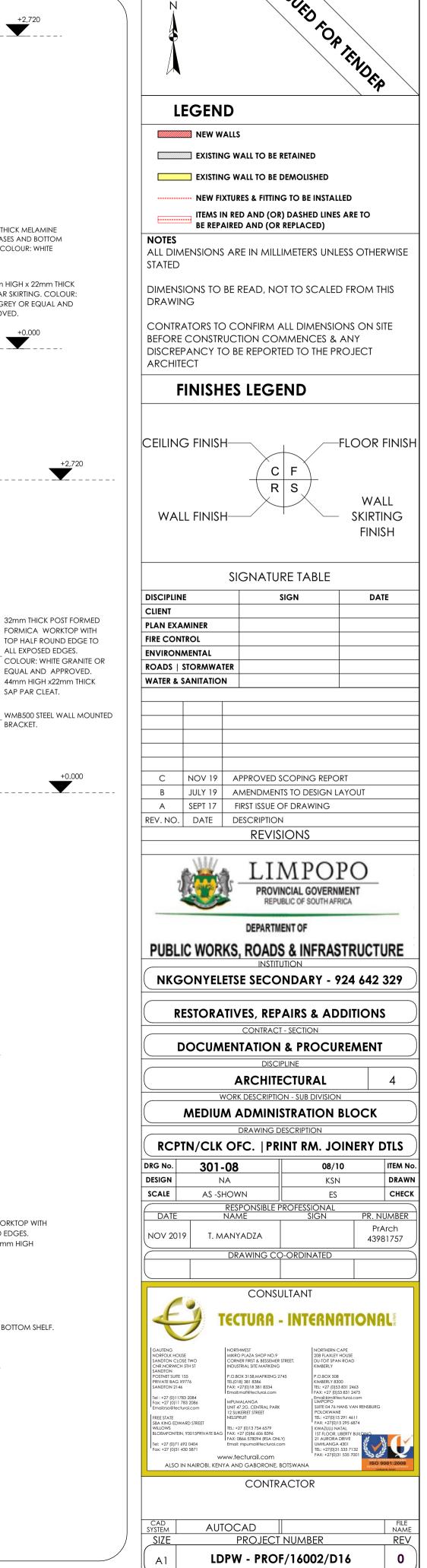


Scale 1:25.

Scale 1:25.







16mm THICK MELAMINE

- CARCASES AND BOTTOM

SHELF. COLOUR: WHITE

160mm HIGH x 22mm THICK

SAP PAR SKIRTING. COLOUR:

STEEL GREY OR EQUAL AND

32mm THICK POST FORMED

FORMICA WORKTOP WITH

TOP HALF ROUND EDGE TO

COLOUR: WHITE GRANITE OR

EQUAL AND APPROVED.

44mm HIGH x22mm THICK

ALL EXPOSED EDGES.

SAP PAR CLEAT.

APPROVED.

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: 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 Thermoset 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

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 PARAPLEGIC 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" Thermoset 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

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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

itreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. 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

WASH-HAND BASIN

Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay 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 KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

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 ¼ 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 connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)

Ceramic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture'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 chainstay hole with; 2No. pillar taps, chrome plated anti-theft 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.

Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

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 . 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 connections. Fixed with concealed wall bracket in accordance to the

Combination of sanitaryware, accessories and general fittings comprising of:

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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

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 tape, with chrome plated overarm

Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-conceoled brackets supplied with all necessary accessories (all to be acid resistant)

with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet,

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL ndard 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.

K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary

K5: SOAP HOLDER

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.

and plastic wall plugs. Installed as per manufacturer's instructions.

K9: SOAP DISPENSER/DISH- WALL MOUNTED

manufacturer's specifications.

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete

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

accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

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 bolt, , including connections to downpipes. **G7: SS FLOOR EXPANSION JOINT COVER**

Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion

G8: CHALKBOARDS- GREEN SURFACE COLOUR /itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)

manufacturer's specifications.

• Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes

and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL. X3: CERAMIC SINK

600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet, Fitted

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot

K2: GLASS MIRROR 6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domeheaded mirror screws

accessories in accordance to manufacturer's specifications.

1 x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

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 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

K8: PAPER TOWEL DISPENSER 350mmWx365mmHx230mmD 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.

115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to

K11: HAND DRYER (Hands free) K12: TOWEL RAIL

K13: SHOWER CURTAIN RAIL (straight) 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

200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m lenath, installed strictly in

G2: PROJECTOR SCREEN Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To G3: PINBOARD 1500W X 1000H

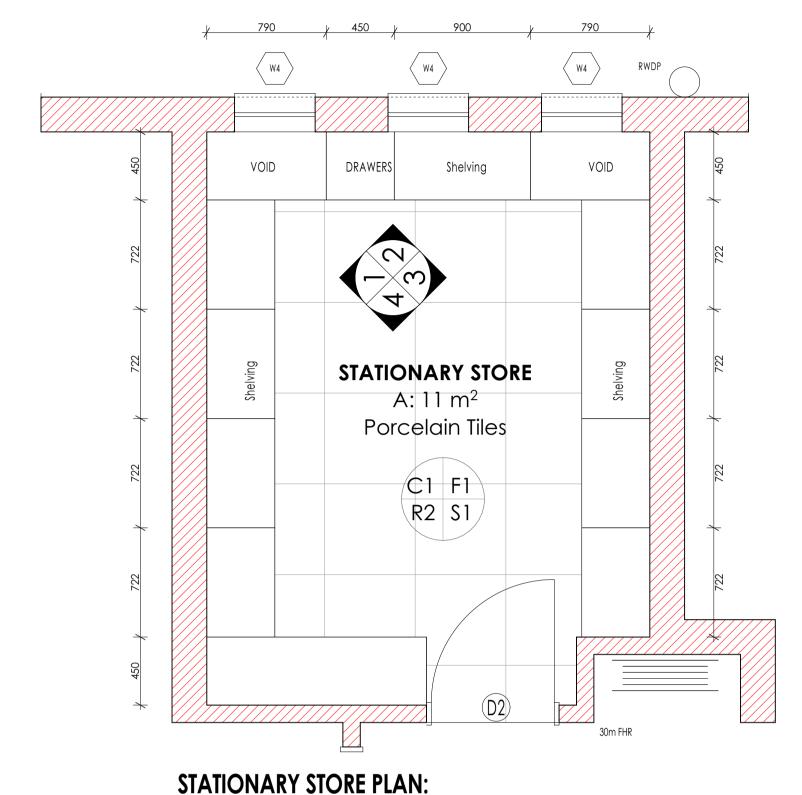
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

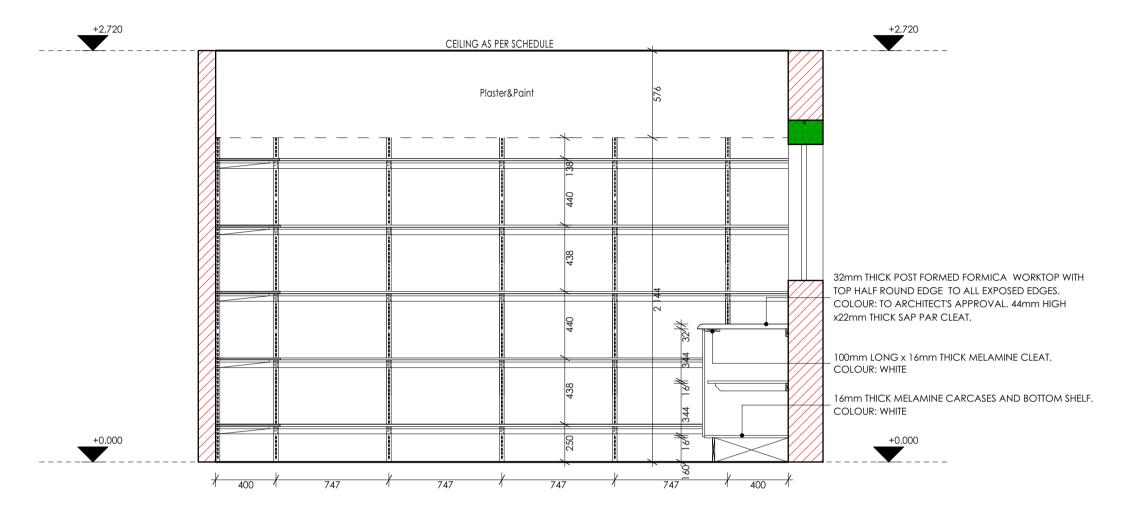
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround G5: WINDOW NORMAL BLINDS(vertical fabric)

7 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed

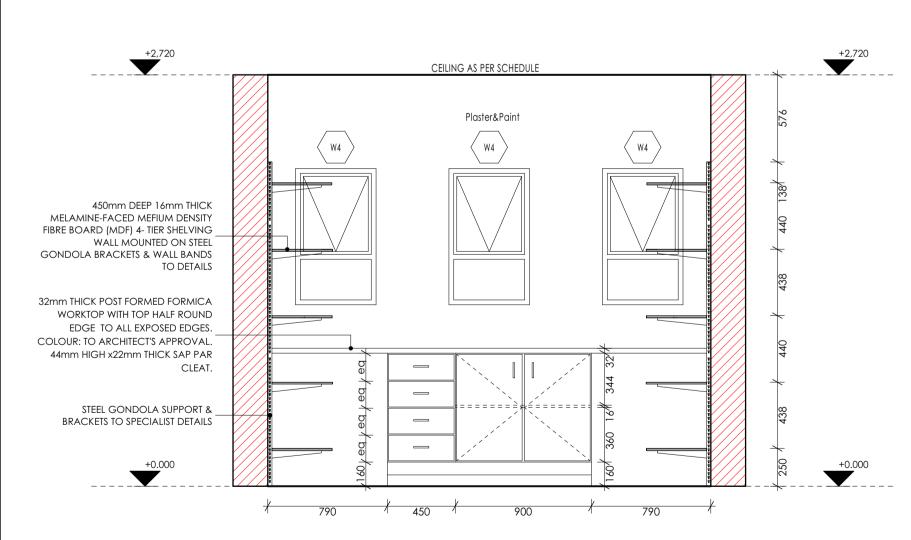
joints, in accordance to the manufacturer's specifications.

manufactured in accordance with SABS Standard CKS 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 (Vitrex Colour Reference - Chalk Board Green LM1797/2), 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 to the manufacturer's instructions.



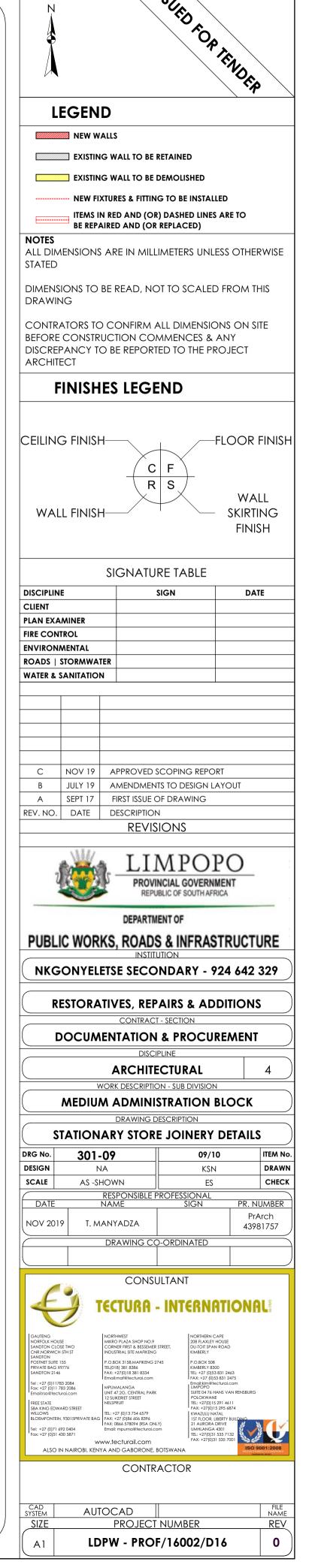


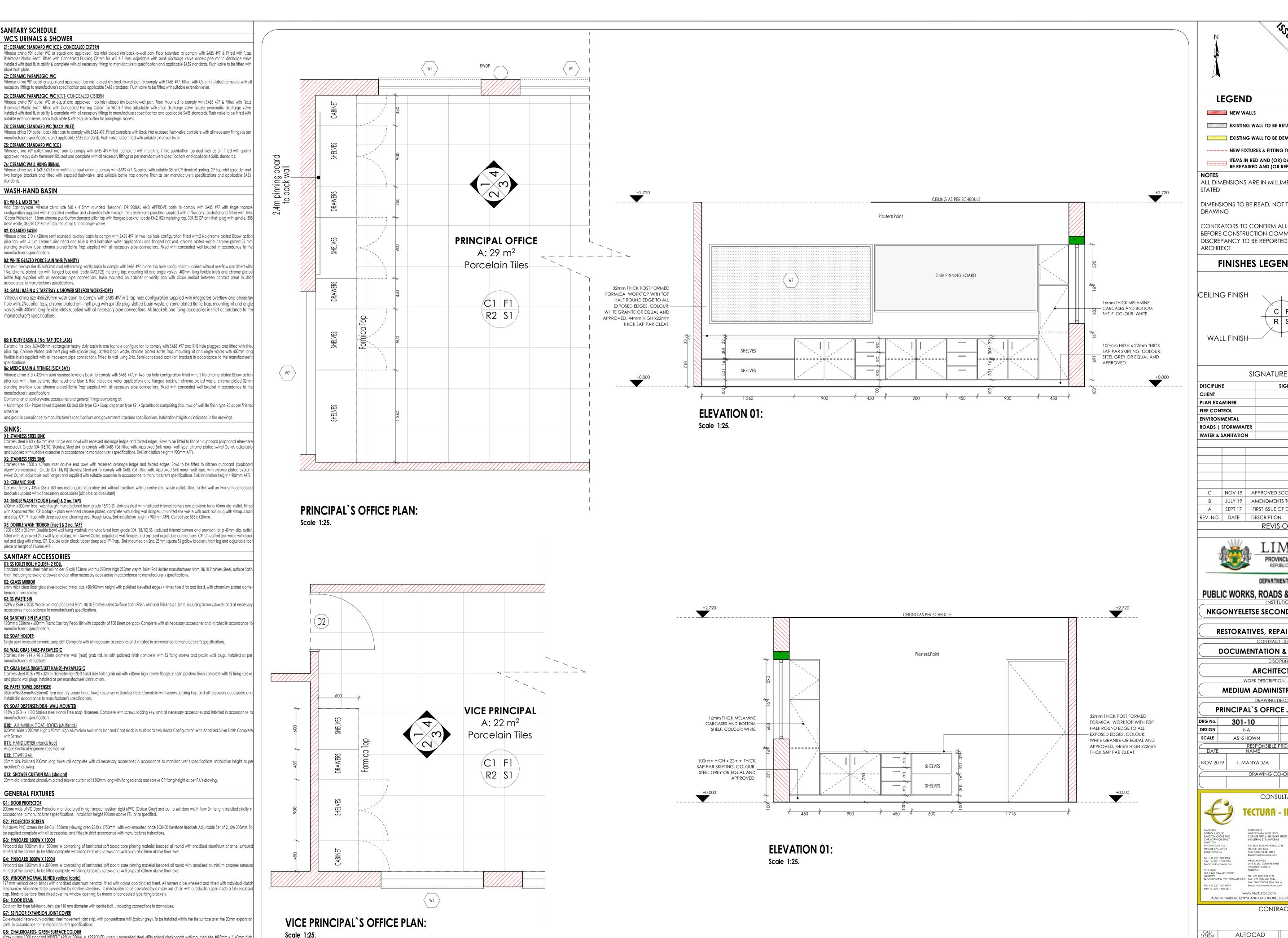
ELEVATION 01:



ELEVATION 02: Scale 1:25.

Scale 1:25.



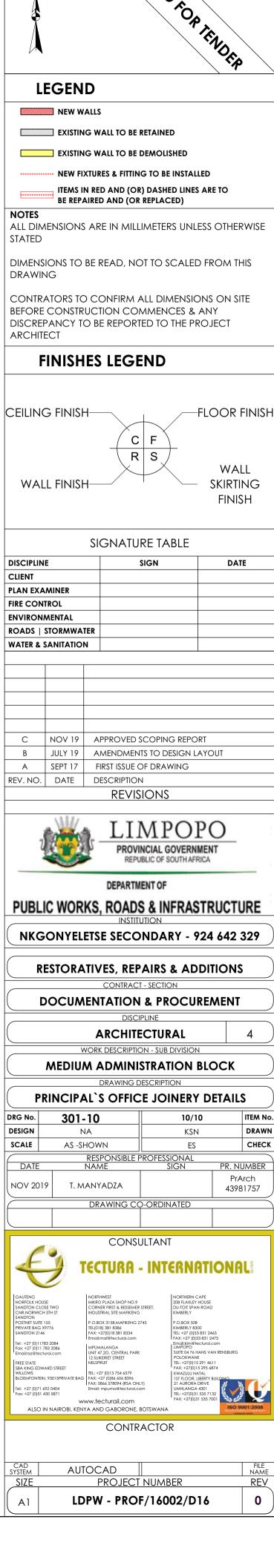


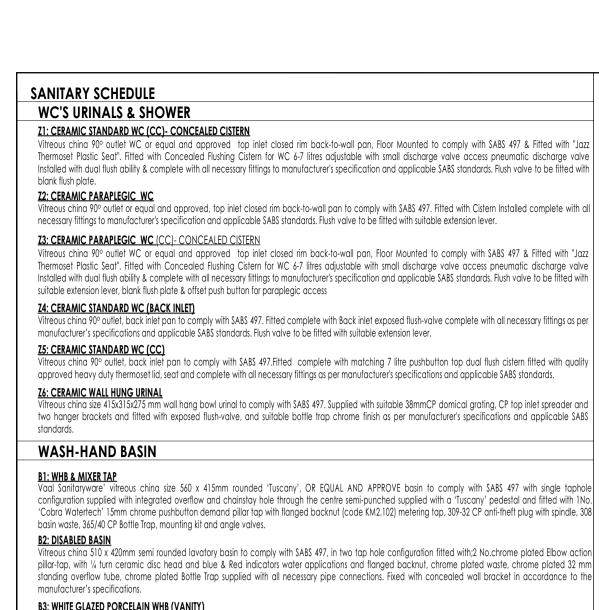
/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high

manufactured in accordance with SABS Standard CKS 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 (Vitrex Colour Reference - Chalk Board Green LM1797/2), 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 to the manufacturer's instructions.





approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

itreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. 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

Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay 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 KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308

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 ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm

B3: WHITE GLAZED PORCELAIN WHB (VANITY)

Ceramic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict

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 chainstay hole with; 2No. pillar taps, chrome plated anti-theft 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)

Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

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 . 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 connections. Fixed 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. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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 assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL. X3: CERAMIC SINK

Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-conceoled brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

500mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet, Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm. X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup, CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL ndard 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 holed for and fixed, with chromium plated domeheaded mirror screws

K3: SS WASTE BIN 328W x 826H 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.

1 x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners 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.

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.

350mmWx365mmHx230mmD 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/DISH- WALL MOUNTED 115W x 270H x 110D Stailess 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 (Multirack) 820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete

K11: HAND DRYER (Hands free)

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

K13: SHOWER CURTAIN RAIL (straight)

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

200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m lenath, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft 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.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft 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 BLINDS(vertical fabric)

7 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt 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

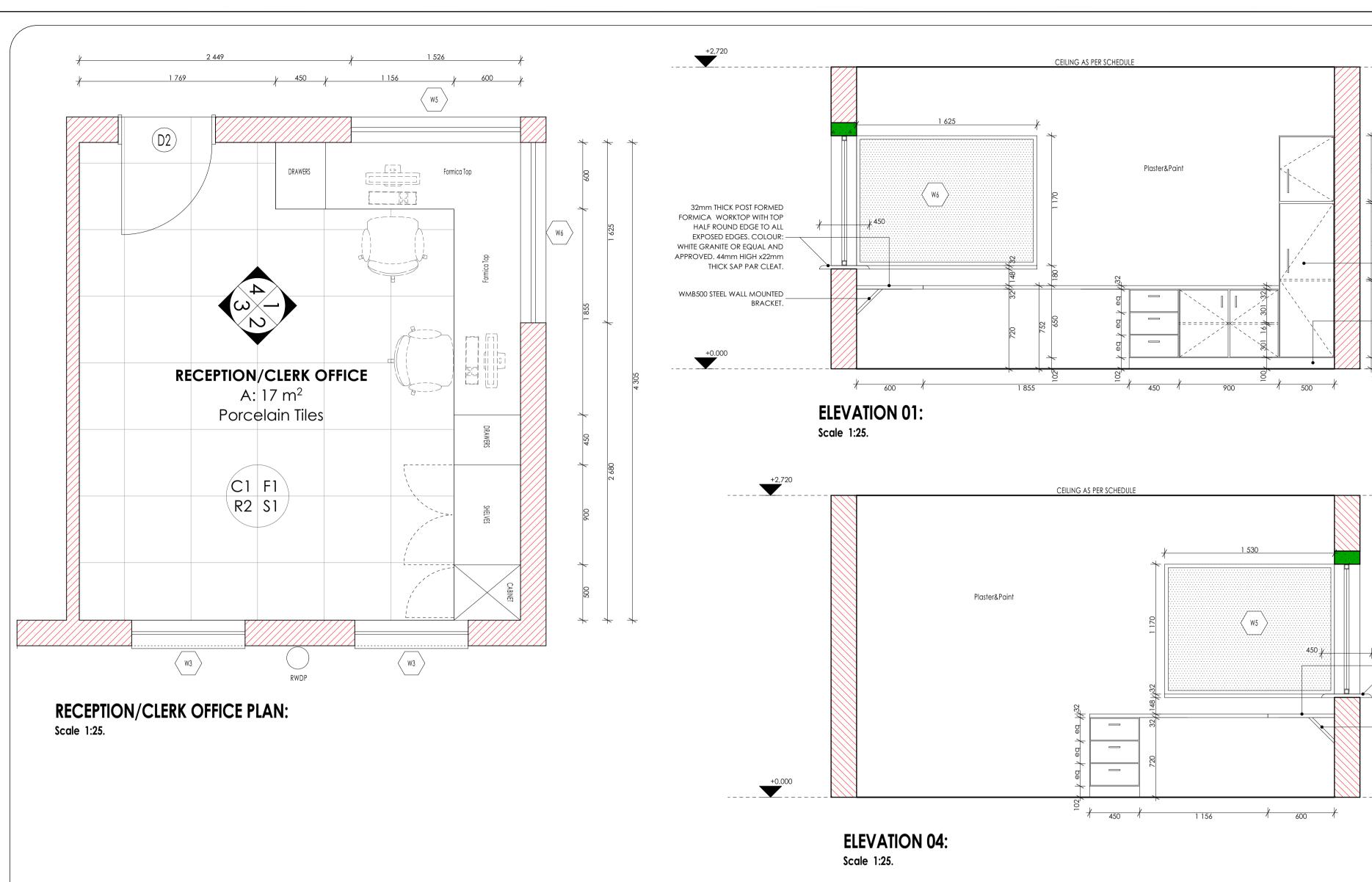
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER

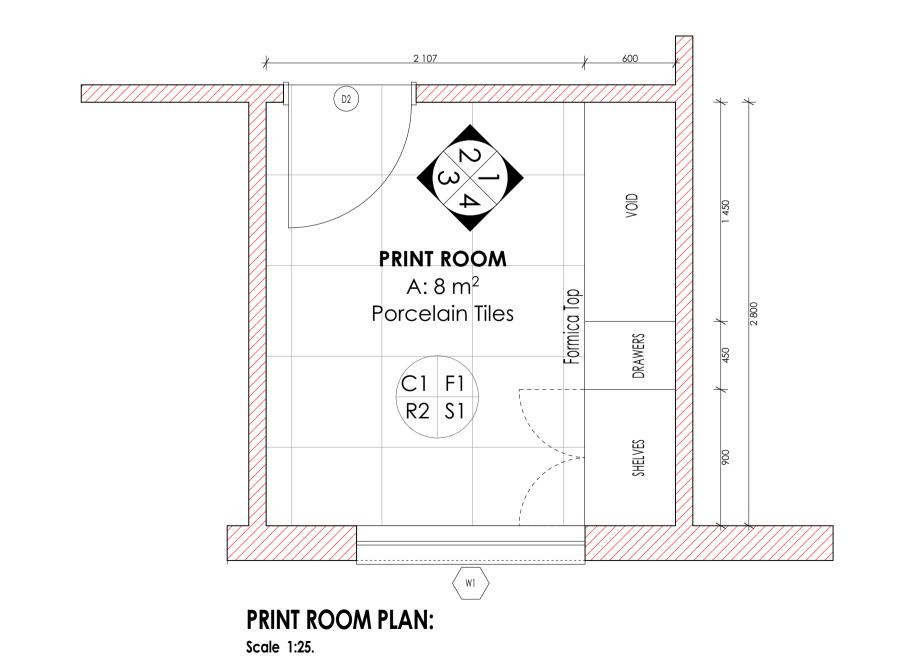
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

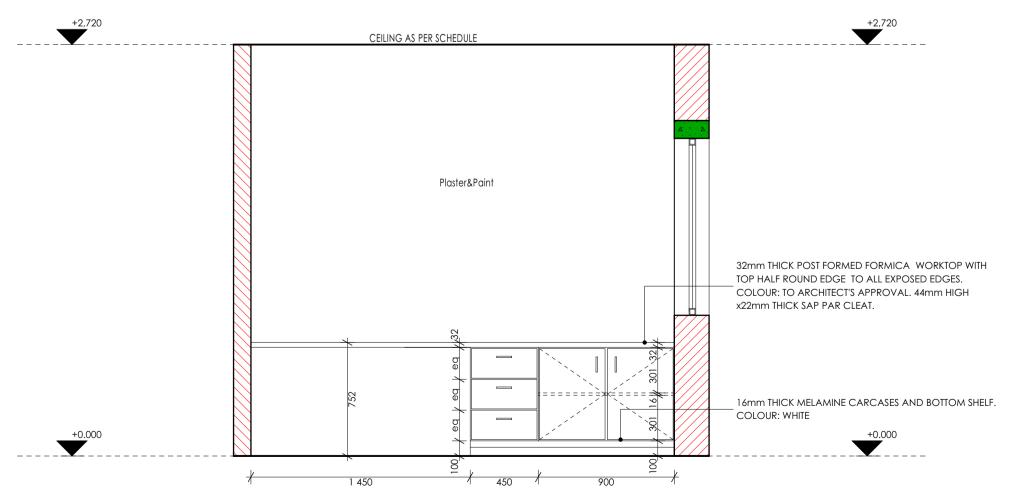
G8: CHALKBOARDS- GREEN SURFACE COLOUR

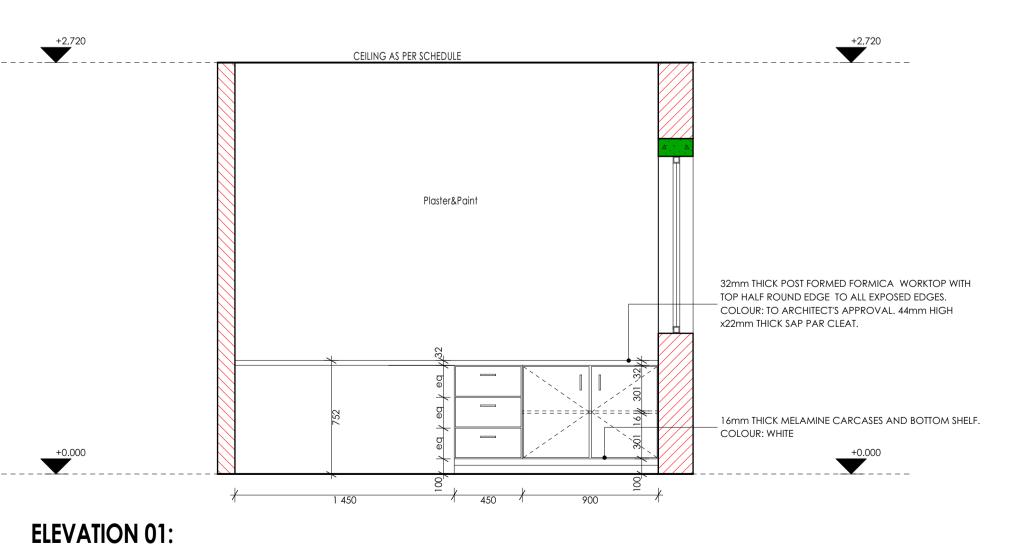
/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), 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 to the manufacturer's instructions.



Scale 1:25.









16mm THICK MELAMINE

- CARCASES AND BOTTOM

SHELF. COLOUR: WHITE

160mm HIGH x 22mm THICK

SAP PAR SKIRTING. COLOUR:

STEEL GREY OR EQUAL AND

32mm THICK POST FORMED

FORMICA WORKTOP WITH

TOP HALF ROUND EDGE TO

COLOUR: WHITE GRANITE OR

EQUAL AND APPROVED.

44mm HIGH x22mm THICK

WMB500 STEEL WALL MOUNTED

ALL EXPOSED EDGES.

SAP PAR CLEAT.

APPROVED.

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: 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 Thermoset 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

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 PARAPLEGIC 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" Thermoset 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

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 thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

itreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. 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

WASH-HAND BASIN

Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay 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 KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

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 ¼ 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 connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)

Ceramic fireclay 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 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 connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture'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 chainstay hole with; 2No. pillar taps, chrome plated anti-theft 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)

Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

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 . 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 connections. Fixed 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. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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 assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-conceoled brackets supplied with all necessary accessories (all to be acid resistant)

600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet, Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm. X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL ndard 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 holed for and fixed, with chromium plated domeheaded mirror screws

K3: SS WASTE BIN 328W x 826H 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.

1 x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners 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.

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**

350mmWx365mmHx230mmD 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/DISH- WALL MOUNTED 115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete

K11: HAND DRYER (Hands free)

K12: TOWEL RAIL

K13: SHOWER CURTAIN RAIL (straight) 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

200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m lenath, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified. **G2: PROJECTOR SCREEN**

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 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: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft 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.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft 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 BLINDS(vertical fabric) 7 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt 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

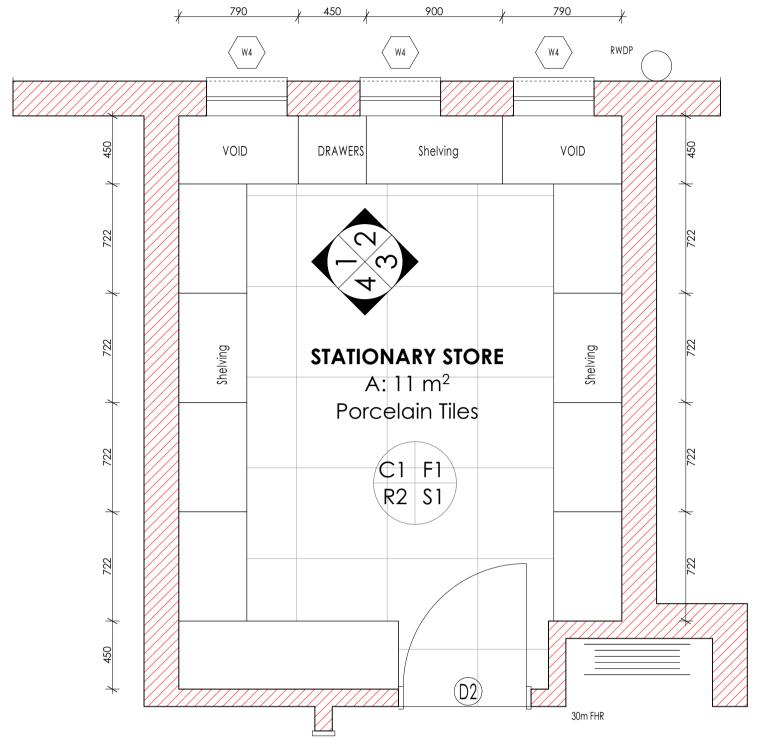
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

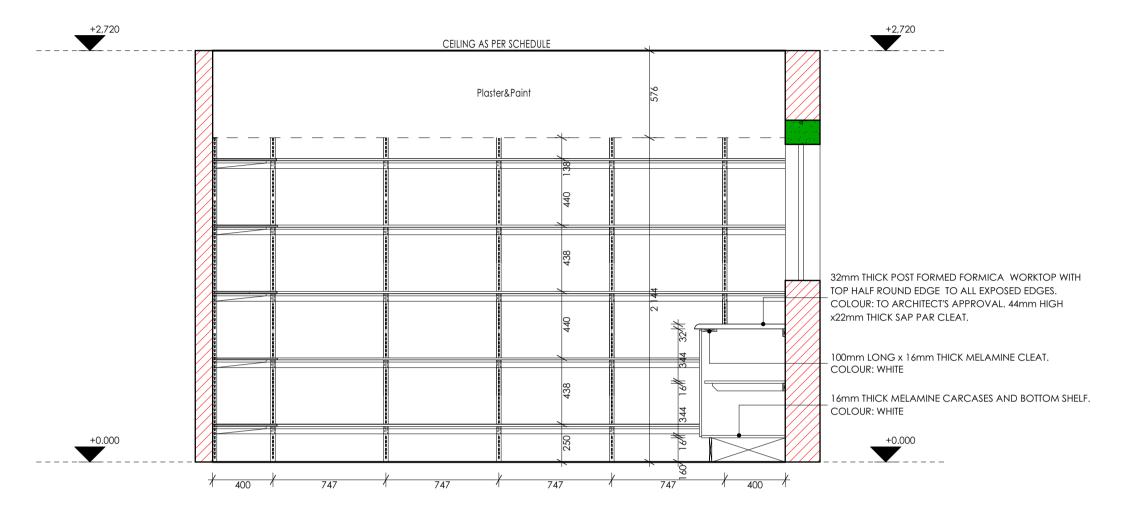
G7: SS FLOOR EXPANSION JOINT COVER

Co-extruded 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

/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 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 (Vitrex Colour Reference - Chalk Board Green LM1797/2), 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 to the manufacturer's instructions.

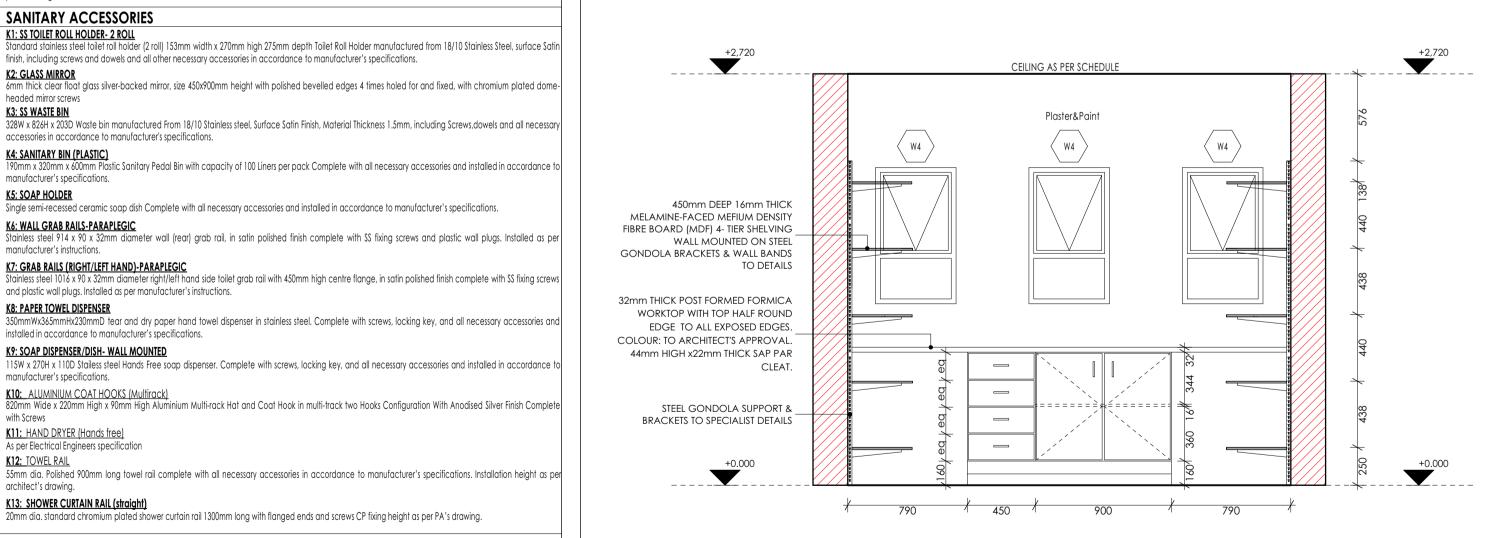




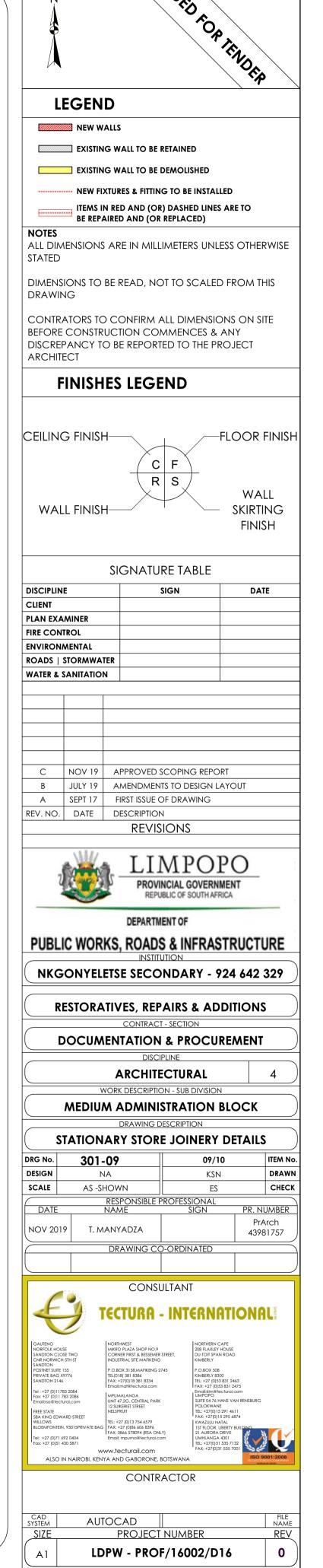
ELEVATION 01:

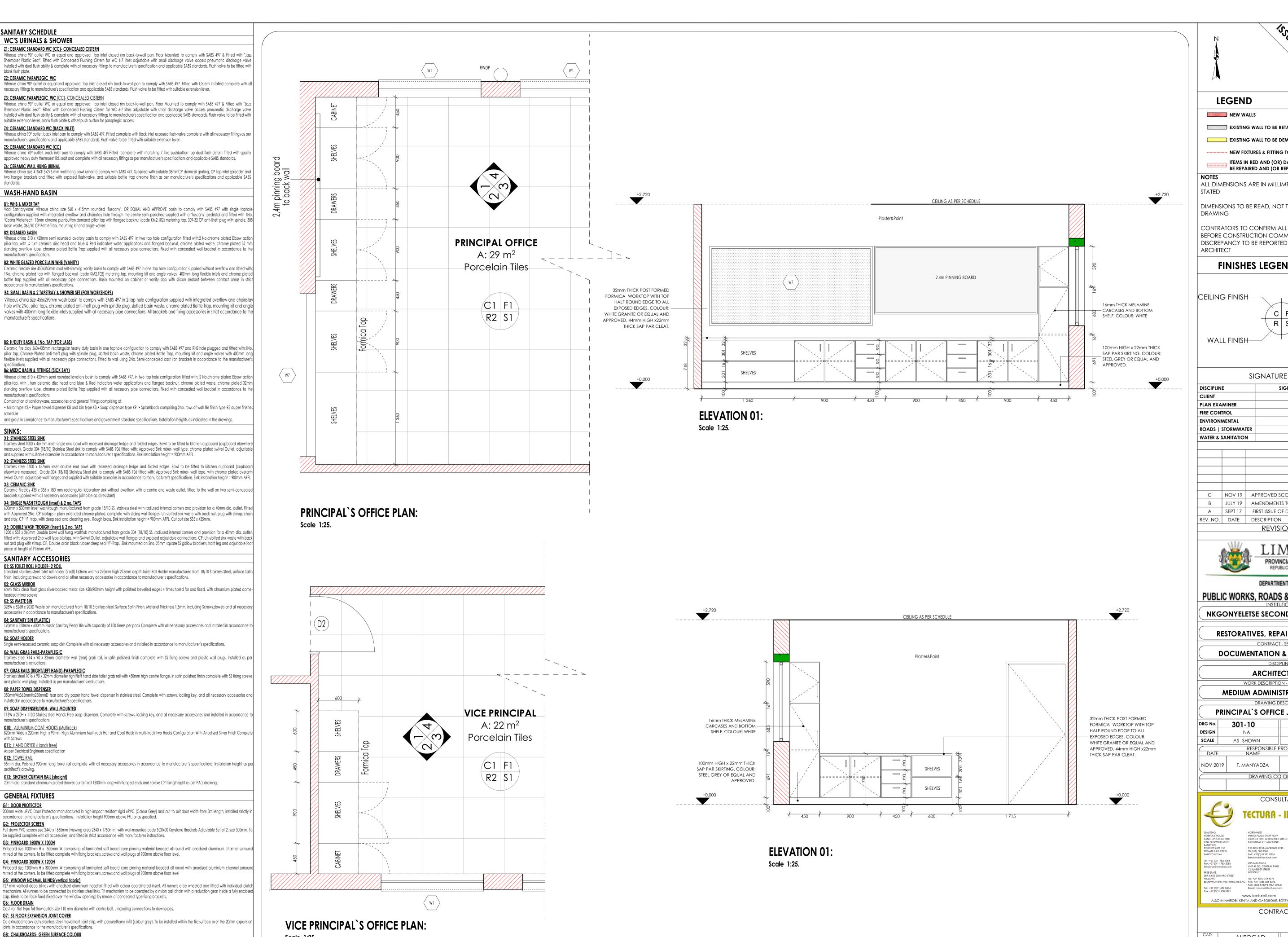
STATIONARY STORE PLAN:

Scale 1:25.



ELEVATION 02: Scale 1:25.





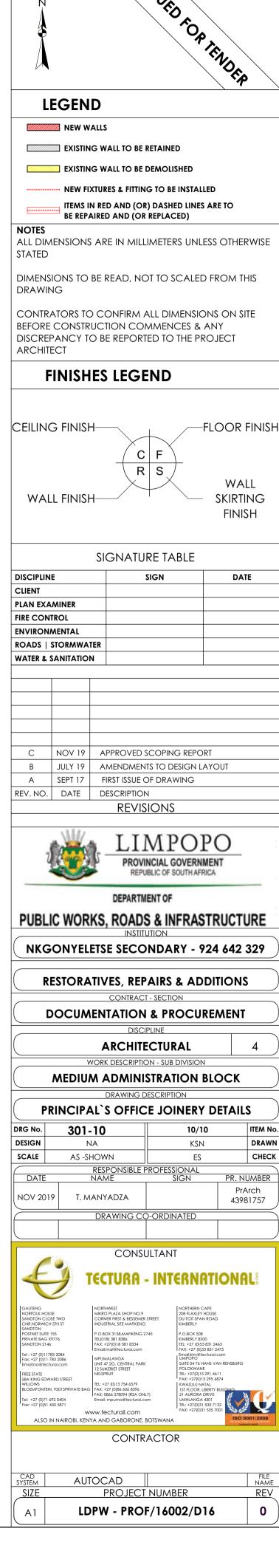
Scale 1:25.

/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high

manufactured in accordance with SABS Standard CKS 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 (Vitrex Colour Reference - Chalk Board Green LM1797/2), 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 to the manufacturer's instructions.



FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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.

500mm x 500mm , 100% PFX staple fibre carpet files 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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: 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

grade1, in accordance to manufacturer's instructions.

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, 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 t 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.

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

"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

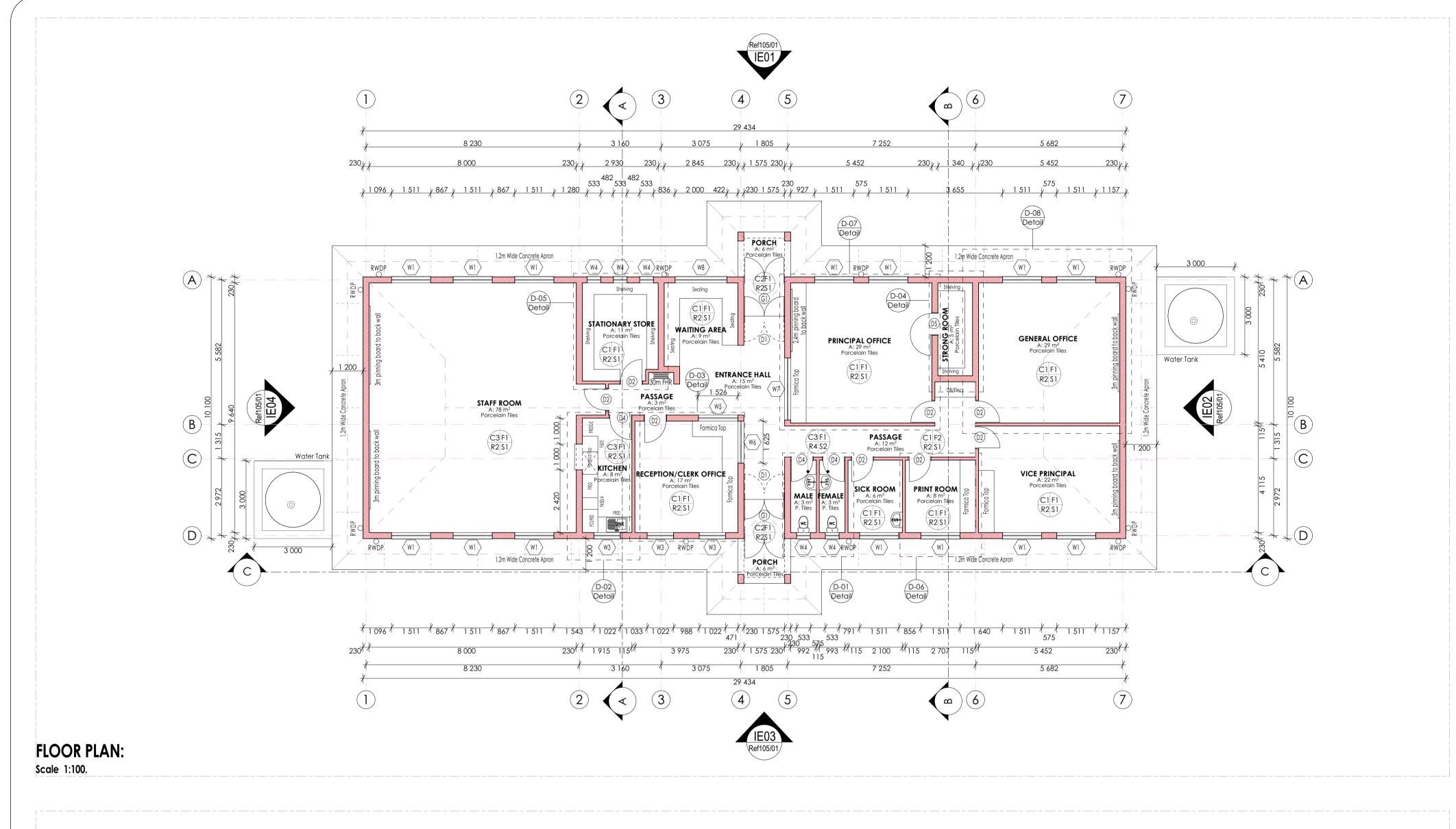
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

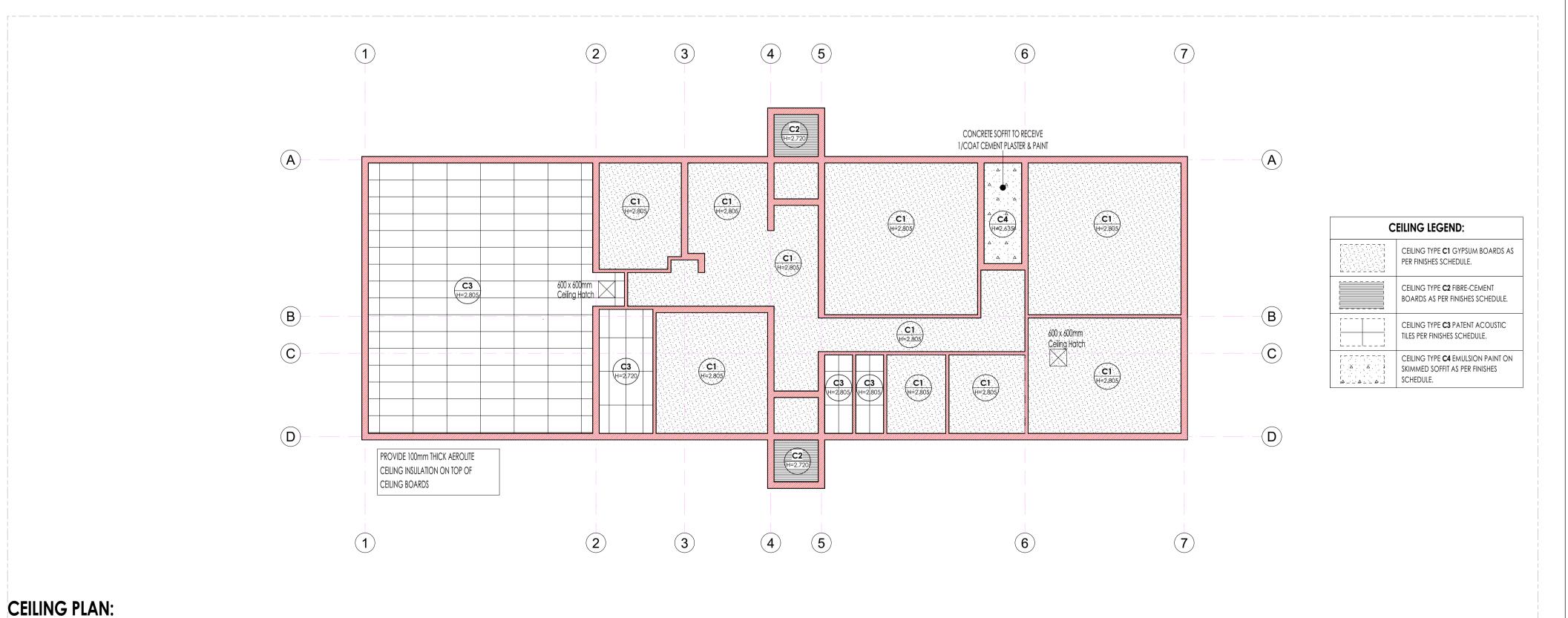
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

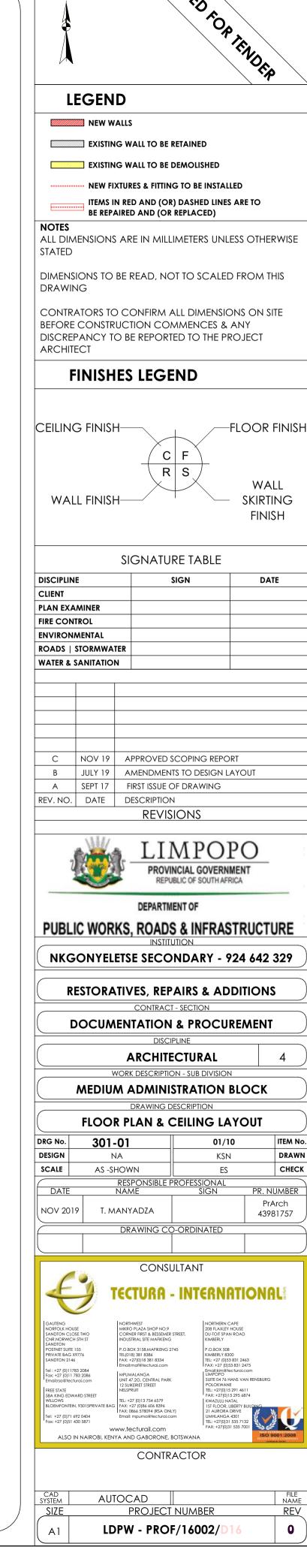
Rainwater Downpipes. Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm 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.

Scale 1:100.







FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

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 manufacturers 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: CARPET TILES

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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:

\$1: HARDWOOD OR EQUAL AND APPROVED

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

75 mm high x 20 mm thick hardened cement sand screed skirting coved 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: 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 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

grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

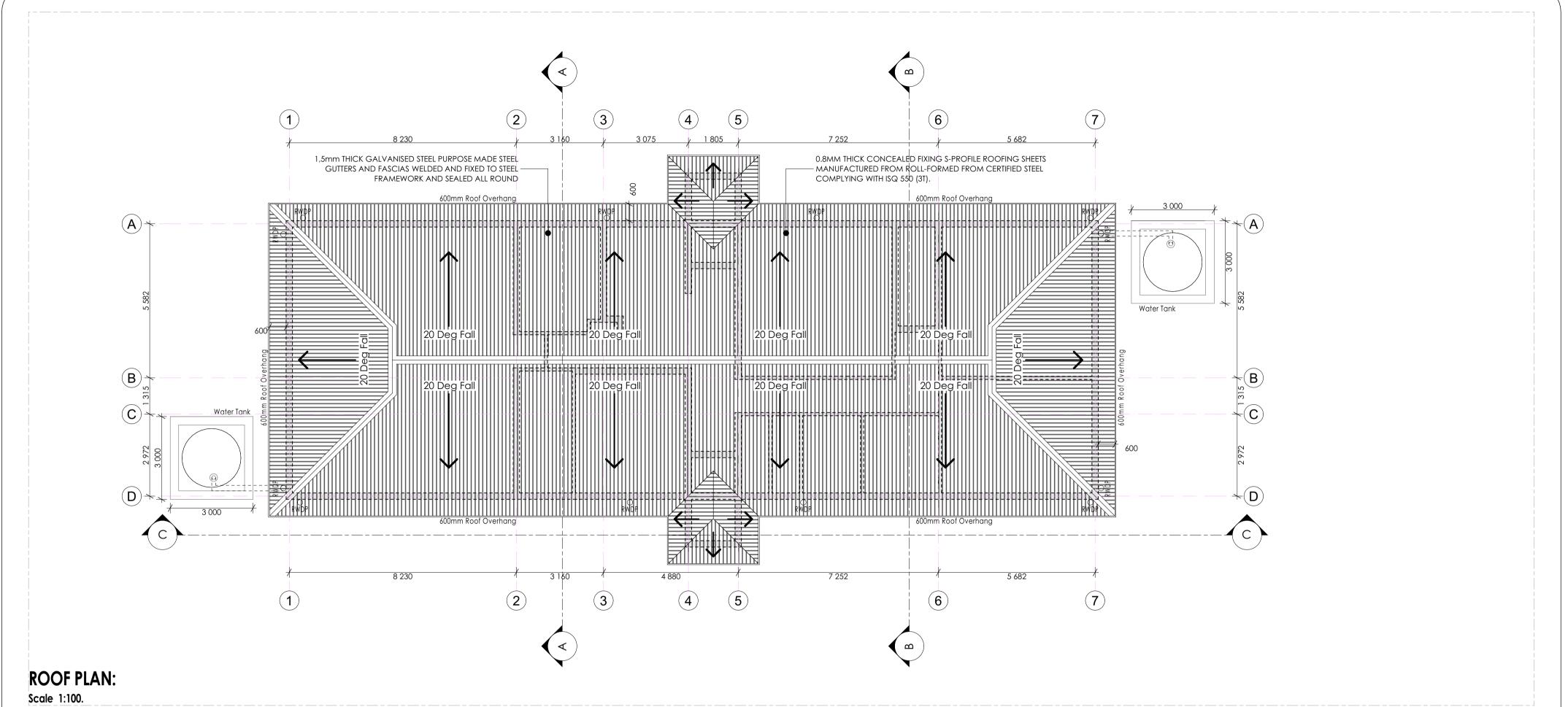
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

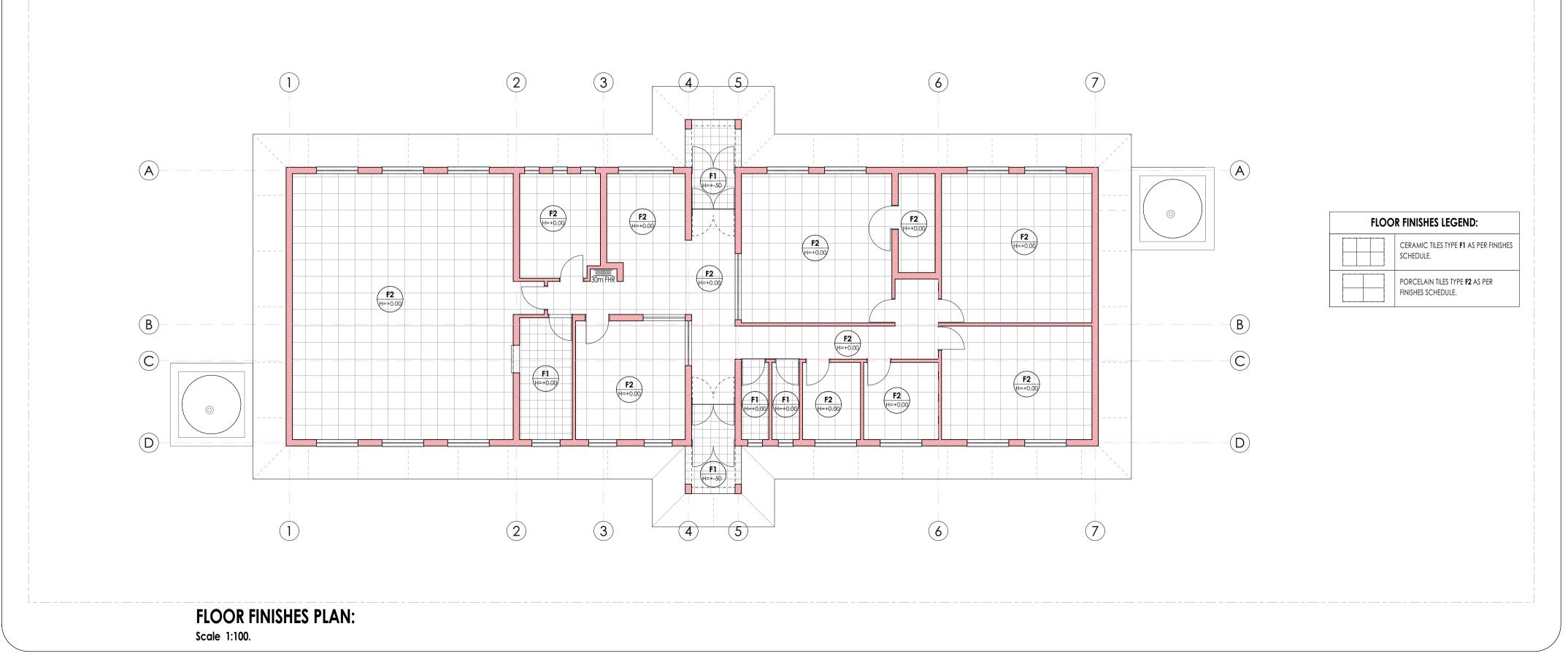
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict compliance to manufacturer's instructions.

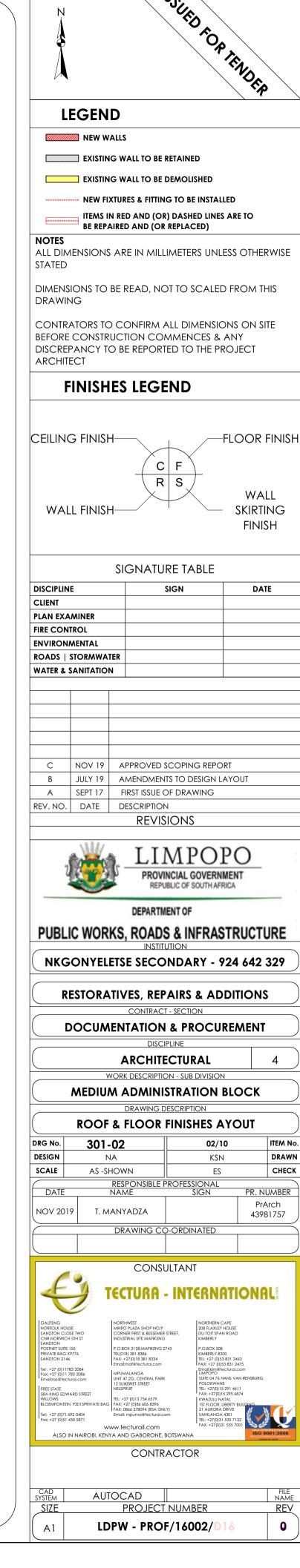
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

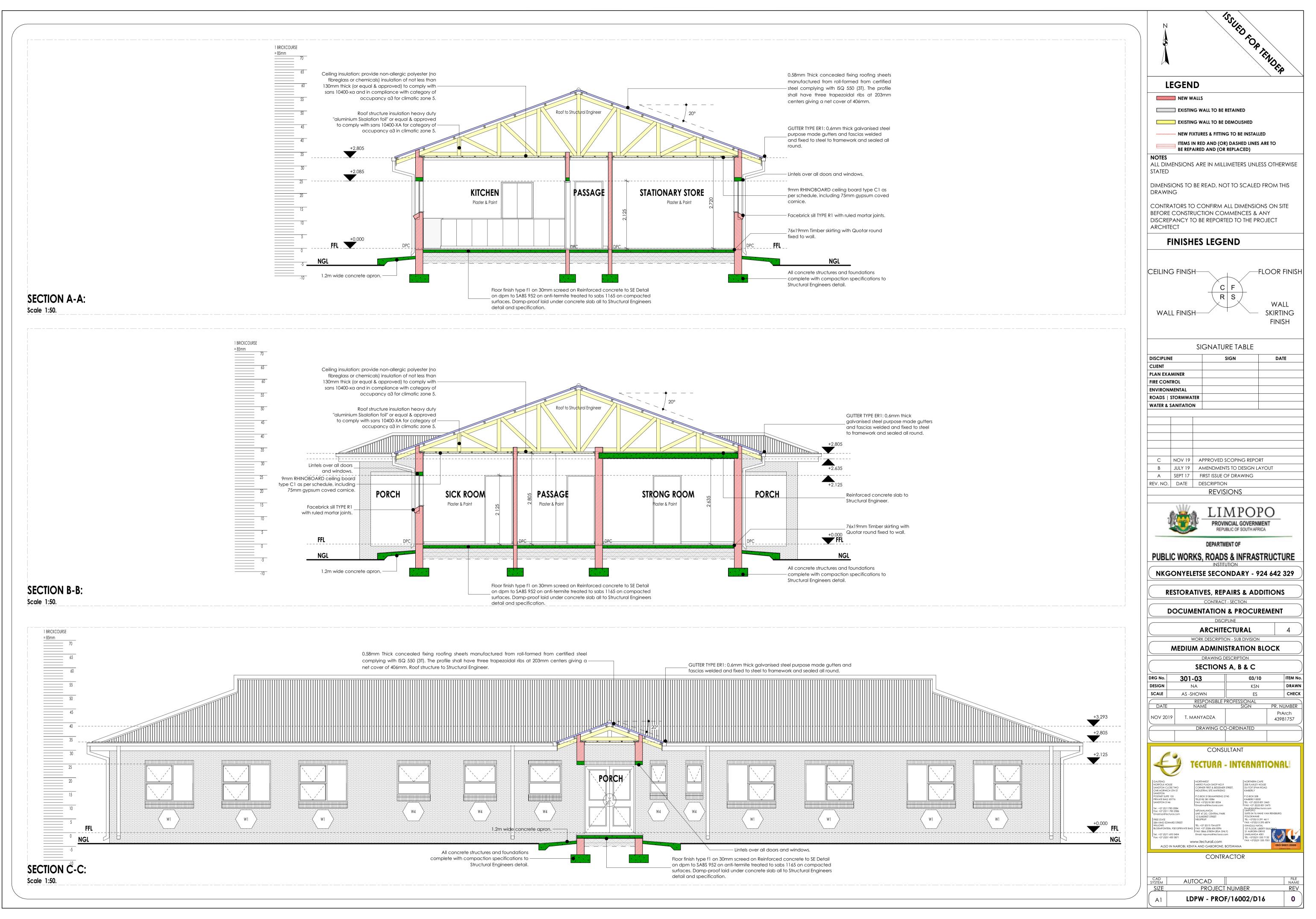
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To Manufacturer Installation Instructions.









FINISHES LEGEND FLOORS: F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery) 420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing

compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip. 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 manufacturers 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: CARPET TILES

500mm x 500mm , 100% 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 creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire ratina, and DIN 54324 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

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

22 mm thick untinted 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 VINLY 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 glued with conducive 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:

\$1: HARDWOOD OR EQUAL AND APPROVED

"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish 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 manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

5 mm high x 20 mm thick hardened cement sand screed skirting coved 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: 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 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

grade1, in accordance to manufacturer's instructions. R3:ALKYD (ENAMEL) PAINT

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering 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 he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" 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 EX 38mm x 50mm timber brandering 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured 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 T38 FR Main Tees (0.4mm thickness, Z150 galv. 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 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at

side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets 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 closers in strict compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation 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/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising 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 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising 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-taping screws To

