

BID NUMBER: LDPWRI-B/20304

APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF 10 CLASSROOMS, 16 PIT TOILET SEATS, THE REFURBISHMENT OF 12 CLASSROOMS, 24 WATERBORNE TOILET SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 10 CLASSROOMS, 3 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK X 2, 14 SEATS ENVIROLOO TOILET BLOCK AND EXTERNAL WORKS AT UKUTHULA PRIMARY SCHOOL IN MAGEVA VILLAGE (GIYANI), MOPANI DISTRICT

for

LIMPOPO DEPARTMENT OF EDUCATION (LDOE),

LIMPOPO PROVINCE

FRAMEWORK CATEGORY A (7GB AND ABOVE)

Issued by:

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

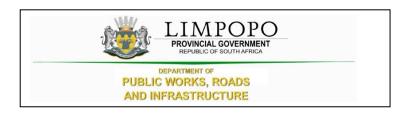
Contact Person: General Queries
Name : Mr NJ Motsopye,
Tel No. : 015 284 7126

Email : motsopyen@dpw.limpopo.gov.za

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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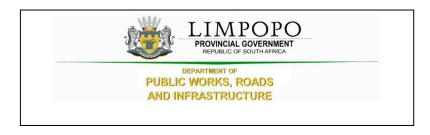
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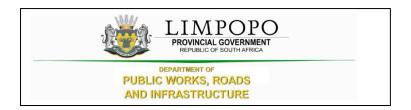
PART T1: TENDERING PROCEDURE

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 10 CLASSROOMS, 16 PIT TOILET SEATS, THE REFURBISHMENT OF 12 CLASSROOMS, 24 WATERBORNE TOILET SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 10 CLASSROOMS, 3 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK X 2, 14 SEATS ENVIROLOO TOILET BLOCK AND EXTERNAL WORKS AT UKUTHULA PRIMARY SCHOOL IN MAGEVA VILLAGE (GIYANI), MOPANI DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) for a period of 24 months. It is estimated that tenderers must have a CIDB contractor grading designation of 7 GB or higher.

The conditions of the CIDB Standard for 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	APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF 10 CLASSROOMS, 16 PIT TOILET SEATS, THE REFURBISHMENT OF 12 CLASSROOMS, 24 WATERBORNE TOILET SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 10 CLASSROOMS, 3 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK X 2, 14 SEATS ENVIROLOO TOILET BLOCK AND EXTERNAL WORKS AT UKUTHULA PRIMARY SCHOOL IN MAGEVA VILLAGE (GIYANI), MOPANI DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR A PERIOD OF 24 MONTHS						
Tender Number	LDPWRI- B/20304						
Tender documents availability	, , ,	f Public Works, Roads and Infrastructure website					
Address for submission of tenders		IBLIC 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 Completed and signed Form of Offer Priced Bills of Quantities Record of addenda to tender documents Proposed amendments and qualifications Declaration on the status of Administration compliance CIDB grading certificate (Valid CIDB) Declaration of current projects						



T1.2 Tender Data

Clause number	Tender Data
	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

CONTRACT No. LDPWRI-B/20304 C.1.2 The Tender Part T1: Tendering procedures T1.1 Tender notice and invitation to tender T1.2 Tender data Part T2: Returnable documents T2.1 List of returnable documents T2.2 Returnable schedules The Contract Part C1: Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Joint Venture Agreement (If Applicable) The Contract Part C2: Pricing data C2.1 Pricing instructions C2.2 Bills of Quantities Part 3: Scope of work C3.1 Special Notes to Bidders C3.2 OHS Specifications Part 4: Site information C4 Drawings C.1.4 The employer's representative is: : Mr K Modjadji Name 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. C1.6.3 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
	Failure to attend the site briefing will result in the bidders not being considered for the project
	Tenderers must sign the attendance list in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance list.
C.2.11	Alterations to the documents
	Bidders are required to not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations
C.2.12	Alternative tender offer
	No alternative tender offer is permitted in this tender.
C.2.13.2	Replace sub-clause C.2.13.2 with the following; Return all returnable documents to the employer after completing them in 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.
	NOTE: Tenderers must submit both the physical printed tender document as well as a softcopy in a USB in the same envelope.
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 120 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 C	etter of Good Standing								
		derer's are required to submit, bound with the tender submission, a letter of good standing from compensation commissioner indicating that the bidder is in good standing.								
C3.2	deemed to	withstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be med to have received such addenda if the employer can show proof of transmission thereof (or otice in 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. Should it exceed, the bidder will therefore not be appointed.								

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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:

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

Where:

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

P is the points awarded to the bid under consideration

 P_m is the lowest Comparative bid price

 P_o is the comparative price under consideration

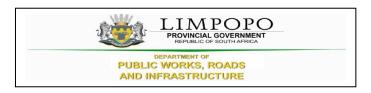
b) N_P is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

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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:

A -- MANDATORY REQUIREMENTS

- 2.1 Fully completed Form of Offer (Fully Completed and Signed Form of Offer)
- 2.2 Bills of Quantities (the carried to final summary amounts in the Bill of Quantities should match amounts in the final summary as per bill section)
- 2.3 Record of Addenda to tender documents (Records of addendum must be captured in full, whether applicable of not)
- 2.5 Declaration on the status of Administration compliance (Fully completed, circled and signed)
- 2.6 CIDB grading certificate (Valid CIDB)
- 2.7 Declaration of current projects (Fully completed, circled and signed)

B - NON- MANDATORY REQUIREMENTS

2.8 SBD 1 (Fully Completed and Signed)

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

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

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- 2.10 Attach full CSD Report (For verification of the required attachments above)
- 2.11 Proposed amendments and qualifications (Proposed amendments and qualifications must be captured in full, whether applicable of not)

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

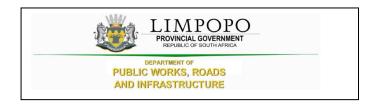
The bidder should also not appear on the National Treasury's list of black listed entities.

C -- SPECIAL NOTES TO BIDDERS AND DEPARTMENTAL RIGHTS

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

- I.1 LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.
- I.2 LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.
- I.3 LDPWR&I reserves the right to appoint the bidder that proves to be fully capable and qualifies to handle and execute the job.
- I.4 The proposals submitted must be in line with the detailed specification.
- I.5 LDPWR&I reserve the right to cancel or withdraw this bid if:
- i. Due to changed circumstances, there is no longer a need for these services; or
- ii. Funds are no longer available to cover the total envisaged expenditure; or
- iii. No acceptable bods are received; or
- iv. There is a material irregularity in the Bid process.
- 1.6 In the case of sub-contracting or joint venture agreement, LDPWR&I will enter into a single contract with the principal bidder.
- 1.7 Bidders who are not registered on Central Supplier Database (CSD) must register before submission of bids.
- 1.8 Any completion of the bid document in pencil or erasable ink will not be acceptable and will automatically disqualify the submitted bid.
- 1.9 Successful bidder will be required to sign and enter into a formal contract upon the award.
- 1.10 Notwithstanding shortcomings and/or inconsistencies, if any, in this specification, which is only a minimum specification, a bidder shall make provision for a complete solution that will deliver the required service efficiently and cost-effectively.
- 1.11 Bid documents must be submitted physically to the closing address as reflected on the Request for Quotation/Tender.
- 1.12 Quotations/Tenders received after the closing date and time will not be accepted for consideration.
- 1.13 This request for bid document contains confidential information about LDPWR&I, which has been provided to supply potential bidders with the data necessary to provide a holistic response.
- 1.14 No part of the contents may be used, copied, disclosed or conveyed in whole or in part to any party, in any manner whatsoever without the prior written permission of LDPWR&I.
- 1.15 Any reproduction or transmission of information contained in this document except for the sole purpose of responding to this bid is strictly prohibited.
- 1.16 References to LDPWR&I must not be made in any literature, promotional material, and brochures or sales presentations without the express written consent of LDPWR&I

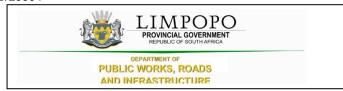
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T 2.2: RETURNABLE SCHEDULE

	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	□Yes	□ No	
4.	Proposed amendments and qualifications	□Yes	□ No	
5.	Proof of specific goals for award of the preference points	□Yes	□ No	
6.	SBD 1. Invitation to Tender	□Yes	□ No	
7.	SBD 6.1: Reference Points claim form in terms of the Preferential Procurement Regulations 2022 or amended	□Yes	□ No	
8.	Declaration on the status of Administration compliance.	□Yes	□ No	
9.	Proof of CIDB class grading: 7GB or higher.	□Yes	□ No	
10.	Full CSD Report	□Yes	□ No	
11.	Declaration of current projects	□Yes	□ No	

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Declaration on the status of administrative compliance

Ρ	iease indicate	e, by	circling eiti	ner Yes	or No,	wnetne	er the	aam	ınıstratı	ive intoi	matio	n subi	mittea	with th	e origir	ıaı
ra	amework ten	der	documents	have	change	d or no	ot. If	yes,	kindly	provid	e the	partic	ulars	below	with a	ny
sı	upporting doc	ume	ents.													
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	Signed						Dat	e								
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	Name						Pos	sition								
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	Enterprise															

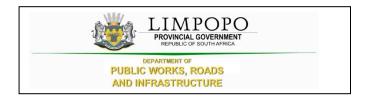
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Record of Addenda to tender documents

We co	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.				
Signed	<u> </u>	Date				
Name		Position				
Tanda	rer					

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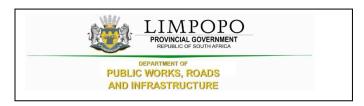
Proposed amendments and qualifications

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			

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SBD 1 PART A: INVITATION TO BID

YOU ARE HERE INFRASTRUCTU	BY INVITED TO BI	D FOR REQUIREM	IENTS OF T	HE LIMPOPO	O DEPARTMENT	OF PU	BLIC WORKS, F	ROADS AND
			CLOSING D	ATE	As per			As per
BID NUMBER:	LDPWRI-B/20304				Tender Advert	CLOSIN	NG TIME:	Tender Advert
DESCRIPTION	DEMOLITIONS,				AT UKUTHUL	A PRIN		
BID RESPONSE	DOCUMENTS MAY E	BE DEPOSITED IN T	THE BID BOX	SITUATED A	AT (STREET ADD	RESS)		
	T OF PUBLIC WC							
Physical addre	Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.							
BIDDING PROCE	DURE ENQUIRIES N	MAY BE DIRECTED	то					
CONTACT PERS	ON	Mr. NJ Motsopye				T		
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		Modjadj	iM@dpw.limpopo	o.gov.za
SUPPLIER INFO	RMATION							
NAME OF BIDDE	R							
POSTAL ADDRE	SS							
STREET ADDRE	SS				T			
TELEPHONE NU	MBER	CODE			NUMBER			
CELLPHONE NU	MBER							
E-MAIL ADDRES	S							
VAT REGISTRAT				T	T			
SUPPLIER COM	PLIANCE STATUS	TAX COMPLIANCE		OR	CENTRAL SUPPLIER			
		SYSTEM PIN:		OK	DATABASE No	: MAA	λA	
ARE YOU THE	ACCREDITED			ARE YOU	J A FOREIGN			
REPRESENTA		∏Yes	□No		UPPLIER FOR		□Yes	□No
SOUTH AFRIC					SERVICES /W	ORKS	[IF YES, ANSW	ER THE
OFFERED?	VICES /WORKS	[IF YES ENCLOSE	E PROOF]	OFFERE)?		QUESTIONNAL	RE BELOW]
	E TO BIDDING FORE	IGN SUPPLIERS						
IS THE ENTITY A	A RESIDENT OF THE	REPUBLIC OF SOL	JTH AFRICA	(RSA)?			Пү	ES NO
	TY HAVE A BRANCH			(. 10/1)			_	ES NO
			ENT IN THE F	RSA?				ES NO
	DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? YES NO							
	IABLE IN THE RSA F							ES NO
						D FOD 4	_	<u>—</u>
SYSTEM PIN CO	IS "NO" TO ALL OF DE FROM THE SOU	THE ABOVE, THEN TH AFRICAN REVE	NUE SERVIC	REQUIREME E (SARS) AN	ENT TO REGISTE ND IF NOT REGIS	TER AS	PER 2.3 BELOW	ICE STATUS I.

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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.

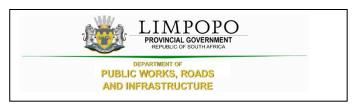
2. TAX COMPLIANCE REQUIREMENTS

- 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:	

CONTRACT No. LDPWRI-B/20304



SBD 6.1

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

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

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

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
 - the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
 - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.
- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:
 - (a) Price; and
 - (b) Specific Goals.

CONTRACT No. LDPWRI-B/20304

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

$$Ps = 80\left(1 - \frac{Pt - P\min\square}{P\min\square}\right) \text{ or } Ps = 90\left(1 - \frac{Pt - P\min\square}{P\min\square}\right)$$

Where

Pmin =

Ps = Points scored for price of tender under consideration

Price of lowest acceptable tender

Pt = Price of tender under consideration

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:

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

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

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(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

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

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

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

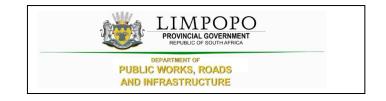
DECLARATION WITH REGARD TO COMPANY/FIRM

4.4.	Name of company/firm
4.5.	Company registration number:
4.6.	TYPE OF COMPANY/ FIRM
	 □ Partnership/Joint Venture / Consortium □ One-person business/sole propriety □ Close corporation □ Public Company □ Personal Liability Company □ (Pty) Limited □ Non-Profit Company □ State Owned Company

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- 4.7. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:
 - i) The information furnished is true and correct;
 - ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
 - iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
 - iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

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



DECLARATION OF CURRENT PROJECTS

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

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

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

Misrepresentation of facts will render your bid non-responsive.

Table 1 List of current projects executed by the bidder

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

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

Signed	 Date	
Name	 Position	
Enterprise		



THE CONTRACT



PART C1: AGREEMENT AND CONTRACT DATA



C1.1. FORM OF OFFER AND ACCEPTANCE

Offer

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

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL IN MAGEVA VILLAGE (GIYANI), MOPANI DISTRICT.

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

By the representative of the tenderer, deemed to be duly authorized, signing this part of the Form of Offer and Acceptance, the tenderer offers to perform all of the obligations and liabilities of the contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE OFFERED TOTAL OF THE PRICE INCLUSIVE OF VALUE ADDED TAX IS (CONTRACT PRICE)

Rand (in words)	; R	
(in figures) R		
and returning or	ne copy of this document to the tenderer before ereupon the tenderer becomes the party name	reptance part of this form of offer and acceptance ore the end of the period of validity stated in the ed as the contractor in the conditions of contract
Signature(s)		
Name(s)		
Capacity		
For the tenderer:		
Name & signature of witness		Date

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

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

The terms of the contract, are contained in:

Part C1 Agreements and Contract Data, (which includes this Form of Offer and Acceptance)

Part C2 Pricing Data

Part C3 Scope of Work

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

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

The tenderer shall within two weeks of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the *Employer's* agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions* of contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the tenderer (now *Consultant*) within five working days of the date of such receipt notifies the *Employer* in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

For the Em	ployer					
Signature						
Name						
Capacity						
Name and 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 accept t
foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data a addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of to offer agreed by the Tenderer and the <i>Employer</i> during this process of offer and acceptance.
It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have a meaning or effect in the contract between the parties arising from this agreement.



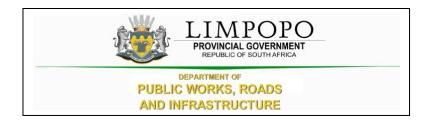
C2.1 CONTRACT DATA

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

n		Quantity	Rate	Amount	
<u>s</u>	SECTION NO. 1				
<u> </u>	BILL NO. 1				
<u> </u>	PRELIMINARIES NOTES				
<u> </u>	PREAMBLES				
ir is	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as assued by the Association of South African Quantity Surveyors before pricing this bill.				
<u> </u>	NOTES				
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				
	Orminal Forward				_
P B	Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Still No. 1 Preliminaries and General		R		

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

	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		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	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			

	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 Bill No. 1 Preliminaries and General				
		l			i i

	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: T:	Item		
	AGREEMENT			
	AGREEMENT			
1/1/44	Clause			
	F: 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:			
	Demolitions of 10 classrooms and 16 pit toilets, refurbishment of 12 classrooms and 24 water-borne toilet seats and construction of medium administration, 10 classrooms, 3 Grade R classrooms, 08 seats water-borne toilet seats and 14 enviro-loo toilets including all related external works			
	Site Description:			
	Ukuthula Primary School C/O Mageva Village Giyani Limpopo			
	Work for installation by direct contractors: TBC			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	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			
	Completions in sections are required: No			
	Intended date of practical completion and the penalty per calender day for the works as a whole:			
	R 5 300.00			
	Contract duration : 24 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		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
	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		
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.			
				<u></u>
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			
	1 Tomminution and Gorioral			

Brought Forward	R	
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		
Freminiales 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: V:	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 Ukuthula Primary 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		
1/1/69	Inspection of adjoining properties etc (B3.11)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
	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: V:	Item		
1/1/76	Shop drawings (B5.3)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	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		
	Temporary services (B7)			
1/1/83	Location (B7.1)			
	F: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
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		
		item		
4/4/00	Attendance on N/S Subcontractors (B9)			
1/1/89	General attendance (B9.1) F:V:			
	T:	Item		
1/1/90	Special attendance (B9.2)			
	F: T:	Item		
	1	item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL			
	Bill No. 1 Preliminaries and General			
	Fieliniinanes and General			

	Brought Forward		R	
1/1/91	Commissioning - Fuel, water and power (B9.3)			1
	F: V:	ltana		1
	T:	Item		ı
	Financial aspects (B10)			ı
	Statutory taxes, duties and levies (B10.1)			Ì
	F: V:	ltom		ı
	T:	Item		
1/1/92	Provision for Value Added Tax (VAT) is made in the Final Summary			l
	F: V:	14		ı
	T:	Item		
1/1/93	Payment of preliminaries (B10.2)			Ì
	<u>F</u> :V:	.,		ı
	T:	Item		
1/1/94	Adjustment of preliminaries (B10.3)			Ì
	<u>F</u> : V:	14		ı
	T:	Item		İ
1/1/95	Payment certificate cash flow (B10.4)			ı
	F: T:	ltom		ı
	T	Item		ı
1/1/96	Contractor information supply (B10.5)			ı
	F: V:	ltom		ı
	T:	Item		ı
	General (B11)			ı
1/1/97	Protection of works (B11.1)			ı
	F:			ı
	T:	Item		ı
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	Carried Forward		R	ì
	Section No. 1 PRELIMINARIES AND GENERAL			ı
	Bill No. 1 Preliminaries and General			ì
	Traininales and General			

		Brought Forward		R		
1/1/98	Protection/isolation of existing/sectiona works (B11.2)	lly occupied				
	F:V: T:		Item			
1/1/99	Site security (B11.3)					
	F:V: T:		Item			
1/1/100	Notice before covering work (B11.4)					
	F:V: T:		Item			
1/1/101	Disturbance (B11.5)					
	F:V:V:		Item			
1/1/102	Works cleaning and clearing (B11.6)					
	F:V: T:		Item			
1/1/103	Vermin (B11.7)					
	F:V: T:		Item			
1/1/104	Overhand work (B11.8)					
	F:V: T:		Item			
	Schedule of variables (B12)					
1/1/105	Pre-tender information (B12.1)					
	F:V: T:		Item			
		Carried Forward		R		
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General	Carried i Grward				
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	Brought Forward		R	
	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			
1/1/106	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes			
	F: T:	Item		
1/1/107	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete: Yes			
	F: T:	Item		
1/1/108	12.1.3 Interest of agents (B2.4)			
	F: T:	Item		
1/1/109	12.1.4 Defined works area (B3.1)			
	F: T:	Item		
1/1/110	12.1.5 Geotechnical investigation (B3.2)			
	F: T:	Item		
1/1/111	12.1.6 Existing premises occupied (B3.4)			
	<u>F</u> :V:			
	T:	Item		
1/1/112	12.1.7 Services - known (B3.7)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/113	12.1.8 Protection of trees (B3.9)			
	F: T:	Item		
1/1/114	12.1.9 Inspection of adjoining properties (B3.11)			
	F: T:	lt a ma		
4141445		Item		
1/1/115	12.1.10 Enclosure of the works (B6.2)			
	F: T:	Item		
1/1/116	12.1.11 Offices (B6.4.3)			
	F: T:	14		
		Item		
1/1/117	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.			
	F: T:	Item		
1/1/118	12.1.13 Subcontractors notice board (B6.6) A notice board is required: Yes			
	F: T:	Item		
	1	item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL			
	Bill No. 1 Preliminaries and General			

	Brought Forward		R	_
1/1/119	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		
1/1/120	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	
1/1/121	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		
1/1/122	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		
1/1/123	12.1.8 Special attendance (B9.2)			
	F: T:	Item		
1/1/124	12.1.19 Protection of the works (B11.1)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/125	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		
1/1/126	12.1.21 Disturbance (B11.5)			
	F: T:	Item		
1/1/127	Post tender information (B12.2)			
	F: T:	Item		
1/1/128	12.2.1 Payment of preliminaries Alternative selected: (A or B)			
	F: T:	Item		
1/1/129	12.2.2 Adjustment of preliminaries Alternative selected: (A or B)			
	F: T:	Item		
1/1/130	12.2.3 Additional agreed preliminaries items	ltoni		
17 17 100	F:V:			
	T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
	SECTION C: SPECIFIC PRELIMINARIES			
1/1/131	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		
1/1/132	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	
1/1/133	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		
		ltom		
1/1/134	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: V:			
	T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL			
	Bill No. 1 Preliminaries and General			
	Figuriality and General			

	Brought Forward		R	
1/1/135	OVERTIME			1
	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
1/1/136	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		l
1/1/137	SITE LEVELS			ı
	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		ı
1/1/138	PROPRIETARY BRANDED PRODUCTS			ı
	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		
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
1/1/139	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:	Hora		
	T:	Item		
1/1/140	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		
1/1/141	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:	Item		
	Carried to Final Summary		R	
	Section No. 1 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 3 CLASSROOM BLOCK X 2 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	713		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
2/1/2	Trenches	m3	169		
	Extra over excavations in earth to trenches and holes for				
2/1/3	Excavation in soft rock	m3	17		
2/1/4	Excavation in hard rock	m3	8		
	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.				
2/1/5	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	93		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
2/1/6	Trenches and holes	m2	484		
	KEEPING EXCAVATIONS FREE FROM WATER				
2/1/7	Keeping excavations free of all water other than subterranean water		Item		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 1 Earthworks				

	Brought Forward			R	
	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				
2/1/8	Backfilling to trenches, holes, etc	m3	85		
2/1/9	Under floors, steps, pavings, etc	m3	343		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
2/1/10	Backfilling to trenches, holes, etc	m3	25		
2/1/11	Under floors, steps, pavings, etc	m3	75		
	Filling supplied by the Contractor under floors, trenches, etc.				
2/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	75		
	COMPACTION OF SURFACES				
2/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	642		
	WEED KILLERS, INSECTICIDES, TERMITES,				
	etc.				
	Protection against termites, ants, etc				
2/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	642		
2/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	654		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 1				
	Earthworks				

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		R	
	3 CLASSROOM BLOCK X 2 Bill No. 2 Concrete, Formwork and Reinforcement			

Brought Forward	R	
Brought Forward		
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		
Structural Concrete		
Oli dollar di Collo ele		
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	R	
Section No. 2		
3 CLASSROOM BLOCK X 2		
Bill No. 2 Concrete, Formwork and Reinforcement		

	Brought Forw	ard		R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally app to this Bill.	oly			
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
2/2/1	Blinding	m3	8		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
2/2/2	Strip footings	m3	42		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
2/2/3	Concrete Apron cast to fall etc,	m3	14		
	25MPa/19mm Concrete				
2/2/4	Surface beds cast in panels	m3	65		
	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)				
2/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	63		
	Carried Forward	ard		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	Τ
	SUNDRIES TO CONCRETE				
	Surface treatment				
2/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	642		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
2/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	282		
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
2/2/8	3 x 30mm In saw cut joints in floors	m	104		
	Expansion joints				
2/2/9	10mm soft board or similar approved between concrete and brick wall	m	141		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
2/2/10	All diameter bars	t	3		
	Fabric reinforcement:				
2/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	501		
	Carried Forward to Summary of Section No.			R	
	Section No. 2				+
	3 CLASSROOM BLOCK X 2 Bill No. 2 Concrete, Formwork and Reinforcement				
	Consiste, Formwork and Remotesticing				

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 3 CLASSROOM BLOCK X 2 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	182		
	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	537		
2/3/3	Half brick wall, in beamfilling	m2	23		
	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				
2/3/4	Extra over brickwork for face brickwork in foundations (Provisional)	m2	363		
2/3/5	Extra over brickwork for face brickwork in superstructure	m2	408		
2/3/6	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	64		
2/3/7	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	59		
	Country Country			<u></u>	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 3 Masonry			R	

	Brought Forward			R	Π
2/3/8	Extra over brickwork for face brickwork in beamfilling	m2	23		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2/3/9	150mm Wide reinforcement built in horizontally.	m	2 646		
	"Allied concrete" or similar approved prestressed fabricated lintels				
2/3/10	100 x 70mm Lintels in lengths not exceeding 3m	m	75		
2/3/11	175 x 70mm Lintels in lengths not exceeding 3m	m	7		
	Turning pieces				
2/3/12	110mm Wide turning piece to flat brick lintels	m	64		
	Air bricks etc				
2/3/13	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	6		
	Roof ties				
2/3/14	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	128		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
2/3/15	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	36		
					_
	Carried Forward to Summary of Section No. Section No. 2			R	+
	3 CLASSROOM BLOCK X 2 Bill No. 3				
	Masonry				

Item 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				
2/4/1	Under walls	m2	5		
2/4/2	Under cills, etc.	m2	13		
	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	642		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
2/4/4	3 x 30mm In saw cut joints in floors	m	104		
2/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	141		
	Carried Forward to Summary of Section No. Section No. 2 3 CLASSROOM BLOCK X 2			R	
	Bill No. 4 Waterproofing				

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 n	739		
2/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m 53		
2/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m 41		
	Carried Forward		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 5 Roof Coverings			

	Brought Forward		R	1
	ROOF AND WALL INSULATION			1
	Similar Approved			I
	Sisalation "Bubble Foil" aluminium foil binded insulation			1
2/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	739		
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	Carried Forward to Summary of Section No. Section No. 2		R	
	3 CLASSROOM BLOCK X 2 Bill No. 5			ĺ
	Roof Coverings			İ

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 3 CLASSROOM BLOCK X 2 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 3 CLASSROOM BLOCK X 2 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				
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	616		
	Sawn softwood				
2/6/2	38 x 114mm Wall plates	m	154		
	<u>Sundries</u>				
2/6/3	Two coats creosote on sawn timbers	m2	57		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 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	154		
	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	914 x 2032mm single door	No	6		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
2/6/6	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	59		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 6 Carpentry and Joinery				
		I	I	I	

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.			
	Fixing			
	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 3 CLASSROOM BLOCK X 2 Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward		F	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	n2 4	158	
	CORNICES			
	Similar Approved			
	"Rhino" plasterboard cornice			
2/7/2	75mm Coved cornice, plugged to brickwork	m 3	303	
	Carried Forward		F	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 7 Ceilings, Partitions and Access Flooring			

	Brought Forward			R	Γ
	SUNDRIES				ļ
	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				
	<u>Insulation</u>				
2/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	458		
	·	1112	430		
	Coming Famous and to Commence of Continue No.				
	Carried Forward to Summary of Section No. Section No. 2			R	+
	3 CLASSROOM BLOCK X 2 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		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 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>Locks</u>				
2/8/1	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	6		
2/8/2	SC 150mm Cabin hook (Code: CH 150)	No	6		
	Kick and push plates				
2/8/3	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	12		
	Panic hardware				
2/8/4	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	6.0		
2/8/5	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	6		
	Carried Forward Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 8 Ironmongery			R	

	Brought Forward			R	
	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				
2/8/6	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	6		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray				
2/8/7	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	6		
	SUNDRIES				
	<u>Approved</u>				
2/8/8	"CZ8730SC" Door stop or similarly approved to wall or floors	No	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 8 Ironmongery				

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 3 CLASSROOM BLOCK X 2 Bill No. 9 Metalwork			

Brought Forward	R	
Actuators		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified		
<u>Scaffolding</u>		
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.		
Carried Forward	R	
Section No. 2 3 CLASSROOM BLOCK X 2 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 3 CLASSROOM BLOCK X 2 Bill No. 9 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				
2/9/1	Steel gate to door, size 914 x 2032mm high	No	6		
	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				
2/9/2	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				
2/9/3	Window size 1143 x 1272mm high	No	52		
	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.				
2/9/4	In Ceiling voids	m2	380		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 9 Metalwork				

	Brought Forward			R	
	STEEL COLUMNS AND BEAMS	l			
	Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to				
2/9/5	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	440		
	Carried Forward to Summary of Section No. Section No. 2 3 CLASSROOM BLOCK X 2			R	
	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	400		
	Granolithic screed on concrete, worked down to a true and even surface with a wood trowel				
2/10/2	30mm Thick on floors	m2	83		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
2/10/3	On brick walls	m2	569		
2/10/4	On narrow widths	m2	57		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 10 Plastering				

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

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.			
	Carried Forward		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 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.				
	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				
2/11/1	On floors	m2	400		
2/11/2	75mm high skirting	m	196		
	ATTIC STOCK				
2/11/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	40		
	<u>SUNDRIES</u>				
	10mm aluminium straight edge trim				
2/11/4	Dividing strip between tiles and door frames	m	5		
					+
	Carried Forward to Summary of Section No.			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 11 Tiling				

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 3 CLASSROOM BLOCK X 2 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	154		
2/12/2	Extra over eaves gutter for stopped end	No	4		
2/12/3	Extra over eaves gutter for corner	No	65		
2/12/4	Extra over eaves gutter for outlet	No	16		
	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	55		
2/12/6		No	32		
2/12/0	Extra over downpipe for offset	No	16		
2/12//	Extra over downpipe for shoe	INO	10		
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
2/12/8	9kg dry chemical powder fire extinguisher	No	6		
					\vdash
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 12 Plumbing and Drainage			R	

	Brought Forward		R	
2/12/9	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket No	4		
	Carried Forward to Summary of Section No.		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 12 Plumbing and Drainage			

Item No		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			
2/13/1	Panes exceeding 0.1m2 and not exceeding 0.5m2 m2	75		
	Carried Forward to Summary of Section No.		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 13			
	Glazing			

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	<u>PAINTWORK</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.				
	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	485		
2/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	154		
	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				
2/14/3	Plastered walls	m2	569		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 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				
2/14/4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	23		
2/14/5	On window frames	m2	75		
2/14/6	On door frames	m2	8		
2/14/7	On mild steel columns, beams, etc	m2	20		
2/14/8	On gutters	m	154		
2/14/9	On downpipes	m	57		
	WOOD				
	Prepare and paint three coats clear varnish:				
2/14/10	On door	m2	20		
				_	+
	Carried Forward to Summary of Section No. Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 14 Paintwork			R	

	SECTION SUMMARY			
Bill No		Page No		Amount
2/1	Earthworks	2/3		
2/2	Concrete, Formwork and Reinforcement	2/7		
2/3	Masonry	2/10		
2/4	Waterproofing	2/11		
2/5	Roof Coverings	2/13		
2/6	Carpentry and Joinery	2/17		
2/7	Ceilings, Partitions and Access Flooring	2/20		
2/8	Ironmongery	2/23		
2/9	Metalwork	2/28		
2/10	Plastering	2/30		
2/11	Tiling	2/32		
2/12	Plumbing and Drainage	2/35		
2/13	Glazing	2/36		
2/14	Paintwork	2/38		
	Carried to Final Summary		R	
	Section No. 2 3 CLASSROOM BLOCK X 2			
			I	1

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.			
	Carried Forward		R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	_
	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	457		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
3/1/2	Trenches	m3	104		
	Extra over excavations in earth to trenches and holes for				
3/1/3	Excavation in soft rock	m3	10		
3/1/4	Excavation in hard rock	m3	5		
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
	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.				
3/1/5	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	57		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
3/1/6	Trenches and holes	m2	298		
	Carried Forward Section No. 3			R	
	4 CLASSROOM BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	
	KEEPING EXCAVATIONS FREE FROM WATER				
3/1/7	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				
3/1/8	Backfilling to trenches, holes, etc	m3	53		
3/1/9	Under floors, steps, pavings, etc	m3	222		
	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	49		
	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	49		
	COMPACTION OF SURFACES				
3/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	413		
	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	413		
3/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	402		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 1 Earthworks				

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.			
	Carried Forward Section No. 3		R	
	4 CLASSROOM BLOCK Bill No. 2			
	Concrete, Formwork and Reinforcement			

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 with 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-light. Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface Formwork the holes: to the approval of the architect Repair imperfections: not allowed. Tie bolt holes shall be patched Not permitted: blowholes, small fins, bugles, 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.	Brought Forward	R	
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. Carried Forward R Section No. 3 4 CLASSROOM BLOCK Bill No. 2	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	R	
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 R Section No. 3 4 CLASSROOM BLOCK Bill No. 2	 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 		
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 R Section No. 3 4 CLASSROOM BLOCK Bill No. 2	Structural Concrete		
Section No. 3 4 CLASSROOM BLOCK Bill No. 2	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		
Section No. 3 4 CLASSROOM BLOCK Bill No. 2			
Section No. 3 4 CLASSROOM BLOCK Bill No. 2			
Section No. 3 4 CLASSROOM BLOCK Bill No. 2			
	Section No. 3 4 CLASSROOM BLOCK	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				
3/2/1	Blinding	m3	5		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
3/2/2	Strip footings	m3	26		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
3/2/3	Concrete Apron cast to fall etc,	m3	9		
	25MPa/19mm Concrete				
3/2/4	Surface beds cast in panels	m3	42		
	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)				
3/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	39		
					_
	Carried Forward Section No. 3			R	
	4 CLASSROOM BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

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

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 Section No. 3 4 CLASSROOM BLOCK Bill No. 3 Masonry		R	

	Brought Forward			R	Γ
	<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				
3/3/1	One brick wall	m2	112		
	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	338		
3/3/3	Half brick wall, in beamfilling	m2	14		
	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				
3/3/4	Extra over brickwork for face brickwork in foundations (Provisional)	m2	224		
3/3/5	Extra over brickwork for face brickwork in superstructure	m2	252		
3/3/6	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	44		
3/3/7	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	41		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 3 Masonry				

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

Item 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	9		
	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	413		
	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	73		
3/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	87		
	Carried Forward to Summary of Section No. Section No. 3 4 CLASSROOM BLOCK			R	
	Bill No. 4 Waterproofing				

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				
3/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	483		
3/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	35		
3/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	20		
	Carried Forward Section No. 3 4 CLASSROOM BLOCK Bill No. 5 Roof Coverings			R	

	Brought Forward		R	1
	ROOF AND WALL INSULATION			I
	Similar Approved			I
	Sisalation "Bubble Foil" aluminium foil binded insulation			1
3/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	483		
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	Carried Forward to Summary of Section No. Section No. 3		R	_
	4 CLASSROOM BLOCK Bill No. 5			ĺ
	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.			
	<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			
	Carried Forward		R	
	Section No. 3 4 CLASSROOM BLOCK 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. 3 4 CLASSROOM BLOCK Bill No. 6		
Carpentry and Joinery		

	Brought Forward			R	—
	ROOFS, ETC				ı
	Plate nailed timber roof truss construction				1
	The following is applicable in respect of roof trusses:				l
	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.				l
	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				l
3/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	403		
	Sawn softwood				l
3/6/2	38 x 114mm Wall plates	m	94		1
	<u>Sundries</u>				l
3/6/3	Two coats creosote on sawn timbers	m2	35		1
					1
	Carried Forward			R	Ì
	Section No. 3 4 CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	_
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
	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				
3/6/4	914 x 2032mm single door	No	4		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
3/6/5	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	41		
	Carried Forward to Summary of Section No. Section No. 3 4 CLASSROOM BLOCK Bill No. 6 Carrentry and Joinery			R	
	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			
	Carried Forward		R	
	Section No. 3 4 CLASSROOM BLOCK 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					
2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	310			
CORNICES					
"Rhino" plasterboard cornice					
75mm Coved cornice, plugged to brickwork	m	202			
Comind Former					
Section No. 3 4 CLASSROOM BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring			K		
	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 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 CORNICES "Rhino" plasterboard cornice 75mm Coved cornice, plugged to brickwork Carried Forward Section No. 3 4 CLASSROOM BLOCK Bill No. 7	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. 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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 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 CORNICES "Rhino" plasterboard cornice 75mm Coved cornice, plugged to brickwork Carried Forward Section No. 3 4 CLASSROOM BLOCK Bill No. 7	Proprietary 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 United 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. 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	Brought Forward			R	
	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	4		
	CEILING INSULATION				
	<u>Insulation</u>				
3/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	0	240		
	The state of the s	m2	310		
	O				
	Carried Forward to Summary of Section No. Section No. 3			R	_
	4 CLASSROOM 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		R	
	Section No. 3 4 CLASSROOM 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>Locks</u>				
3/8/1	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	4		
3/8/2	SC 150mm Cabin hook (Code: CH 150)	No	4		
	Kick and push plates				
3/8/3	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	8		
	Panic hardware				
3/8/4	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	4.0		
3/8/5	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	4		
	Carried Forward Section No. 3 4 CLASSROOM BLOCK Bill No. 8 Ironmongery			R	

	Brought Forward			R	
	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				
3/8/6	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	8		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray				
3/8/7	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	8		
	SUNDRIES				
	Approved				
3/8/8	"CZ8730SC" Door stop or similarly approved to wall or floors	No	4		
	Carried Forward to Summary of Section No. Section No. 3 4 CLASSROOM BLOCK Bill No. 8			R	
	Ironmongery				

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 Section No. 3		R	
	4 CLASSROOM BLOCK Bill No. 9 Metalwork			

Brought Forward	R	
<u>Actuators</u>		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified		
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 cost of protection in tender price.		
<u>Installation</u>		
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.		
Carried Forward	R	
Section No. 3 4 CLASSROOM 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.		
<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 4 CLASSROOM BLOCK Bill No. 9 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				
3/9/1	Steel gate to door, size 914 x 2032mm high	No	4		
	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				
3/9/2	914 x 2032mm single door	No	4		
	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				
3/9/3	Window size 1143 x 1272mm high	No	36		
	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.				
3/9/4	In Ceiling voids	m2	252		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 9 Metalwork				

	Brought Forward			R	
	STEEL COLUMNS AND BEAMS				
	Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to				
3/9/5	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	280		
	Carried Forward to Summary of Section No. Section No. 3 4 CLASSROOM BLOCK			R	
	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				
3/10/1	30mm Thick on floors and landings	m2	266		
	Granolithic screed on concrete, worked down to a true and even surface with a wood trowel				
3/10/2	30mm Thick on floors	m2	61		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
3/10/3	On brick walls	m2	379		
3/10/4	On narrow widths	m2	38		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 10 Plastering				
	Section No. 3 4 CLASSROOM BLOCK Bill No. 10			R	

	Brought Forward		R		
	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.	3			
					\vdash
	Carried Forward to Summary of Section No. Section No. 3		R		_
	4 CLASSROOM BLOCK				
	Bill No. 10 Plastering				
				ll .	

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.			
	Wastage			
	Tile wastage in excess of 10% will be for the tenderer's account.			
	Carried Forward		R	
	Section No. 3 4 CLASSROOM BLOCK 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.				
	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				
3/11/1	On floors	m2	266		
3/11/2	75mm high skirting	m	131		
	ATTIC STOCK				
3/11/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	27		
	SUNDRIES				
	10mm aluminium straight edge trim				
3/11/4	Dividing strip between tiles and door frames	m	3		
					+
	Carried Forward to Summary of Section No. Section No. 3			R	+
	4 CLASSROOM BLOCK Bill No. 11				
	Tiling				

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. 3 4 CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	
	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>				
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	8		
3/12/3	Extra over eaves gutter for corner	No	41		
3/12/4	Extra over eaves gutter for outlet	No	10		
	Rainwater downpipes				
3/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with				
	downpipes spaced as per engineer's specification	m	35		
3/12/6	Extra over downpipe for offset	No	20		
3/12/7	Extra over downpipe for shoe	No	10		
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
3/12/8	9kg dry chemical powder fire extinguisher	No	8		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward		R	
3/12/9	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket No	2		1
	Carried Forward to Summary of Section No. Section No. 3 4 CLASSROOM BLOCK		R	
	Bill No. 12 Plumbing and Drainage			

Item No		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 exceeding 0.1m2 and not exceeding 0.5m2 m2	52		
	Carried Forward to Summary of Section No.		R	
	Section No. 3 4 CLASSROOM BLOCK			
	Bill No. 13 Glazing			
		I		

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	<u>PAINTWORK</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.				
	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	328		
3/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	94		
	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				
3/14/3	Plastered walls	m2	379		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 14 Paintwork				

	Brought Forward			R		
	METAL SURFACES				3	
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect					
3/14/4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	15			
3/14/5	On window frames	m2	52			
3/14/6	On door frames	m2	5			
3/14/7	On mild steel columns, beams, etc	m2	13			
3/14/8	On gutters	m	94			
3/14/9	On downpipes	m	36			
	WOOD					
	Prepare and paint three coats clear varnish:					
3/14/10	On door	m2	13			
				_		\vdash
	Carried Forward to Summary of Section No. Section No. 3 4 CLASSROOM BLOCK Bill No. 14			R		
	Paintwork					

	SECTION SUMMARY			
Bill No		Page No		Amount
3/1	Earthworks	3/3		
3/2	Concrete, Formwork and Reinforcement	3/7		
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	3/23		
3/9	Metalwork	3/28		
3/10	Plastering	3/30		
3/11	Tiling	3/32		
3/12	Plumbing and Drainage	3/35		
3/13	Glazing	3/36		
3/14	Paintwork	3/38		
	• • • • • • • • • • • • • • • • • • • •		_	
	Carried to Final Summary Section No. 3		R	
	4 CLASSROOM BLOCK			

Item No		Quantity	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.			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	
	SITE CLEARANCE ETC				
	Site clearance				
4/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	55		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
4/1/2	Trenches	m3	18		
4/1/3	Holes	m3	20		
	Extra over excavations in earth to trenches and holes for				
4/1/4	Excavation in soft rock	m3	4		
4/1/5	Excavation in hard rock	m3	2		
4/1/6	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
4/1/0	Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc 500mm away from excavated face	m2	27		
	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.				
4/1/7	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	30		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	_
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
4/1/8	Trenches and holes	m2	78		
	KEEPING EXCAVATIONS FREE FROM WATER				
4/1/9	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				
4/1/10	Backfilling to trenches, holes, etc	m3	9		
4/1/11	Under floors, steps, pavings, etc	m3	23		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
4/1/12	Backfilling to trenches, holes, etc	m3	3		
4/1/13	Under floors, steps, pavings, etc	m3	3		
	Filling supplied by the Contractor under floors, trenches, etc.				
4/1/14	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	4		
	COMPACTION OF SURFACES				
4/1/15	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	59		
	Carried Forward			R	_
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			X	

	Brought Forward		R	
	WEED KILLERS, INSECTICIDES, TERMITES, etc.			
	Protection against termites, ants, etc			
4/1/16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	49		
4/1/17	To bottom and sides of excavated trenches, Holes, etc. m2	106		
	Carried Forward to Summary of Section No.		R	<u>_</u>
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			

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. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement		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,	
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	
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.	
Carried Forward R	
Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK 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				
4/2/1	Blinding	m3	1		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
4/2/2	Strip footings	m3	4		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
4/2/3	Concrete Apron cast to fall etc,	m3	2		
	25MPa/19mm Concrete				
4/2/4	Surface beds cast in panels	m3	4		
4/2/5	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)				
4/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK				
	Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	SUNDRIES TO CONCRETE				
	Surface treatment				
4/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	60		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
4/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	69		
	Rough formwork to soffits				
4/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	10		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
4/2/10	10mm soft board or similar approved between concrete and brick wall	m	34		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
4/2/11	All diameter bars	t	0.4		
	Fabric reinforcement:				
4/2/12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	27		
					+
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK 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. 4 10 SEATS ENVIROLOO TOILET BLOCK 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				
4/3/1	One brick wall	m2	19		
	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	104		
4/3/3	Half brick wall	m2	11		
4/3/4	Half brick wall, in beamfilling	m2	6		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
4/3/5	340 x 230mm Brick Piers	m3	0.5		
4/3/6	360 x 230mm Brick Piers	m3	0.5		
	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				
4/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	38		
	Carried Forward Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3 Masonry			R	

Brought Forward			R		_
Extra over brickwork for face brickwork in superstructure	m2	86			
Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	4			
Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	2			
Extra over brickwork for face brickwork to piers	m2	13			
Extra over brickwork for face brickwork in beamfilling	m2	6			
BRICKWORK SUNDRIES					
Brickwork reinforcement					
75mm Wide reinforcement built in horizontally	m	33			
150mm Wide reinforcement built in horizontally.	m	422			
"Allied concrete" or similar approved prestressed fabricated lintels					
100 x 70mm Lintels in lengths not exceeding 3m	m	3			
175 x 70mm Lintels in lengths not exceeding 3m	m	12			
Turning pieces					
110mm Wide turning piece to flat brick lintels	m	11			
Air bricks etc					
Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	2			
Roof ties					
30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	19			
					_
Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3 Masonry			R		
	Extra over brickwork for face brickwork in superstructure Extra over brickwork for face brickwork in brick-on-edge header course lintel Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped Extra over brickwork for face brickwork to piers Extra over brickwork for face brickwork in beamfilling BRICKWORK SUNDRIES Brickwork reinforcement 75mm Wide reinforcement built in horizontally 150mm Wide reinforcement built in horizontally. "Allied concrete" or similar approved prestressed fabricated lintels 100 x 70mm Lintels in lengths not exceeding 3m Turning pieces 110mm Wide turning piece to flat brick lintels Air bricks etc Set of 2 240 x 155mm Terracota air bricks as per architects specification Roof ties 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses Carried Forward Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3	Extra over brickwork for face brickwork in superstructure Extra over brickwork for face brickwork in brick-on-edge header course lintel Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped Extra over brickwork for face brickwork to piers Extra over brickwork for face brickwork to piers Extra over brickwork for face brickwork in beamfilling Extra over brickwork for face brickwork in beamfilling BRICKWORK SUNDRIES Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 150mm Wide reinforcement built in horizontally. m "Allied concrete" or similar approved prestressed fabricated lintels 100 x 70mm Lintels in lengths not exceeding 3m m Turning pieces 110mm Wide turning piece to flat brick lintels Mair bricks etc Set of 2 240 x 155mm Terracota air bricks as per architects specification No Roof ties 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses Carried Forward Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3	Extra over brickwork for face brickwork in superstructure m2 Extra over brickwork for face brickwork in brick-on-edge header course lintel mortar and set slightly sloped mader course sills, bedded in mortar and set slightly sloped mader course sills, bedded in mortar and set slightly sloped mader course sills, bedded in mortar and set slightly sloped mader course sills, bedded in mortar and set slightly sloped mader course sills, bedded in mortar and set slightly sloped mader course sills, bedded in mortar and set slightly made sloped mader course sills, bedded in mortar and set slightly made sloped made slope	Extra over brickwork for face brickwork in superstructure m2 86 Extra over brickwork for face brickwork in brick-on-edge header course lintel m 4 Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped m 2 Extra over brickwork for face brickwork to piers m2 13 Extra over brickwork for face brickwork to piers m2 13 Extra over brickwork for face brickwork in beamfilling m2 6 BRICKWORK SUNDRIES Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 33 150mm Wide reinforcement built in horizontally m 422 "Allied concrete" or similar approved prestressed fabricated lintels 100 x 70mm Lintels in lengths not exceeding 3m m 3 175 x 70mm Lintels in lengths not exceeding 3m m 12 Turning pieces 110mm Wide turning piece to flat brick lintels m 11 Air bricks etc Set of 2 240 x 155mm Terracota air bricks as per architects specification No 2 Roof ties 30 x 1 2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses No 19 Carried Forward R Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3	Extra over brickwork for face brickwork in superstructure m2 Extra over brickwork for face brickwork in brick-on-edge header course lintel m4 Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped m 2 Extra over brickwork for face brickwork to piers m2 Extra over brickwork for face brickwork in beamfilling m2 Extra over brickwork for face brickwork in beamfilling m2 BRICKWORK SUNDRIES Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 33 150mm Wide reinforcement built in horizontally m 422 "Allied concrete" or similar approved prestressed fabricated lintels 100 x 70mm Lintels in lengths not exceeding 3m m 12 Turning pieces 110mm Wide turning piece to flat brick lintels m 11 Air bricks etc Set of 2 240 x 155mm Terracota air bricks as per architects specification No 2 Roof ties 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses No 19 Carried Forward R Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3

	Brought Forward		R	
	MOVEMENTS JOINTS ETC,			
	Expansion joints			
4/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	4		
	Carried Forward to Summary of Section No.		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK			
	Bill No. 3 Masonry			
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3		R	

Item 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				
4/4/1	Under walls	m2	1		
4/4/2	Under cills, etc.	m2	0.5		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
4/4/3	Under surface beds.	m2	49		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
4/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	34		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 4				

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				
4/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	40		
4/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	6		
4/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	10		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 5 Roof Coverings			IX.	

Brought Forward		R		
ROOF AND WALL INSULATION				
Similar Approved				
Sisalation "Bubble Foil" aluminium foil binded insulation				
135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	40			
Carried Forward to Summary of Section No. Section No. 4		R		
10 SEATS ENVIROLOO TOILET BLOCK Bill No. 5 Roof Coverings				
	ROOF AND WALL INSULATION Similar Approved Sisalation "Bubble Foil" aluminium foil binded insulation 135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2 Carried Forward to Summary of Section No. Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 5	ROOF AND WALL INSULATION Similar Approved Sisalation "Bubble Foil" aluminium foil binded insulation 135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2 40 Carried Forward to Summary of Section No. Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK BIRD.	ROOF AND WALL INSULATION Similar Approved Sisalation "Bubble Foil" aluminium foil binded insulation 135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2 40 Carried Forward to Summary of Section No. Resction No. 4 10 SEATS ENVIROLOO TOILET BLOCK	ROOF AND WALL INSULATION Similar Approved Sisalation "Bubble Foil" aluminium foil binded insulation 135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2 40 Carried Forward to Summary of Section No. Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 5

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			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 6 Carpentry and Joinery			

	Brought Forward	R	
<u>Description</u>	ons en en en en en en en en en en en en en		
	scribed as "bolted" shall be deemed to exclude and include the holes unless otherwise		
	e fixing of members is not stated it shall mean g of one timber member to another.		
	"planted on" shall mean the nailing of one ember to another		
	"screwed on" shall mean the countersunk of one timber member to another.		
screwing	"screwed on and pelleted" shall mean the of one timber member to another with the screw sunk and pelleted.		
screwing	"plugged" shall mean the countersunk of a timber member to and including plastic prickwork or concrete.		
screwing	"plugged and pelleted" shall mean the of a timber member to and including plastic prickwork or concrete with heads of screw sunk ted.		
fixed from	etc. described as screwed to steel must be n underside and prices are to include for unk drilling through the steel for screw fixing.		
	ons of floors, ceilings, joinery, etc. shall be to include for all square cutting		
	ons of items given in linear metre shall be to include for mitres, stopped ends, fitted ons, etc.		
chamfers	ons of rounded angles, rebates, grooves, , moulded edges, etc. shall be deemed to or angles, ends, etc.		
	Carried Forward	R	
Bill No. 6	S ENVIROLOO TOILET BLOCK		
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				
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	34		
	Sawn softwood				
4/6/2	38 x 114mm Wall plates	m	23		
	<u>Sundries</u>				
4/6/3	Two coats creosote on sawn timbers	m2	9		
					<u></u>
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 6 Carpentry and Joinery				

	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	23		
	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				
4/6/5	813 x 2032mm single door	No	6		
4/6/6	914 x 2032mm single door	No	4		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
4/6/7	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	2		
	Carried Forward to Summary of Section No. Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 6 Carpentry and Joinery			R	

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			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK 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				
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	17		
	CORNICES				
	"Rhino" plasterboard cornice				
4/7/2	75mm Coved cornice, plugged to brickwork	m	38		
	Occurred F				
	Carried Forward Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 7			R	
	Ceilings, Partitions and Access Flooring				

	Brought Forward		R	
	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		
	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.	17		
	Carried Forward to Summary of Section No.		R	_ _
	Section No. 4 10 SEATS ENVIROLOO TOILET 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		R	
	Section No. 4 10 SEATS ENVIROLOO 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				
	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	8		
	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	8		
4/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	2		
4/8/4	SC 150mm Cabin hook (Code: CH 150)	No	2		
4/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	8.0		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO 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	20		
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	8		
	Panic hardware				
4/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	2.0		
4/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	2		
	<u>Sundries</u>				
4/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	8.0		
4/8/11	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	8		
	SUNDRIES				
	Approved				
4/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	20		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 8 Ironmongery				

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.			
	<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.			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork			

Brought	Forward	R	
<u>Actuators</u>			
All rates for shopfronts with actuators to include supply and installation of actuators as specified	for the		
<u>Scaffolding</u>			
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 a statement concerning protection that will be protection to finishes and components until Practical Components to include specific references to the method removal of such protection. All tenderers to include cost of protection in tenderers.	ovided letion. of		
<u>Installation</u>			
All measurements to be checked on site prior to ordering and manufacturing.			
Aluminium sections and shop drawings to be accept Architect prior to manufacturing.	cepted		
Allow for water and weather proof polysulphide s to approved specifications all around frame junc 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 d showing basic system sections for the Architect's approval.			
Carried	Forward	R	
Section No. 4 10 SEATS 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.		
<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. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 9 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				
4/9/1	Steel gate to door, size 813mm x 2032mm high	No	2		
	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				
4/9/2	813 x 2032mm single door	No	4		
	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				
4/9/3	813 x 2032mm single door	No	2		
4/9/4	914 x 2032mm single door	No	4		
	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				
4/9/5	Window size 533 x 950mm high	No	4		
	Carried Forward to Summary of Section No.			R	<u></u>
	Section No. 4 10 SEATS ENVIROLOO 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	56		
4/10/2	30mm Thick to falls and currents	m2	3		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
4/10/3	On brick walls	m2	94		
4/10/4	On narrow widths	m2	9		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
4/10/5	Aluminium straight edge M-trim suitable for under- screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	2		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 10 Plastering			.,	

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.			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK 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				
4/11/1	Plastered walls	m2	56		
4/11/2	On narrow widths	m2	6		
4/11/3	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				
4/11/4	On floors	m2	29		
4/11/5	75mm high skirting	m	73		
	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	6		
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	3		
					_
	Carried Forward Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 11 Tiling			R	

	Brought Forward		R	1
	SUNDRIES			
	10mm aluminium straight edge trim			
4/11/8	Dividing strip between tiles and door frames m	2		
	Carried Forward to Summary of Section No.		R	
	Section No. 4			_
	10 SEATS ENVIROLOO TOILET BLOCK Bill No. 11			
	Tiling			

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. 4 10 SEATS ENVIROLOO TOILET BLOCK 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>				
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	23		
4/12/2	Extra over eaves gutter for stopped end	No	8		
4/12/3	Extra over eaves gutter for corner	No	17		
4/12/4	Extra over eaves gutter for outlet	No	4		
	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	14		
4/12/6	Extra over downpipe for offset	No	8		
4/12/7	Extra over downpipe for shoe	No	4		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage			K	

	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				
4/12/8	WHB, installed complete	No	2		
	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	4		
	Vaal Sanitaryware "Lavatera" vitreous china wall hung urinal with top inlet including 38mm chrome plated domical grating, including Cobra "Junior Flushmaster" exposed chrome plated flush valve, including offset urinal flush pipe, chrome plated bottle trap and parallel nipple (PC allowance of R4 950.00/no excludes V.A.T. but includes delivery to site), includes supply and fixing				
4/12/10	Urinal, installed complete	No	1		
	CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)				
4/12/11	32mm Basin waste union	No	2		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	
	TOILET ROLL HOLDER				
	To be approved by Architect				
4/12/12	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	4		
	SOAP DISPENSER				
	To be approved by Architect				
4/12/13	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	1		
	PAPER TOWEL DISPENSER				
	To be approved by Architect				
4/12/14	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				
4/12/15	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	2		
	TESTING				
4/12/16	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
4/12/17	Allow an amount of R205 800.00 (Two Hundred and Five Thousand Eight Hundred) for the supply and installation of Sanitary Fitting Sundries		Item		82 320 00
4/12/18	Allow an amount of R500 000.00 (Five Hundred Thousand) for the supply and installation of Enviro-loo complete		ltem		200 000 00
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing 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				
4/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	2		
	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	2		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 13				

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				
4/14/1	On internal ceilings and cornices	m2	21		
4/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	23		
	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	2		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 14				
	Paintwork				

	FLOATED PLASTER INTERNAL WALLS			i	1
	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	94		
	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				
	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	8		
4/14/6	On window frames	m2	2		
4/14/7	On door frames	m2	13		
4/14/8	On gutters	m	23		
4/14/9	On downpipes	m	14		
	<u>WOOD</u>				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
4/14/10	On door	m2	28		
1	Prepare and paint three coats clear varnish:				
4/14/11	On door	m2	7		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 14 Paintwork			K	

	SECTION SUMMARY			
Bill No		Page No		Amount
4/1	Earthworks	4/4		
4/2	Concrete, Formwork and Reinforcement	4/8		
4/3	Masonry	4/12		
4/4	Waterproofing	4/13		
4/5	Roof Coverings	4/15		
4/6	Carpentry and Joinery	4/19		
4/7	Ceilings, Partitions and Access Flooring	4/22		
4/8	Ironmongery	4/25		
4/9	Metalwork	4/29		
4/10	Plastering	4/30		
4/11	Tiling	4/33		
4/12	Plumbing and Drainage	4/37		
4/13	Glazing	4/38		
4/14	Paintwork	4/40		
	Carried to Final Summary		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK			
	I	I	I	II I

Item No		Quantity	Rate	Amount
	SECTION NO. 5			
	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			
	<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 multiple handling of material			
	Excavations measured in successive depths of 2m.			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	
	SITE CLEARANCE ETC				
	Site clearance				
5/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	55		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
5/1/2	Trenches	m3	18		
5/1/3	Holes	m3	20		
	Extra over excavations in earth to trenches and holes for				
5/1/4	Excavation in soft rock	m3	4		
5/1/5	Excavation in hard rock	m3	2		
5/1/6	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc 500mm away from excavated face CARTING AWAY OF EXCAVATED MATERIAL	m2	27		
5/1/7	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. 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	30		
	Carried Forward Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			R	

	Brought Forward			R	_
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
5/1/8	Trenches and holes	m2	78		
	KEEPING EXCAVATIONS FREE FROM WATER				
5/1/9	Keeping excavations free of all water other than subterranean water		ltem		
	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				
5/1/10	Backfilling to trenches, holes, etc	m3	9		
5/1/11	Under floors, steps, pavings, etc	m3	23		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
5/1/12	Backfilling to trenches, holes, etc	m3	3		
5/1/13	Under floors, steps, pavings, etc	m3	3		
	Filling supplied by the Contractor under floors, trenches, etc.				
5/1/14	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	4		
	COMPACTION OF SURFACES				
5/1/15	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	59		
	Carried Forward			R	_
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			K	

	Brought Forward		R	
	WEED KILLERS, INSECTICIDES, TERMITES, etc.			
	Protection against termites, ants, etc			
5/1/16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming m2	49		
5/1/17	To bottom and sides of excavated trenches, Holes, etc. m2	106		
	Carried Forward to Summary of Section No.		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks		K	
	Laramono			1

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.			
	Carried Forward Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement		R	

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 		
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.		
Carried Forward	R	
Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK 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				
5/2/1	Blinding	m3	1		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
5/2/2	Strip footings	m3	4		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
5/2/3	Concrete Apron cast to fall etc,	m3	2		
	25MPa/19mm Concrete				
5/2/4	Surface beds cast in panels	m3	4		
5/2/5	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)				
5/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5		
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

	Brought Forward	I		R	
	SUNDRIES TO CONCRETE				
	Surface treatment				
5/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	60		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
5/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	69		
	Rough formwork to soffits				
5/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	10		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
5/2/10	10mm soft board or similar approved between concrete and brick wall	m	34		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
5/2/11	All diameter bars	t	0.4		
	Fabric reinforcement:				
5/2/12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	27		
					_
	Carried Forward to Summary of Section No.			R	<u></u>
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK 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. 5 4 SEATER ENVIROLOO TOILET BLOCK 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				
5/3/1	One brick wall	m2	19		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
5/3/2	One brick wall	m2	104		
5/3/3	Half brick wall	m2	11		
5/3/4	Half brick wall, in beamfilling	m2	6		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
5/3/5	340 x 230mm Brick Piers	m3	0.5		
5/3/6	360 x 230mm Brick Piers	m3	0.5		
	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				
5/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	38		
	Carried Forward Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK			R	
	Bill No. 3 Masonry				

	Brought Forward			R	
5/3/8	Extra over brickwork for face brickwork in superstructure	m2	86		
5/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	4		
5/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	2		
5/3/11	Extra over brickwork for face brickwork to piers	m2	13		
5/3/12	Extra over brickwork for face brickwork in beamfilling	m2	6		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
5/3/13	75mm Wide reinforcement built in horizontally	m	33		
5/3/14	150mm Wide reinforcement built in horizontally.	m	422		
	"Allied concrete" or similar approved prestressed fabricated lintels				
5/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	3		
5/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	12		
	Turning pieces				
5/3/17	110mm Wide turning piece to flat brick lintels	m	11		
	Air bricks etc				
5/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	2		
	Roof ties				
5/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	19		
				_	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 3			R	
	Masonry				

	Brought Forward		R	
	MOVEMENTS JOINTS ETC,			
	Expansion joints			
5/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	4		
				\vdash
	Carried Forward to Summary of Section No.		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 3			
	Masonry			

Item 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				
5/4/1	Under walls	m2	1		
5/4/2	Under cills, etc.	m2	0.5		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
5/4/3	Under surface beds.	m2	49		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
5/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	34		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 4				

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				
5/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	40		
5/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	6		
5/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	10		
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 5 Roof Coverings				

	Brought Forward		R	i i
	ROOF AND WALL INSULATION			1
	Similar Approved			1
	Sisalation "Bubble Foil" aluminium foil binded insulation			1
5/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	40		
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	Carried Forward to Summary of Section No. Section No. 5		R	
	4 SEATER ENVIROLOO TOILET BLOCK Bill No. 5			ĺ
	Roof Coverings			İ

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			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK 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. 5 4 SEATER ENVIROLOO 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				
5/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	34		
	Sawn softwood				
5/6/2	38 x 114mm Wall plates	m	23		
	<u>Sundries</u>				
5/6/3	Two coats creosote on sawn timbers	m2	9		
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	_
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
5/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	23		
	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				
5/6/5	813 x 2032mm single door	No	6		
5/6/6	914 x 2032mm single door	No	4		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
5/6/7	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	2		
	Carried Forward to Summary of Section No. Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 6 Carpentry and Joinery			R	

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			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK 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				
5/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	17		
	CORNICES				
	Similar Approved				
	"Rhino" plasterboard cornice				
5/7/2	75mm Coved cornice, plugged to brickwork	m	38		
				_	
	Carried Forward Section No. 5			R	
	4 SEATER ENVIROLOO TOILET BLOCK Bill No. 7				
	Ceilings, Partitions and Access Flooring				

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
5/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	4		
	CEILING INSULATION				
	<u>Insulation</u>				
5/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	17		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET 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		R	
	Section No. 5 4 SEATER ENVIROLOO 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 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>				
5/8/1	SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170)	No	4		
	<u>Locks</u>				
5/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	4		
5/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	2		
5/8/4	SC 150mm Cabin hook (Code: CH 150)	No	2		
5/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	4.0		
	Comical Former				
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 8 Ironmongery			R	

	Brought Forward			R	-
	Kick and push plates				
5/8/6	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	12		
5/8/7	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	4		
	Panic hardware				
5/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	2.0		
5/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	2		
	<u>Sundries</u>				
5/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	4.0		
5/8/11	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	4		
	SUNDRIES				
	Approved				
5/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	20		
	Carried Femulard to Summany of Section No.			R	-
	Carried Forward to Summary of Section No. Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 8 Ironmongery			K	=

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. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork			

Brought Forward	R	
<u>Actuators</u>		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified		
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.		
<u>Installation</u>		
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.		
Carried Forward	R	
Section No. 5 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.		
<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 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 9 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				
5/9/1	Steel gate to door, size 813mm x 2032mm high	No	2		
	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				
5/9/2	813 x 2032mm single door	No	4		
	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				
5/9/3	914 x 2032mm single door	No	2		
	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				
5/9/4	Window size 533 x 950mm high	No	4		
	Carried Forward to Summary of Section No. Section No. 5			R	<u> </u>
	4 SEATER ENVIROLOO 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				
5/10/1	30mm Thick on floors and landings	m2	27		
5/10/2	30mm Thick to falls and currents	m2	3		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
5/10/3	On brick walls	m2	94		
5/10/4	On narrow widths	m2	9		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
5/10/5	Aluminium straight edge M-trim suitable for under- screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	2		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 10 Plastering				

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.			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK 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				
5/11/1	Plastered walls	m2	56		
5/11/2	On narrow widths	m2	6		
5/11/3	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				
5/11/4	On floors	m2	29		
5/11/5	75mm high skirting	m	73		
	ATTIC STOCK				
5/11/6	150 x 150 x mm ceramic tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	6		
5/11/7	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	6		
					_
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 11 Tiling				

	Brought Forward		R	
	SUNDRIES			
	10mm aluminium straight edge trim			
5/11/8	Dividing strip between tiles and door frames m	2		
				_
	Carried Forward to Summary of Section No.		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK			 _
	Bill No. 11 Tiling			

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. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	
	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>				
5/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	23		
5/12/2	Extra over eaves gutter for stopped end	No	8		
5/12/3	Extra over eaves gutter for corner	No	17		
5/12/4	Extra over eaves gutter for outlet	No	4		
	Rainwater downpipes				
5/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	14		
5/12/6	Extra over downpipe for offset	No	8		
5/12/7	Extra over downpipe for shoe	No	4		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage				
			1		

	Brought Forward			R	
	WASH HAND BASINS		l		
	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				
5/12/8	WHB, installed complete	No	2		
	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				
5/12/9	WC, installed complete	No	4		
	CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)				
5/12/10	32mm Basin waste union	No	2		
	TOILET ROLL HOLDER				
	To be approved by Architect				
5/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to				
	walls	No	4		
	Carried Forward Section No. 5			R	
	4 SEATER ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward		R	
	SOAP DISPENSER			
	To be approved by Architect			
5/12/12	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	o 1		
	PAPER TOWEL DISPENSER			
	To be approved by Architect			
5/12/13	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	o 1		
	TAPS, VALVES, ETC			
	Similar Approved			
5/12/14	15mm Cobra brass watertight hose Bib tap (Code: 108- 15) N	2		
	TESTING			
5/12/15	Testing water pipe system	Item		
	BUDGETARY ALLOWANCE			
5/12/16	Allow an amount of R107 400.00 (One Hundred and Seven Thousand Four Hundred) for the supply and installation of Sanitary Fitting Sundries	Item		107 400 00
5/12/17	Allow an amount of R200 000.00 (Two Hundred Thousand) for the supply and installation of Enviro-loo			
	complete	Item		200 000 00
	Carried Forward to Summary of Section No.		R	
	Section No. 5			
	4 SEATER ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage			
	Figurially and Diamage			

Item No		Quantity	Rate	Amount
	BILL NO. 13			
	<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			
	6mm obscure floated glass fixed glazing putty			
5/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	12 2		
	TOPS, SHELVES, DOORS, MIRROR ETC			
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved			
5/13/2	Mirror 400 x 600 mm high	lo 2		
	Carried Forward to Summary of Section No.		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK			
	Bill No. 13 Glazing			
	_ 			

BILL NO. 14				
DAINTHADIA				
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				
On internal ceilings and cornices	m2	21		
Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	23		
Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
Fiber cement window sill not exceeding 300mm high or wide	m	2		
Carried Forward			R	
Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 14				
	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 On internal ceilings and cornices Fibre cement fascias boards not exceeding 300mm high or wide painted on both side Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect Fiber cement window sill not exceeding 300mm high or wide Carried Forward Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK	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 On internal ceilings and cornices m2 Fibre cement fascias boards not exceeding 300mm high or wide painted on both side m Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect Fiber cement window sill not exceeding 300mm high or wide painted on both side Carried Forward Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 14	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 On internal ceilings and cornices m2 21 Fibre cement fascias boards not exceeding 300mm high or wide painted on both side m 23 Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect Fiber cement window sill not exceeding 300mm high or wide painted on both side m 23 Carried Forward Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 14	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 On internal ceilings and cornices m2 21 Fibre cement fascias boards not exceeding 300mm high or wide painted on both side m 23 Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect Fiber cement window sill not exceeding 300mm high or wide you coats mat enamel paint, colour to be confirmed by architect Fiber cement window sill not exceeding 300mm high or wide Carried Forward R Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 14

	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				
5/14/4	Plastered walls	m2	94		
	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				
5/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	8		
5/14/6	On window frames	m2	2		
5/14/7	On door frames	m2	13		
5/14/8	On gutters	m	23		
5/14/9	On downpipes	m	14		
	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				
5/14/10	On door	m2	28		
	Prepare and paint three coats clear varnish:				
5/14/11	On door	m2	7		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 14 Paintwork			K	

	SECTION SUMMARY			
Bill No		Page No		Amount
5/1	Earthworks	5/4		
5/2	Concrete, Formwork and Reinforcement	5/8		
5/3	Masonry	5/12		
5/4	Waterproofing	5/13		
5/5	Roof Coverings	5/15		
5/6	Carpentry and Joinery	5/19		
5/7	Ceilings, Partitions and Access Flooring	5/22		
5/8	Ironmongery	5/25		
5/9	Metalwork	5/29		
5/10	Plastering	5/30		
5/11	Tiling	5/33		
5/12	Plumbing and Drainage	5/37		
5/13	Glazing	5/38		
5/14	Paintwork	5/40		
	Carried to Final Summary		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK			
		I	I	l I

Item No		Quantity	Rate	Amount
	SECTION NO. 6			
	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. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	
	SITE CLEARANCE ETC				ļ
	Site clearance				
6/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	435		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
6/1/2	Trenches	m3	109		
	Extra over excavations in earth to trenches and holes for				
6/1/3	Excavation in soft rock	m3	11		
6/1/4	Excavation in hard rock	m3	5		
	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.				
6/1/5	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	62		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
6/1/6	Trenches and holes	m2	335		
	KEEPING EXCAVATIONS FREE FROM WATER				
6/1/7	Keeping excavations free of all water other than subterranean water		Item		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	
	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				
6/1/8	Backfilling to trenches, holes, etc	m3	53		
6/1/9	Under floors, steps, pavings, etc	m3	237		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
6/1/10	Backfilling to trenches, holes, etc	m3	16		
6/1/11	Under floors, steps, pavings, etc	m3	46		
	Filling supplied by the Contractor under floors, trenches, etc.				
6/1/12	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				
6/1/13	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				
6/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	484		
6/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	444		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 1				
	Earthworks				

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.			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 2 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 		
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.		
Carried Forward	R	
Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 2		
Concrete, Formwork and Reinforcement		

	Brought Forward			R	Γ
	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				
6/2/1	Blinding	m3	5		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
6/2/2	Strip footings	m3	27		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
6/2/3	Concrete Apron cast to fall etc,	m3	18		
	25MPa/19mm Concrete				
6/2/4	Surface beds cast in panels	m3	40		
6/2/5	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)				
6/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	42		
					<u></u>
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

	Brought Forward			R	$\overline{\mathbf{I}}$
	SUNDRIES TO CONCRETE				
	Surface treatment				
6/2/7	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				
6/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	277		
	Rough formwork to soffits				
6/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	5		
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
6/2/10	3 x 30mm In saw cut joints in floors	m	19		
	Expansion joints				
6/2/11	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				
6/2/12	All diameter bars	t	2		
	Fabric reinforcement:				
6/2/13	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	305		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK				\dagger
	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. 6 MEDIUM ADMINISTRATION BLOCK 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				
6/3/1	One brick wall	m2	126		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
6/3/2	One brick wall	m2	377		
6/3/3	Half brick wall	m2	127		
6/3/4	Half brick wall, in beamfilling	m2	14		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
6/3/5	340 x 230mm Brick Piers	m3	1		
6/3/6	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				
6/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	252		
	Carried Forward Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 3 Masonry			R	

	Brought Forward			R	Τ
6/3/8	Extra over brickwork for face brickwork in superstructure	m2	256		
6/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	41		
6/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	32		
6/3/11	Extra over brickwork for face brickwork to piers	m2	27		
6/3/12	Extra over brickwork for face brickwork in beamfilling	m2	14		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
6/3/13	75mm Wide reinforcement built in horizontally	m	374		
6/3/14	150mm Wide reinforcement built in horizontally.	m	1 857		
	"Allied concrete" or similar approved prestressed fabricated lintels				
6/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	43		
6/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	33		
	Turning pieces				
6/3/17	110mm Wide turning piece to flat brick lintels	m	57		
	Air bricks etc				
6/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4		
	Roof ties				
6/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	76		
	Corried Femaler			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 3 Masonry			K	

	Brought Forward		R	
	MOVEMENTS JOINTS ETC,			
	Expansion joints			
6/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	18		
	Carried Forward to Summary of Section No.		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 3			
	Masonry			

Item 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				
6/4/1	Under walls	m2	3		
6/4/2	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				
6/4/3	Under surface beds.	m2	484		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
6/4/4	3 x 30mm In saw cut joints in floors	m	19		
6/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	87		
	Carried Forward to Summary of Section No. Section No. 6			R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 4 Waterproofing				

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				
6/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	441		
6/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	25		
6/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	39		
6/5/4	550mm girth close cut and mitred Valley gutter, 4 times bent and including soakers, etc	m	9		
	Carried Forward Section No. 6 MEDIUM ADMINISTRATION BLOCK			R	
	Bill No. 5 Roof Coverings				

	Brought Forward		R	i i
	ROOF AND WALL INSULATION			1
	Similar Approved			1
	Sisalation "Bubble Foil" aluminium foil binded insulation			1
6/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	441		
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	Carried Forward to Summary of Section No. Section No. 6		R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 5			ĺ
	Roof Coverings			ı

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. Eixing 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	Item No		Quantity	Rate	Amount
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. 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		BILL NO. 6			
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. 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		CARPENTRY AND JOINERY			
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strips shall be butt jointed at junctions with adjacent similar finish Timber		Decorative laminate finish			
		strips shall be butt jointed at junctions with adjacent			
All softwood to be South African Pine		<u>Timber</u>			
		All softwood to be South African Pine			
Carried Forward R		Carried Forward		R	
Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery		MEDIUM ADMINISTRATION BLOCK Bill No. 6			

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. 6 MEDIUM ADMINISTRATION 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				
6/6/1	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	367		
	Sawn softwood				
6/6/2	38 x 114mm Wall plates	m	92		
	<u>Sundries</u>				
6/6/3	Two coats creosote on sawn timbers	m2	34		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery				

	Brought Forward			R		
	Similar Approved					
	"Everite FC77" Fascia and badge boards					
6/6/4	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					
6/6/5	914 x 2032mm single door	No	11			
6/6/6	1500 x 2400mm double door	No	2			
	WINDOWS					
	Similar Approved					
	"Nutec" fibre cement window cills					
6/6/7	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. 6 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			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	_
	Proprietary suspended ceilings				ı
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations				l
	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				1
	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				ı
	FIBRE - CEMENT BOARDS				ĺ
	Similar Approved				ĺ
	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				
6/7/1	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				ı
	"Rhino" plasterboard cornice				İ
6/7/2	75mm Coved cornice, plugged to brickwork	m	254		İ
					l
					<u> </u>
	Carried Forward			R	İ
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 7				ľ
	Ceilings, Partitions and Access Flooring				ı

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
6/7/3	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		
	CEILING INSULATION				
	<u>Insulation</u>				
6/7/4	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	284		
		1112	204		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 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		R	
	Section No. 6 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				
	<u>Handles</u>				
6/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)				
		Sets	2.0		
6/8/2	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>				
6/8/3	SS Cylinder sash lock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset and 61mm centre (Code: D036S SS)	No	2		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery				

	Brought Forward	1		R	
6/8/4	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	11		
6/8/5	SN 66mm five pin Euro-profile double cylinder master keyed (Code: DDC106601 MK)	No	2		
6/8/6	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	11		
6/8/7	NP Rebate conversion kit for Euro-profile locks D036S, D037D (Code: D038R NP)	No	2		
6/8/8	SC heavy duty 150 x 32mm Barrel bolt (Code: BHD 150)	No	2		
6/8/9	SC heavy duty 150 x 32mm Necked barrel bolt (Code: NBHD 150)	No	2		
6/8/10	SC 150mm Cabin hook (Code: CH 150)	No	4		
	Kick and push plates				
6/8/11	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		
6/8/12	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		
6/8/13	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) Sundries	No	11		
6/8/14	Male / Female fixing screws (Qty 4 per pack)	Sets	11.0		
6/8/15	NP floor mounted Door stop (Code: DDS-NP-018)	No	11		
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery			R	

	Brought Forward		R	
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.			
	<u>Approved</u>			
6/8/16	White magnetic boards 3000mm x 1200mm high with aluminium frame plugged @ 1100mm above floor level on centre of the wall No	5		
	SUNDRIES			
	<u>Approved</u>			
6/8/17	"CZ8730SC" Door stop or similarly approved to wall or floors No	26		
	Carried Forward to Summary of Section No.		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 8			
	Ironmongery			

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. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork			

Brought Forward	F	₹
<u>Actuators</u>		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified		
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.		
<u>Installation</u>		
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.		
Carried Forward	F	
Section No. 6 MEDIUM ADMINISTRATION 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.		
<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. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork		

		Brought Forward		R	
	WELDED SCREENS, GATES, ETC	<u>5.</u>			
	Welded MS gate consisting of 50 x 5 rectangular tubing section frame with mitre at corners, bolted to reveals we rawlbolts and welded with 50 x 50 x to walls, with 50 x 50 x 2.5mm mild stube gate leaf with 45 degree mitre at two 50 x 50 x 2.5mm horizontal sect 12mm mild steel vertical style solid 100mm c/c, including 3x pair of 20m bullet-hinges per gate, with "Solid befour lever lockset with rebate set, including, holes, bolts etc., all complete architect's specifications	th 45 degrees ith 10mm (10M) 5mm mild steel steel rectangular at corners and ions, with 12 x square bars at m diameter lesbok" 460/313 cluding welding,			
6/9/1	Steel gate to door, size 1500mm x 240	0mm high	No 2		
	PRESSED STEEL DOOR FRAMES	<u> </u>			
	1.2mm thick Single rebated frame subrick walls, complete with lugs and red oxide primer factory finish by many	base ties, with			
6/9/2	914 x 2032mm single door	1	No 10		
	1.2mm thick Single rebated frame subrick walls, complete with lugs and red oxide primer factory finish by many	base ties, with			
6/9/3	914 x 2032mm single door	١	No 1		
6/9/4	1500 x 2400mm double door	١	No 2		
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork	Carried Forward		R	

		Brought Forward		R	
	STRONG ROOM DOORS ETC, SU 220MM WALLS FIXED TO BRICKS CONCRETE	ITABLE FOR			
	Similar Approved				
	DS-70mm SABS Category 2 ADM str 190mm thick and steel frame, 813 x including 8 bolts of 40 diameter-4 fro 2x7- lever security keylock, non-deter insulation material, rust proof under painting by contractors, weight- 630	2032mm ont and 4 back, eriorating coat for final			
6/9/5	Door size 813 x 2032mm	N	o 1		
	WINDOWS FRAMES, etc.				
	Standard mild steel school type Top window frame (with brass fittings), vocation opening and fixed sections, considerate mild steel round bars to standard at intersections and all as per architect's specification	vith burglar bars sting of 10mm andard NBP2			
6/9/6	Window size 1022 x 900mm high	N	0 3		
6/9/7	Window size 1022 x 949mm high	N	0 3		
6/9/8	Window size 2000 x 1170mm high	N	0 1		
6/9/9	Window size 533 x 950mm high	N	o 5		
6/9/10	Window size 1511 x 1170mm high	N	o 14		
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork	Carried Forward		R	

	Brought Forward			R	_
	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				
6/9/11	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.				
6/9/12	In Ceiling voids	m2	284		
	FLAG POST				
6/9/13	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. Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork			R	_

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				
6/10/1	30mm Thick on floors and landings	m2	581		
6/10/2	30mm Thick to falls and currents	m2	17		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
6/10/3	On brick walls	m2	692		
6/10/4	On narrow widths	m2	69		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
6/10/5	Aluminium straight edge M-trim suitable for underscreed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 10 Plastering				

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.			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK 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				
6/11/1	Plastered walls	m2	162		
6/11/2	On narrow widths	m2	16		
6/11/3	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				
6/11/4	On floors	m2	408		
6/11/5	75mm high skirting	m	372		
	ATTIC STOCK				
6/11/6	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		
6/11/7	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		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 11 Tiling				

	Brought Forward		R	
	SUNDRIES			
	10mm aluminium straight edge trim			
6/11/8	Dividing strip between tiles and door frames m	9		
	Carried Forward to Summary of Section No.		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK			
	Bill No. 11 Tiling			

Item No		Quantity	Rate	Amount
	SECTION NO. 6			
	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.			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	
	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				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	<u>Gutters</u>				
6/12/1	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		
6/12/2	Extra over eaves gutter for stopped end	No	22		
6/12/3	Extra over eaves gutter for corner	No	48		
6/12/4	Extra over eaves gutter for outlet	No	11		
	Rainwater downpipes				
6/12/5	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	38		
6/12/6	Extra over downpipe for offset	No	22		
6/12/7	Extra over downpipe for shoe	No	11		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage			X	

		Brought Forward		R	
	WASH HAND BASINS				
	Similar Approved				
	Vaal Sanitaryware "Hibiscus" vitreou with three semi-punched holes tap hintegrated overflow, including chain through the centre semi-punched tay with plug and chain, hung to walls (R450.00/no excludes V.A.T. but inclusite), includes waste, supply and fixing	oles, including stay hole o hole, supplied PC allowance of ides delivery to			
6/12/8	WHB, installed complete	No	3		
	WATER CLOSET				
	Similar Approved				
	Vaal Sanitaryware "Daisy" semi-clost closet comprising double flap heavy thermoplastic seat rim pan and materistern complete with lid, fitments at elbow (PC allowance of R2 800.00/nd V.A.T. but includes delivery to site), supply and fixing	duty ching 9 litre nd flush pipe o excludes			
6/12/9	WC, installed complete	No	2		
	SINKS, etc.				
	Stainless steel single bowl sink, size complete on and including integrate legs (PC allowance of R1500.00/no e but includes delivery to site), include and fixing	d supports and xcludes V.A.T.			
6/12/10	Stainless steel sink, complete.	No	1		
	Concrete double wash trough with o pedestals (PC allowance of R780.00/V.A.T. but includes delivery to site), supply and fixing	no excludes			
		Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage	- 5			

	Brought Forward			R	
	TOILET ROLL HOLDER				
	To be approved by Architect				
6/12/11	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				
6/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108-				
	15)	No	3		
6/12/13	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	1		
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
6/12/14	9kg dry chemical powder fire extinguisher	No	4		
6/12/15	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2		
	TESTING				
6/12/16	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
6/12/17	Allow an amount of R72 500.00 (Seventy Two Thousand Five Hundred) for the supply and installation of Sanitary Fitting Sundries		Item		72 500.00
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 12				
	Plumbing and Drainage				

Item No			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				
6/13/1	Panes not exceeding 0.1m2	m2	33		
	6mm obscure floated glass fixed glazing putty				
6/13/2	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				
6/13/3	Mirror 400 x 600 mm high	No	3		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK 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				
6/14/1	On internal ceilings and cornices	m2	305		
6/14/2	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				
6/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	32		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK 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				
6/14/4	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				
6/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	29		
6/14/6	On window frames	m2	35		
6/14/7	On door frames	m2	34		
6/14/8	On gutters	m	94		
6/14/9	On downpipes	m	39		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
6/14/10	On door	m2	76		
	Prepare and paint three coats clear varnish:				
6/14/11	On door	m2	27		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 14 Paintwork				
			I		

	SECTION SUMMARY			
Bill No		Page No		Amount
6/1	Earthworks	6/3		
6/2	Concrete, Formwork and Reinforcement	6/7		
6/3	Masonry	6/11		
6/4	Waterproofing	6/12		
6/5	Roof Coverings	6/14		
6/6	Carpentry and Joinery	6/18		
6/7	Ceilings, Partitions and Access Flooring	6/21		
6/8	Ironmongery	6/25		
6/9	Metalwork	6/31		
6/10	Plastering	6/32		
6/11	Tiling	6/35		
6/12	Plumbing and Drainage	6/39		
6/13	Glazing	6/40		
6/14	Paintwork	6/42		
	Carried to Final Summary		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK			

Item No		Quantity	Rate	Amount
	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.			
	<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			
	Excavations measured in successive depths of 2m.			
	Carried Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	—
	SITE CLEARANCE ETC				
	Site clearance				
7/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	549		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
7/1/2	Trenches	m3	141		
	Extra over excavations in earth to trenches and holes for				
7/1/3	Excavation in soft rock	m3	14		
7/1/4	Excavation in hard rock	m3	7		
	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.				
7/1/5	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	80		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
7/1/6	Trenches and holes	m2	441		
	KEEPING EXCAVATIONS FREE FROM WATER				
7/1/7	Keeping excavations free of all water other than subterranean water		Item		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	T
	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				
7/1/8	Backfilling to trenches, holes, etc	m3	68		
7/1/9	Under floors, steps, pavings, etc	m3	265		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
7/1/10	Backfilling to trenches, holes, etc	m3	21		
7/1/11	Under floors, steps, pavings, etc	m3	58		
	Filling supplied by the Contractor under floors, trenches, etc.				
7/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	58		
	COMPACTION OF SURFACES				
7/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	496		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
7/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	496		
7/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	582		
					+
	Carried Forward to Summary of Section No. Section No. 7			R	+
	3 CLASSROOM GRADE R BLOCK Bill No. 1 Earthworks				
	Laidiworks				

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.			
	Carried Forward Section No. 7		R	
	3 CLASSROOM GRADE R BLOCK Bill No. 2			
	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 		
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.		
Carried Forward	R	
Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 2		
Concrete, Formwork and Reinforcement		

	Brought Forwa	rd		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				
7/2/1	Blinding	m3	7		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
7/2/2	Strip footings	m3	35		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
7/2/3	Concrete Apron cast to fall etc,	m3	11		
	25MPa/19mm Concrete				
7/2/4	Surface beds cast in panels	m3	50		
	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)				
7/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	47		
	Carried Forwa	rd		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK				
	Bill No. 2 Concrete, Formwork and Reinforcement				
		l			

	Brought Forward			R	_
	SUNDRIES TO CONCRETE				
	Surface treatment				
7/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	496		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
7/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	215		
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
7/2/8	3 x 30mm In saw cut joints in floors	m	51		
	Expansion joints				
7/2/9	10mm soft board or similar approved between concrete and brick wall	m	107		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
7/2/10	All diameter bars	t	3		
	Fabric reinforcement:				
7/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	388		
	Carried Forward to Summary of Section No.			R	
	Section No. 7				=
	3 CLASSROOM GRADE R BLOCK Bill No. 2 Concrete, Formwork and Reinforcement				
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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. 7 3 CLASSROOM GRADE R BLOCK 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				
7/3/1	One brick wall	m2	165		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
7/3/2	One brick wall	m2	490		
7/3/3	Half brick wall	m2	97		
7/3/4	Half brick wall, in beamfilling	m2	17		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
7/3/5	360 x 230mm Brick Piers	m3	4		
7/3/6	330 x 330mm Brick Piers	m3	6		
	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				
7/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	331		
	Carried Forward Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 3 Masonry			R	

	Brought Forward			R	Г
7/3/8	Extra over brickwork for face brickwork in superstructure	m2	323		
7/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	36		
7/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	30		
7/3/11	Extra over brickwork for face brickwork to piers	m2	120		
7/3/12	Extra over brickwork for face brickwork in beamfilling	m2	17		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
7/3/13	75mm Wide reinforcement built in horizontally	m	285		
7/3/14	150mm Wide reinforcement built in horizontally.	m	2 463		
	"Allied concrete" or similar approved prestressed fabricated lintels				
7/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	40		
7/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	29		
	Turning pieces				
7/3/17	110mm Wide turning piece to flat brick lintels	m	51		
	Air bricks etc				
7/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	8		
	Fair cutting to face brickwork				
7/3/19	Fair raking cutting at gables	m	116		
	Roof ties				
7/3/20	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	96		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 3 Masonry				

	Brought Forward		R	
	MOVEMENTS JOINTS ETC,			
	Expansion joints			
7/3/21	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	23		
	_			
	Carried Forward to Summary of Section No.		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK			
	Bill No. 3 Masonry			
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Item 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				
7/4/1	Under walls	m2	4		
7/4/2	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				
7/4/3	Under surface beds.	m2	496		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
7/4/4	3 x 30mm In saw cut joints in floors	m	51		
7/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	107		
	Carried Forward to Summary of Section No. Section No. 7			R	
	3 CLASSROOM GRADE R BLOCK Bill No. 4 Waterproofing				

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			
	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			
7/5/1	Roof sheeting pitch not exceeding 25 degrees n	12 549		
7/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m 41		
7/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m 31		
	Carried Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 5 Roof Coverings			

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
7/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	549		
	Carried Forward to Summary of Section No.		R	
	Section No. 7 3 CLASSROOM GRADE R 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			
	Carried Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK 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. 7 3 CLASSROOM GRADE R 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				
7/6/1	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	458		
	Sawn softwood				
7/6/2	38 x 114mm Wall plates	m	115		
	<u>Sundries</u>				
7/6/3	Two coats creosote on sawn timbers	m2	42		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	
	"Everite FC77" Fascia and badge boards				
7/6/4	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	116		
7/6/5	15 x 80 x 300mm fibre cement barge board	m	116		
	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				
7/6/6	813 x 2032mm single door	No	6		
7/6/7	914 x 2032mm single door	No	19		
	WINDOWS				
	"Nutec" fibre cement window cills				
7/6/8	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	30		
	Carried Forward to Summary of Section No. Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 6 Carpentry and Joinery			R	

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			
	Carried Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK 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				
7/7/1	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	317		
	CORNICES				
	Similar Approved				
	"Rhino" plasterboard cornice				
7/7/2	75mm Coved cornice, plugged to brickwork	m	340		
				_	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 7			R	
	Ceilings, Partitions and Access Flooring				

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
7/7/3	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	3		
	CEILING INSULATION				
	<u>Insulation</u>				
7/7/4	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	317		
		1112	017		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R 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		R	
	Section No. 7 3 CLASSROOM GRADE R 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>				
7/8/1	SS 325 x 25mm straight tubular pull handle with flange fixing (Code: DPH301B)	No	6		
7/8/2	SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170)	No	6		
7/8/3	SS Pull handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 6 countersunk holes for screw fixing (Code: DHP-430-BL 150X300)	No	9		
	<u>Locks</u>				
7/8/4	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	9		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 8 Ironmongery				

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	Brought Forward			R	
7/8/5	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	9		
7/8/6	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	15		
7/8/7	SC 150mm Cabin hook (Code: CH 150)	No	6		
7/8/8	SS disabled WC indicator (red and white) and turnknob for the physically impaired (Code: DWC-006)	Sets	3.0		
7/8/9	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	6.0		
	Kick and push plates				
7/8/10	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	48		
7/8/11	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	6		
7/8/12	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	9		
	Signage				
7/8/13	SS 150 x 150mm "DISABLED PERSONS" sign (Code: DSS-133 P)	No	3		
	Panic hardware				
7/8/14	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	6.0		
7/8/15	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	6		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 8 Ironmongery				
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	Brought Forward			R	
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	Door closers				
7/8/16	EN 2-4 parallel arm delayed action door closer, with push side fixing (parallel arm bracket included) EN 2 750-850, EN3 850-950, EN4 950-1100 (Colour: Silver) (Code: TS73V PA DC + parallel arm bracket)	No	3		
7/8/17	Non hold open cam action slide channel door closer for 950mm maximum door width, with closing force EN 3, with hydraulic speed control, with pull-side door leaf fixing (standard) and push-side transom fixing (Colour: Silver) (Code: TS91B)	No	9		
	<u>Sundries</u>				
7/8/18	Male / Female fixing screws (Qty 4 per pack)	Sets	15.0		
7/8/19	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	6		
7/8/20	NP floor mounted Door stop (Code: DDS-NP-018)	No	12		
	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				
7/8/21	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	3		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray				
7/8/22	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	6		
	SUNDRIES				
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 8 Ironmongery				

	Brought Forward		R	
	<u>Approved</u>			
7/8/23	"CZ8730SC" Door stop or similarly approved to wall or floors No	26		
	Carried Forward to Summary of Section No.		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK			<u> </u>
	Bill No. 8 Ironmongery			

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. 7 3 CLASSROOM GRADE R BLOCK Bill No. 9 Metalwork			

Brought Forv	vard R	R
Actuators		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified	e	
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 suppa statement concerning protection that will be provide 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 pri	d	
<u>Installation</u>		
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.	d	
Allow for water and weather proof polysulphide sealar to approved specifications all around frame junctions 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 drawing showing basic system sections for the Architect's approval.	gs	
Carried Forv	ward R	
Section No. 7 3 CLASSROOM GRADE R 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.		
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. 7 3 CLASSROOM GRADE R BLOCK Bill No. 9 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				
7/9/1	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				
7/9/2	813 x 2032mm single door	No	6		
7/9/3	914 x 2032mm single door	No	9		
	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				
7/9/4	914 x 2032mm single door	No	10		
	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				
7/9/5	Window size 881 x 1240mm high	No	18		
7/9/6	Window size 881 x 820mm high	No	12		
7/9/7	Window size 534 x 648mm high	No	6		
	Carried Forward to Summary of Section No. Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 9 Metalwork			R	

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				
7/10/1	30mm Thick on floors and landings	m2	260		
7/10/2	30mm Thick to falls and currents	m2	10		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
7/10/3	On brick walls	m2	744		
7/10/4	On narrow widths	m2	74		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
7/10/5	Aluminium straight edge M-trim suitable for underscreed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	150		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 10 Plastering				

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.			
	Carried Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK 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				
7/11/1	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				
7/11/2	On floors	m2	270		
7/11/3	75mm high skirting	m	234		
	ATTIC STOCK				
7/11/4	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	27		
	SUNDRIES				
	10mm aluminium straight edge trim				
7/11/5	Dividing strip between tiles and door frames	m	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 11 Tiling				

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. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	
	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				
	<u>Gutters</u>				
7/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	116		
7/12/2	Extra over eaves gutter for stopped end	No	12		
7/12/3	Extra over eaves gutter for corner	No	50		
7/12/4	Extra over eaves gutter for outlet	No	12		
	Rainwater downpipes				
7/12/5	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		
7/12/6	Extra over downpipe for offset	No	24		
7/12/7	Extra over downpipe for shoe	No	12		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Drainage				

Brought Fo	orward		R	
WASH HAND BASINS				
with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supposite plug and chain, hung to walls (PC allowance)	ding olied ce of			
WHB, installed complete	No	6		
WATER CLOSET				
closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pip elbow (PC allowance of R2 800.00/no excludes	<u>e</u>			
WC, installed complete	No	3		
coupled water closet, comprising double flap he duty thermoplastic seat rim pan and matching 9 cisten, including dog leg twice bent 45 degrees straight cistern back grab rail, including purpos made chromium plated side-flush lever. (PC allowance of R9 300.00/no excludes V.A.T. but	eavy O litre and e			
Paraplegic WC, installed complete	No	3		
complete on and including integrated supports legs (PC allowance of R1500.00/no excludes V.A.	and A.T.			
Stainless steel Sink, complete.	No	3		
Carried Fo Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Drainage	orward		R	
	Wash Hand Basins Vaal Sanitaryware "Hibiscus" vitreous china bat with three semi-punched holes tap holes, includintegrated overflow, including chain stay hole through the centre semi-punched tap hole, supply with plug and chain, hung to walls (PC allowand R450.00/no excludes V.A.T. but includes deliver site), includes waste, supply and fixing WHB, installed complete WATER CLOSET Vaal Sanitaryware "Daisy" semi-close coupled to closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pip elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes we supply and fixing WC, installed complete Vaal Sanitaryware "Pearl Paraplegic" semi-close coupled water closet, comprising double flap he duty thermoplastic seat rim pan and matching 9 cisten, including dog leg twice bent 45 degrees straight cistern back grab rail, including purpos made chromium plated side-flush lever. (PC allowance of R9 300.00/no excludes V.A.T. but includes delivery to site), includes waste, suppl and fixing Paraplegic WC, installed complete SINKS, etc. Stainless steel single bowl sink, size 1350 x 457 complete on and including integrated supports legs (PC allowance of R1500.00/no excludes V.A. but includes delivery to site), includes waste, stand fixing Stainless steel Sink, complete.	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 WHB, installed complete No WATER CLOSET 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 WC, installed complete No Vaal Sanitaryware "Pearl Paraplegic" semi-close coupled water closet, comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cisten, including dog leg twice bent 45 degrees and straight cistern back grab rail, including purpose made chromium plated side-flush lever. (PC allowance of R9 300.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing Paraplegic WC, installed complete No 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 Stainless steel Sink, complete. No Carried Forward Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12	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 WHB, installed complete No No MATER CLOSET 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 WC, installed complete No Vaal Sanitaryware "Pearl Paraplegic" semi-close coupled water closet, comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cisten, including dog leq twice bent 45 degrees and straight cistern back grab rail, including purpose made chromium plated side-flush lever. (PC allowance of R3 300.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing Paraplegic WC, installed complete No 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 Stainless steel Sink, complete. No SINKS, etc. Stainless steel Sink, complete. No 3 Carried Forward Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12	WASH HAND BASINS 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 WHB, installed complete No 6 WATER CLOSET 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 WC, installed complete No 3 Vaal Sanitaryware "Pearl Paraplegic" semi-close coupled water closet, comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cisten, including dog leg twice bent 45 degrees and straight cistern back grab rail, including purpose made chromium plated side-flush lever. (PC allowance of R3 300,00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing Paraplegic WC, installed complete No 3 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 Stainless steel Sink, complete. No 3 Carried Forward R Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12

	Brought Forward	t		R	
	CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)				
7/12/12	32mm Basin waste union	No	6		
7/12/13	38mm Sink waste union	No	3		
	TOILET ROLL HOLDER				
	To be approved by Architect				
7/12/14	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	3		
	SOAP DISPENSER				
	To be approved by Architect				
7/12/15	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	4		
	PAPER TOWEL DISPENSER				
	To be approved by Architect				
7/12/16	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	4		
	TAPS, VALVES, ETC				
	Similar Approved				
7/12/17	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	3		
7/12/18	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	3		
	Carried Forward	4		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward			R		
	FIRE FIGHTING EQUIPMENT					
	Extinguishers including initial charge and setting up in position:					
7/12/19	9kg dry chemical powder fire extinguisher	No	3			
7/12/20	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	3			
	TESTING					
7/12/21	Testing water pipe system		Item			
	BUDGETARY ALLOWANCE					
7/12/22	Allow an amount of R170 000.00 (One Hundred and Seventy Thousand) for the supply and installation of Sanitary Fitting Sundries		Item		255 000.	00
	Carried Forward to Summary of Section No.			R		
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Drainage					

Item No		Q	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				
7/13/1	Panes not exceeding 0.1m2	m2	28		
	6mm obscure floated glass fixed glazing putty				
7/13/2	Panes not exceeding 0.1m2	m2	2		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
7/13/3	Mirror 400 x 600 mm high	No	3		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 13 Glazing				

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	<u>PAINTWORK</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.				
	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				
7/14/1	On internal ceilings and cornices	m2	345		
7/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	232		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
7/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	30		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 14 Paintwork				

	Brought Forward			R	
	FLOATED PLASTER INTERNAL WALLS			ľ	
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
7/14/4	Plastered walls	m2	744		
	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				
7/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	28		
7/14/6	On window frames	m2	30		
7/14/7	On door frames	m2	32		
7/14/8	On gutters	m	116		
7/14/9	On downpipes	m	43		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
7/14/10	On door	m2	60		
	Prepare and paint three coats clear varnish:				
7/14/11	On door	m2	25		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 14				
	Paintwork				

	SECTION SUMMARY			
Bill No		Page No		Amount
7/1	Earthworks	7/3		
7/2	Concrete, Formwork and Reinforcement	7/7		
7/3	Masonry	7/11		
7/4	Waterproofing	7/12		
7/5	Roof Coverings	7/14		
7/6	Carpentry and Joinery	7/18		
7/7	Ceilings, Partitions and Access Flooring	7/21		
7/8	Ironmongery	7/26		
7/9	Metalwork	7/30		
7/10	Plastering	7/31		
7/11	Tiling	7/33		
7/12	Plumbing and Drainage	7/38		
7/13	Glazing	7/39		
7/14	Paintwork	7/41		
	Carried to Final Summary		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK			

Item No		Quantity	Rate	Amount
	SECTION NO. 8			
	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. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 1 Earthworks			

	Brought Forward			R	
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
8/1/1	Trenches	m3	37		
	Extra over excavations in earth to trenches and holes for				
8/1/2	Excavation in soft rock	m3	4		
8/1/3	Excavation in hard rock	m3	2		
	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.				
8/1/4	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	22		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
8/1/5	Trenches and holes	m2	126		
	KEEPING EXCAVATIONS FREE FROM WATER				
8/1/6	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				
8/1/7	Backfilling to trenches, holes, etc	m3	17		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 1 Earthworks				

	Brought Forward			R	
8/1/8	Under floors, steps, pavings, etc	m3	40		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
8/1/9	Backfilling to trenches, holes, etc	m3	5		
8/1/10	Under floors, steps, pavings, etc	m3	7		
	Filling supplied by the Contractor under floors, trenches, etc.				
8/1/11	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	7		
	COMPACTION OF SURFACES				
8/1/12	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	88		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
8/1/13	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	88		
8/1/14	To bottom and sides of excavated trenches, Holes, etc.	m2	162		
	Carried Forward to Summary of Section No. Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 1 Earthworks			R	

em lo		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.			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 2 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 		
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.		
Carried Forward	R	
Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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				
8/2/1	Blinding	m3	2		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
8/2/2	Strip footings	m3	9		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
8/2/3	Concrete Apron cast to fall etc,	m3	4		
	25MPa/19mm Concrete				
8/2/4	Surface beds cast in panels	m3	6		
	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)				
8/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	10		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 2 Concrete, Formwork and Reinforcement				
	Consisted, Formion and Normoroomon				

	Brought Forward			R	_
	SUNDRIES TO CONCRETE				ĺ
	Surface treatment				ĺ
8/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	88		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				l
8/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	89		
	Rough formwork to soffits				l
	MOVEMENTS JOINTS ETC,				ĺ
	Expansion joints				ĺ
8/2/8	10mm soft board or similar approved between concrete and brick wall	m	45		
	REINFORCEMENT (PROVISIONAL)				1
	High and mild tensile steel reinforcement to structural concrete work				Ī
8/2/9	All diameter bars	t	1		l
	Fabric reinforcement:				ĺ
8/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	44		
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	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2				
	Bill No. 2 Concrete, Formwork and Reinforcement				ı

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. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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				
8/3/1	One brick wall	m2	47		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
8/3/2	One brick wall	m2	149		
8/3/3	Half brick wall	m2	45		
8/3/4	Half brick wall, in beamfilling	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				
8/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	94		
8/3/6	Extra over brickwork for face brickwork in superstructure	m2	127		
8/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	8		
	Comind Former				<u> </u>
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 3 Masonry			R	

Brought Forward			R		
Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	8			
Extra over brickwork for face brickwork in beamfilling	m2	7			
BRICKWORK SUNDRIES					
Brickwork reinforcement					
75mm Wide reinforcement built in horizontally	m	131			
150mm Wide reinforcement built in horizontally.	m	715			
"Allied concrete" or similar approved prestressed fabricated lintels					
100 x 70mm Lintels in lengths not exceeding 3m	m	11			
175 x 70mm Lintels in lengths not exceeding 3m	m	10			
<u>Turning pieces</u>					
110mm Wide turning piece to flat brick lintels	m	15			
Air bricks etc					
Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4			
Fair cutting to face brickwork					
Fair raking cutting at gables	m	46			
Roof ties					
30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	37			
MOVEMENTS JOINTS ETC,					
Expansion joints					
30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	8			
Carried Forward to Summary of Section No.			D		\vdash
Section No. 8			K		<u> </u>
4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 3 Masonry					
	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped Extra over brickwork for face brickwork in beamfilling BRICKWORK SUNDRIES Brickwork reinforcement 75mm Wide reinforcement built in horizontally 150mm Wide reinforcement built in horizontally. "Allied concrete" or similar approved prestressed fabricated lintels 100 x 70mm Lintels in lengths not exceeding 3m 175 x 70mm Lintels in lengths not exceeding 3m Turning pieces 110mm Wide turning piece to flat brick lintels Air bricks etc Set of 2 240 x 155mm Terracota air bricks as per architects specification Fair cutting to face brickwork Fair raking cutting at gables Roof ties 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses MOVEMENTS JOINTS ETC, Expansion joints 30mm softboard between vertical brick surfaces not exceeding 300mm wide Carried Forward to Summary of Section No. Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 3	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped Extra over brickwork for face brickwork in beamfilling Extra over brickwork for face brickwork in beamfilling Extra over brickwork for face brickwork in beamfilling m2 BRICKWORK SUNDRIES Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 150mm Wide reinforcement built in horizontally m *Allied concrete* or similar approved prestressed fabricated lintels 100 x 70mm Lintels in lengths not exceeding 3m m Turning pieces 110mm Wide turning piece to flat brick lintels Mir bricks etc Set of 2 240 x 155mm Terracota air bricks as per architects specification No Fair cutting to face brickwork Fair raking cutting at gables m Roof ties 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses MOVEMENTS JOINTS ETC. Expansion joints 30mm softboard between vertical brick surfaces not exceeding 300mm wide m2 Carried Forward to Summary of Section No. Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 3	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped Extra over brickwork for face brickwork in beamfilling m2 7 BRICKWORK SUNDRIES Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 131 150mm Wide reinforcement built in horizontally m 715 "Allied concrete" or similar approved prestressed fabricated lintels 100 x 70mm Lintels in lengths not exceeding 3m m 10 Turning pieces 110mm Wide turning piece to flat brick lintels m 15 Air bricks etc Set of 2 240 x 155mm Terracota air bricks as per architects specification No 4 Fair cutting to face brickwork Fair raking cutting at gables m 46 Roof ties 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses No 37 MOVEMENTS JOINTS ETC, Expansion joints 30mm softboard between vertical brick surfaces not exceeding 300mm wide m2 8 Carried Forward to Summary of Section No. Section No. 8 4 SEATS WATERBORNE TOILET BLOCK x 2 Billi No. 3	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped more sills, bedded in mortar and set slightly sloped more sills, bedded in mortar and set slightly sloped more sills, bedded in mortar and set slightly sloped more sills, bedded in mortar and set slightly more sills, bedded in mortar and set slightly more sills, and set slightly sloped more sills, bedded in mortar and set slightly more sills, and set slightly sloped more sills, bedded in mortar and set slightly more sills, and set slightly sloped more sills, and set slightly sloped more sills, and set slightly sloped more sills, slope	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped Extra over brickwork for face brickwork in beamfilling m2 7 BRICKWORK SUNDRIES Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 131 150mm Wide reinforcement built in horizontally. m 715 "Allied concrete" or similar approved prestressed fabricated lintols 100 x 70mm Lintels in lengths not exceeding 3m m 11 175 x 70mm Lintels in lengths not exceeding 3m m 10 Turning pieces 110mm Wide turning piece to flat brick lintels m 15 Air bricks etc Set of 2 240 x 155mm Terracota air bricks as per architects specification No 4 Fair cutting to face brickwork Fair raking cutting at gables m 46 Roof ties AO x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses No 37 MOVEMENTS JOINTS ETC. Expansion joints 30mm softboard between vertical brick surfaces not exceeding 300mm wide m 2 8 Carried Forward to Summary of Section No. R Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 3

Item No		Q	uantity	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				
8/4/1	Under walls	m2	1		
8/4/2	Under cills, etc.	m2	2		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
8/4/3	Under surface beds.	m2	88		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
8/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	45		
	Carried Forward to Summary of Section No. Section No. 8			R	
	4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 4 Waterproofing				

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				
8/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	74		
8/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	11		
8/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	20		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 5 Roof Coverings				

	Brought Forward			R	_
	LOUVRES				
	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				
8/5/4	Steel triangular louvre, 1600 x 600mm high overall	No	4		
	ROOF AND WALL INSULATION				
	Similar Approved				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
8/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	74		
					_
	Carried Forward to Summary of Section No.			R	_
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill 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.			
	<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.			
	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			
	<u>Timber</u>			
	All softwood to be South African Pine			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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.		
ROOFS, ETC		
Carried Forward	R	
Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2		
Bill No. 6		

	Brought Forward			R	
	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				
8/6/1	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	62		
	Sawn softwood				
8/6/2	38 x 114mm Wall plates	m	44		
	Sundries				
8/6/3	Two coats creosote on sawn timbers	m2	16		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 6				
	Carpentry and Joinery				

	Brought Forward			R	
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
8/6/4	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	46		
8/6/5	15 x 80 x 300mm fibre cement barge board	m	46		
	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				
8/6/6	813 x 2023mm single door	No	8		
8/6/7	914 x 2032mm single door	No	4		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
8/6/8	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	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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				
8/7/1	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	29		
	CORNICES				
	"Rhino" plasterboard cornice				
8/7/2	75mm Coved cornice, plugged to brickwork	m	31		
				_	
	Carried Forward Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2			R	
	Bill No. 7 Ceilings, Partitions and Access Flooring				
	Services and Acceptable Files				

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
8/7/3	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		
	CEILING INSULATION				
	Insulation				
8/7/4	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	29		
			20		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2				
	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		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 8 Ironmongery		K	

	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				
8/8/1	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	8		
	<u>Locks</u>				
8/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	8		
8/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	4		
8/8/4	SC 150mm Cabin hook (Code: CH 150)	No	4		
8/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	8.0		
	Carried Forward			R	_ _
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 8 Ironmongery				

	Brought Forward			R	_
	Kick and push plates				
8/8/6	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	24		
8/8/7	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	8		
	Panic hardware				
8/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	4.0		
8/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	4		
	<u>Sundries</u>				
8/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	8.0		
8/8/11	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	8		
	SUNDRIES				
	Approved				
8/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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.			
	ALUMINIUM			
	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.			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 9 Metalwork			

Brought Forwar	d R	
Actuators		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified		
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.		
<u>Installation</u>		
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.		
Carried Forwar	d R	
Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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.		
<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. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 9		
Metalwork		

	Brought Forward			R	
	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				
8/9/1	813 x 2032mm single door	No	8		
	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				
8/9/2	914 x 2032mm single door	No	4		
	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				
8/9/3	Window size 1022 x 949mm high	No	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 9 Metalwork				

mount		Rate	Quantity			Item No
					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.	
					<u>SCREEDS</u>	
					1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel	
			67	m2	30mm Thick on floors and landings	8/10/1
			7	m2	30mm Thick to falls and currents	8/10/2
					INTERNAL PLASTER	
					One coat smooth 1:5 cement sand plaster on brickwork to receive finish	
			231	m2	On brick walls	8/10/3
			23	m2	On narrow widths	8/10/4
	` <u> </u>	R			Carried Forward to Summary of Section No.	
					4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 10	
	1	R			Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2	

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.			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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				
8/11/1	Plastered walls	m2	123		
8/11/2	On narrow widths	m2	12		
8/11/3	Splash backs	m2	3		
	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				
8/11/4	On floors	m2	73		
8/11/5	75mm high skirting	m	161		
	ATTIC STOCK				
8/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	12		
8/11/7	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	7		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 11 Tiling				

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. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 12 Plumbing and Drainage			

	Brought Forward			R		_
	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>					
8/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	46			
8/12/2	Extra over eaves gutter for stopped end	No	16			
8/12/3	Extra over eaves gutter for corner	No	35			
8/12/4	Extra over eaves gutter for outlet	No	8			
	Rainwater downpipes					
8/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	28			
8/12/6	Extra over downpipe for offset	No	16			
8/12/7	Extra over downpipe for shoe	No	8			
	SANITARY FITTINGS					
	Refer to sanitary schedule drawing for full description of abbreviations					
	Carried Forward			R		
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 12 Plumbing and Drainage					
			l		l	

	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				
8/12/8	WHB, installed complete	No	8		
	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				
8/12/9	WC, installed complete	No	8		
	TOILET ROLL HOLDER				
	To be approved by Architect				
8/12/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	8		
	SOAP DISPENSER				
	To be approved by Architect				
8/12/11	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	3		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	
	PAPER TOWEL DISPENSER				
	To be approved by Architect				
8/12/12	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				
8/12/13	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	8		
	TESTING				
8/12/14	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
8/12/15	Allow an amount of R107 380.80 (One Hundred and Seven Thousand Three Hundred and Eighty and Eighty) for the supply and installation of Sanitary Fitting Sundries		Item		107 380 80
	Carried Forward to Summary of Section No. Section No. 8			R	
	4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 12 Plumbing 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				
	5mm clear floated glass fixed glazing putty				
8/13/1	Panes not exceeding 0.1m2	m2	8		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
8/13/2	Mirror 400 x 600 mm high	No	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 13				

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				
8/14/1	On internal ceilings and cornices	m2	32		
8/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	93		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
8/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	8		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 14				
	Paintwork				

	Brought Forward			R		<u> </u>
	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					
8/14/4	Plastered walls	m2	231			
	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					
8/14/5	On window frames	m2	8			
8/14/6	On door frames	m2	10			
8/14/7	On gutters	m	46			
8/14/8	On downpipes	m	28			
	WOOD					
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect					
8/14/9	On door	m2	30			
	Carried Forward to Summary of Section No. Section No. 8			R		—
	4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 14 Paintwork					
			I	II	I	

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

Item No		Quantity	Rate	Amount
	SECTION NO. 9			
	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			
	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 necessary multiple handling of material			
	Carried Forward Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 1 Demolitions and Alterations		R	

Brought Forward	R	
<u>Testing</u>		
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D		
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		
Services		
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.		
Dust and noise		
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		
Carried Forward	R	
Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 1		
Demolitions and Alterations		

Brought Forward	R	
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.		
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		
Carried Forward	R	
Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO		

	Brought Forward			R	—
	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.				
	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				
9/1/1	Single storey brick and mortar classroom block with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses, including wash hand basins & WC porcelain close couple and with plumbing complete.	m2	668		
9/1/2	Single storey brick and mortar ablution 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	115		
	Breaking up/demolishing and removal of walls, slabs, surface beds etc				
9/1/3	100mm thick concrete aprons	m2	258		
9/1/4	25mm thick concrete screed	m2	95		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 1 Demolitions and Alterations				

	Brought Forward			R	
	Taking out and removing glass and mirrors				
9/1/5	Glass from steel windows including cleaning out rebates and preparing to receive new glass	m2	148		
	Taking up and removing floor coverings carpeting, tiles etc				
9/1/6	Vinyl tile floor covering including preparing screed for new tile flooring	m2	633		
	Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)				
9/1/7	813mm x 2032mm high timber door including ironmongery etc.	No	48		
	Taking out and removing ironmongery				
9/1/8	Remove pinning board and make good wall finishes	No	24		
9/1/9	Remove green chalk board and make good wall finishes	No	12		
9/1/10	Remove brass sliding stays, peg stay, handles window ironmongery	No	288		
	Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
9/1/11	Remove wash trough including all fittings and make good wall and floor finishes	No	12		
9/1/12	Remove water closet with cistern and make good wall and floor finishes	No	24		
9/1/13	Remove wash hand basin and make good wall finishes	No	12		
	Taking out and removing sundry joinery work				
9/1/14	Timber skirting from brickwork	m	349		
	Taking out and removing metalwork				
9/1/15	Security gate including framing bolted to brickwork and making good mortar joints between face brickwork	No	24		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 1 Demolitions and Alterations				

					ı
aking out and removing roof coverings, roof ccessories and rainwater disposal fittings					
emove roof sheeting, roof accessories, timber roof tructure, ceilings etc.	m2	1 019			
emove steel gutters, keeping barge boards intact	m	33			
emove fascia board	m	143			
epairing cracks					
n plastered brick walls	m2	42			
IAKING GOOD OF FINISHES ETC					
laking good plaster					
/all plaster in patches	m2	30			
ace bricks					
lean and treat face bricks with approved oxidation reventative solution	m2	1 153			
EPAIR/MAINTAIN OF EXISTING WORK					
nviro-loos					
lean Enviro-loo septic tank and replace ventilation ystem		ltem			
Carried Forward to Summary of Section No.			P		
ection No. 9			K		
ENOVATIONS (12 CLASSROOMS AND 24 WATERBO ill No. 1 emolitions and Alterations					
erre e e e e e e e e e e e e e e e e e	comove roof sheeting, roof accessories, timber roof sucture, ceilings etc. Amove steel gutters, keeping barge boards intact remove fascia board Apairing cracks In plastered brick walls AKING GOOD OF FINISHES ETC Aking good plaster all plaster in patches Ce bricks Bean and treat face bricks with approved oxidation eventative solution EPAIR/MAINTAIN OF EXISTING WORK Inviro-loos Bean Enviro-loo septic tank and replace ventilation stem Carried Forward to Summary of Section No. Cition No. 9 ENOVATIONS (12 CLASSROOMS AND 24 WATERBO INC. 1)	carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Cotion No. 9 ENOVATIONS (12 CLASSROOMS AND 24 WATERBO INC. 11 m.) Management of March 1 m. 12	emove roof sheeting, roof accessories, timber roof ucture, ceilings etc. m2 1 019 emove steel gutters, keeping barge boards intact m 33 emove fascia board m 143 emove fas	carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Carried Forward to Summary of Section No. Cition No. 9 NOVATIONS (12 CLASSROOMS AND 24 WATERBO) No. 1 1019 1 1	commove roof sheeting, roof accessories, timber roof ucture, ceilings etc. move steel gutters, keeping barge boards intact move steel gutters, keeping barge boards intact mover fascia board mover fascia

Item No		C	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.				
	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				
	EXCAVATION OTHER THAN BULK, ETC				
	Excavation in earth not exceeding 2m deep				
9/2/1	Trenches	m3	34		
9/2/2	Holes	m3	38		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 2 Earthworks				

	Brought Forward			R	
	Extra over trench and hole excavations in earth for				
0/0/0	excavation in	0	- ,		
9/2/3	Soft rock	m3	7		
9/2/4	Hard rock	m3	4		
	Extra over all excavations for carting away				
9/2/5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	71		
	Risk of collapse of excavations				
9/2/6	Sides of trench excavations not exceeding 1.5m deep	m2	96		
	Keeping excavations free of water				
9/2/7	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				
9/2/8	Under floors, steps, pavings, etc	m3	11		
	Selected (G5) layer earth filling supplied by the contractor, compacted in 150mm thick layers, compacted to 93% Mod AASHTO density				
9/2/9	Under floors, steps, pavings, etc	m3	20		
	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				
9/2/10	Under floors, steps, paving, etc	m2	368		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 2 Earthworks				

	Brought Forward		R	
	WEED KILLERS, INSECTICIDES, TERMITES, etc.			
	Protection against termites, ants, etc			
9/2/11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	2 368		
9/2/12	Weedkiller: To bottoms and sides of trenches etc.	164		
	Carried Forward to Summary of Section No.		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 2 Earthworks			

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	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.			
	Carried Forward Section No. 9		R	
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 3 Concrete, Formwork and Reinforcement			

- Brounnt Forward	DII	
Formwork to soffits of solid slabs, etc. shall be deemed	R	
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		
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.		
Carried Forward	R	
Section No. 9		

	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				
9/3/1	15 MPa unreinforced exc surfaces: Blinding	m3	5		
	20MPa/19mm concrete				
9/3/2	Footings	m3	37		
9/3/3	Concrete apron, cast to falls	m3	26		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm Concrete				
9/3/4	Ramps	m3	22		
	30MPa/19mm concrete				
9/3/5	Surface beds	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)				
9/3/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	35		
	·				
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 3 Concrete, Formwork and Reinforcement				
	Consiste, Forthwork and Remotosment				

	Brought Forward			R	$\overline{\mathbf{I}}$
	SUNDRIES TO CONCRETE				
	Surface treatment				
9/3/7	Power float top surface of concrete surface bed to a true and even level finish	m2	345		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
9/3/8	Sloping sides of ramps not exceeding 600mm high extreme	m2	58		
9/3/9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	258		
	EXPANSION JOINTS				
	Similar Approved				
	Expansion joints with 10mm polystyrene between vertical concrete surfaces				
9/3/10	Not exceeding 300mm high to edges of slabs	m	258		
	REINFORCEMENT				
	High tensile steel reinforcement				
9/3/11	All diameter bars	t	0.33		
	Fabric reinforcement				
9/3/12	Type 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	38		
	Carried Forward to Summary of Section No.			R	
	Section No. 9				+
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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			
	Carried Forward		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 4 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 of NFX bricks (14MPa nominal compressive strength) in class I mortar				
9/4/1	One brick wall	m2	59		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
9/4/2	One brick wall	m2	1 303		
9/4/3	Half brick wall	m2	110		
	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				
9/4/4	both directions Extra over brickwork for face brickwork in superstructure	m2	1 481		
9/4/5	Extra over brickwork for face brickwork in brick-on-edge				
3/4/0	header coping	m	96		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
9/4/6	75mm wide reinforcement built in horizontally	m	324		
9/4/7	150mm wide reinforcement built in horizontally.	m	4 008		
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 4 Masonry				

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				
9/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	1 325		
9/5/2	550mm girth ridge capping, 3 times bent and notched on site to suit roof profile	m	96		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 5 Roof Coverings			, iv	

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
9/5/3	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	1 325		
	Carried Forward to Summary of Section No.		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 5 Roof Coverings			
	1 1.001 00 voilingo			

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			
	Carried Forward		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 6		
Carpentry and Joinery		

	Brought Forward			R	_
	ROOFS, ETC				
	Similar Approved				
	Roof trusses				
9/6/1	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	1 019		
	"Everite FC77" fascia and barge boards				
9/6/2	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	336		
9/6/3	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	70		
	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				
9/6/4	813 x 2032mm single door	No	24		
9/6/5	914 x 2032mm single door	No	24		
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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			
	Carried Forward		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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				
9/7/1	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	1 747		
9/7/2	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	12		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 7				
	Ceilings, Partitions and Access Flooring				

	Brought Forward			R	
	CORNICES				
	Similar Approved				
	"Rhino" plasterboard cornice				
9/7/3	75mm Coved cornice, plugged to brickwork	m	583		
	CEILING INSULATION				
	Insulation				
9/7/4	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	1 747		
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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:				
	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				
9/8/1	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	24		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray				
9/8/2	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	24		
	Carried Forward Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 8 Ironmongery			R	

	Brought Forward			R	
	DOOR FURNITURE				
	Similar Approved				
	<u>Handles</u>				
9/8/3	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	24		
	Locks				
9/8/4	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	24		
9/8/5	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	24		
9/8/6	SC 150mm Cabin hook (Code: CH 150)	No	24		
9/8/7	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	24.0		
	Kick and push plates				
9/8/8	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	96		
9/8/9	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	24		
	Carried Forward Section No. 9			R	
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 8 Ironmongery				

	Brought Forward			R	Γ
	<u>Signage</u>				
	Panic hardware				
9/8/10	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	24.0		
9/8/11	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	24		
	<u>Door closers</u>				
	<u>Sundries</u>				
9/8/12	Male / Female fixing screws (Qty 4 per pack)	Sets	24.0		
9/8/13	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	24		
	WINDOW FURNITURE				
	Similar Approved				
9/8/14	Brass spring catch	No	48		
9/8/15	Brass peg stay	No	120		
9/8/16	Brass handle	No	120		
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 8				
	Ironmongery				

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. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 9 Metalwork			

Brought Forward	R	
<u>Actuators</u>		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified		
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.		
Carried Forward	R	
Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 9 Metalwork		

	Brought Forward	R	
After approval and prior to fabrication drawings shall be prepared and submarchitect for approval.			
Fixing:			
The contractor is to take special note of all aluminium elements and must a properly securing the aluminium secti with and including all necessary steel timber grounds and sub-frames, incluholing and bolting, etc. This fixing is to spaced and securely fixed to ensure the door frames, windows, etc. as no sag improper functioning of the windows accepted.	llow in his price for ons to the structure brackets, rails, ding all necessary be adequately otal stiffness of the ging causing		
<u>Deflection of structure:</u>			
The contractor is advised to make ad for the design deflection of the structu			
<u>Tolerances:</u>			
Sizes are approximate only and measurest be taken before fabrication. Due be made for tolerances in accordance Architect's details.	e allowance must		
Protection:			
The contractor will be required to protein the course of construction, which protein adequate for the purpose and to the farchitect.	ection shall be		
Such protection shall only be remove instruction from the Architect.	d after a written		
Cleaning:			
All work must be cleaned down upon Glazing as installed will not be accept and the contractor must allow for policy when instructed by the Architect.	ted as clean glass		
Note: All windows and doors should be conjunction with window and door sch			
	Carried Forward	R	
Section No. 9 RENOVATIONS (12 CLASSROOMS Bill No. 9 Metalwork	AND 24 WATERBO		

	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				
9/9/1	Steel gate to door, size 813mm x 2032mm high	No	12		
	Welded MS screen consisting of 10mm diameter bars, all complete as per the architect's specifications				
9/9/2	Steel screen to window, size 1460 x 1533mm high	No	60		
	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				
9/9/3	813 x 2032mm single door	No	24		
	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				
9/9/4	914 x 2032mm single door	No	24		
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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				
9/10/1	30mm thick on floors and landings	m2	95		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
9/10/2	On brick walls	m2	1 337		
				_	
	Carried Forward to Summary of Section No. Section No. 9			R	
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 10 Plastering				
		ı			l l

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.			
	Carried Forward		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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.				
	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				
9/11/1	On floors	m2	728		
9/11/2	75mm high skirting	m	932		
	ATTIC STOCK				
9/11/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	73		
	SUNDRIES				
	10mm aluminium straight edge trim				
9/11/4	Dividing strip between tiles and door frames	m	22		
	25 x 25mm aluminium angle				
9/11/5	Trim to edge of concrete, to be secured with screws	m	11		
	Carried Forward to Summary of Section No.			R	
	Section No. 9			ĸ	+
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 11 Tiling				

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. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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>				
9/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	129		
9/12/2	Extra over eaves gutter for outlet	No	217		
9/12/3	Extra over eaves gutter for closed end	No	386		
	Rainwater downpipes				
9/12/4	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	90		
9/12/5	Extra over rainwater pipe for offset	No	36		
9/12/6	Extra over rainwater pipe for shoe	No	24		
9/12/7	Extra over rainwater pipe for bend	No	30		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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				
9/12/8	WHB, installed complete	No	12		
	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				
9/12/9	WC, installed complete	No	24		
	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				
9/12/10	Wash trough, installed complete	No	12		
	TOILET ROLL HOLDER				
	To be approved by Architect				
9/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	24		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	
	TAPS, VALVES, ETC				
	Similar Approved				
9/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	30		
	<u>TANKS</u>				
	Similar Approved				
9/12/13	1900mm dia. x 2040mm high 2500L JoJo water storage tank (Colour: JoJo Green), installed on a brick base with compacted fill (measured elsewhere)	No	6		
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions				
	TESTING				
9/12/14	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
9/12/15	Allow an amount of R300 913.92 (Three Hundred Thousand Nine Hundred and Thirteen and Ninety Two) for the supply and installation of Sanitary Fitting Sundries		Item		300 913 92
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 12 Plumbing and Drainage				
		'	'		'

Item No			Quantity	Rate	Amount
	BILL NO. 13				
	<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				
9/13/1	Panes not exceeding 0.1m2	m2	134		
9/13/2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	14		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
9/13/3	Mirror 400 x 600 mm high	No	12		
	Carried Forward to Summary of Section No. Section No. 9			R	
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 13 Glazing				

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	<u>PAINTWORK</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.				
	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				
9/14/1	On walls	m2	1 431		
	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				
9/14/2	On window frames	m2	297		
9/14/3	On door frames	m2	144		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 14 Paintwork				

	Brought Forward			R	
	BRICKWORK				
	Similar Approved				
	Three coats brick dressing				
9/14/4	On face brickwork	m2	1 153		
	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				
9/14/5	On walls	m2	1 337		
	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				
9/14/6	On internal ceilings and cornices	m2	1 798		
9/14/7	Fibre cement fascia/barge boards	m2	195		
	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				
9/14/8	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	347		
9/14/9	On gutters	m	33		
9/14/10	On downpipes	m	24		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 14 Paintwork				

	Brought Forward		R	
	WOOD			
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by Architect			
9/14/11	On door m2	179		
	Carried Forward to Summary of Section No. Section No. 9		R	_
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 14 Paintwork			

	SECTION SUMMARY			
Bill No		Page No		Amount
9/1	Demolitions and Alterations	9/6		
9/2	Earthworks	9/9		
9/3	Concrete, Formwork and Reinforcement	9/13		
9/4	Masonry	9/15		
9/5	Roof Coverings	9/17		
9/6	Carpentry and Joinery	9/20		
9/7	Ceilings, Partitions and Access Flooring	9/23		
9/8	Ironmongery	9/27		
9/9	Metalwork	9/31		
9/10	Plastering	9/32		
9/11	Tiling	9/34		
9/12	Plumbing and Drainage	9/38		
9/13	Glazing	9/39		
9/14	Paintwork	9/42		
	0			
	Carried to Final Summary Section No. 9		R	
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO			

Item No		Quantity	Rate	Amount
	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			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	Carried Forward		R	
	Section No. 10 PROVISIONAL SUMS Bill No. 1 Budgetary Allowance		K	

	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			
	LOCAL AUTHORITY FEES			
	Local authority fees for connections			
10/1/1	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			
10/1/2	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. 10		R	
	PROVISIONAL SUMS Bill No. 1			
	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.			
	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			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
			_	
	Section No. 10 PROVISIONAL SUMS Bill No. 2 Provisional Sums		R	

	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			
10/2/1	Allow an amount of R154 700.00 (One Hundred and Fifty Four Thousand Seven Hundred) for the supply and installation of Signage	Item		154 700.00
10/2/2	Attendance		%	
10/2/3	Profit		%	
	Joinery Fittings			
10/2/4	Allow an amount of R231 810.00 (Two Hundred and Thirty One Thousand Eight Hundred and Ten) for the supply and installation of Joinery Fittings	Item		231 810.00
10/2/5	Attendance		%	
10/2/6	Profit		%	
	School Furniture and Fittings			
10/2/7	Allow an amount of R1 160 000.00 (One Million One Hundred and Sixty Thousand) for the supply and installation of School Furniture and Fittings	Item		1 160 000 00
10/2/8	Attendance		%	
10/2/9	Profit		%	
	Carried Forward Section No. 10 PROVISIONAL SUMS		R	
	Bill No. 2 Provisional Sums			

	Brought Forward		R	
	Community Liaison Officer			
10/2/10	Allow an amount of R240 000.00 (Two Hundred and Forty Thousand) for provision of Community Liaison Officer	Item		240 000.00
10/2/11	Attendance		%	
10/2/12	Profit		%	
	Project Steering Committee			
10/2/13	Allow an amount of R48 000.00 (Forty Eight Thousand) for provision of Project Steering Committee	Item		48 000.00
10/2/14	Attendance		%	
10/2/15	Profit		%	
	WORK EXECUTED BY SEPARATE DIRECT SERVICE PROVIDERS			
	The following work will be executed by Service Providers under direct agreement with the Employer. The Contractor is to accommodate these Service Providers and allow them to execute their work unhindered and allow them the use of water and toilet facilities. Damage caused by these Service Providers to work completed by the principal Contractor is to be recorded in detail to enable the Employer to countercharge the direct Service Providers the cost of making good such damages.			
	Occupational Health and Safety Consultant			
10/2/16	Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of an Occupational Health and Safety Consultant	Item		500 000.00
10/2/17	Attendance		%	
10/2/18	Profit		%	
	Social Facilitator			
10/2/19	Allow an amount of R408 000.00 (Four Hundred and Eight Thousand) for provision of a Social Facilitator	Item		408 000.00
	Carried Forward		R	
	Section No. 10 PROVISIONAL SUMS Bill No. 2 Provisional Sums			

	Brought Forward	R	
10/2/20	Attendance	%	
10/2/21	Profit	%	
	Carried Forward to Summary of Section No.	R	
	Section No. 10 PROVISIONAL SUMS		
	Bill No. 2 Provisional Sums		
	. Tonoshar Gamo		

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

	SECTION SUMMARY				
Bill No			Page No		Amount
10/1	Budgetary Allowance		10/2		
10/2	Provisional Sums		10/6		
		Carried to Final Summary		R	
	Section No. 10 PROVISIONAL SUMS				
	LKOVISIONAL SUMS				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	MV RETICULATION				
1.1	Provide the sum of R 130 470.00 for the supply and Install 50kVA 22kV or 11kV/400V pole mounted transformer complete with structures and poles. Supply and install fox conductor ACSR incl. meter Box c/w 3-phase meter	Sum	1		
1.2	Profit	%			
1.3	Attendense	%			
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
2	LV RETICULATION				
2.1	Distribution Kiosks,				
	equipment as specified				
2.1.1	Main Kiosk	No	1		
2.1.2	Plinth	No	1		
2.2	Trenching				
	Excavating, bedding, backfilling, consolidating and making good as specified,				
2.2.1	Pickable soil	m³	210.00		
2.2.2	Hard rock	m³	90.00		
2.2.3	Very hard rock	m³	-		rate only
2.2.4	Backfilling and compaction	m³	300.00		
2.3	75mm dia PVC sleeves for road crossings/cable entries into the building-rate must include for galv steel draw wires in spare sleeves and sealing of ends	m	400		
2.4	Concrete slabs for crossing of other services - rate must include installation 200mm below existing services	m			rate only
2.5	Cable warning tape, 300mm above cables	m	800		
2.6	Cable markers, above cables	No	10		
2.7	600/1000V PVC SWA cables, in trenches and sleeves, including labels				
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD							
2.7.1	25mm² 4core	m	72				
2.7.2	16mm² 2core	m	365				
2.7.3	10mm² 2core	m	150				
2.7.4	4mm² 2core	m	195				
2.8	600/1000V Cable terminations,						
	for PVC PVC SWA PVC Cu cables, for indoor or outdoor use, as required						
2.8.1	Gland no 5 complete with shroud	No	4				
2.8.2	Gland no 3 complete with shroud	No	6				
2.8.3	Gland no 2 complete with shroud	No	6				
2.9	Earth conductors (HDHC), including ends						
2.9.1	25mm²	m	72				
2.9.2	16mm²	m	365				
2.9.3	10mm²	m	150				
2.9.4	4mm²	m	195				
2.10	Testing of this section in the presence of the Employer and/or the Engineer, including all equipment, power generator, etc.	No	1				
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3 3.1	MEDIUM ADMINISTRATION BLOCK				
	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.				
3.1.1	Trenching through floor for sleeves	m³			rate only
3.1.2	Excavation and backfilling in soft soil	m³			rate only
3.1.3	Excavation and backfilling in hard rock	m³			rate only
3.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
3.2.1	75mm Diameter for Data	m			rate only
3.2.2	110mm Diameter for power cable	m			rate only
3.3	Draw Wires				
	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	710		
3.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
3.4.1	Distribution Board (DB-ADM)	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FO	OR BILL - BROUGHT FORWARD			
3.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
	Terminations:			
3.5.1	16mm 4 core cable	No	2	
3.5.2	16mm BCEW	No	2	
3.6	Conduit Work			
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
3.6.1	20mm PVC Conduit	m	130	
3.6.2	25mm PVC Conduit	m	230	
	In Ceiling space and Timber work or along Purlins			
3.6.3	20mm PVC Conduit	m	250	
3.6.4	25mm PVC Conduit	m	80	
3.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.		rate only
3.6.6	Conduit Boxes			
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.			
3.6.7	20mm diameter 4 way type(round box)	No	51	
3.6.8	450 x 450mm Bonding tray in roof space	No		rate only
3.7	Wall Boxes			
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.			
	Flush mounted type:			
3.7.1	100 x 50 x 50mm	No	12	
3.7.2	100 x 100 x 50mm	No	20	
3.7.3	88 x 275 x 62mm One tier cluster`	No	6	
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	OR BILL - BROUGHT FORWARD			
3.8	PVC Wiring in conduits:			
3.8.1	2.5 mm ² for lights circuits	m	650	
3.8.2	4 mm² for plug sockets circuits	m	460	
	Stranded Bare Copper Earth Wire			
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
3.8.3	2.5 mm ²	m	650	
3.8.4	4 mm²	m	460	
3.9	Light Switches			
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
3.9.1	16A Single Lever Light Switch	No	11	
3.9.2	2Way 16A Single Lever Light switch	No	2	
3.9.3	Outdoor Photocell Switch	No	1	
3.9.4	90 degree motion sensor light switch	No	3	
3.10	Socket Outlets			
	Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.			
	The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.			
	All flush type boxes and special pedestals measured elsewhere.			
	Flush switched sockets type:			
3.10.1	SA/Euro 16A Socket Outlet @1200 A.F.F.L	No	3	
3.10.2	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	17	
	One Tier Cluster Wall Box Consisting of The Following: - 16A Normal Socket Un-switched - 16A Dedicated Socket Un-switched - 5A 2 Pin Socket Un-switched			
3.10.3	- 2x RJ45 Data & Telephone Points		6	
	TOTAL FOR BILL - CARRIED FORWARD		<u> </u>	

TOTAL FO	OR BILL - BROUGHT FORWARD	1			
3.11	Light Fittings				
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
3.11.1	1200mm 34W LED IP66 Corrosion Proof Light Fitting	No	25		
3.11.2	8 Inch 15W LED Downlight	No	16		
3.11.3	10W LED Rondo Downlight with Dali Modification	No	2		
3.11.4	15W LED Round Bulkhead with Dali Modification	No	8		
3.12	Electrical Tests				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
3.12.1	Building installation	Sum	1		
3.13	Others				
3.13.1	2 compartment power skirting installed in offices	m	10		
3.13.2	Telephone points on Powerskirting; must include draw box, blank cover plate, etc,	No	3		
3.13.3	Telephone points on Powerskirting; must include draw box, blank cover plate, etc,	No			rate only
	Provide the sum of R15000-00 for earthing and lightning protection installations by specialist	Sum	1		
3.13.5	20A 2pole Isolator, in suitable York Box, for HVAC	No	2		
3.13.6	Supply and install a 150L Solar Water Geyser	No			rate only
	Provide the sum of R5500-00 for the supply and installation of school motorised siren c/w timer	Sum	1		
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			1	

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4	GRADE R BLOCK (2 CLASSROOM)				
4.1					
	General trenching worktor sleeves along the routes as pegged out on site after co-ordination with other				
	Allowance must be made for the sitting of soil when required, removal and carting away of all stones and				
4.1.1	Trenching through floor for sleeves	m³			rate only
4.1.2	Excavation and backfilling in soft soil	m³			rate only
4.1.3	Excavation and backfilling in hard rock	m³			rate only
4.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
4.2.1	75mm Diameter for Data	m			rate only
4.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
4.2.3	75mm Diameter	No			rate only
4.2.4	110mm Diameter	No			rate only
4.3	Draw Wires				
4.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	790		
4.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
4.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD	I			

4.5	Low Voltage PVC Cables				
	Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches				
	Terminations:				
4.5.1	10mm 2 core cable	No	2		
4.5.2	10mm BCEW	No	2		
4.6	Conduit Work				
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
4.6.1	20mm PVC Conduit	m	80		
4.6.2	25mm PVC Conduit	m	180		
	In Ceiling space and Timber work or along Purlins				
4.6.3	20mm PVC Conduit	m	450		
4.6.4	25mm PVC Conduit	m	80		
4.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.			rate
4.6.6	Conduit Boxes				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4.6.7	20mm diameter 4 way type(round box)	No	30		
4.6.8	450 x 450mm Bonding tray in roof space	No			rate
4.7	Wall Boxes				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
4.7.1	100 x 50 x 50mm	No	8		
4.7.2	100 x 100 x 50mm	No	10		
4.7.3	88 x 275 x 62mm one tier cluster	No	2		
	TOTAL FOR BILL - CARRIED FORWARD		<u> </u>	!	

4.8 4.8.1	PVC Wiring in conduits: 2.5 mm² for lights circuits	m	350	
4.8.2	4 mm² for plug sockets circuits	m	250	
1.0.2	Stranded Bare Copper Earth Wire		200	
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
4.8.3	2.5 mm²	m	350	
4.8.4	4 mm²	m	250	
4.9	Light Switches			
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
4.9.1	16A Single Lever Light Switch	No	7	
4.9.2	2Way 16A Single Lever Light switch	No	2	
4.9.3	2 Lever 2 way	No		
4.9.4	Outdoor Photocell Switch	No	1	
4.10	Socket Outlets			
	Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.			
	The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.			
	All flush type boxes and special pedestals measured elsewhere.			
	Flush switched sockets type:			
4.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	6	
	One Tier Cluster Wall Box Consisting of The Following: - 16A Normal Socket Un-switched - 16A Dedicated Socket Un-switched - 5A 2 Pin Socket Un-switched			
	- 2x RJ45 Data & Telephone Points	No	2	I

TOTAL I	OTAL FOR BILL - BROUGHT FORWARD							
4.11	Light Fittings							
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.							
	Fittings to be equal and similar approved to the below quoted manufacture.							
4.11.1	1200mm 34W LED IP66 Corrosion Proof Light Fitting	No	12					
4.11.2	15W LED Round Bulkhead with Dali Modification	No	8					
4.11.3	10W LED Roundo Downlight with Dali Modification	No	12					
4.12	Electrical Tests Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.							
4.12.1	Building installation	Sum	1					
4.13	Others							
4.13.1	Provide the sum of R7000-00 for earthing and lightning protection installations by specialist	Sum	1					
4.13.2	20A 2pole Isolator, in suitable York Box, for HVAC	No	2					
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY							

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5 5.1	3 CLASSROOM BLOCK				
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
5.1.1	Trenching through floor for sleeves	m³			rate only
5.1.2	Excavation and backfilling in soft soil	m³			rate only
5.1.3	Excavation and backfilling in hard rock	m³			rate only
5.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
5.2.1	75mm Diameter for Data	m			rate only
5.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
5.2.3	75mm Diameter	No			rate only
5.2.4	110mm Diameter	No			rate only
5.3	Draw Wires				
5.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	620		
5.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
5.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD	I	ı		

TOTAL FO	DR BILL - BROUGHT FORWARD			
5.5	Low Voltage PVC Cables			
5.5	Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
5.5.1	10mm 4 core PVC SWA Cable	m		rate only
5.5.2	10mm BCEW	m		rate only
	Terminations:			
5.5.3	10mm 4 core cable	No	2	
5.5.4	10mm BCEW	No	2	
5.6	Conduit Work			
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
5.6.1	20mm PVC Conduit	m	50	
5.6.2	25mm PVC Conduit	m	50	
5.6.3	In Ceiling space and Timber work or along Purlins 20mm PVC Conduit	m	300	
5.6.4	25mm PVC Conduit	m	200	
5.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.		rate only
5.6.6	Conduit Boxes			
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.			
5.6.7	20mm diameter 4 way type(round box)	No	25	
5.6.8	450 x 450mm Bonding tray in roof space	No		rate only
5.7	Wall Boxes			
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.			
	Flush mounted type:			
5.7.1	100 x 50 x 50mm	No	3	
5.7.2	100 x 100 x 50mm	No	6	
5.7.3	88 x 275 x 62mm One tier cluster`	No	3	
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	OR BILL - BROUGHT FORWARD		T	
5.8	PVC Wiring in conduits:			
5.8.1	2.5 mm² for lights circuits	m	400	
5.8.2	4 mm² for plug sockets circuits	m	300	
	Stranded Bare Copper Earth Wire			
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
5.8.3	2.5 mm ²	m	400	
5.8.4	4 mm ²	m	300	
5.9	Light Switches			
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
5.9.1	16A Single Lever Light Switch	No	3	
5.9.2	Outdoor Photocell Switch	No	1	
5.10	Socket Outlets			
	Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.			
	The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.			
	All flush type boxes and special pedestals measured elsewhere.			
	Flush switched sockets type:			
5.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	6	
	One Tier Cluster Wall Box Consisting of The Following: - 16A Normal Socket Un-switched - 16A Dedicated Socket Un-switched - 5A 2 Pin Socket Un-switched			
5.10.2	- 2x RJ45 Data & Telephone Points	No	3	
	TOTAL FOR BILL - CARRIED FORWARD		1	

TOTAL F	OR BILL - BROUGHT FORWARD			
5.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.			
	Fittings to be equal and similar approved to the below quoted manufacture.			
5.11.1	1200mm 34W LED IP66 Corrosion Proof Light Fitting	No	12	
5.11.2	15W LED Round Bulkhead with Dali Modification	No	10	
5.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
5.12.1	Building installation	Sum	1	
5.13	Others			
5.13.1	Provide the sum of R7000-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6	4 CLASSROOM BLOCK				
6.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
6.1.1	Trenching through floor for sleeves	m³			rate only
6.1.2	Excavation and backfilling in soft soil	m³			rate only
6.1.3	Excavation and backfilling in hard rock	m³			rate only
6.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
6.2.1	75mm Diameter for Data	m			rate only
6.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
6.2.3	75mm Diameter	No			rate only
6.2.4	110mm Diameter	No			rate only
6.3	Draw Wires				
6.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	1000		
6.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
6.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD	1	I		

TOTAL FO	DR BILL - BROUGHT FORWARD			
6.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
	Terminations:			
6.5.1	16mm 2 core cable	No	2	
6.5.2	16mm BCEW	No	2	
6.6	Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
6.6.1	20mm PVC Conduit	m	120	
6.6.2	25mm PVC Conduit	m	440	
	In Ceiling space and Timber work or along Purlins			
6.6.3	20mm PVC Conduit	m	400	
6.6.4	25mm PVC Conduit	m	40	
6.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.		
6.6.6	Conduit Boxes			
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.			
6.6.7	20mm diameter 4 way type(round box)	No	50	
6.6.8	450 x 450mm Bonding tray in roof space	No		rate only
6.7	Wall Boxes Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. Flush mounted type:			
/ 7 1	100 x 50 x 50mm	No	0	
6.7.1	100 x 100 x 50mm	No	8	
6.7.2	88 x 275 x 62mm one tier cluster	No	12	
6.7.3		140	4	
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	OR BILL - BROUGHT FORWARD			
	PVC Wiring in conduits:			
	2.5 mm² for lights circuits	m	800	
6.8.2	4 mm² for plug sockets circuits	m	470	
	Stranded Bare Copper Earth Wire			
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.			
6.8.3	2.5 mm ²	m	800	
6.8.4	4 mm²	m	470	
6.9	Light Switches			
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
6.9.1	16A Single Lever Light Switch	No	4	
6.9.2	2Way 16A Single Lever Light switch	No	0	rate only
6.9.3	2 Lever 2 way	No		
6.9.4	Outdoor Photocell Switch	No	1	
6.10	Socket Outlets			
	Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.			
	The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.			
	All flush type boxes and special pedestals measured elsewhere.			
	Flush switched sockets type:			
6.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	12	
	One Tier Cluster Wall Box Consisting of The Following: - 16A Normal Socket Un-switched - 16A Dedicated Socket Un-switched - 5A 2 Pin Socket Un-switched			
6.10.2	- 2x RJ45 Data & Telephone Points	No	4	
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	DR BILL - BROUGHT FORWARD			
6.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.			
	Fittings to be equal and similar approved to the below quoted manufacture.			
6.11.1	1200mm 34W LED IP66 Corrosion Proof Light Fitting	No	20	
6.11.2	15W LED Round Bulkhead with Dali Modification	No	10	
6.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
6.12.1	Building installation	Sum	1	
6.13	Others			
6.13.1	Provide the sum of R10000-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7	5 CLASSROOM BLOCK				
′	S CLASSROOM BLOCK				
7.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
7.1.1	Trenching through floor for sleeves	m³			rate only
7.1.2	Excavation and backfilling in soft soil	m³			rate only
7.1.3	Excavation and backfilling in hard rock	m³			rate only
7.2	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				
7.2.1	75mm Diameter for Data	m			rate only
7.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
7.2.3	75mm Diameter	No			rate only
7.2.4	110mm Diameter	No			rate only
7.3	Draw Wires				
7.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	760		
7.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
7.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FO	OR BILL - BROUGHT FORWARD	T			
7.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches				
7.5.1	25mm 9 core PVC SWA Cable	m			rate only
7.5.2	16mm BCEW	m			rate only
	Terminations:				
7.5.3	10mm 2 core cable	No	2		
7.5.4	6mm BCEW	No	2		
7.6	Conduit Work				
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
7.6.1	20mm PVC Conduit	m			rate only
7.6.2	25mm PVC Conduit	m	60		
	In Ceiling space and Timber work or along Purlins				
7.6.3	20mm PVC Conduit	m	400		
7.6.4	25mm PVC Conduit	m	300		
7.7	Conduit Boxes				
7.7.1	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
7.7.2	20mm diameter 4 way type(round box)	No	40		
7.8	Wall Boxes				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
7.8.1	100 x 50 x 50mm	No	5		
7.8.2	100 x 100 x 50mm	No	5		
7.8.3	88 x 275 x 62mm One tier cluster`	No	5		
	TOTAL FOR BILL - CARRIED FORWARD			<u> </u>	

TOTAL FO	OR BILL - BROUGHT FORWARD			T	
7.9	PVC Wiring in conduits:				
7.9.1	2.5 mm² for lights circuits	m	410		
7.9.2	4mm² for plug sockets circuits	m	370		
	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.				
7.9.3	1.5 mm ²	m	410		
7.9.4	2.5mm²	m	370		
7.10'	Light Switches				
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
7.10.1	1 Lever 1 way	No	5		
7.10.2	1 Lever 2 way	No			rate only
7.10.3	2 Lever 2 way	No			rate only
7.10.4	Photo cell	No	1		
7.10.5	Occupancy Sensors	No			rate only
7.11	Socket Outlets				
	Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.				
	The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.				
	All flush type boxes and special pedestals measured elsewhere.				
	Flush switched sockets type:				
7.10.1	16A 3 pin single socket outlets	No	5		
7.10.2	One Tier Cluster Type D Socket outlet	No	5		
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FOR BILL - BROUGHT FORWARD					
7.11	Light Fittings				
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.				
	Fittings to be equal and similar approved to the below quoted manufacture.				
7.11.1	Type F1: 2x26W 1200mm T5 Open Channel Fluorescent Light	No	20		
7.11.2	Type B1: Wall mounted bulkhead 2x 18W CFL	No	10		
7.12	Electrical Tests				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
7.12.1	Building installation	Sum	1		
7.13	Others				
7.13.1	Provide the sum of R10000-00 for earthing and lightning protection installations by specialist	Sum	1		
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8	ABLUTION BLOCK (12 SEATER)				
8.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
8.1.1	Trenching through floor for sleeves	m³			rate only
8.1.2	Excavation and backfilling in soft soil	m³			rate only
8.1.3	Excavation and backfilling in hard rock	m³			rate only
8.2	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				
8.2.1	75mm Diameter for Data	m			rate only
8.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
8.2.3	75mm Diameter	No			rate only
8.2.4	113mm Diameter	No			rate only
8.3	Draw Wires				
8.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	80		
8.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
8.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD				

8.5.2 4 mm BCEW m Terminations: 8.5.3 4mm 2 core cable No 2 8.5.4 4mm BCEW No 2 8.6 Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. 8.6.1 20mm PVC Conduit m Trate or In Ceiling space and Timber work or along Purlins 8.6.2 25mm PVC Conduit m 8.6.3 20mm PVC Conduit m 8.6.4 25mm PVC Conduit m 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes installad 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. 8.6.7 20mm diameter 13 way type(round box) No 40	TOTAL FO	OR BILL - BROUGHT FORWARD				
8.5.2 4 mm BCEW m Terminations: 8.5.3 4mm 2 core cable No 2 8.5.4 4mm BCEW No 2 8.6 Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work: 8.6.1 20mm PVC Conduit m In Ceilling space and Timber work or along Purlins 8.6.2 25mm PVC Conduit m In Ceilling space and Timber work or along Purlins 8.6.3 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. 8.6.7 20mm diameter 13 way type(round box) No 40	8.5	Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire				
Terminations: 8.5.3 4mm 2 core cable No 2 8.5.4 4mm BCEW No 2 8.6 Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work: 8.6.1 20mm PVC Conduit In Ceiling space and Timber work or along Purlins 8.6.2 25mm PVC Conduit m 80 8.6.3 20mm PVC Conduit m 30 8.6.4 25mm PVC Conduit m 30 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. rate or 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type (round box) No 40	8.5.1	4mm 2 core PVC SWA Cable	m			rate only
8.5.3 4mm 2 core cable 8.6 4mm BCEW 8.6 Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. 8uilt or Chase into brick or concrete work: 8.6.1 20mm PVC Conduit 8.6.2 25mm PVC Conduit 8.6.3 20mm PVC Conduit 8.6.4 25mm PVC Conduit 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false celling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type (round box) No 40	8.5.2	4 mm BCEW	m			rate only
8.5.4 4mm BCEW 8.6 Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work: 8.6.1 20mm PVC Conduit 8.6.2 25mm PVC Conduit In Ceiling space and Timber work or along Purlins 8.6.3 20mm PVC Conduit 8.6.4 25mm PVC Conduit 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No 40		Terminations:				
8.6 Conduit Work Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work: 8.6.1 20mm PVC Conduit m 15 8.6.2 25mm PVC Conduit m 15 8.6.3 20mm PVC Conduit m 80 8.6.4 25mm PVC Conduit m 80 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No 40	8.5.3	4mm 2 core cable	No	2		
Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work: 8.6.1 20mm PVC Conduit m 15 8.6.2 25mm PVC Conduit m 75 In Ceiling space and Timber work or along Purlins m 80 8.6.3 20mm PVC Conduit m 80 8.6.4 25mm PVC Conduit m 30 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. rate or 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. 8.6.7 20mm diameter 13 way type(round box) No 40	8.5.4	4mm BCEW	No	2		
Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories. Built or Chase into brick or concrete work: 8.6.1 20mm PVC Conduit m 15 8.6.2 25mm PVC Conduit m 15 8.6.3 20mm PVC Conduit m 80 8.6.4 25mm PVC Conduit m 80 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No 40	8.6	Conduit Work				
8.6.1 20mm PVC Conduit m 15 8.6.2 25mm PVC Conduit m 80 8.6.3 20mm PVC Conduit m 80 8.6.4 25mm PVC Conduit m 30 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type (round box) No 40	0.0	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit				
8.6.2 25mm PVC Conduit m rate or In Ceiling space and Timber work or along Purlins 8.6.3 20mm PVC Conduit m 80 8.6.4 25mm PVC Conduit m 30 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No 40		Built or Chase into brick or concrete work:				
In Ceiling space and Timber work or along Purlins 8.6.3 20mm PVC Conduit m 80 8.6.4 25mm PVC Conduit m 30 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No 40	8.6.1	20mm PVC Conduit	m	15		
8.6.3 20mm PVC Conduit m 80 8.6.4 25mm PVC Conduit m 30 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No 40	8.6.2	25mm PVC Conduit	m			rate only
8.6.4 25mm PVC Conduit m 30 8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No 40		In Ceiling space and Timber work or along Purlins				
8.6.5 Girder clamp for chain and wire, STRUTFAST Type AH-11320 No. 8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No. rate or	8.6.3	20mm PVC Conduit	m	80		
8.6.6 Conduit Boxes Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. 8.6.7 20mm diameter 13 way type(round box) No 40	8.6.4	25mm PVC Conduit	m	30		
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. 8.6.7 20mm diameter 13 way type(round box) No 40	8.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-11320	No.			rate only
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. 8.6.7 20mm diameter 13 way type(round box) No 40	8.6.6	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				
8.6.8 1350 x 1350mm Bonding tray in roof space No rate or	8.6.7	20mm diameter 13 way type(round box)	No	40		
	8.6.8	1350 x 1350mm Bonding tray in roof space	No			rate only
8.7 Wall Boxes	8.7	Wall Boxes				
Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.		steel wall boxes for building flush into brickwork or cast into				
Flush mounted type:		Flush mounted type:				
8.7.1 100 x 50 x 50mm No 1	8.7.1	100 x 50 x 50mm	No	1		
		TOTAL FOR BILL - CARRIED FORWARD			<u> </u>	

TOTAL FO	OR BILL - BROUGHT FORWARD			
8.8	PVC Wiring in conduits:			
0.0				
8.8.1	2.5 mm² for lights circuits	m	115	
	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.			
8.8.2	2.5 mm ²	m	115	
8.9	Light Switches			
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
8.9.1	1 Lever 1 way	No	2	
8.9.2	Outdoor Photocell Switch	No	1	
8.10	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:			
8.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No		rate only
	TOTAL FOR BILL - CARRIED FORWARD		<u> </u>	

TOTAL FO	OTAL FOR BILL - BROUGHT FORWARD							
8.11	Light Fittings							
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.							
	Fittings to be equal and similar approved to the below quoted manufacture.							
8.11.1	1200mm 313W LED IP66 Corrosion Proof Light Fitting	No			rate only			
8.11.2	15W LED Round Bulkhead with Dali Modification	No	7					
8.11.3	10W LED Rondo Downlight with Dali Modification	No	16					
8.12	Electrical Tests							
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.							
8.12.1	Building installation	Sum	1					
8.13	Others							
8.13.1	Provide the sum of R6500-00 for earthing and lightning protection installations by specialist	Sum	1					
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY							

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9	ABLUTION BLOCK (10 SEATER)				
9.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
9.1.1	Trenching through floor for sleeves	m³			rate only
9.1.2	Excavation and backfilling in soft soil	m³			rate only
9.1.3	Excavation and backfilling in hard rock	m³			rate only
9.2	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				
9.2.1	75mm Diameter for Data	m			rate only
9.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
9.2.3	75mm Diameter	No			rate only
9.2.4	113mm Diameter	No			rate only
9.3	Draw Wires				
9.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	55		
9.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
9.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD			ı	

TOTAL FO	OR BILL - BROUGHT FORWARD	1		
9.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
9.5.1	4mm 2 core PVC SWA Cable	m		rate only
9.5.2	4 mm BCEW	m		rate only
	Terminations:			
9.5.3	4mm 2 core cable	No	2	
9.5.4	4mm BCEW	No	2	
9.6	Conduit Work			
7.0	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
9.6.1	20mm PVC Conduit	m	5	
9.6.2	25mm PVC Conduit	m	5	
	In Ceiling space and Timber work or along Purlins			
9.6.3	20mm PVC Conduit	m	50	
9.6.4	25mm PVC Conduit	m	10	
9.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-11320	No.		rate only
9.6.6	Conduit Boxes			
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.			
9.6.7	20mm diameter 13 way type(round box)	No	20	
9.6.8	1350 x 1350mm Bonding tray in roof space	No		rate only
9.7	Wall Boxes			
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.			
	Flush mounted type:			
9.7.1	100 x 50 x 50mm	No	1	
9.7.2	100 x 100 x 50mm	No	2	
	TOTAL FOR BILL - CARRIED FORWARD		<u> </u>	
		1		<u> </u>

TOTAL FO	OR BILL - BROUGHT FORWARD			
9.8	PVC Wiring in conduits:			
9.8.1	2.5 mm² for lights circuits	m	55	
	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.			
9.8.2	2.5 mm ²	m	55	
9.9	Light Switches			
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
9.9.1	1 Lever 1 way	No	2	
9.9.2	Outdoor Photocell Switch	No	1	
9.10	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:			
9.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No		rate only
	TOTAL FOR BILL - CARRIED FORWARD	1	<u> </u>	

TOTAL FO	OR BILL - BROUGHT FORWARD			
9.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.			
	Fittings to be equal and similar approved to the below quoted manufacture.			
9.11.1	1200mm 313W LED IP66 Corrosion Proof Light Fitting	No		rate only
9.11.2	15W LED Round Bulkhead with Dali Modification	No	5	
9.11.3	10W LED Rondo Downlight with Dali Modification	No	14	
9.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
9.12.1	Building installation	Sum	1	
9.13	Others Provide the sum of R5000-00 for earthing and lightning			
9.13.1	protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10	ABLUTION BLOCK (4 SEATER)				
10.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
10.1.1	Trenching through floor for sleeves	m³			rate only
10.1.2	Excavation and backfilling in soft soil	m³			rate only
10.1.3	Excavation and backfilling in hard rock	m³			rate only
10.2	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				
10.2.1	75mm Diameter for Data	m			rate only
10.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
10.2.3	75mm Diameter	No			rate only
10.2.4	113mm Diameter	No			rate only
10.3	Draw Wires				
	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	50		
10.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
10.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FO	DR BILL - BROUGHT FORWARD			
10.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
	Terminations:			
10.5.1	4mm 2core cable	No	2	
10.5.2	4mm BCEW	No	2	
10.6	Conduit Work			
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
10.6.1	20mm PVC Conduit	m		rate only
10.6.2	25mm PVC Conduit	m	15	
	In Ceiling space and Timber work or along Purlins			
10.6.3	20mm PVC Conduit	m	10	
10.6.4	25mm PVC Conduit	m		rate only
10.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-11320	No.		
	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.			
10.6.6	20mm diameter 13 way type(round box)	No	7	
10.6.7	1350 x 1350mm Bonding tray in roof space	No		rate only
10.7	Wall Boxes Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work. Flush mounted type:			
10.7.1	100 x 50 x 50mm	No	2	
10.7.2	100 x 100 x 50mm	No	2	
	TOTAL FOR BILL - CARRIED FORWARD			

10.8.1 2.5 mm² for lights circuits m 20 10.8.2 4 mm² for plug sockets circuits m 20 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. 10.8.3 2.5 mm² m 20 10.8.4 4 mm² m 20 10.9.1 Ught Switches Supply and installation of SABS approved type 16A flush and surface type light switches. Final point 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 10.9.1 1 Lever 1 way No 2 10.9.2 Outdoor Photocell Switch No 1 10.10 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 sleel wall boxes or in steel pedestal units or on surface. The final colour of the point 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:	10.8	PVC Wiring in conduits:			
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. 10.8.3 2.5 mm² m 20 10.8.4 4 mm² m 20 10.9 Light Switches Supply and installation of SABS approved type 16A flush and surface type light switches. Final point 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 10.9.1 1 Lever 1 way No 2 10.9.2 Outdoor Photocell Switch No 1 10.10' 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:	10.8.1	2.5 mm² for lights circuits	m	20	
Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage. 10.8.3 2.5 mm² m 20 10.8.4 4 mm² m 20 10.9 Light Switches Supply and installation of SABS approved type 16A flush and surface type light switches, Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas 10.9.1 1 Lever 1 way No 2 Outdoor Photocell Switch No 1 10.10' 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:	10.8.2	4 mm² for plug sockets circuits	m		rc
along with PVC wiring in conduits. Tendered rates shall make provision for wastage. 10.8.3 2.5 mm² m 20 10.8.4 4 mm² m 20 10.9 Light Switches Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas 10.9.1 1 Lever 1 way No 2 10.9.2 Outdoor Photocell Switch No 1 10.10' Socket Outlets Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suilable 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:		Stranded Bare Copper Earth Wire			
10.9. Light Switches Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas 10.9.1 Lever 1 way No 2 10.9.2 Outdoor Photocell Switch No 1 10.10' 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:		along with PVC wiring in conduits. Tendered rates shall make			
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 10.9.1 1 Lever 1 way No 2 10.9.2 Outdoor Photocell Switch No 1 10.10' 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:	10.8.3	2.5 mm²	m	20	
Supply and installation of SABS approved type 16A flush and surface type light switches. Final point 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 10.9.1 1 Lever 1 way No 2 10.9.2 Outdoor Photocell Switch No 1 10.10' 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:	10.8.4	4 mm²	m		rc
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 10.9.1 1 Lever 1 way No 2 10.9.2 Outdoor Photocell Switch No 1 10.10' 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:	10.9	Light Switches			
10.9.2 Outdoor Photocell Switch 10.10' 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:		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			
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:	10.9.1	1 Lever 1 way	No	2	
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:	10.9.2	Outdoor Photocell Switch	No	1	
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:	10.10'	Socket Outlets			
stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:		unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall			
elsewhere. Flush switched sockets type:		stage, allowance shall be made as specified in the			
10.10.1 SA/Euro 16A Socket Outlet @300 A.F.F.L No		Flush switched sockets type:			
	10.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No		ra

TOTAL FO	OR BILL - BROUGHT FORWARD			R 0.00
10.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.			
	Fittings to be equal and similar approved to the below quoted manufacture.			
10.11.1	15W LED Round Bulkhead with Dali Modification	No	4	
10.11.2	10W LED Rondo Downlight with Dali Modification	No	4	
10.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
10.12.1	Building installation	Sum	1	
10.13	Others			
10.13.1	2 compartment power skirting installed in offices	m		rate only
10.13.2	Provide the sum of R2500-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11	ABLUTION BLOCK (2 SEATER)				
11.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
11.1.1	Trenching through floor for sleeves	m³			rate only
11.1.2	Excavation and backfilling in soft soil	m³			rate only
11.1.3	Excavation and backfilling in hard rock	m³			rate only
11.2	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				
11.2.1	75mm Diameter for Data	m			rate only
11.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
11.2.3	75mm Diameter	No			rate only
11.2.4	113mm Diameter	No			rate only
11.3	Draw Wires				
11.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	30		
11.4	Distribution Boards				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
11.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FO	R BILL - BROUGHT FORWARD				
11.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches				
11.5.1	25mm 13 core PVC SWA Cable	m			rate only
11.5.2	16mm BCEW	m			rate only
	Terminations:				
11.5.3	4mm 2core cable	No	2		
11.5.4	2mm BCEW	No	2		
11.6	Conduit Work				
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
11.6.1	20mm PVC Conduit	m			rate only
11.6.2	25mm PVC Conduit	m	15		
	In Ceiling space and Timber work or along Purlins				
11.6.3	20mm PVC Conduit	m	10		
11.6.4	25mm PVC Conduit	m			rate only
11.6.5	Conduit Boxes				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
11.6.6	20mm diameter 13 way type(round box)	No	8		
11.6.7	1350 x 1350mm Bonding tray in roof space	No			rate only
11.7	Wall Boxes				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
11.7.1	100 x 50 x 50mm	No	1		
11.7.2	100 x 100 x 50mm	No	1		
	TOTAL FOR BILL - CARRIED FORWARD		<u> </u>	<u> </u>	

TOTAL FO	R BILL - BROUGHT FORWARD			
11.8	PVC Wiring in conduits:			
11.8.1	2.5 mm² for lights circuits	m	30	
11.8.2	4 mm² for plug sockets circuits	m	15	
	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.			
11.8.3	1.5 mm²	m	30	
11.8.4	2.5mm²	m	15	
11.9	Light Switches			
	Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas			
11.9.1	1 Lever 1 way	No	1	
11.9.2	1 Lever 2 way	No		rate only
11.9.3	2 Lever 2 way	No		rate only
11.9.4	Photo cell	No	1	
11.10'	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:			
11.10.1	16A 3 pin single socket outlets	No		rate only
11.10.2	16A 3 pin double socket outlets	No		rate only
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	R BILL - BROUGHT FORWARD			
11.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.			
	Fittings to be equal and similar approved to the below quoted manufacture.			
11.11.1	1200mm 313W LED IP66 Corrosion Proof Light Fitting	No	1	
11.11.2	13W LED Rondo Downlight with Dali Modification	No	2	
11.11.3	Type B1: Wall mounted bulkhead 2x 18W CFL	No	4	
11.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
11.12.1	Building installation	Sum	1	
11.13	Others			
11.13.1	Provide the sum of R2500-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12	Area Lighting				
12.1	Supply and installation of SABS approved light fittings as per the specification, complete with lamps, mounted as described including accessories necessary to complete the mounting as specified and are measured separately				
12.1.1	3,5m Steel Pole with brackets and foundation bolts including Delivery to Site and offloading	Sum	11		
12.1.2	54W LED Post Top 4000K as described including accessories	no.	11		
12.1.3	22W LED Vapour Proof Light Fitting IP65	No	53		
12.2	Cabling				
	PVC Wiring :				
12.2.1	4mm² x 2core copper cable	m	900		
12.2.2	2.5mm² bare copper earth wire (BCEW)	m	900		
12.3	TESTING AND COMISSIONING				
12.3.1	Testing and comissioning of the entire medium and low voltage network and area lighting including the provision of all test equipment required and issuing of a certificate of compliance for the installation.	Sum	1		
			CARRIED	TO SUMMARY	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
10	PROVISIONAL AMOUNTS : ICT				
10.1	Provide the sum of R 260 900.00 for the instalation of Information and Communication Technologies by specialist service provider in consultation with the Engineer/Consultant	Sum	1		
10.2	Profit	%			
10.3	Attendense	%			

	UKUTHULA PRIMARY SCHOOL SUMMARY: ELECTRICAL WORKS										
SECTION	DESCRIPTION	QTY	AMOUNT	TOTAL							
1	MV Reticulation	SUM									
2	LV Reticulation	Lot									
3	Medium Administration	1									
4	Grade R classroom blocks	2									
5	Three classroom blocks	2									
6	Four classroom blocks	4									
7	12 Seater Ablution	2									
8	10 Seater Ablution	1									
9	4 Seater Ablution	2									
10	Area Lighting	SUM									
11	Provitional Sum: ICT	SUM									
	SUB TOTAL 1										
	TOTAL BID PRICE VAT INCL										

1	SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	3	1	70		SECTION NO. 3				
3									
3						Ши			
Association of South African Country Surveyors shall apply. Association of South African Country Surveyors shall apply. 1						П4			
3	3	1	70						
3									
terms, materials or methods to be used specified by trade results of programs or catalogies mustors are only an initiation of the quality organical. The used of teach mustors the contractor for most for teaching mustors are only an initiation of the quality organic. The used of teaching are condition that prior approval is obtained from the architect. 3 1 70	3	1	70		SUPPLEMENTARY PREAMBLES	H4			
and the control of th	3	1	70		Items, materials or methods	H4			
1	3	1	70		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				
Contractor has timenually notified the Quamity Surveyor thereof prior to backfilling Soft road: 'and 'Hard rock' shall be as defined in the Model Phaembles for Tracks 2008 H4	3	1	70		<u>Excavations</u>	H4			
Presembles for Trades 2008	3	1	70		contractor has timeously notified the Quantity Surveyor thereof prior to backfilling				
3									
3					WORK OROUR 400				
3		1							
Shrubs and trees not exceeding 200mm girth, bush, etc	3	1	70		SITE CLEARANCE	H2			
3	3	1	70	2		m2	22 320		
dumping site to be located by the Contractor	3	1	70		Extra over all excavations for carting away	Н3			
3 1 70 Bulk excavation H3 3 1 70 4 Excavate in all materials and use for embankment or fill or dispose, as ordered m3 3 348 3 1 70 Extra-over for H3 3 1 70 5 Intermediate for excavation m3 837 3 1 70 6 Hard rock excavation m3 167 3 1 70 Restricted Excavation. H3 3 1 70 Faccavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose m3 0 3 1 71 Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density H3 3 1 71 8 150mm thick m3 3 348 3 1 71 9 Overhaul m.km 16 740 3 1 71 10 InfraBlok 425 (425x340x225) Waterloffel or other approved retaining wall stepped and curved to suit required slopes m2 <td>3</td> <td>1</td> <td>70</td> <td>3</td> <td></td> <td>m.km</td> <td>4 464</td> <td></td> <td></td>	3	1	70	3		m.km	4 464		
3 1 70 4 Excavate in all materials and use for embankment or fill or dispose, as ordered m3 3 348 3 1 70 Extra-over for H3 3 1 70 5 Intermediate for excavation m3 837 3 1 70 6 Hard rock excavation m3 167 3 1 70 Restricted Excavation H3 3 1 70 7 Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose m3 0 3 1 71 Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density. H3 3 1 71 8 150mm thick m3 3 348 3 1 71 9 Overhaul m.km 16 740 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 483	3	1	70		<u>EARTHWORKS</u>	H2			
mbankment or fill or dispose, as ordered	3	1	70		Bulk excavation	Н3			
3 1 70 5 Intermediate for excavation m3 837 3 1 70 6 Hard rock excavation m3 167 3 1 70 Restricted Excavation H3 3 1 70 Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose m3 0 3 1 71 Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density H3 3 1 71 8 150mm thick m3 3 348 3 1 71 9 Overhaul m.km 16 740 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 483	3	1	70	4		m3	3 348		
3 1 70 5 Intermediate for excavation m3 837 3 1 70 6 Hard rock excavation m3 167 3 1 70 Restricted Excavation. H3 3 1 70 Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose m3 0 3 1 71 Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density. H3 3 1 71 8 150mm thick m3 3 348 3 1 71 9 Overhaul m.km 16740 3 1 71 10 InfraBlok 425 (425x340x225) Waterloffel or other approved retaining wall stepped and curved to suit required slopes m2 483	3	1	70		Extra-over for	Н3			
3 1 70 6 Hard rock excavation m3 167 3 1 70 Restricted Excavation H3 3 1 70 7 Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose m3 0 3 1 71 Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density H3 3 1 71 8 150mm thick m3 3 348 3 1 71 9 Overhaul m.km 16 740 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 483	3	1	70			m3	837		
3 1 70 Restricted Excavation H3 3 1 70 7 Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose m3 0 3 1 71 Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density H3 3 1 71 8 150mm thick m3 3 348 3 1 71 9 Overhaul m.km 16 740 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 483									
3 1 70 7 Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose m3 0 3 1 71 Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density H3 3 1 71 8 150mm thick m3 3 348 3 1 71 9 Overhaul m.km 16 740 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 483	3	1	70	6	Hard rock excavation	m3	167		
A.2.4 materials and use for backfill or dispose A.2.4 materials and use for backfill or dispose A.2.4 materials and use for backfill or dispose	3	1	70		Restricted Excavation	Н3			
Source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density	3	1	70		, ,	m3	0		
3 1 71 9 Overhaul m.km 16 740 3 1 71 LOFFELSTEIN RETAINING WALLS 3 1 71 10 InfraBlok 425 (425x340x225) Waterloffel or other approved retaining wall stepped and curved to suit required slopes	3	1	71		source or borrowpit for Selected layers compacted	Н3			
3 1 71 LOFFELSTEIN RETAINING WALLS 3 1 71 10 InfraBlok 425 (425x340x225) Waterloffel or other approved retaining wall stepped and curved to suit required slopes H2 #2 #3	3	1	71	8	150mm thick	m3	3 348		
3 1 71 10 InfraBlok 425 (425x340x225) Waterloffel or other approved m2 483 retaining wall stepped and curved to suit required slopes	3	1	71	9	Overhaul	m.km	16 740		
retaining wall stepped and curved to suit required slopes	3	1	71		LOFFELSTEIN RETAINING WALLS	H2			
BULK EARTHWORKS ST	3	1	71		, , , , , , , , , , , , , , , , , , , ,	m2	483		
			<u> </u>		BULK EARTHWORKS	ST			

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	73		SECTION NO. 3				
3 3	2 2	73 73		BILL NO.2 WATER SUPPLY				
3	2	73		Preambles_	H4			
3	2	73		Model Preambles for Trades 2008 as published by the				
	2	73		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				
		70		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		74			1 17			
3	2	/4		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	948		
				wide				

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	74	11 CIVI	Excavate in all materials for trenches, backfill,	H2	WII	NAIE	AIVIOUNI
				compact and dispose of surplus material for water pipes up to 90mm in diameter for depths:				
3	2	74	2	From 0m Up to 1.5m	m	948		
		, ,	_			0.10		
3	2	74		Extra-over item (a) above for:	Н3			
3	2	74	3	Intermidiate excavation	m3	171		
3	2	74	4	Hard rock excavation	m3	26		
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	56		
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	56		
3	2	74	7	By importation from designated borrow pits	m3			
3	2	74	8	Compaction in road reserves	m			
		74		WORK CROUD 149	LIA			
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	428		
3	2	74	15	90mm diameter uPVC Class 12 pipes	m	520		
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	341		
3	2	74	19	Selected fill material	m3	569		
3	2	74		ELEVATED STEEL TANK PLUS STAND	H2			
3	2	75		The following in sectional steel water tanks and bases	H3			
3	2	75		Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all	m2	27		
		'	20	level where reinforced	1114	_'		
3	2	75	21	Concrete for footings class 25 Mpa / 19mm concrete plus	m3	5		
			_	anchor blocks, filling where ordered by the engineer				
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	27	75 mm diam. Gate valve	No	2		
				<u>l</u>			L	l

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	75		Supply and install 75mm X 32mm dia Saddles	No	28	NAIE	AIVIOUNI
3	2	75		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	ltem	1		
3	2	75		FIRE BOOSTER PUMP	Н3			
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 3	3 3 3	77 77 77		SECTION NO. 3 BILL NO.3 SEWER RETICULATION				
3	3	77		<u>Preambles</u>	H4			
3	3	77		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	3	77		SUPPLEMENTARY PREAMBLES	H4			
3	3	77		Items, materials or methods	H4			
3	3	77		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	3	77		Vitrified clay pipes, etc	H4			
3	3	77		Pipes shall rest on solid ground and where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid				
3	3	77		uPVC Pipes and fittings	H4			
3	3	77		Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
				Soil, waste and vent pipes and fittings shall be solvent weld jointed				
		<u> </u>	L			<u> </u>		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
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				
		70			114			
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	Н3			
3	3	78	1	Clear vegetation and small trees/shrubs within 2m wide strip	m	389		
		70	'	olear vegetation and small trees, smalls within 2m wide strip		000		
3	3	78		EXCAVATION	H2			
3	3	78		Excavate in all materials for trenches, backfill, compact	H3			
				and dispose of surplus material for sewers up to 160mm in diameter for depths:				
3	3	78	2	Up to 1.5m	m3	408		
3	3	78		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	272		
3	3	78	6	Hard rock excavation	m3	20		
3	3	78	7	Excavate and dispose of unsuitable material from trench	m3			
		-		bottom (provisional)				
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	293		
3	3	78	9	By importation from designated borrow pits	m3			

SEC	BILL	PG	ITEM		UNIT	QTY	RATE	AMOUNT
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	389		
3	3	78	11	160mm dia.	m	0		
3	3	79		Extra -over uPVC pipe for specials	Н3			
3	3	79	12	110mm 90 degree plain bend	m	3		
3	3	79	13	110mm 45 degree plain bend	m	2		
3	3	79	14	110mm 45 degree plain junction	m	1		
3	3	79	15	160mm 90 degree plain bend	m	0		
3	3	79	16	160mm 45 degree plain bend	m	0		
3	3	79	17	160mm 45 degree plain junction	m	0		
3	3	79		<u>MANHOLES</u>	H2			
3	3	79		Supply and construct pre-cast concrete manholes,	Н3			
				complete with cover and frame and step irons as per drawings within the following depth ranges (depth measured from invert level to top of the manhole)				
3	3	79		1000mm dia. Manholes	Н3			
3	3	79	18	up to 1.5m	No	9		
3	3	79	19	over 1.5m up to 2.0m	No	0		
3	3	79	20	over 2.0m up to 2.5m	No	0		
3	3	79	21	over 2.5m up to 3.0m	No	0		
3	3	79		BEDDING AND BACKFILLING (PIPES)	H2			
3	3	79		Provision of Bedding from Trench Excavation	Н3			
3	3	79	22	Selected granular material	m3	140		
3	3	79	23	Selected fill material	m3	233		
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 concrete plus anchor blocks, filling where ordered by the engineer	m3			
3	3	79		Mild steel reinforcement:	Н3			
3	3	79		Mild steel bars	kg			
3	3	79		High-Tensile Welded mesh	H3			
3	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	3	79	28	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		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
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		<u>TESTING</u>	H2			
3	3	79	33	Testing drainage pipe system	Item	1		
				SEWER RETICULATION	ST			
3	4	81		SECTION NO. 3				
3	4 4	81 81		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	1 159		
3	4	81	7	Intermidiate excavation	m3	42		
3	4	81	8	Hard excavation	m3	6		
3	4	81	9	Overhaul	m .km	1 207		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	4	81		SUBBASE	H2	٠	10.112	AMOORI
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	+	1		
					ι			
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	1 368		
3	4	82		Process base material by the following processes, as relevant and use in base	НЗ			
3	4	82	18	Stabilization	m3	1 368		
3	4	82		Stabilizing agent	Н3			
3	4	82	19	Ordinary Portland cement	t	98		
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		
		20						
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	2 600		
3	4	82	23	Supply and lay 80mm thick segmented paving blocks with 20mm sand	m2	1 960		
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	4 560		
3	4	82		KERBING AND CHANNELING	H2			
3	4	82	26	Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure 7	m	450		
3	4	82	27	Precast concrete kerbs Figure 5	m	375		
3	4	82		TESTING OF FILLING MATERIAL AND COMPACTION	H2			
3	4	82		GENERAL	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				

SEC.	рші	DC.	ITE**	DESCRIPTION	LINUT	ΛτV	DATE	AMOUAIT
SEC 3	BILL 4	PG 82	ITEM 28	DESCRIPTION Allow for testing of approved filling material in an approved	UNIT Item	QTY 1	RATE	AMOUNT
	T	<i>52</i>	0	laboratory according to S M T M method No A7, to establish the 100% modified AASHTO density thereof	Noill	,		
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)	ltem	1		
				BREAKING UP EXISTING PAVEMENT LAYERS				
3	4	83		Excavating and removing existing bituminous material				
3	4	83		(a) Material intended for recycling with the average depth of excavation				
3	4	83	30					
3	4	83	31	(ii)Exceeding 30mm but not exceeding 60mm	m2	0		
	·	33		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				
	·	33		(ii) Cemented material	m³	Rate Only	<u> </u> 	
3	4	83		Sawing or cutting asphalt or cemented pavement layers				
3	4	83		(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	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 compacted layers:				
3	5	85		(a) Base layer, 150mm thick	m³	О		
				Chemical stabilizing agent: (a) Ordinary portland cement	t	0		
3	5	85		(b) Slaked road lime	t	Rate		
3	5	85		Provision and application of water for auring		Only		
3	5	85		Provision and application of water for curing PRIME COAT	kl	0		
				Prime coat:				
					litre	0		
3	5	85			litre	Rate		
3	5	85		Aggregate for blinding	m²	Only Rate		
				naggregate for pilituing		Only		
3	5	85		Extra over item 41.01 for applying the prime coat in areas accessible only to hand held				
3	5	85		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		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	5	85		Rolled in chippings (9.5mm)	3	<u> </u>		3111
3	5	85		(a) in surfacing	t	Rate		
						Only		
3	5	85		Tack coat of 30% stable grade emulsion	litre	0		
3	5	85	1	ROADS AND PARKING	ST			
3	4	81		SECTION NO. 3				
3 3	4 4	81 81		BILL NO.5 STORMWATER DRAINAGE				
				<u>Preambles</u>	H4			
3	5	85			117			
				Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	5	85	2					
3	5	85	3	SUPPLEMENTARY PREAMBLES	H4			
3	5	85		Items, materials or methods	H4			
3	5	85		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the				
		85	A	quality required. The use of trade names for items, materials or				
3	5		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	H4			
			_	Descriptions of gutter outlets, etc shall be deemed to include wire balloon gratings				
3	5	85	7		Шл			
				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	H4			
3	5	86	10	EARTHWORKS (OPEN CHANNEL)	H2			
	_	00		EXCAVATION	Н3			
3	5	86		Excavate in all materials for trenches, backfill, compact and	m3	589		
3	5	86		dispose of surplus material for stormwater channel				
3	5	86		Extra-over item (a) above for:	Н3			
3	5	86	12	Intermidiate excavation	m3	265		
3	5	86		Hard rock excavation	m3	88		
3	5	υu		TIAIR TOOK CAGAVARION	IIIO	UU		
				BEDDING AND BACKFILLING	H2			
3	5	86	13	Provision of Bedding from Trench Excavation	Н3			
3	5	86	14	Selected granular material for bedding	m3			
3	5	86	15	Selected fill material and backfilling	m3			
3	5	86						
3	5	86		WORK GROUP 146	H4			
				CONCRETE AND REINFORCEMENT	H4			
				Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced	m2	442		
				Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm	m3	44		
3	5	86	16	concrete plus anchor blocks, filling where ordered by the engineer				
				High-Tensile Welded mesh	Н3			
				Ref. 245 welded mesh in floor slab	m2	442		
3	5	86	17	Ref. 617 welded mesh in floor slab	m2	<u>-</u>		
				prof. o 17 woldod moon in hour olab	1114			

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
						,		
3	5	86		Mild steel bars	kg			
3	5	86	18	CONCRETE PIPES	H4			
				Supply, lay and bed pipes complete with couplings	Н3			
				450mm Diameter C50	m	120		
				600mm Diameter C50	m	75		
	_			ooonin Diameter C50	111	75		
3	5	86		Supply and lay RS40 Grating Unbanded and	Н3			
3	5	86		Banded Rectagrid or similar approved Grid for Storm water drainage				
					NI-	0		
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						
3	6	88		In-situ 20 MPa/19mm Concrete open stormwater channels finished on all exposed surfaces with woodfloat finish and	Н3			
3	6	88		with angles rounded, cast in approximately 2m lengths with construction joints and expansion joints formed with				
		00		Flexcell joint filler and sealed with bitumastic joint sealant				
				at 6m intervals, including all formwork, moulds, shallow excavations and filling and laying to falls				
3	6	88		V-shaped channel 1200mm wide, 105mm (average) thick and 50	m	275		
3	6	88		mm deep (concrete = 0,10 m /m) next to existing wall and	111	213		
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,	No			
				junctions, ends, etc				
3	6	88		Stormwater outlet spreader, culvert headwall, etc.	Н3			
3	6	88		Concrete 20MPa/19mm in spreader outlet 2,0m long and x	No	1		
				2,0m wide at open end with 100 x 50mm projecting kerbs along	140	'		
3	6	88		both sides and bricks cast in at 300mm centres and 150mm apart to project 50mm above 75mmm concrete surface bed,				
3	6	88	1	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	Н3			
3	6	88		stones tightly packed including preparation of ground surface under, top soil filling and planted with grass				
3	6	88			 0	75		
				150mm Thick lining to open ends of outfall spreaders, ditches, etc.	m2	75		
3	6	88		STORMWATER DRAINAGE	ST			
<u> </u>	, -				<u> </u>			<u> </u>

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	6	88		SECTION NO. 3	51411	≪ ::	NAI E	, 0111
				BILL NO.6				
	6	90		FENCING AND LANDSCAPING				
3	6	89		<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.				
		03	3					
				SUPPLEMENTARY PREAMBLES	H4			
3	6	89	4	ltama madaviala ay mathada	114			
				ltems, 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 methods shall also mean - or other approved - on the condition				
3	6	89		that prior approval is obtained from the architect.				
3	6	89	6	WORK CROUD 124	H4			
				WORK GROUP 124	П 4			
3	7	92	1					
	_			GALVANIZED STEEL PALISADE FENCING	H2			
3	7	92	2	Palisade fencing, consisting of 75 x 75 x 4mm posts with	H3			
3	7	92	3	230 x 230mm foot plate welded on, 50 x 50 x 5mm angle				
				section top and bottom rail, filled in with 40 x 40 x 4mm				
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	Country and in stall 0400 and high families				
				Supply and install 2400mm high fencing	m			
				Supply and install 2100mm high fencing	m			
				Supply and install 1800mm high fencing	m	1 175		
				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,				
				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)				
				Sliding gate 6000m wide x 2454mm high complete with rollers	No	1		
				and v-track including 600mm extension on top for razor wire				
				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			
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LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	FINAL SUMMARY			
Section No		Page No		Amount
1	PRELIMINARIES AND GENERAL	1/30		
2	3 CLASSROOM BLOCK X 2	2/39		
3	4 CLASSROOM BLOCK	3/39		
4	10 SEATS ENVIROLOO TOILET BLOCK	4/41		
5	4 SEATER ENVIROLOO TOILET BLOCK	5/41		
6	MEDIUM ADMINISTRATION BLOCK	6/43		
7	3 CLASSROOM GRADE R BLOCK	7/42		
8	4 SEATS WATERBORNE TOILET BLOCK X 2	8/38		
9	RENOVATIONS (12 CLASSROOMS AND 24 WATERBORNE TOILET SEATS))	9/43		
10	PROVISIONAL SUMS	10/7		
	Sub- Total (PART A - MAIN BUILDING WORKS)		R	
	PART B - ELECTRICAL WORK			
	TENDER AMOUNT CARRIED OVER FROM PART B (ELECTRICAL 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 900 000.00 (One Million Nine 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		Page		Amount	
No	Bussiaht Familia	No			
	Brought Forward		R		
	PRICE ADJUSTMENT FOR INFLATION TO				
	THE CONTRACT				
	Inflation:				
	Allow an amount of R2 000 000.00 (Two Million) for				
	price adjustment for inflation.	.,			
		Item			
	Cub. Total Evaluating MAT				
	Sub- Total Excluding VAT		R		
	Tax		R		
	Carried to Form of Tender		R		

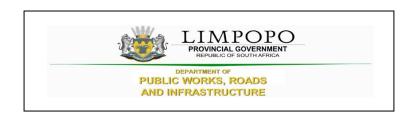
PART C3 SCOPE OF WORKS



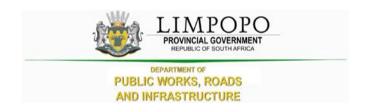
PART C3.1: SPECIAL NOTES TO BIDDERS

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

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



PART C3.2: OHS SPECIFICATIONS



PART C4 SITE INFORMATION



C4.1 DRAWINGS

FINISHES LEGEND

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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.

600 x 600 x10mm thick matt porcelain tile to comply with SAB\$ 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 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.

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.

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

F9: GRAVEL FINISH ON SAND LAYER

"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.

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.

S3: CEMENT SAND SCREED 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

WALL FINISHES:

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

floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

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

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 Scale 1:100.

CEILING PLAN:

Scale 1:100.

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 files to Comply with SABS 22 or Latest revision, 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. 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 otches 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:

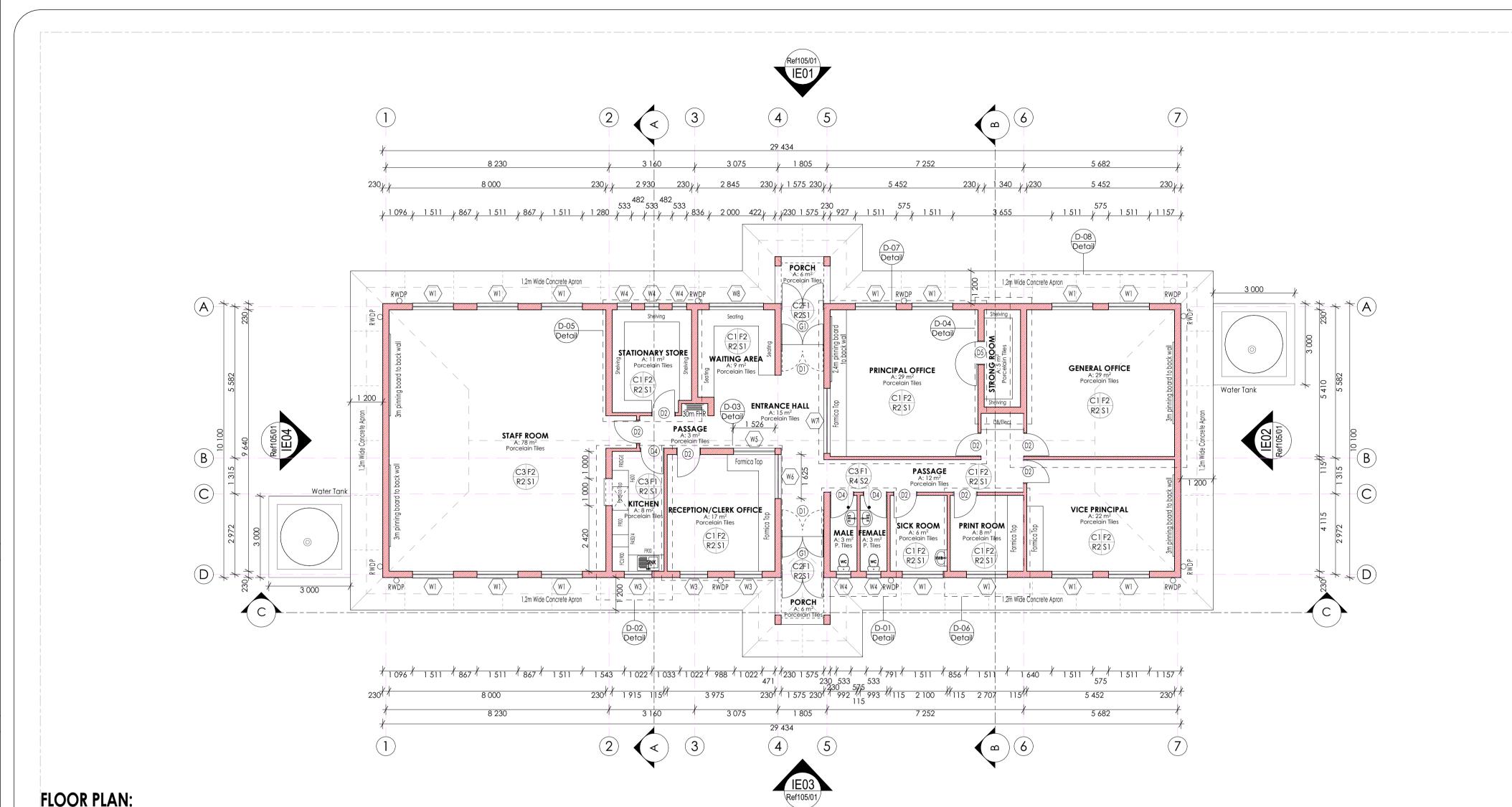
ER1: EMBOSSED ROOFING SHEET (TWO SIDES) **Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

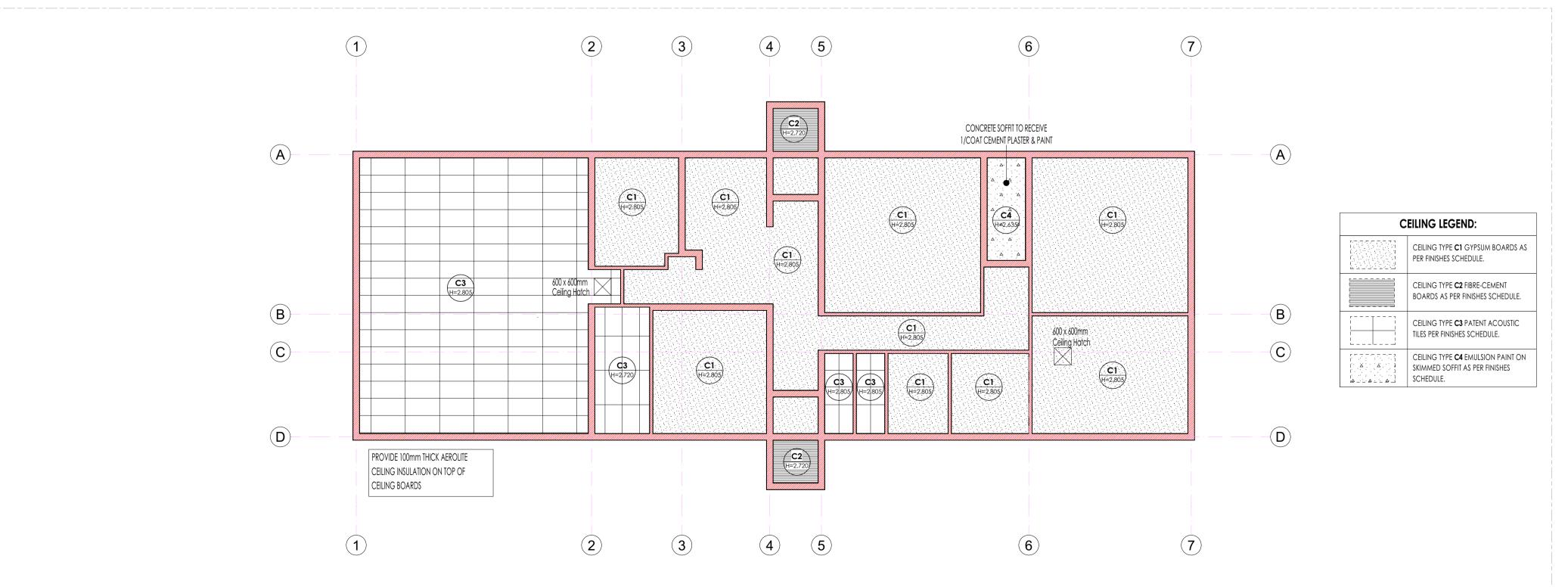
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

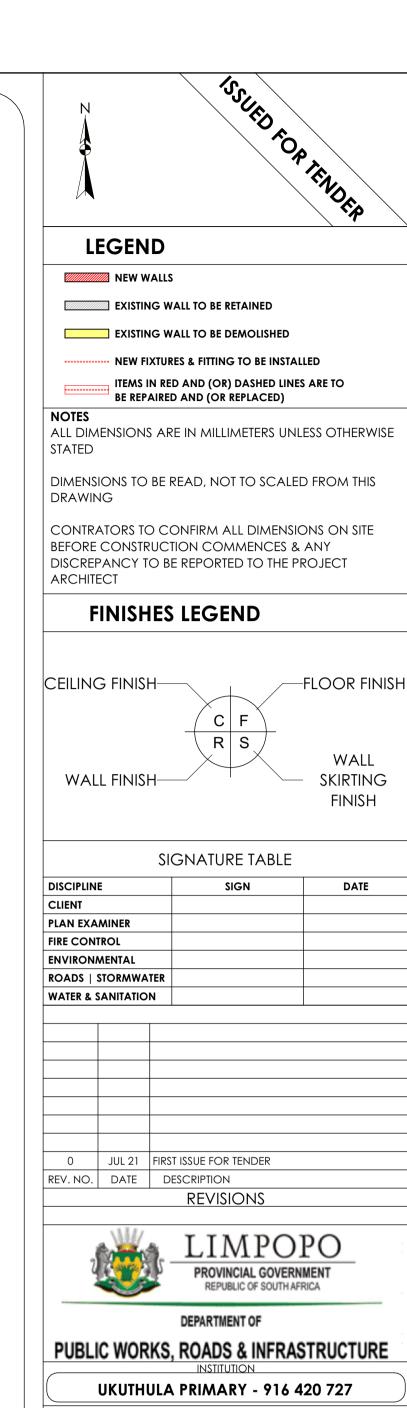
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm 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 2275 Galvanising To

Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into 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

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.









UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT ARCHITECTURAL

WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION

101-01 01/10 AS -SHOWN PR. NUMBER NOV 2019 T. MANYADZA 43981757 DRAWING CO-ORDINATED

FLOOR PLAN & CEILING LAYOUT



www.tecturail.com LSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

AUTOCAD LDPW - PROF/16002/F09

FINISHES LEGEND

EI OODS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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.

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 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.

FA: 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 povers 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.

FA: 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. 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.

S3: CEMENT SAND SCREED

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 2 no. coats of PVA matt finish emulsion paint to SABS 1586 appli

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

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.

applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be

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 \$" 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 \$AN\$ 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 Slah" 3No. coats

"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

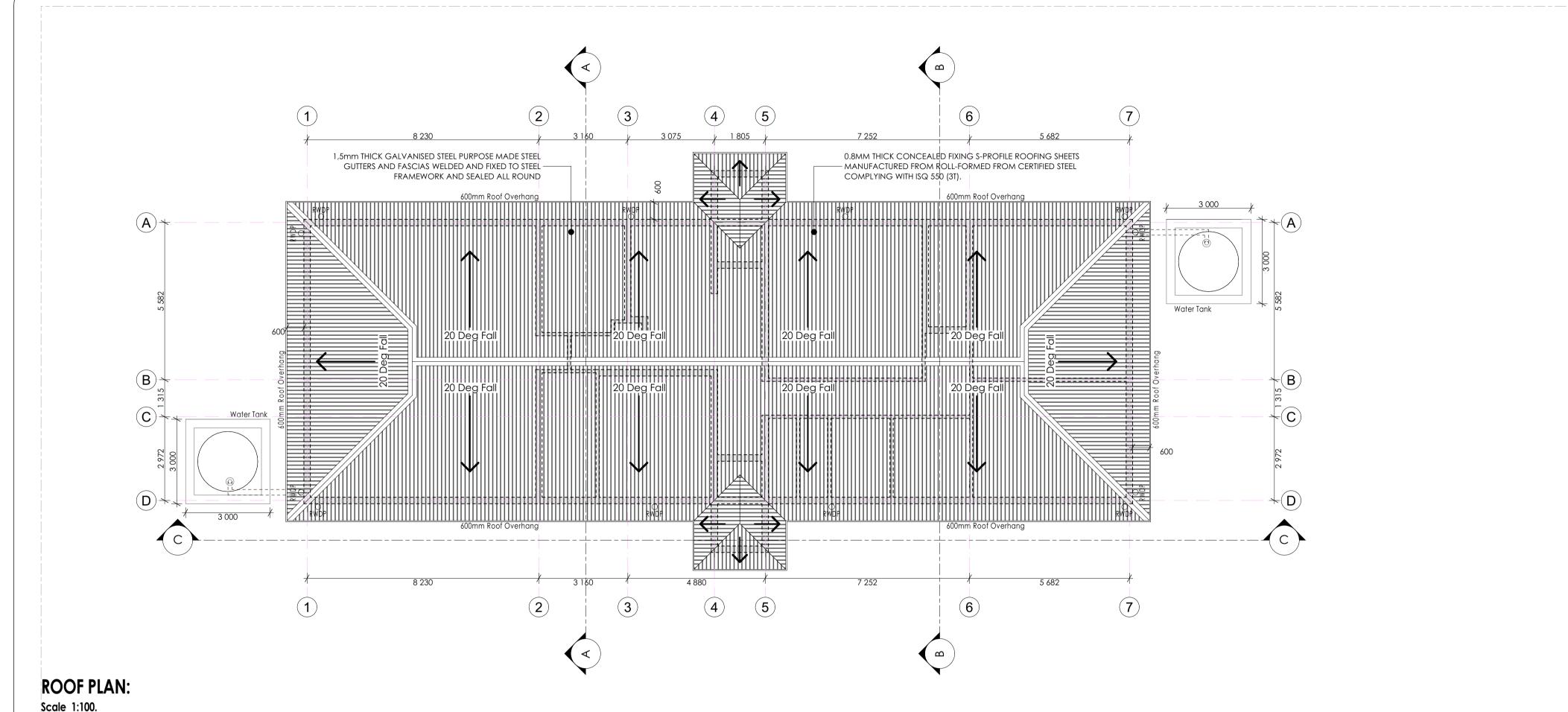
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

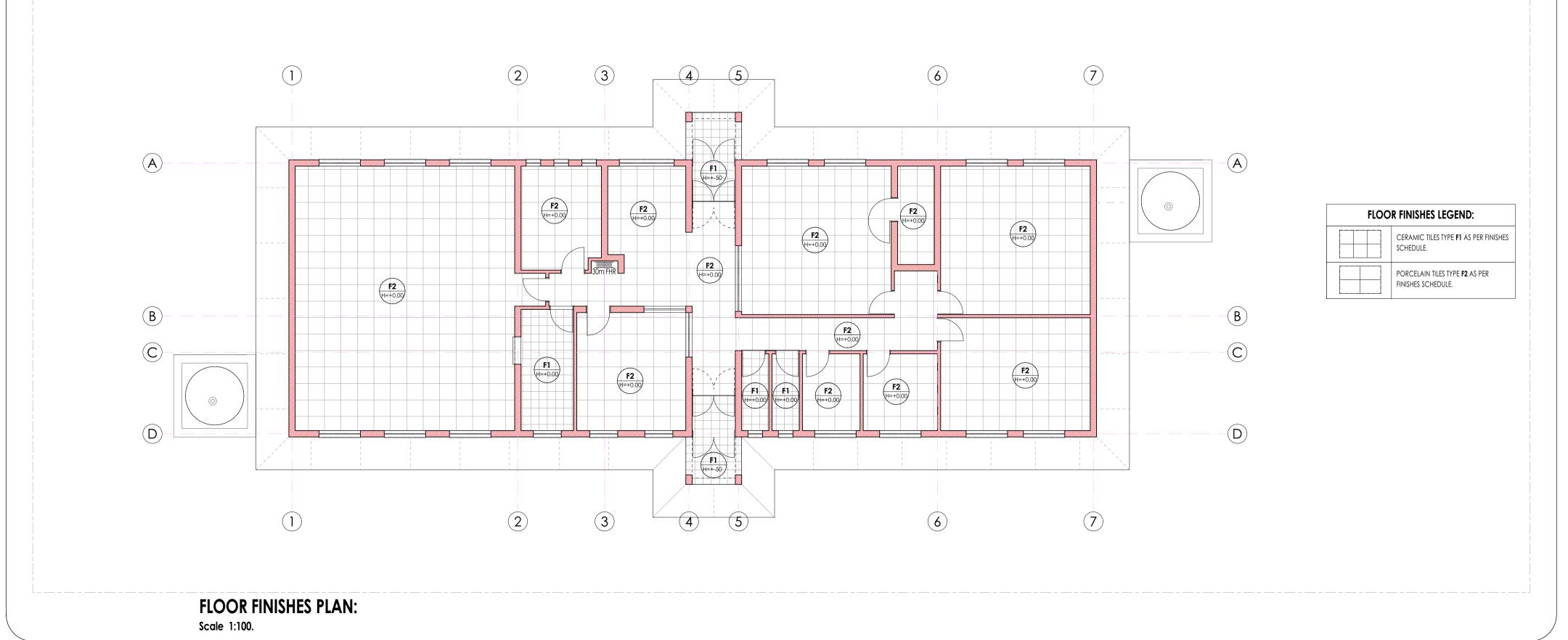
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

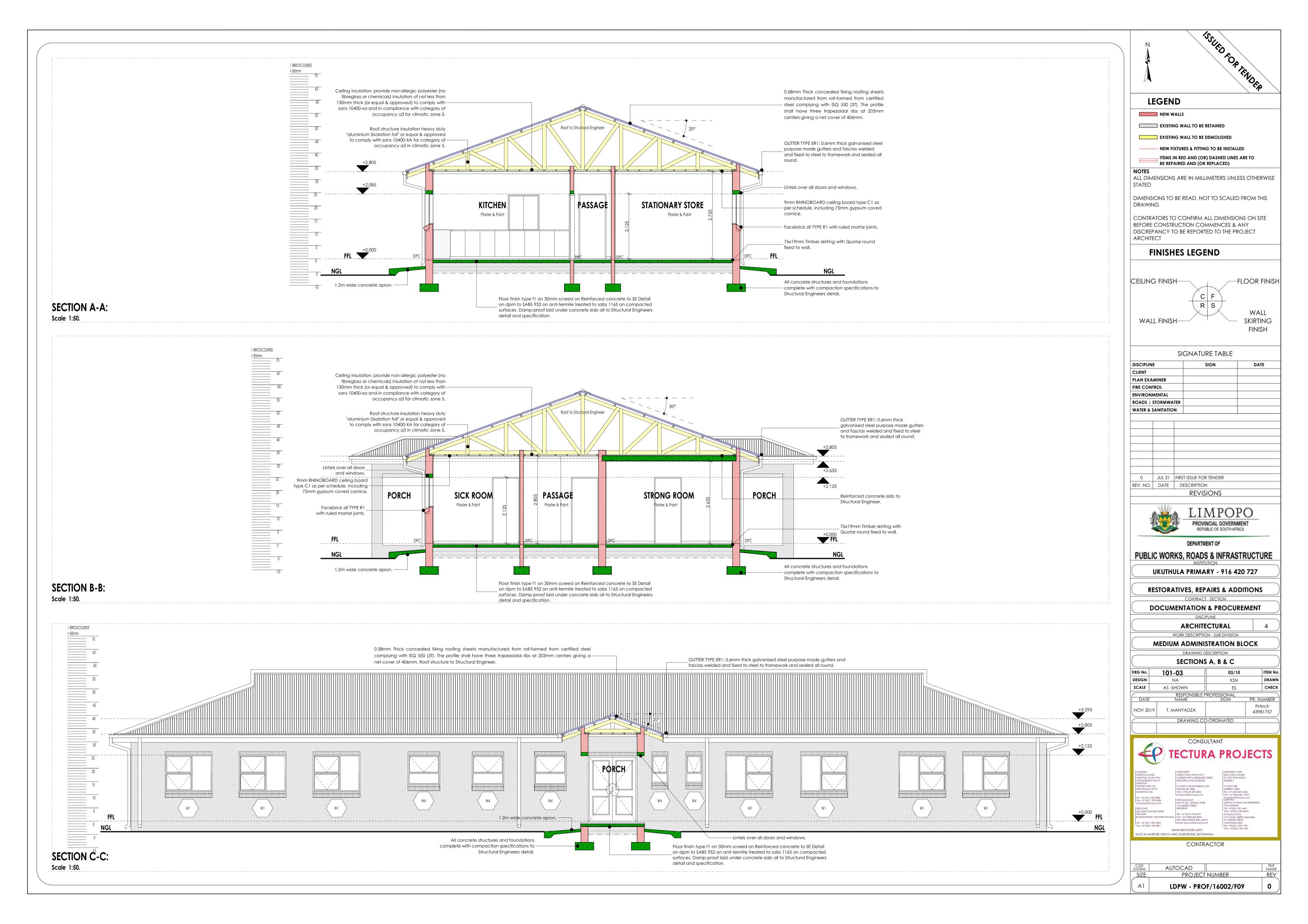
Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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

F2: PORCELAIN TILES -MATT

and pattern to architects approval.

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 SCRE

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.

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.

S3: CEMENT SAND SCREED

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.

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) PAINLOK 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.

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

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

Rainwater Downpipes.

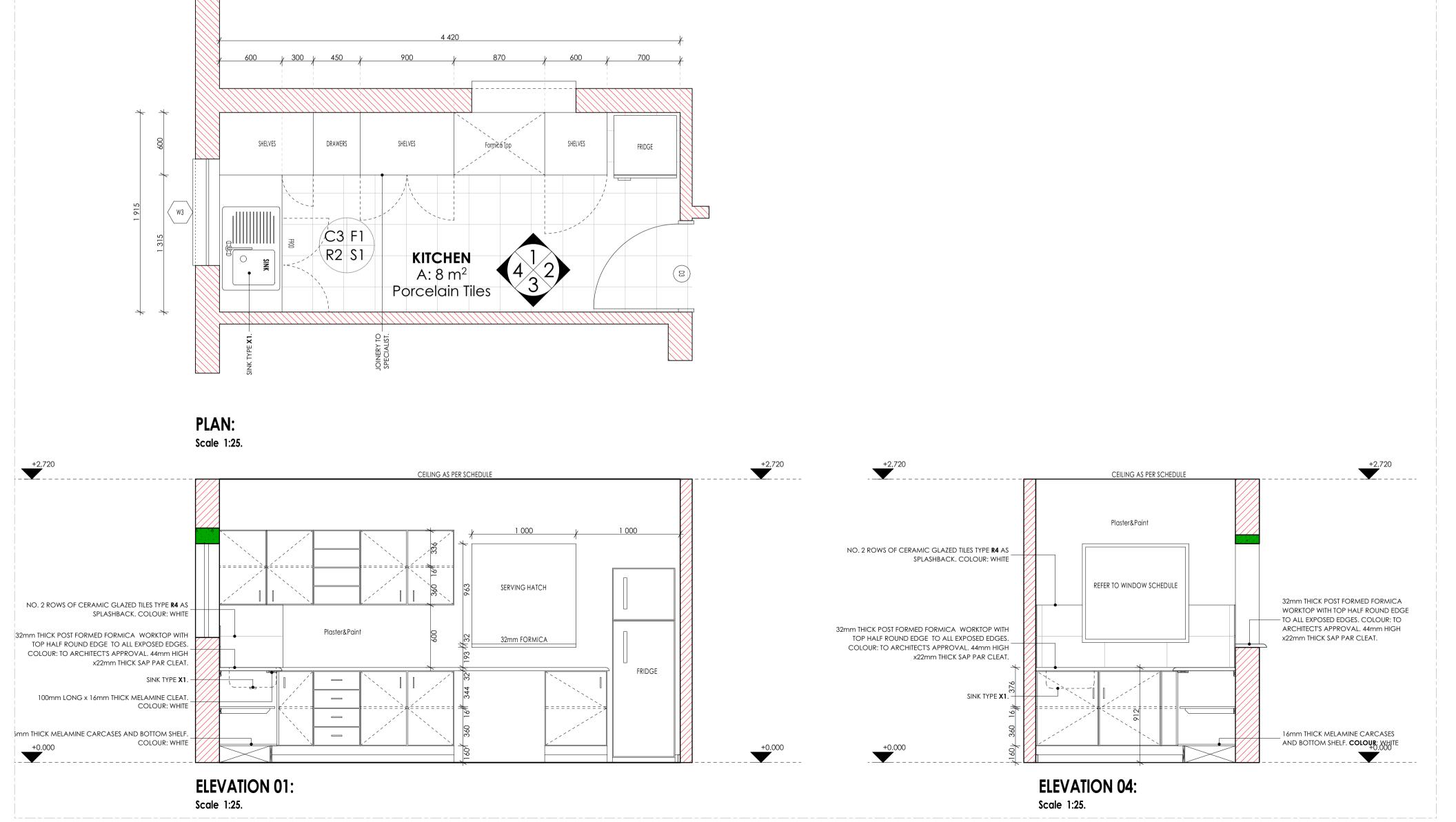
<u>Downpipe:</u> 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To

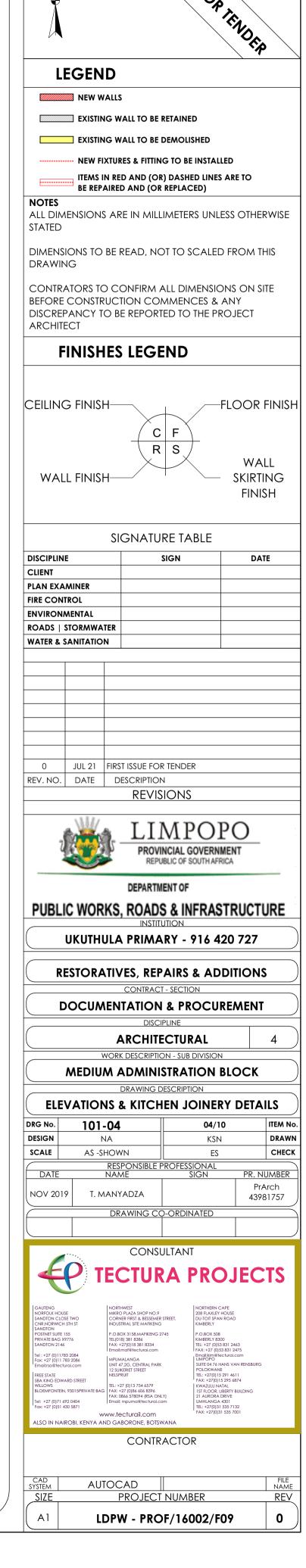
Manufacturer Installation Instructions.

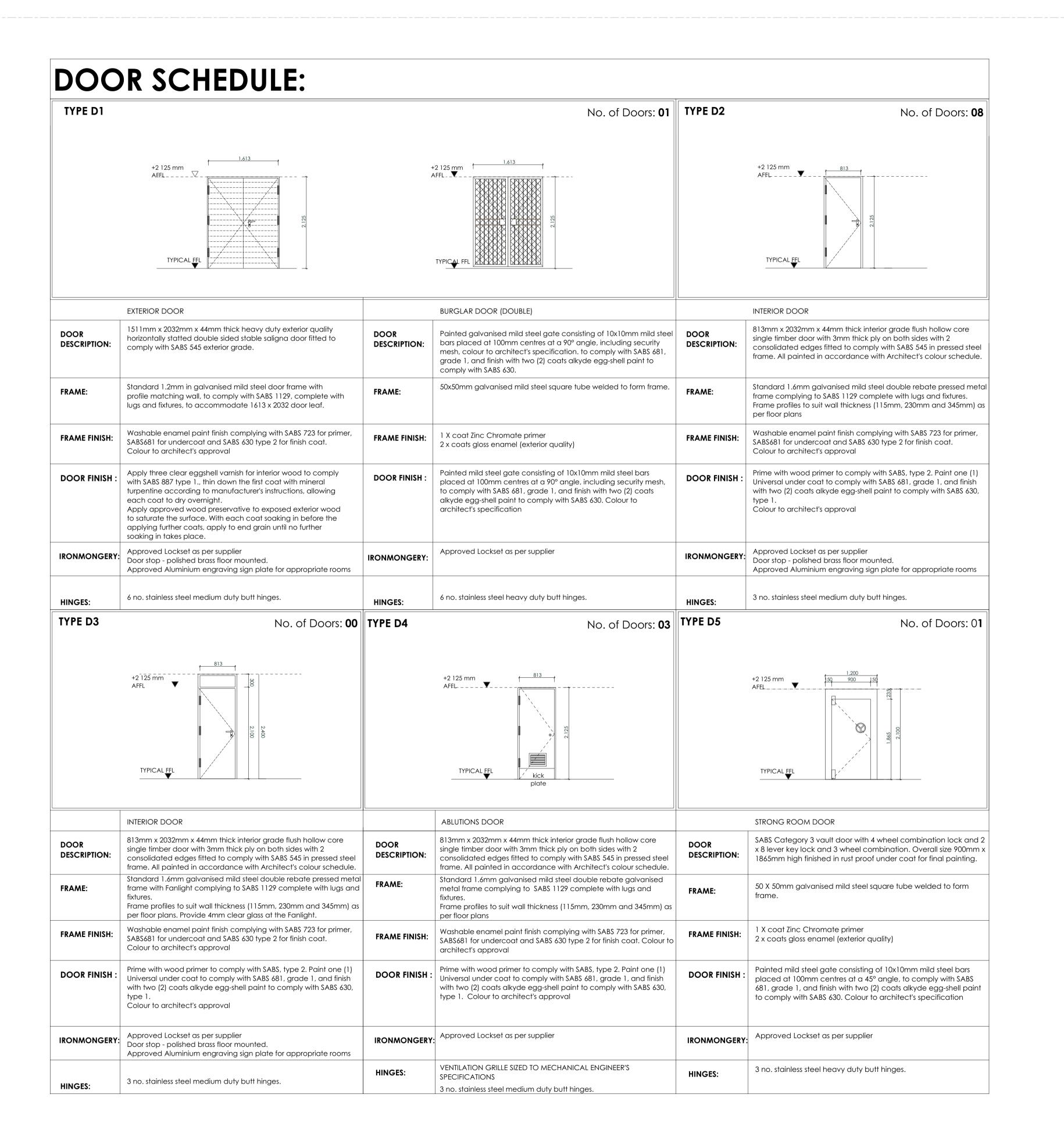
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws.

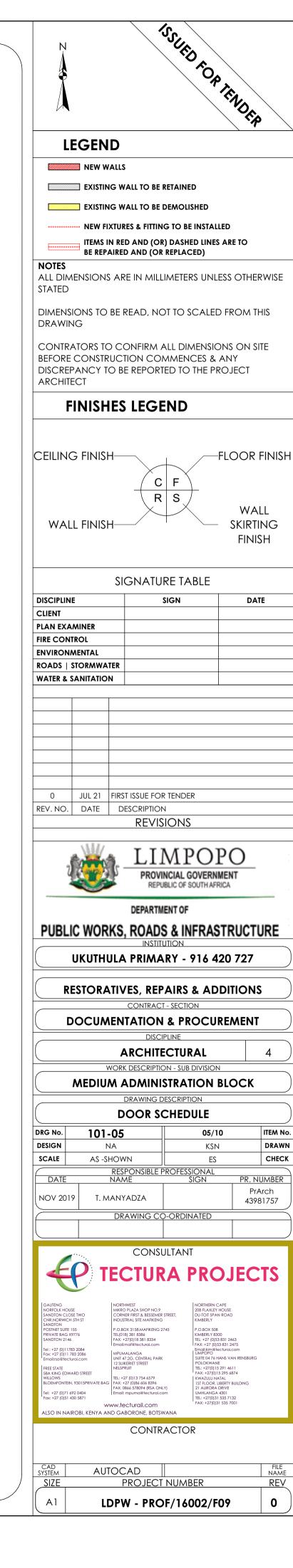
Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

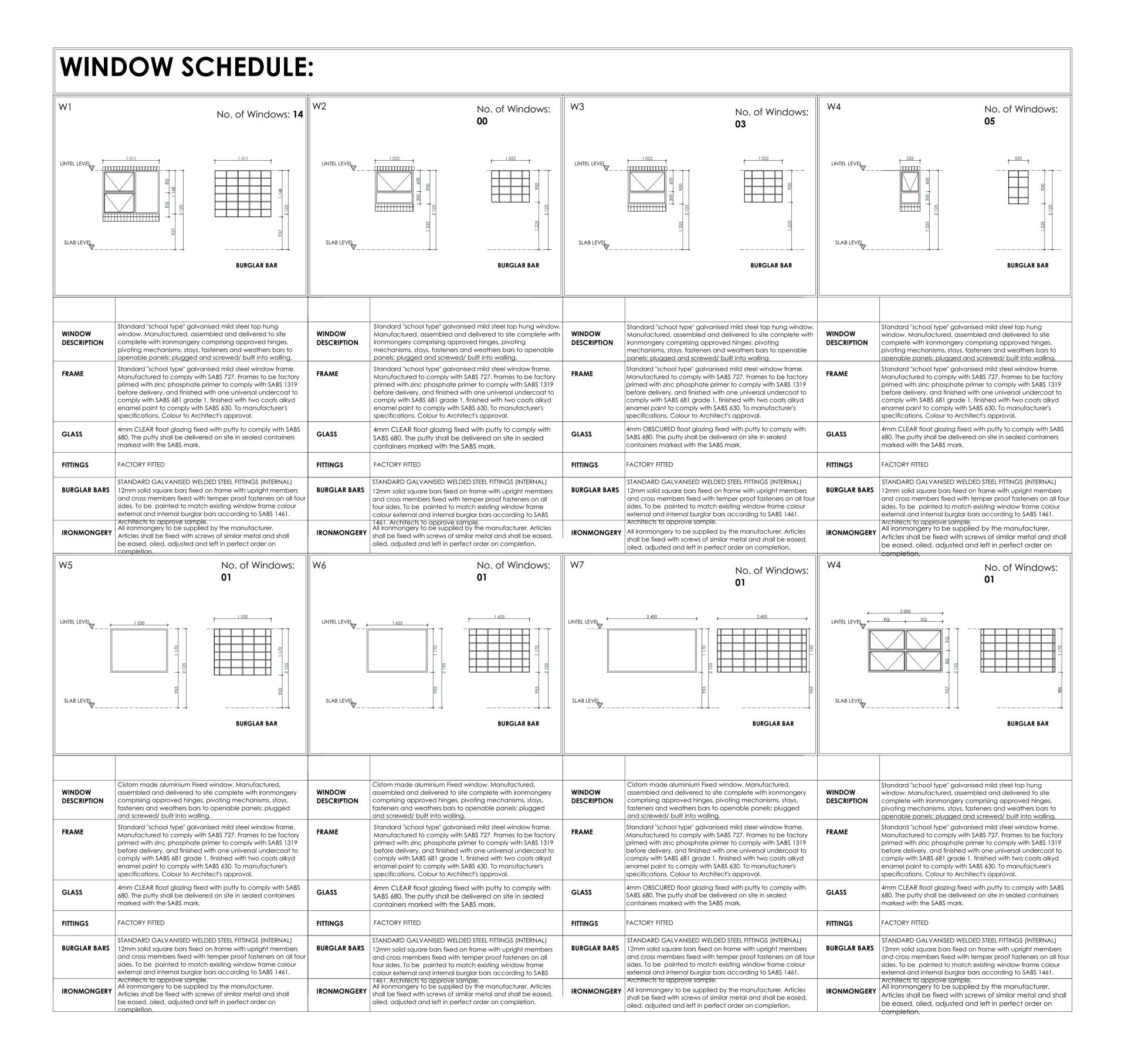


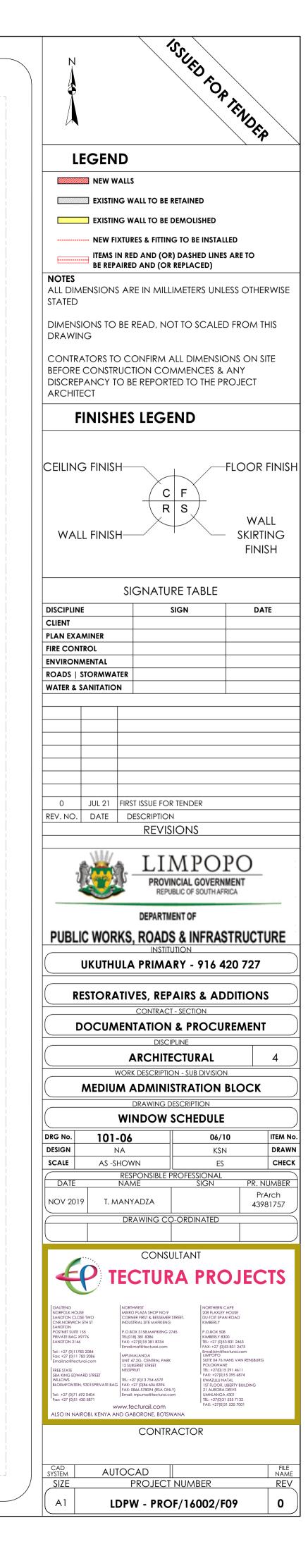












SANITARY SCHEDULE

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 "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

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

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.

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) 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.

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.

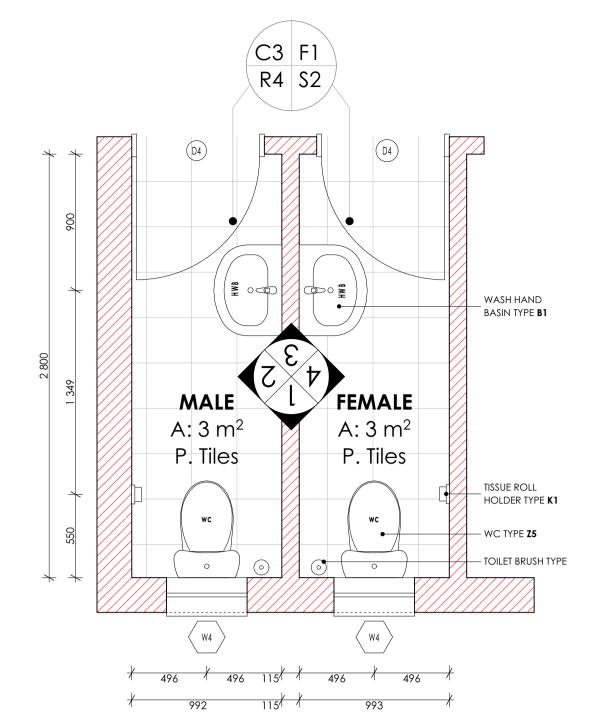
G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

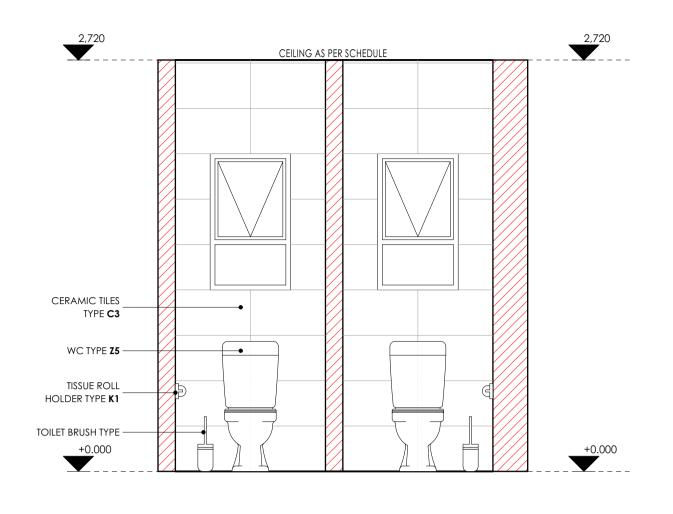
G7: SS FLOOR EXPANSION JOINT COVER

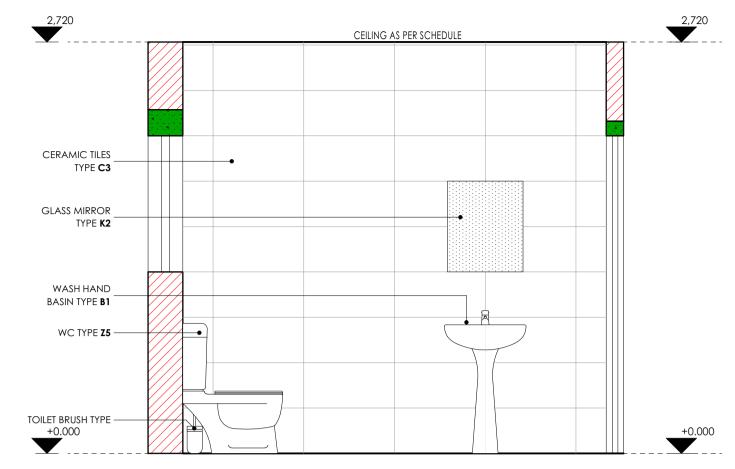
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

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.



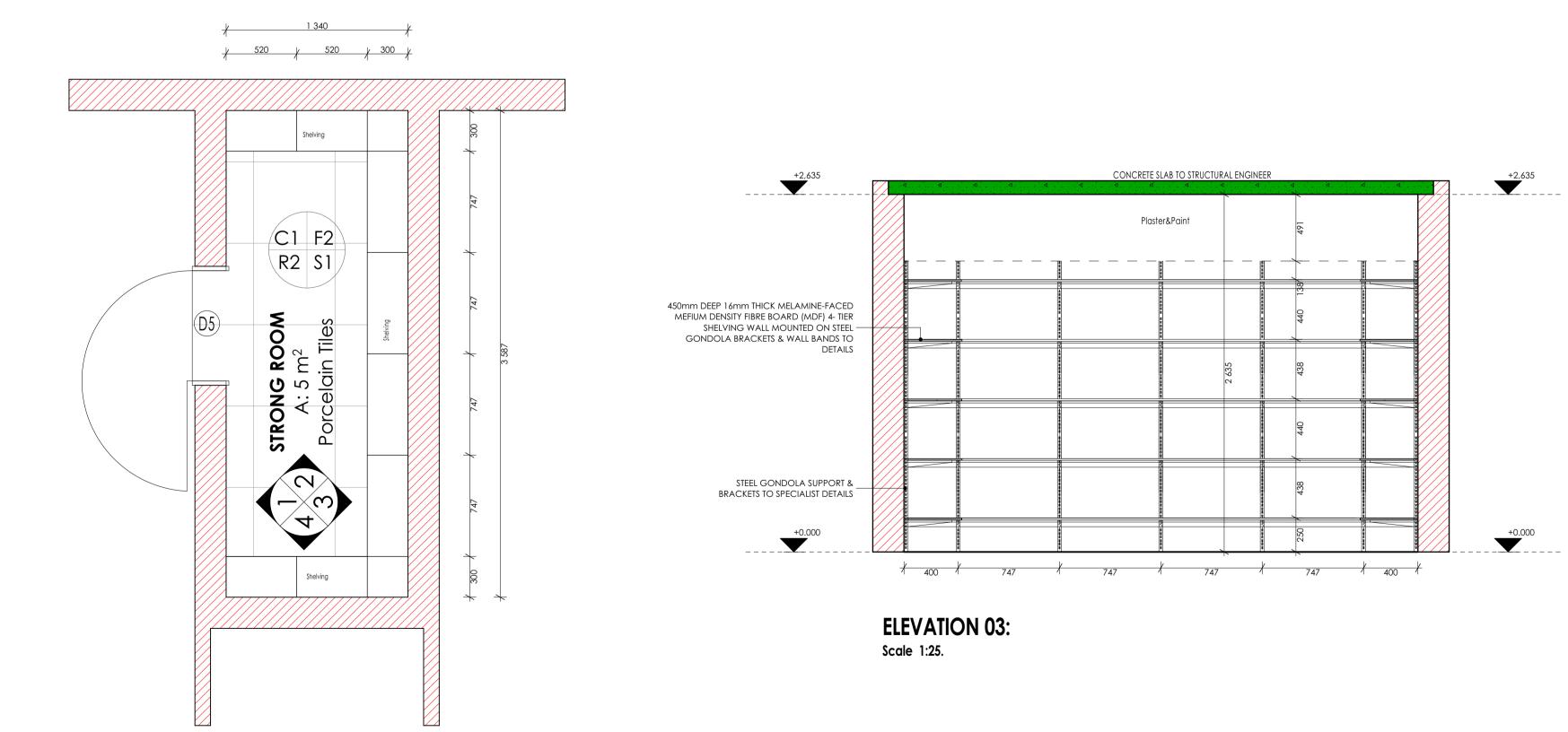




ABLUTIONS PLAN: Scale 1:25.

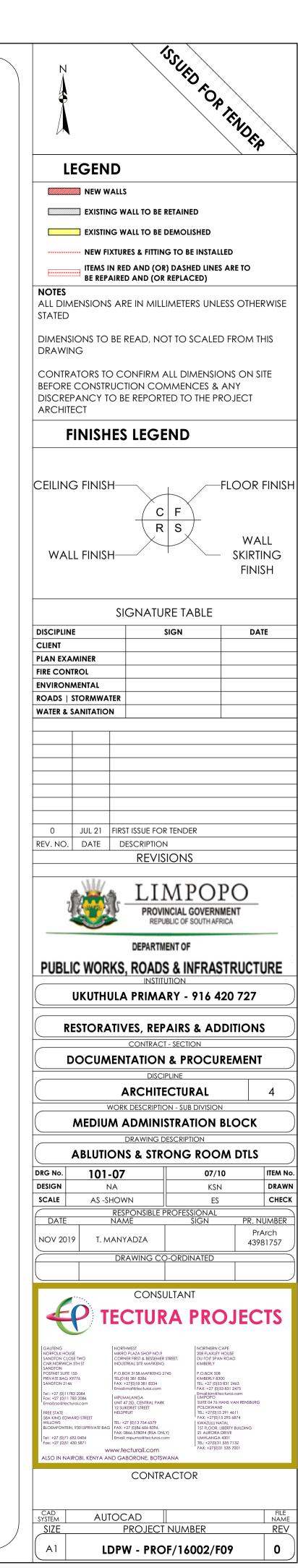
ELEVATION 01: Scale 1:25.

ELEVATION 02: Scale 1:25.



STRONG ROOM PLAN:

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

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-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.

flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)

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

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

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.

manufacturer's specifications.

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.

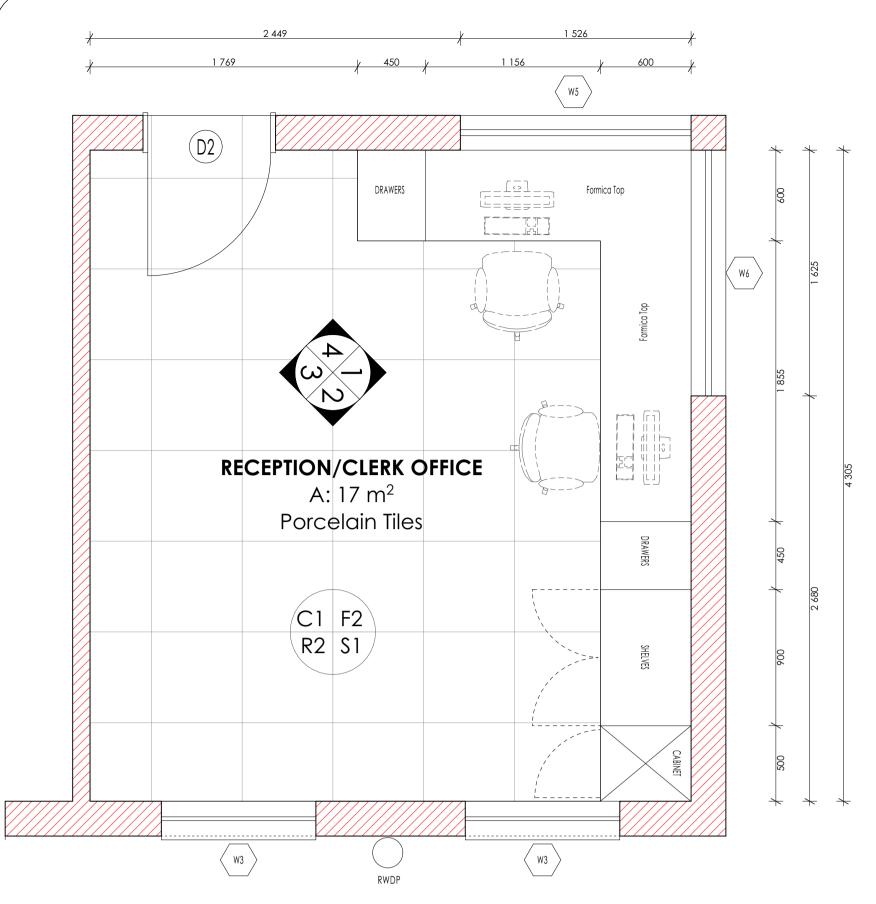
G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

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.



PRINT ROOM

A: 8 m^2

Porcelain Tiles

C1 F2

R2 S1

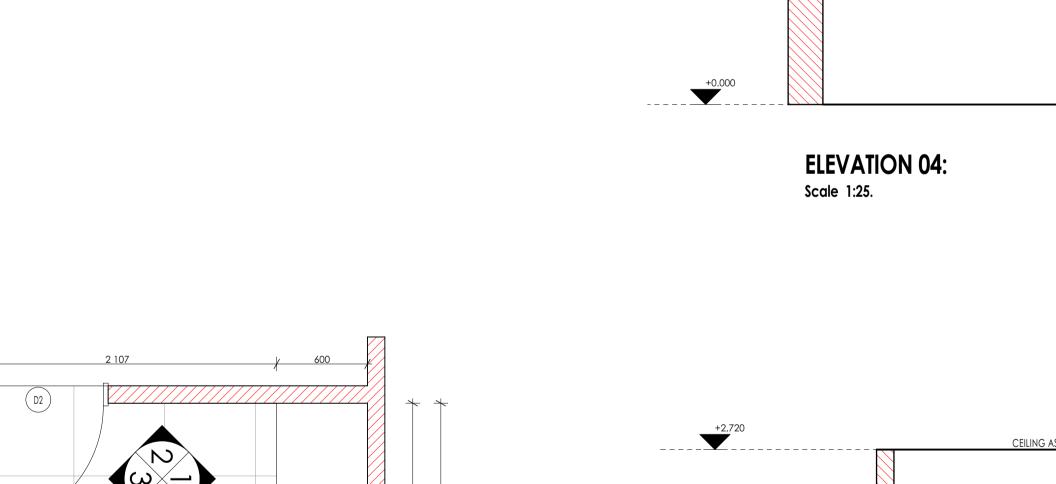
PRINT ROOM PLAN:

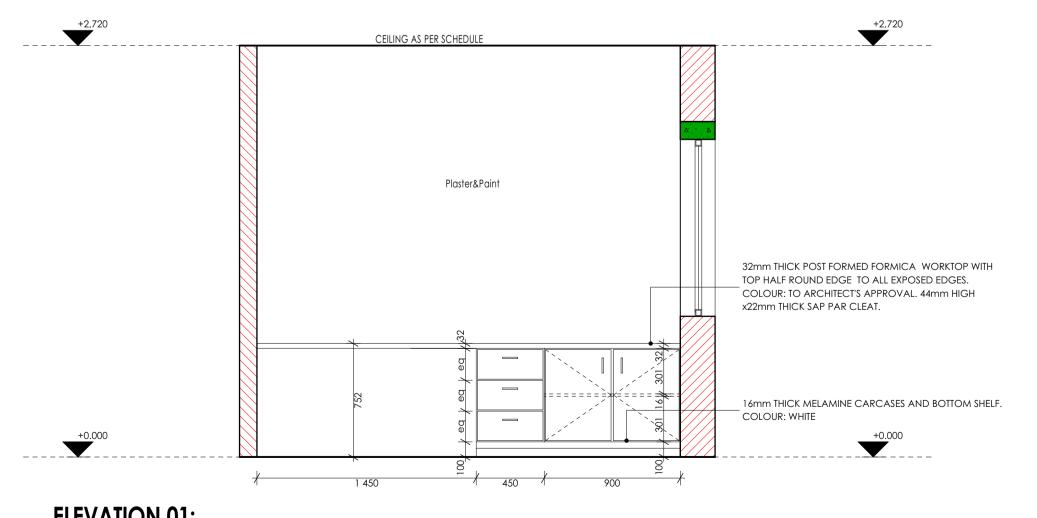
Scale 1:25.

8

Plaster&Paint 32mm THICK POST FORMED FORMICA WORKTOP WITH TOP HALF ROUND EDGE TO ALL EXPOSED EDGES. COLOUR: -WHITE GRANITE OR EQUAL AND APPROVED, 44mm HIGH x22mm THICK SAP PAR CLEAT. WMB500 STEEL WALL MOUNTED BRACKET. / 600 / **ELEVATION 01:** Scale 1:25. CEILING AS PER SCHEDULE Plaster&Paint W5







ELEVATION 01: Scale 1:25.

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE **ARCHITECTURAL** WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION RCPTN/CLK OFC. | PRINT RM. JOINERY DTLS 101-08 SCALE AS -SHOWN NOV 2019 T. MANYADZA DRAWING CO-ORDINATED CONSULTANT

www.tecturail.com

CONTRACTOR

PROJECT NUMBER

LDPW - PROF/16002/F09

LSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

AUTOCAD

0 JUL 21 FIRST ISSUE FOR TENDER

REPUBLIC OF SOUTH AFRICA

REV. NO. DATE DESCRIPTION

LEGEND

EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE

SIGNATURE TABLE

-FLOOR FINISH

SKIRTING

FINISH

DATE

CHECK

PR. NUMBER

43981757

BEFORE CONSTRUCTION COMMENCES & ANY

FINISHES LEGEND

DISCREPANCY TO BE REPORTED TO THE PROJECT

BE REPAIRED AND (OR REPLACED)

ITEMS IN RED AND (OR) DASHED LINES ARE TO

MEW WALLS

DRAWING

ARCHITECT

CEILING FINISH—

WALL FINISH

DISCIPLINE

PLAN EXAMINER

FIRE CONTROL

ENVIRONMENTAL

ROADS | STORMWATER

WATER & SANITATION

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

+0.000

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

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 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. **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.

accordance to the manufacturer's instructions.

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

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

VOID VOID DRAWERS STATIONARY STORE A: 11 m² Porcelain Tiles C1 F2

CEILING AS PER SCHEDULE Plaster&Paint 32mm THICK POST FORMED FORMICA WORKTOP WITH TOP HALF ROUND EDGE TO ALL EXPOSED EDGES. COLOUR: TO ARCHITECT'S APPROVAL. 44mm HIGH x22mm THICK SAP PAR CLEAT. 100mm LONG x 16mm THICK MELAMINE CLEAT. COLOUR: WHITE 16mm THICK MELAMINE CARCASES AND BOTTOM SHELF. COLOUR: WHITE

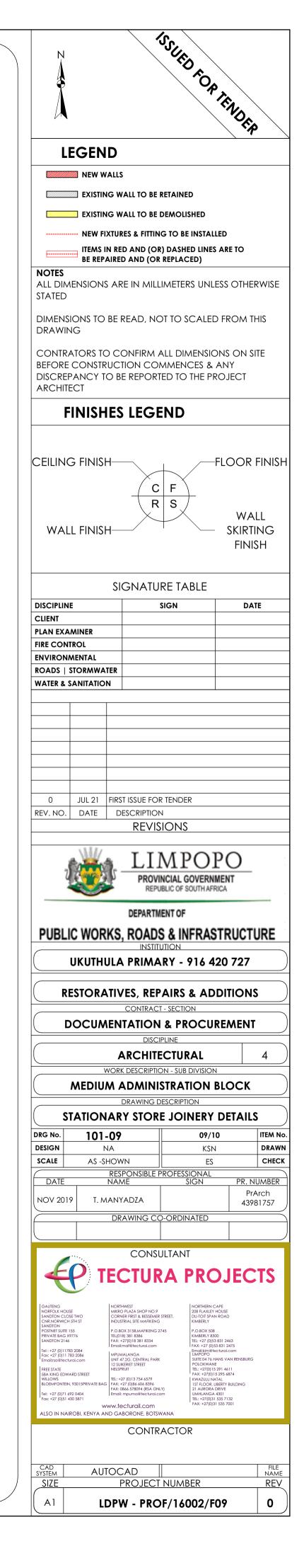
ELEVATION 01:

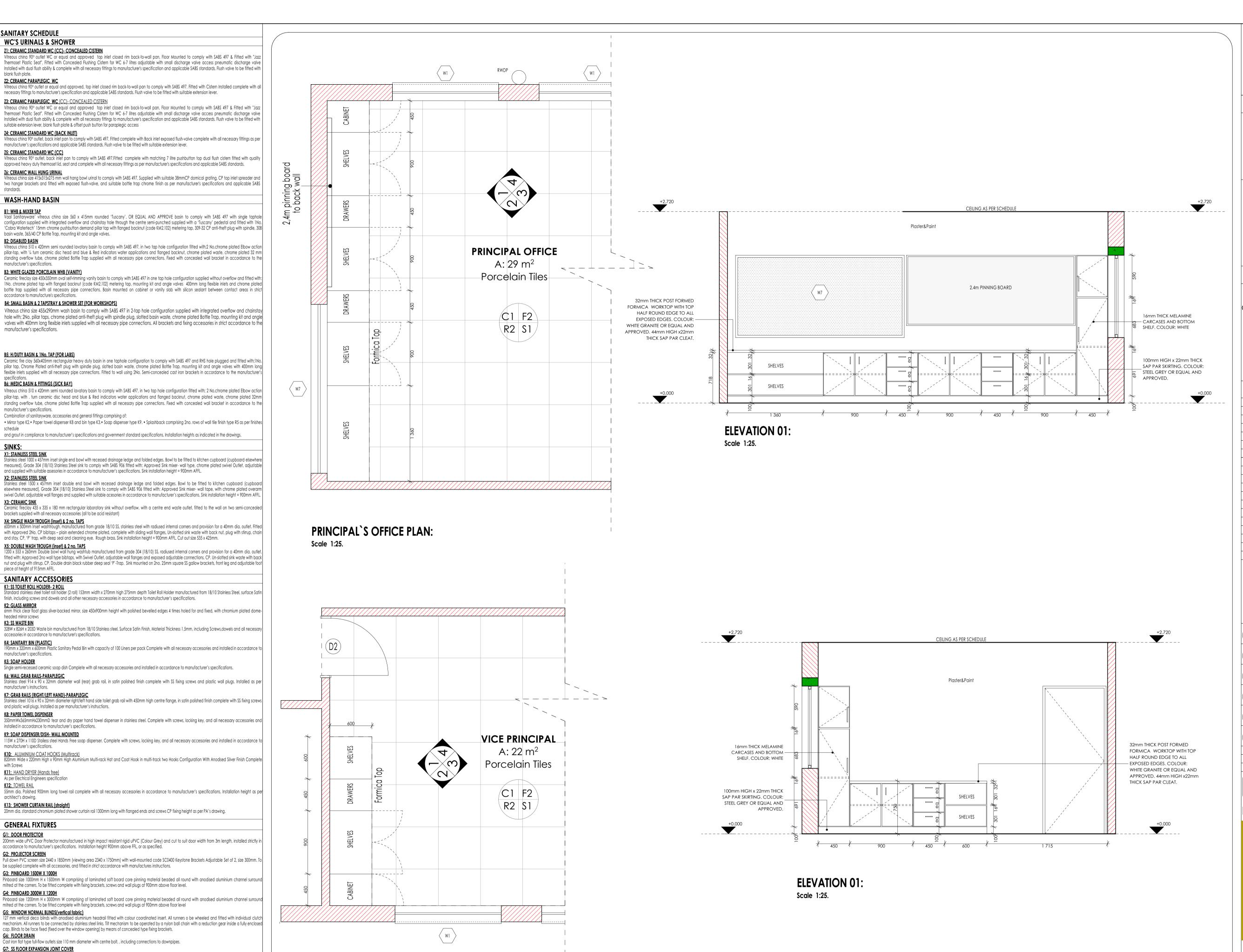
STATIONARY STORE PLAN:

Scale 1:25.

CEILING AS PER SCHEDULE Plaster&Pain 450mm DEEP 16mm THICK MELAMINE-FACED MEFIUM DENSITY FIBRE BOARD (MDE) 4- TIER SHELVING WALL MOUNTED ON STEEL GONDOLA BRACKETS & WALL BANDS TO DETAILS 32mm THICK POST FORMED FORMICA WORKTOP WITH TOP HALF ROUND EDGE TO ALL EXPOSED EDGES. COLOUR: TO ARCHITECT'S APPROVAL. 44mm HIGH x22mm THICK SAP PAR STEEL GONDOLA SUPPORT & BRACKETS TO SPECIALIST DETAILS 1 790 1 450 1 900 1 790 1

ELEVATION 02: Scale 1:25.





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

/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

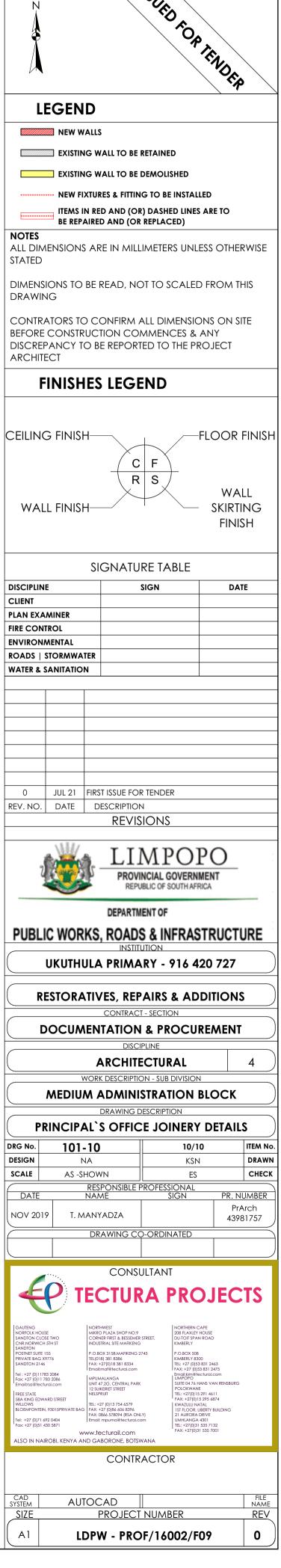
joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR

accordance to the manufacturer's instructions.

VICE PRINCIPAL'S OFFICE PLAN:

Scale 1:25.



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 \$AB\$ 1449 laid on approved pattern by an approved specialist to comply with \$AB\$ 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and \$AB\$ 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 files 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.

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 \$AB\$ 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

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

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 thic

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

 ${\it FBX face brick in common running bond to comply with SABS~227~and forming~part~of~the~structural~work.}$

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.

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

"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)

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

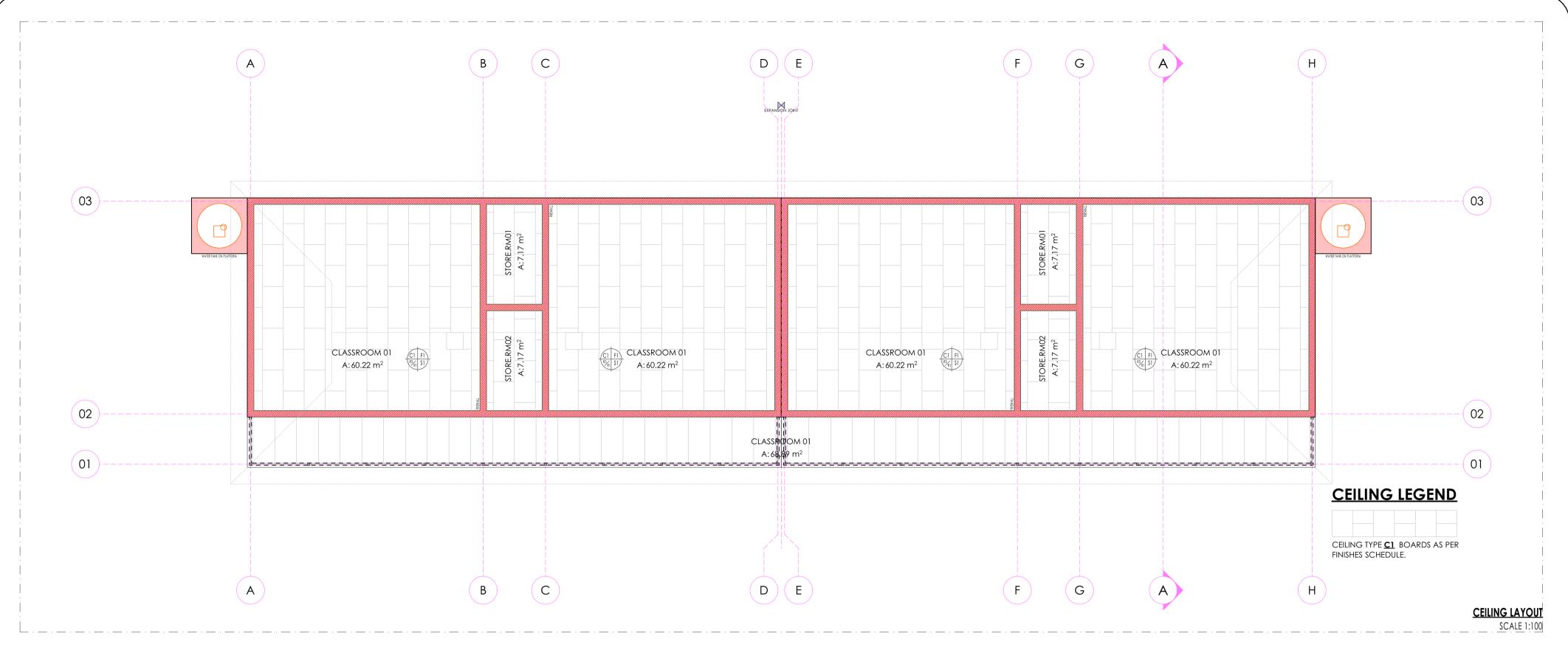
compliance to manufacturer's instructions.

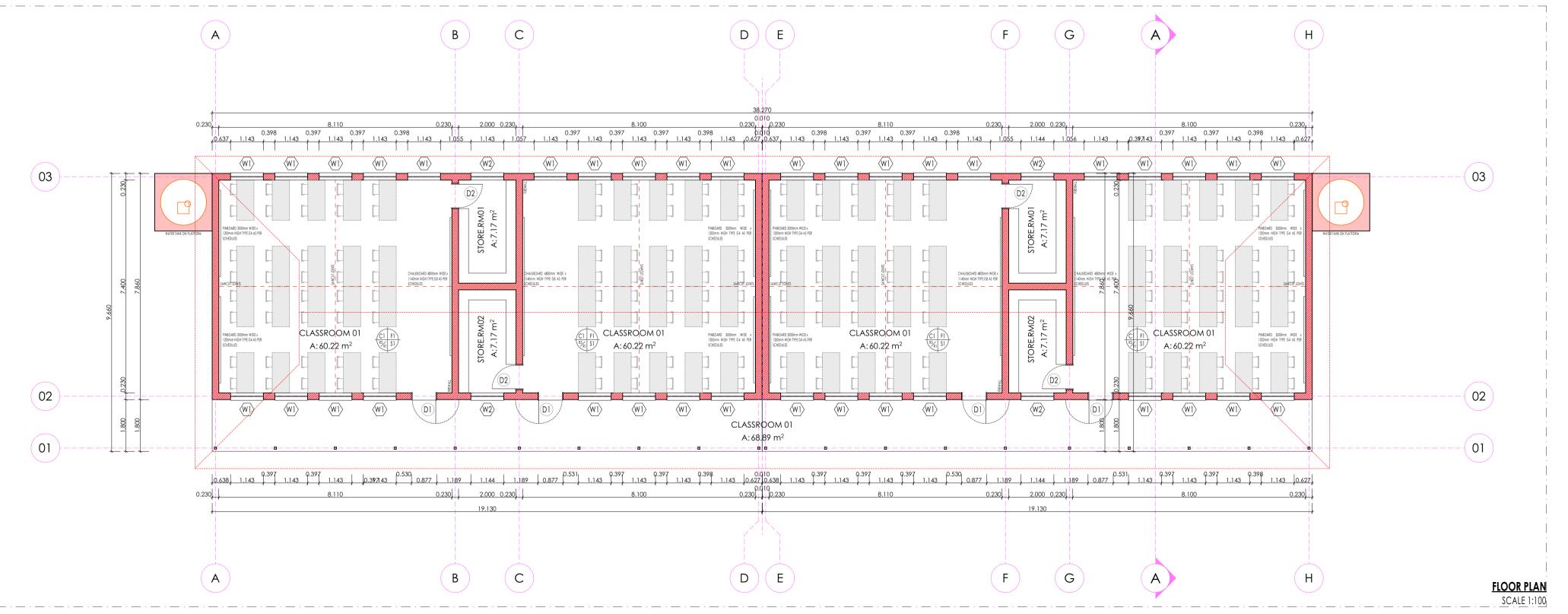
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

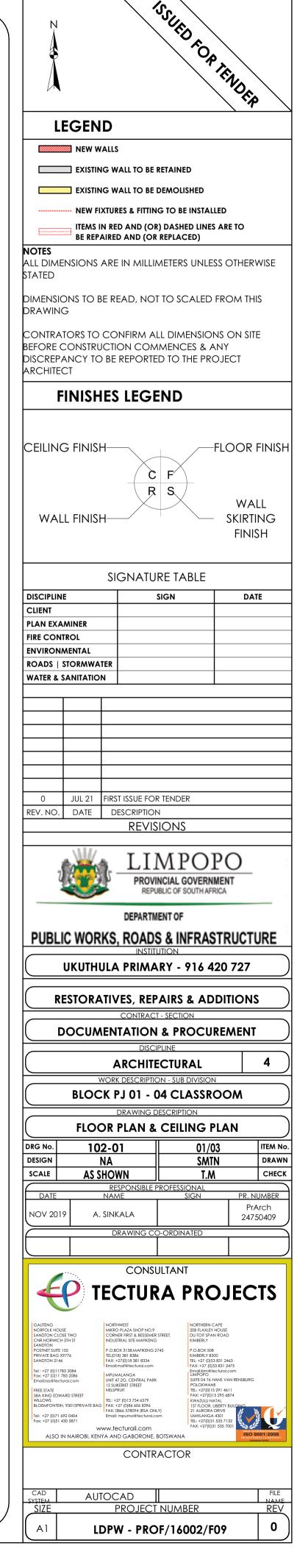
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

<u>Downpipe:</u> 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.







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

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, 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 \$" 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:

Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

compliance to manufacturer's instructions.

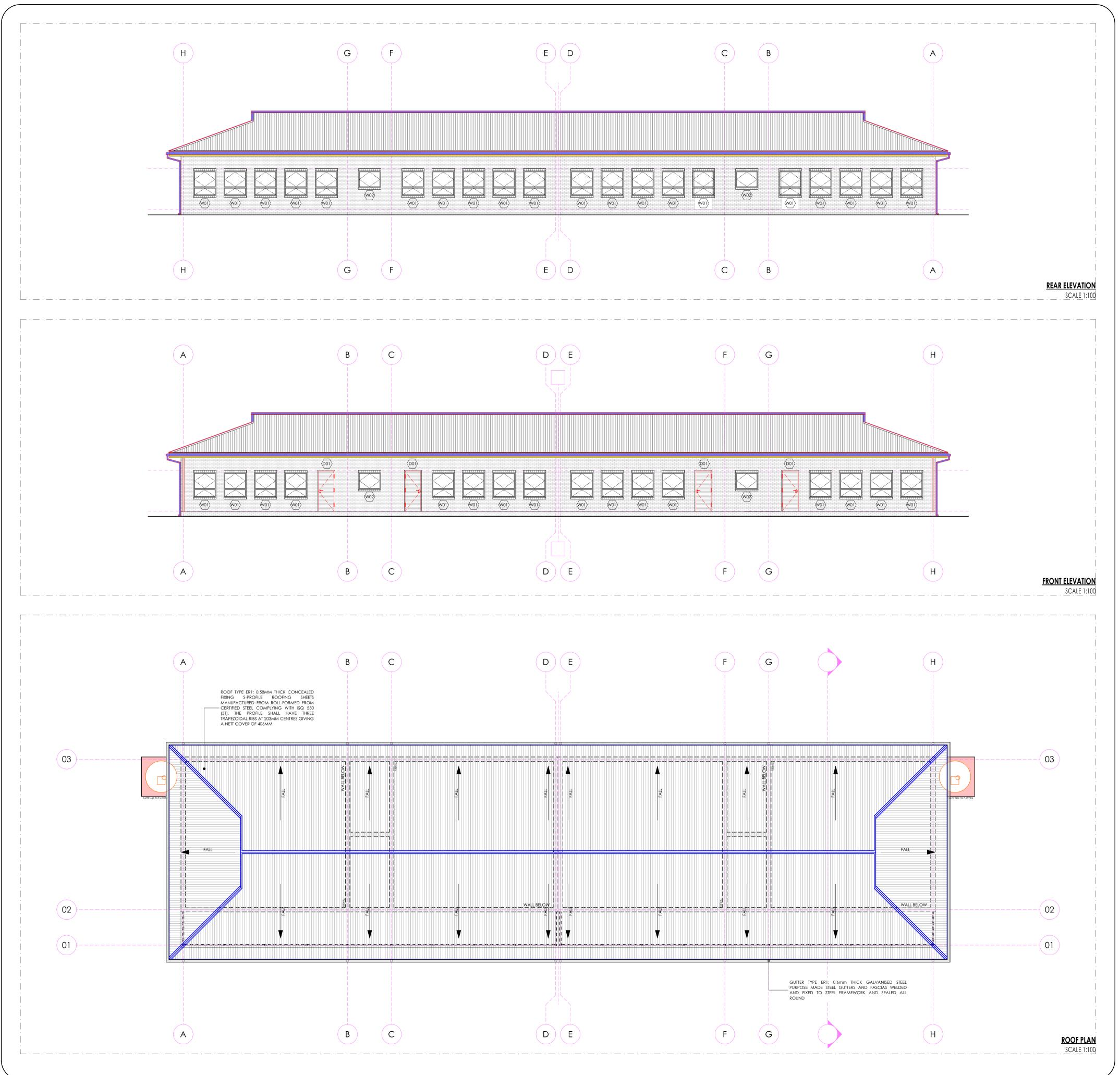
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

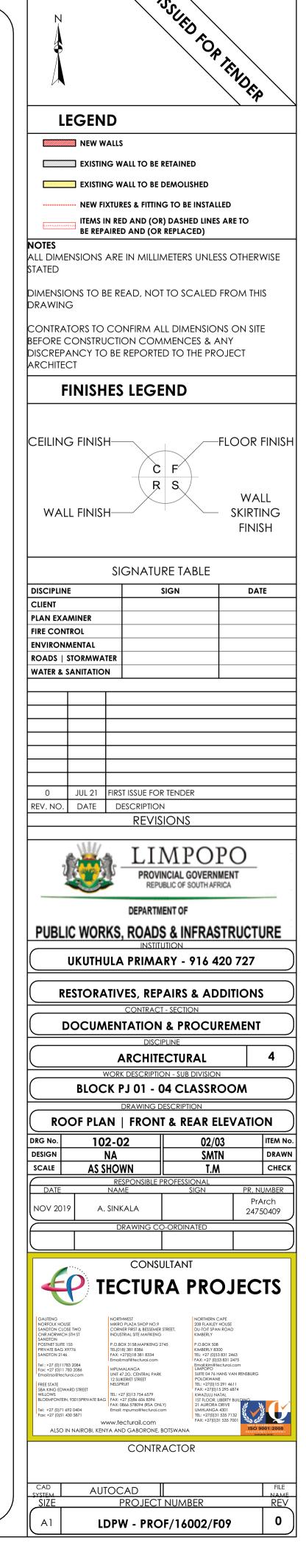
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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. Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws.





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:

R3:ALKYD (ENAMEL) PAINT

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.

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

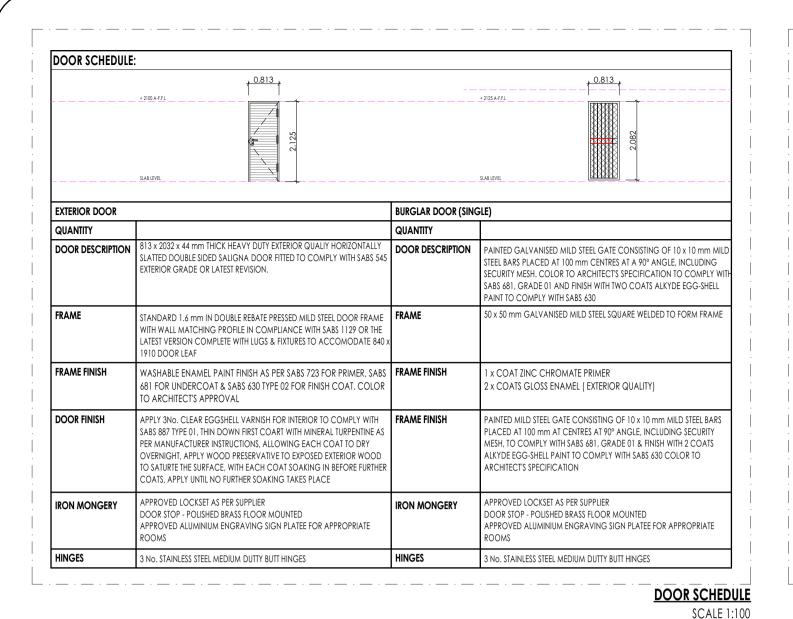
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

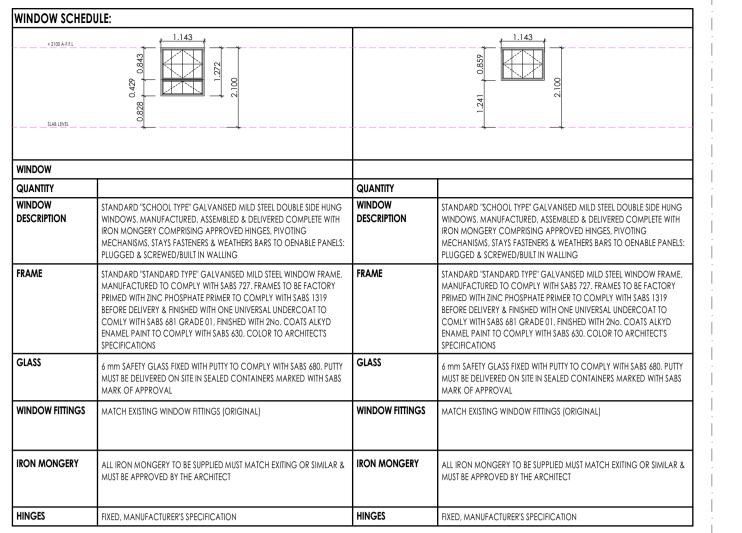
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

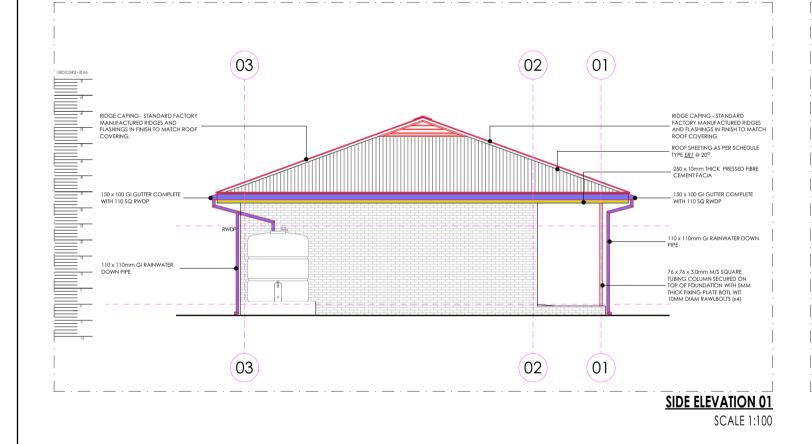
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

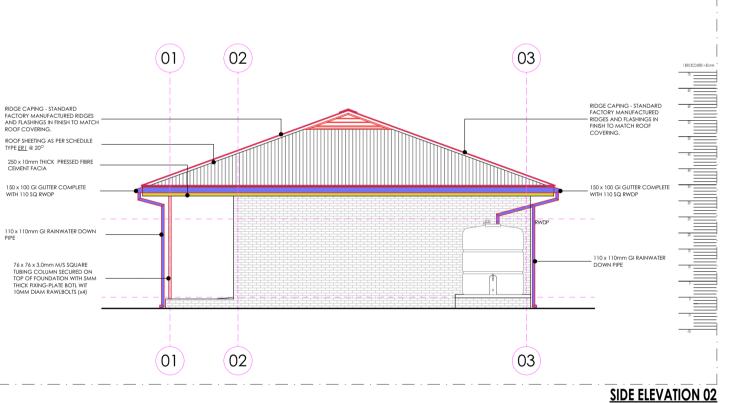
Fascia board; 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

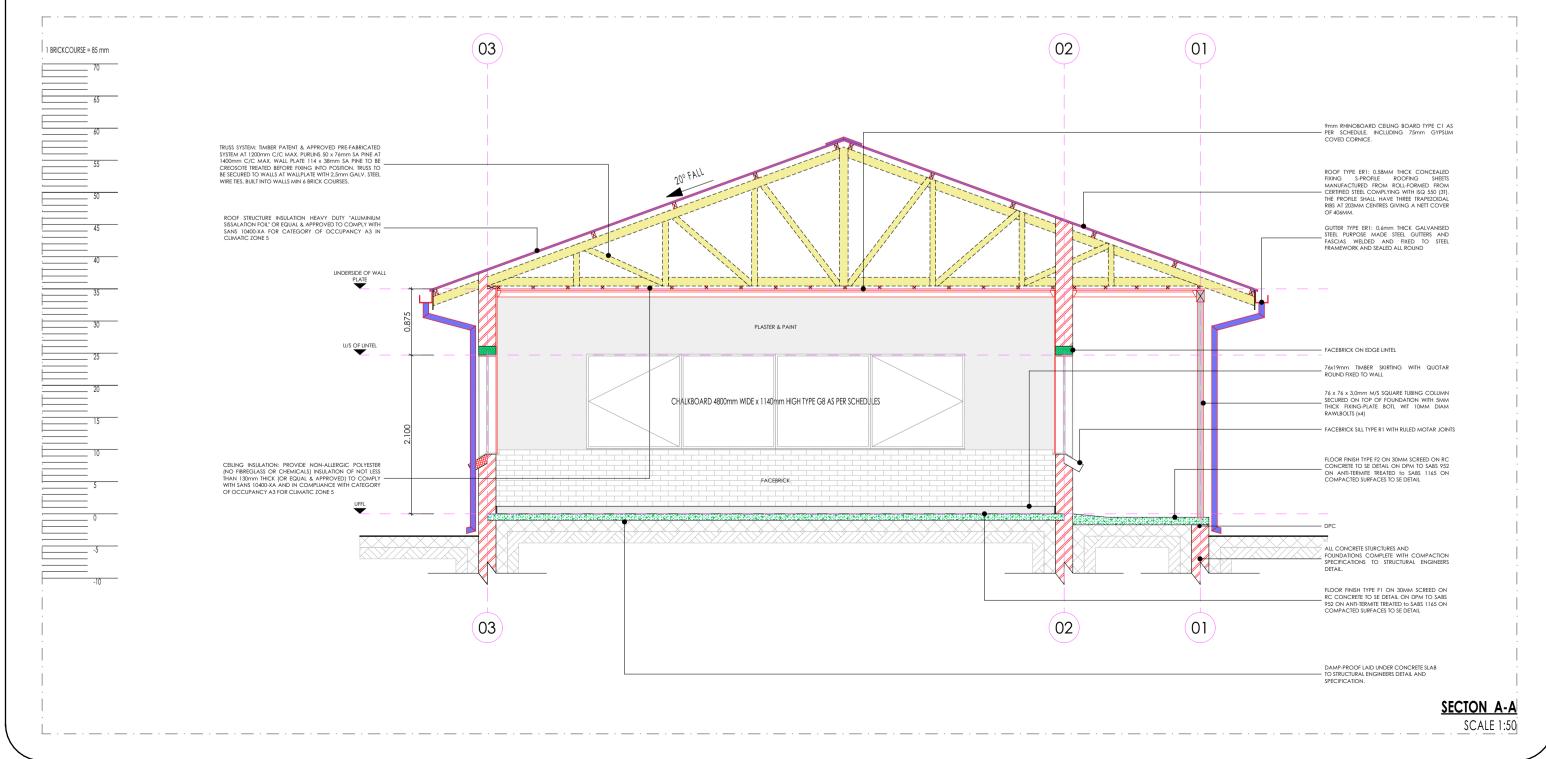




WINDOW SCHEDULE







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 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

treous 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 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 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)**

/itreous 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 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

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, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN A 20mm 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) imic 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) 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

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:

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

• 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 schedule

B6: MEDIC BASIN & FITTINGS (SICK BAY)

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 fittled 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 (cupboc 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-conceale 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 ba 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

manufacturer's specifications.

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 Satii 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 dome 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.

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

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

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

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screw

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

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

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 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 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

accordance with the manufacturer's instructions

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.

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

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

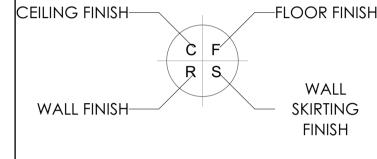


DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

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

FINISHES LEGEND

ARCHITECT



CLIENT	E		SIGN	DATE
PLAN EXA	MINER			
FIRE CONT	TROL			
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

BLOCK PJ 01 - 04 CLASSROOM

ARCHITECTURAL

SECTION | SIDE ELEVATION | SCHEDULES DRG No. 102-03

		102-03	03/03		
DESIGN		NA	SMTN		DRAW
SCALE		AS SHOWN	T.M		CHEC
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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

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 \$AB\$ 1449 laid on approved pattern by an approved specialist to comply with \$AB\$ 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and \$AB\$ 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 files 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.

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 \$AB\$ 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

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

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 thic

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

 ${\it FBX face brick in common running bond to comply with SABS~227~and forming~part~of~the~structural~work.}$

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.

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

"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)

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

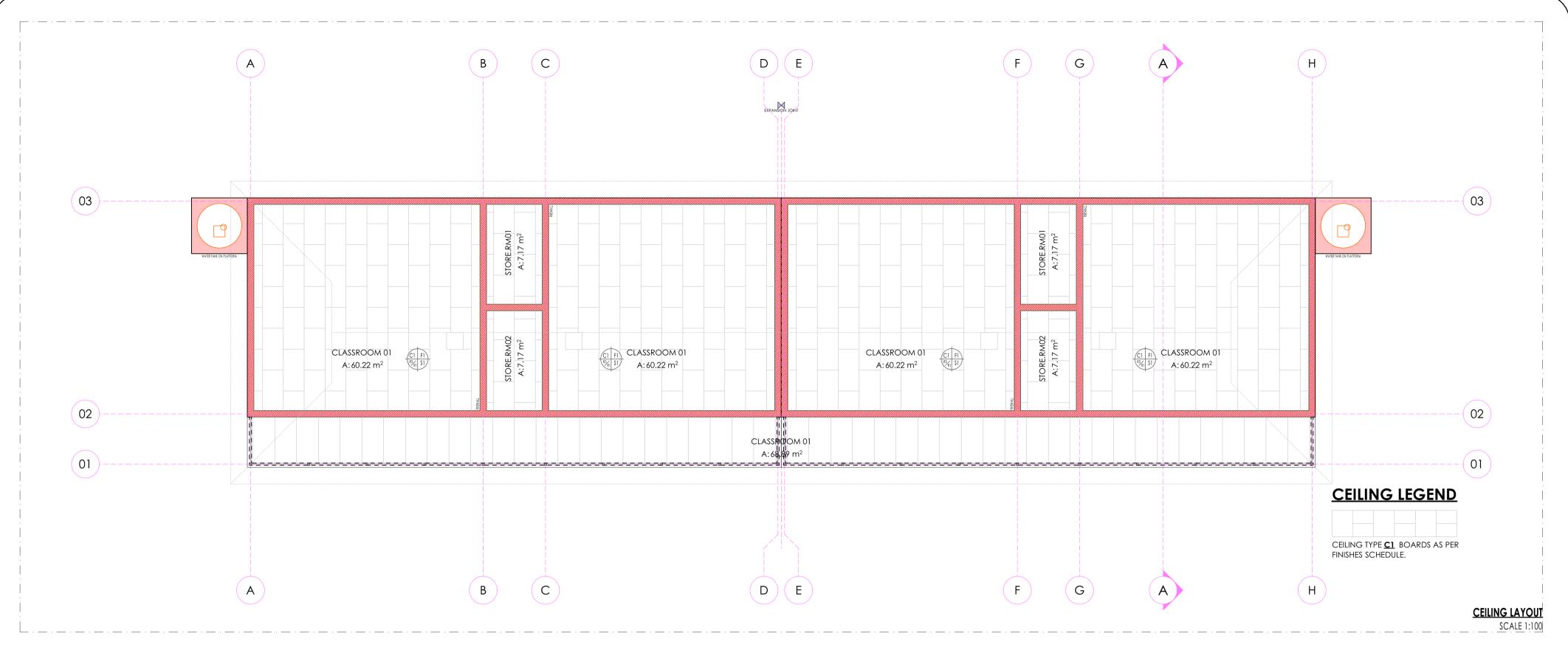
compliance to manufacturer's instructions.

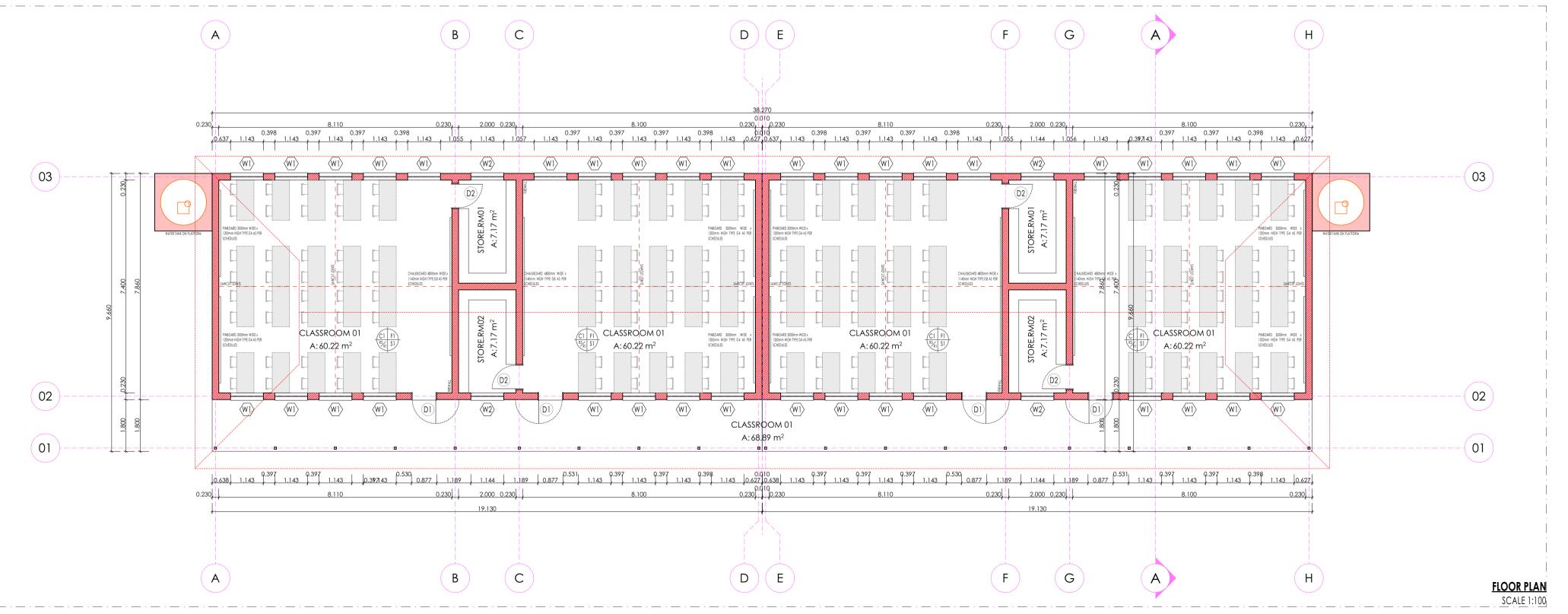
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

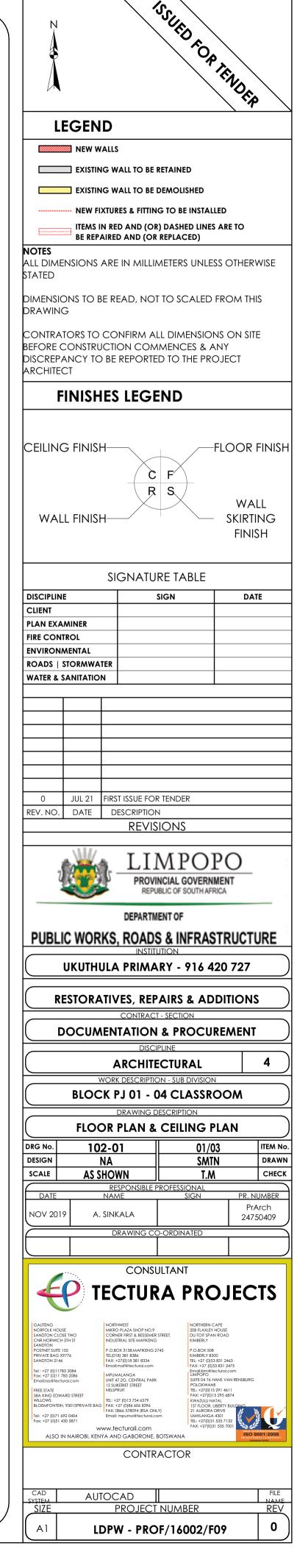
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

<u>Downpipe:</u> 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.







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

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, 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 \$" 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:

Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

compliance to manufacturer's instructions.

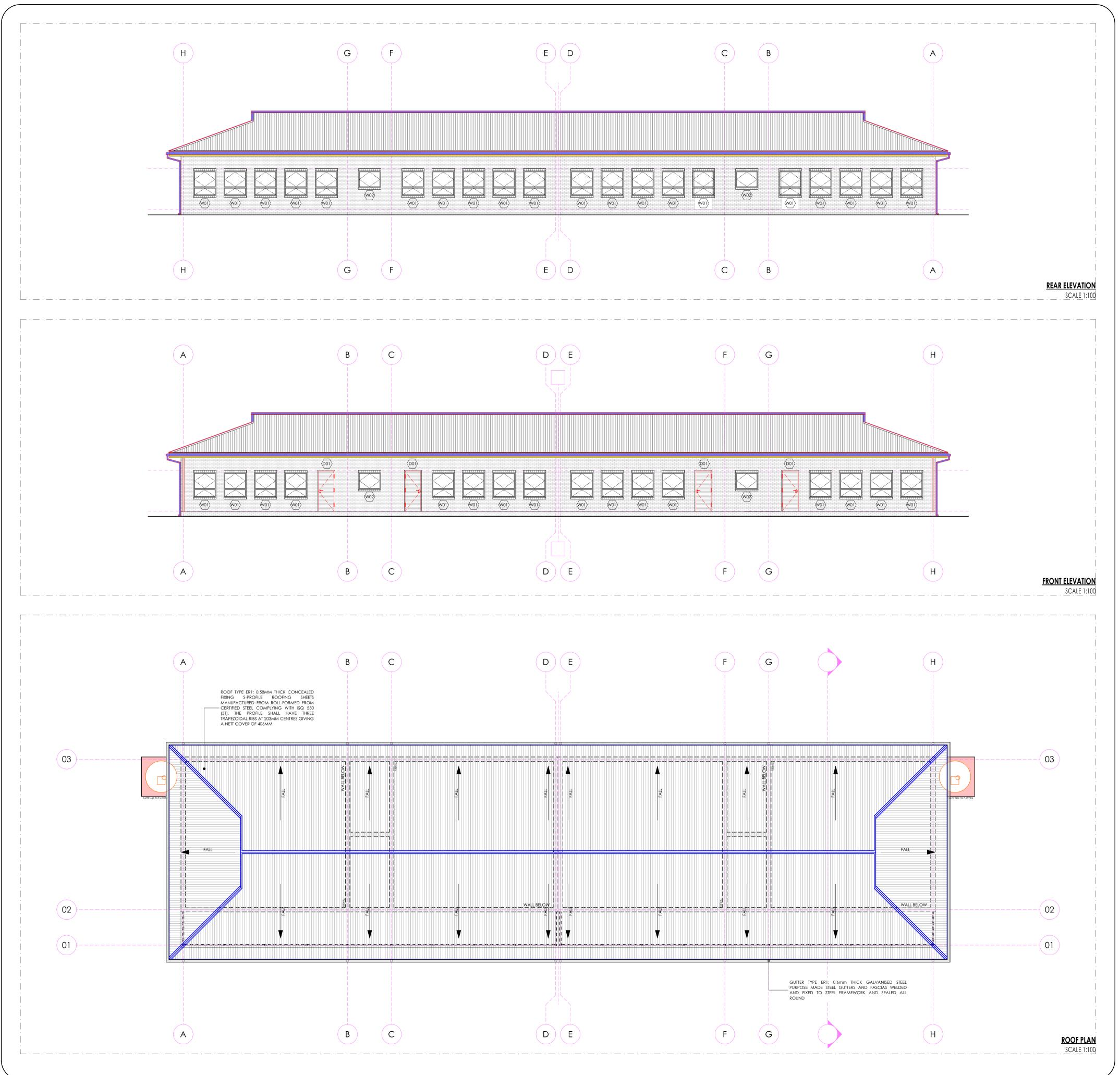
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

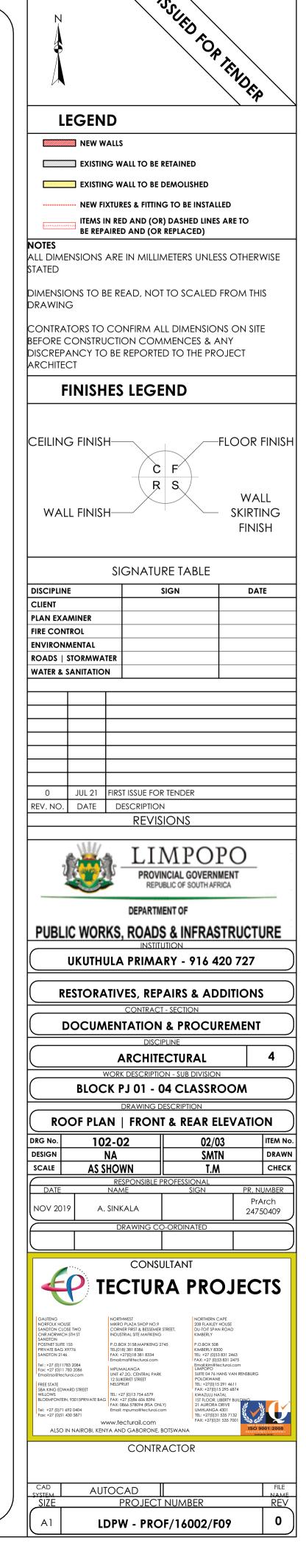
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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. Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws.





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:

R3:ALKYD (ENAMEL) PAINT

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.

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

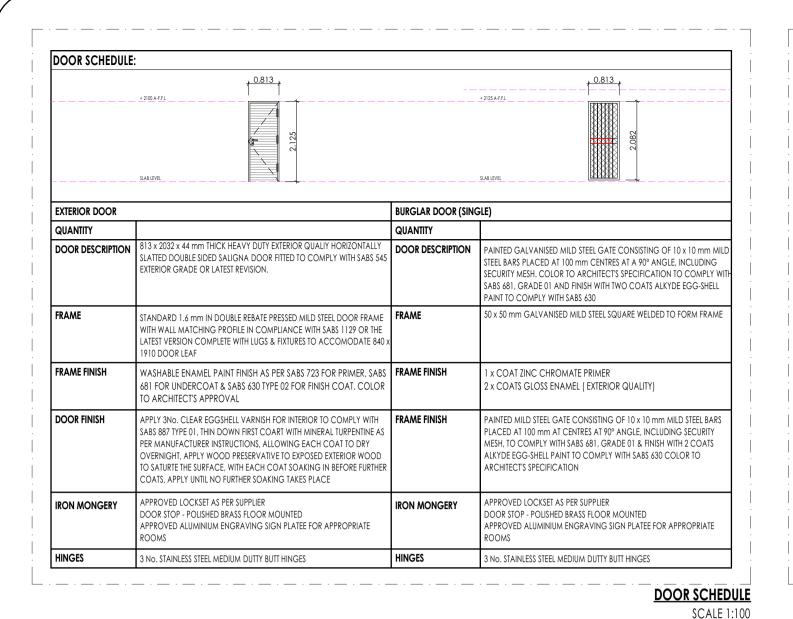
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

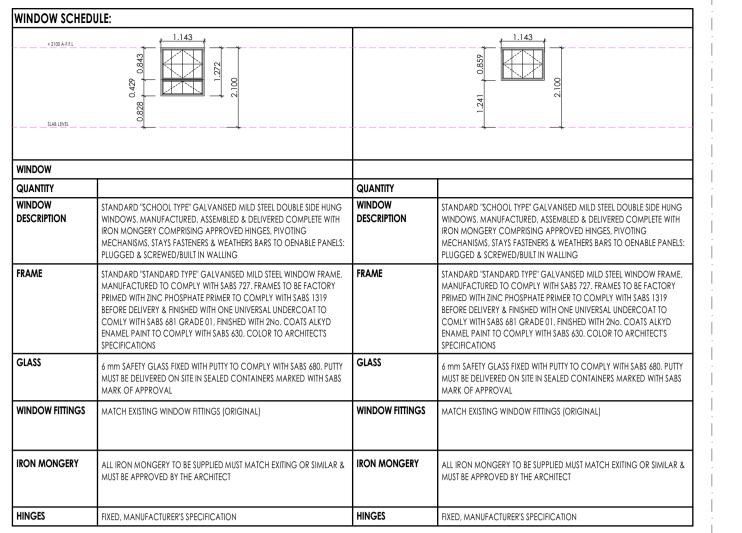
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

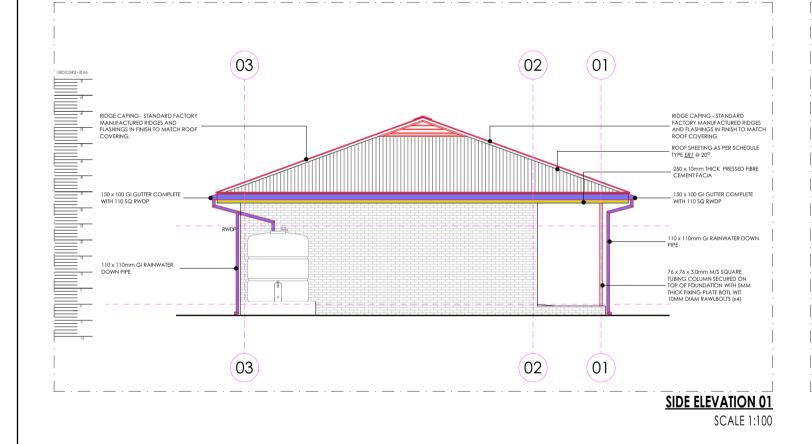
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

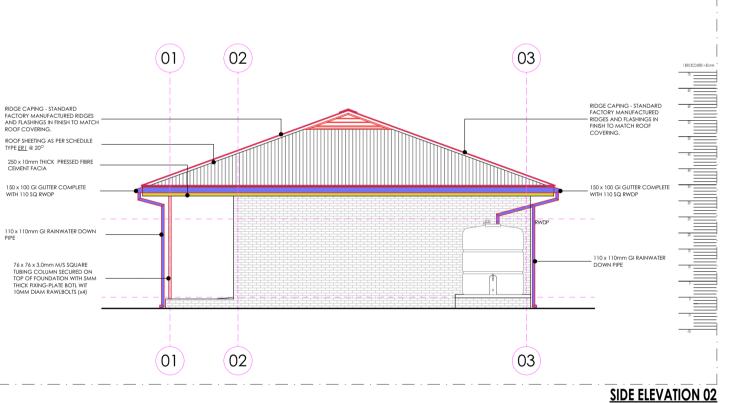
Fascia board; 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

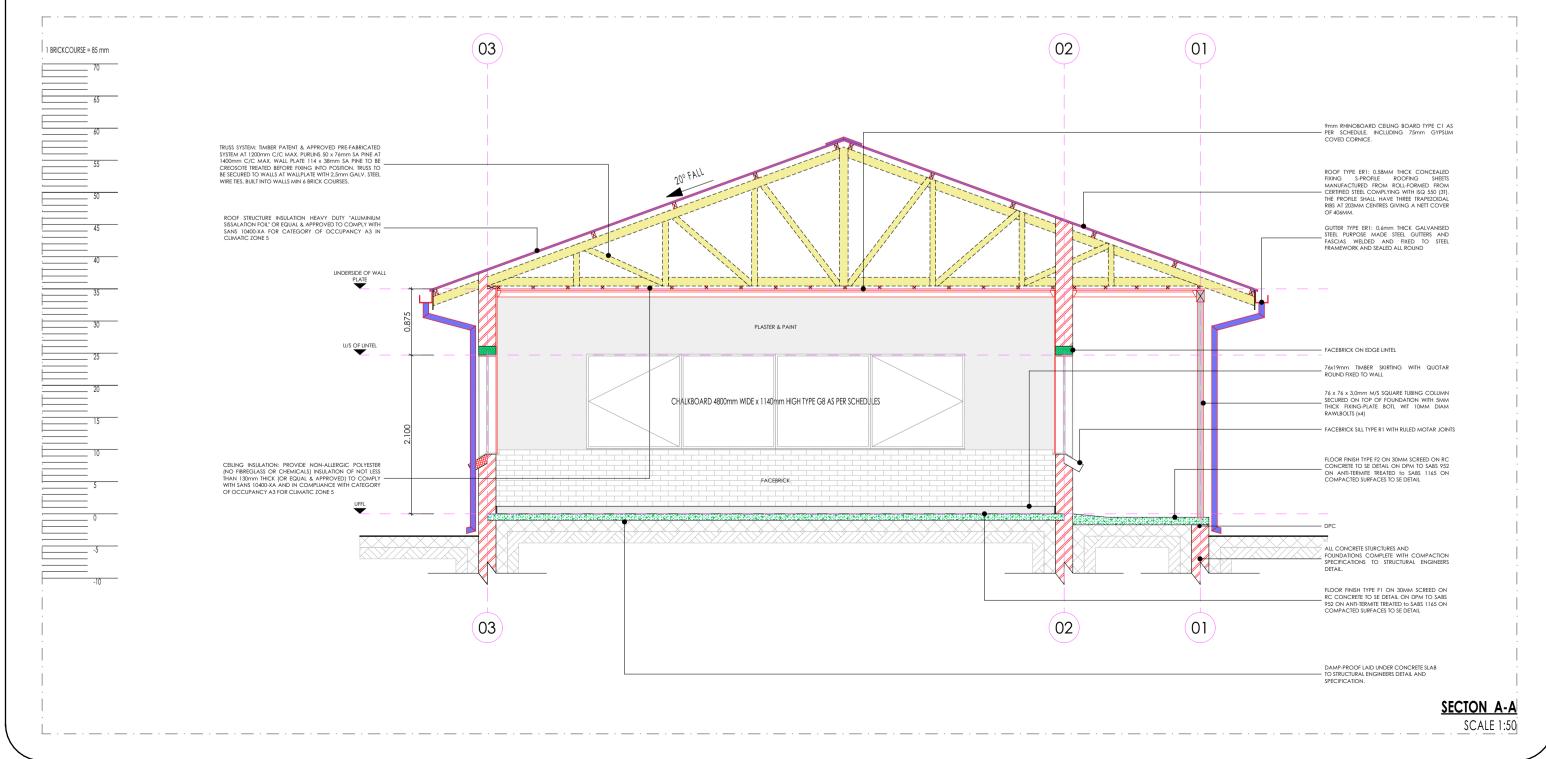




WINDOW SCHEDULE







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 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

treous 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 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 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)**

/itreous 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 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

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, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN A 20mm 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) imic 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) 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

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:

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

• 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 schedule

B6: MEDIC BASIN & FITTINGS (SICK BAY)

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 fittled 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 (cupboc 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-conceale 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 ba 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

manufacturer's specifications.

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 Satii 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 dome 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.

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

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

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

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screw

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

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

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 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 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

accordance with the manufacturer's instructions

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.

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

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

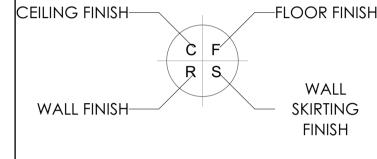


DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

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

FINISHES LEGEND

ARCHITECT



CLIENT	E		SIGN	DATE
PLAN EXA	MINER			
FIRE CONT	TROL			
ENVIRON/	MENTAL			
ROADS S	STORMWA	TER		
WATER & S	SANITATIO	N		
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

BLOCK PJ 01 - 04 CLASSROOM

ARCHITECTURAL

SECTION | SIDE ELEVATION | SCHEDULES DRG No. 102-03

		102-03	03/03		
DESIGN		NA	SMTN		DRAW
SCALE		AS SHOWN	T.M		CHEC
		RESPONSIBLE	PROFESSIONAL		
DATE		NAME	SIGN	PR. N	UMBER
NOV 20	19	A. SINKALA			Arch 50409
		DRAWING C	O-ORDINATED		





www.tecturail.com

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

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 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

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

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)

compliance to manufacturer's instructions.

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

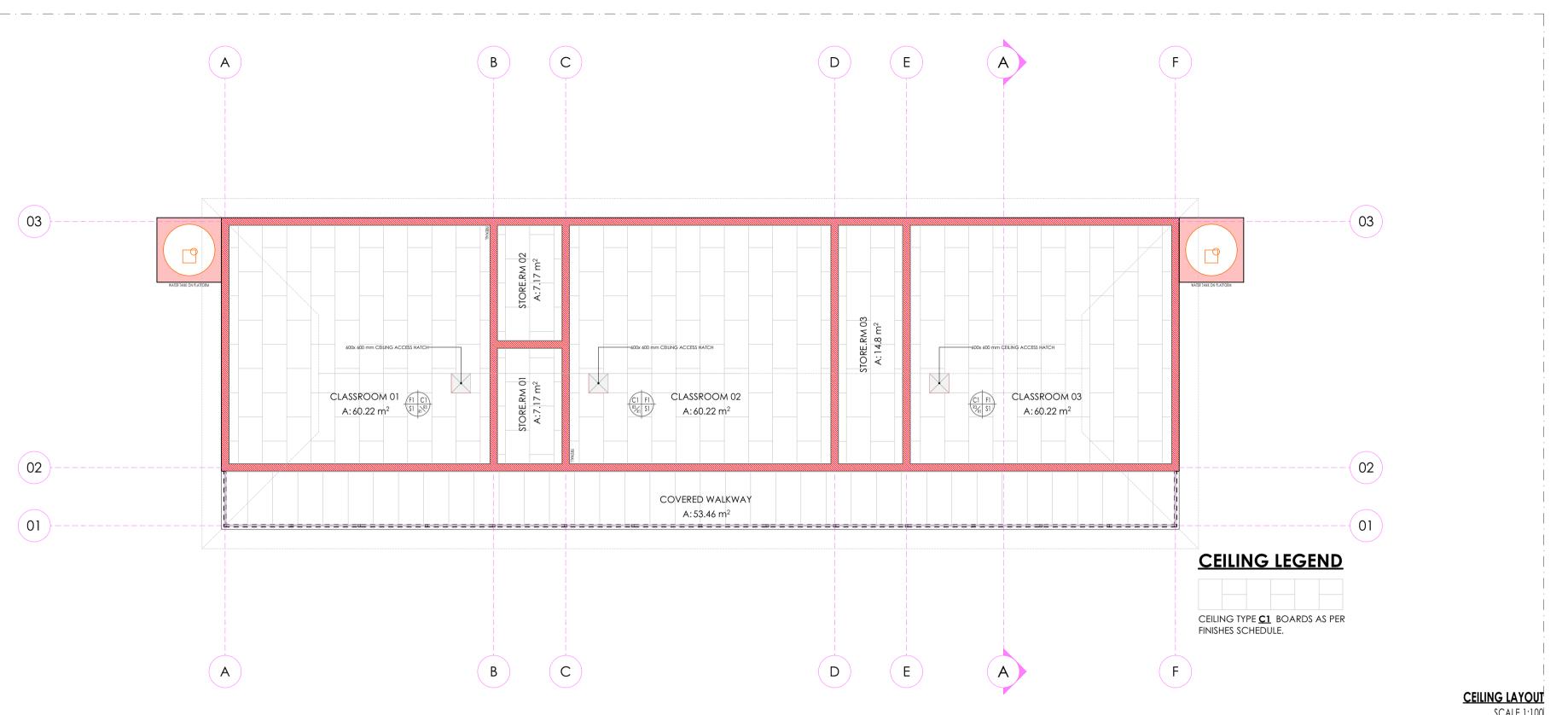
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

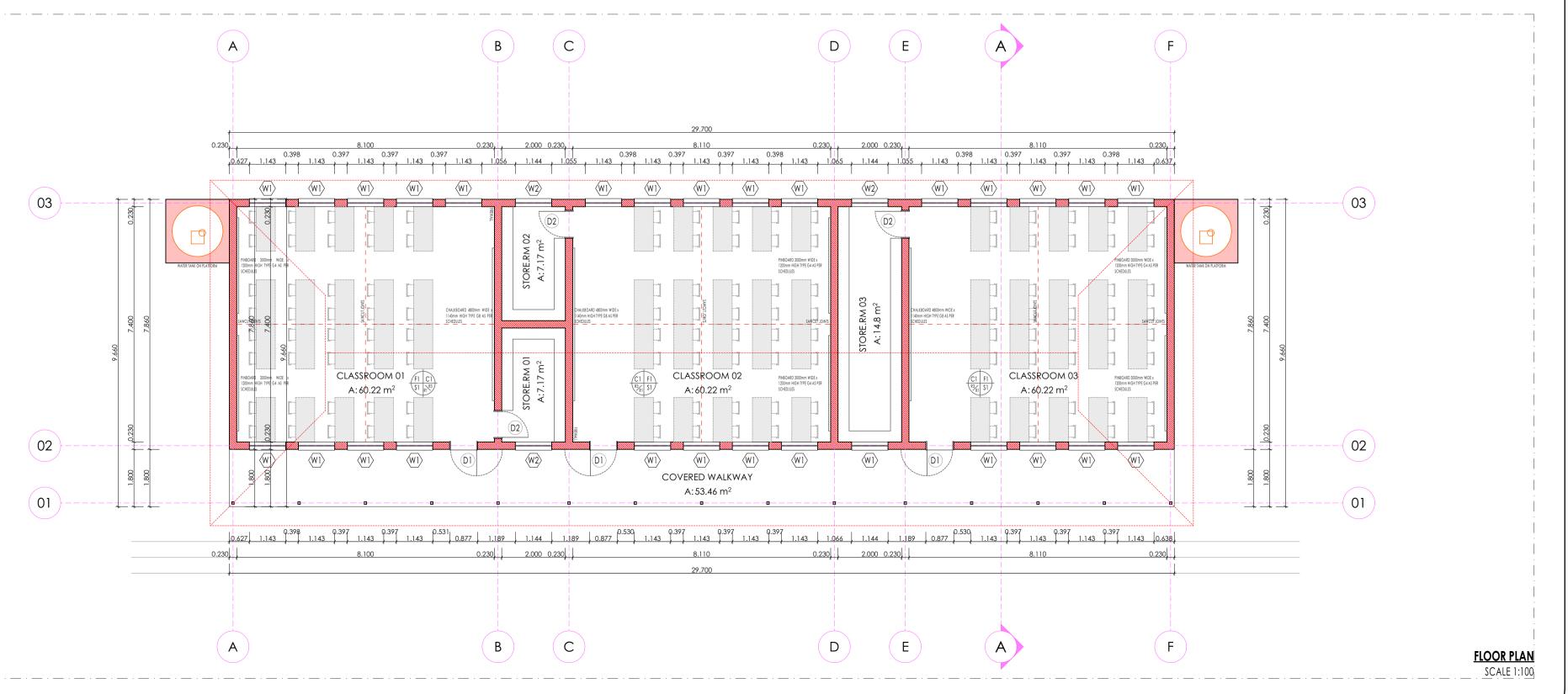
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

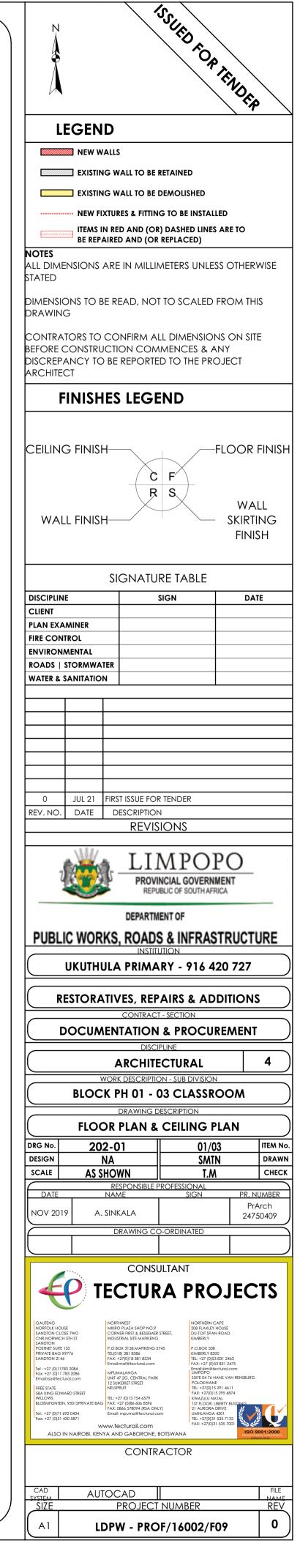
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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/Barae 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 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. 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.

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

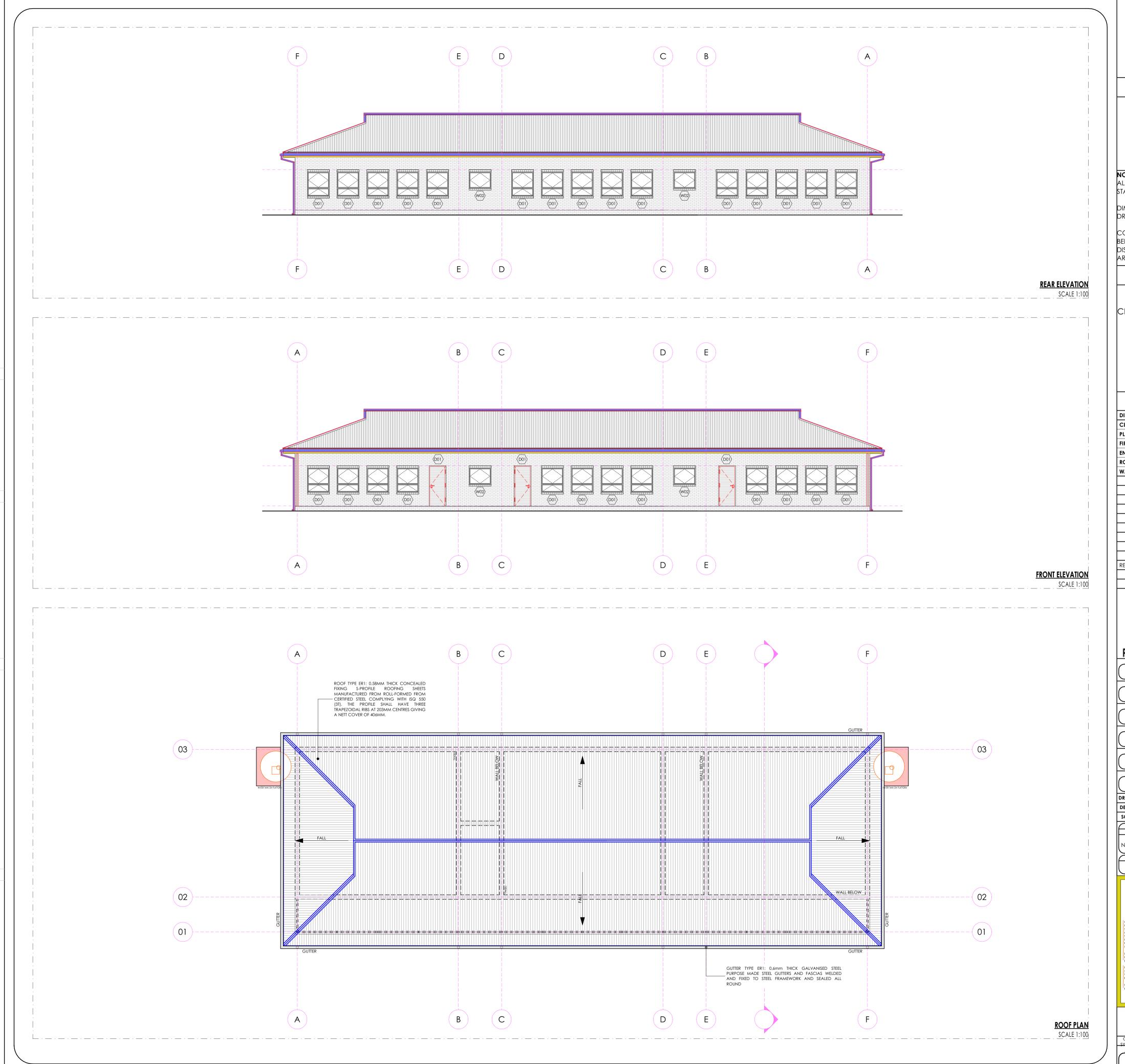
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

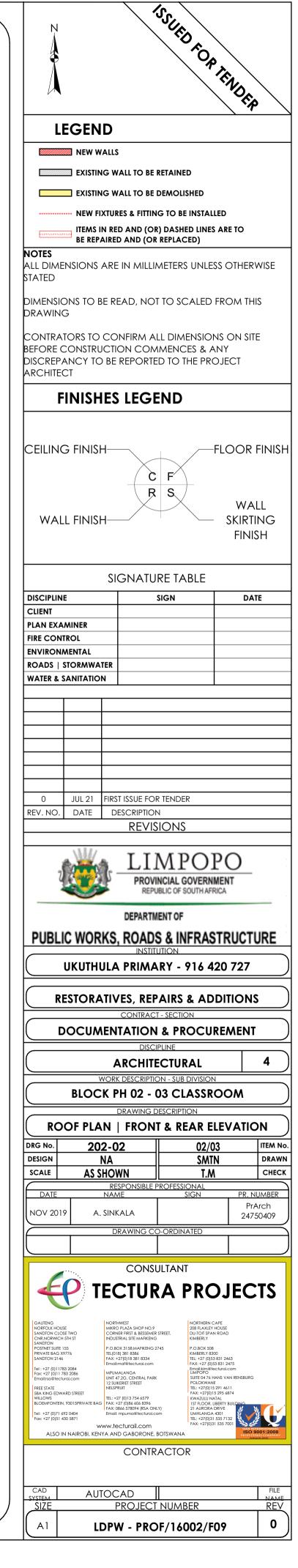
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

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.





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.

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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

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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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S1: HARDWOOD OR EQUAL AND APPROVED

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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 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, 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 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

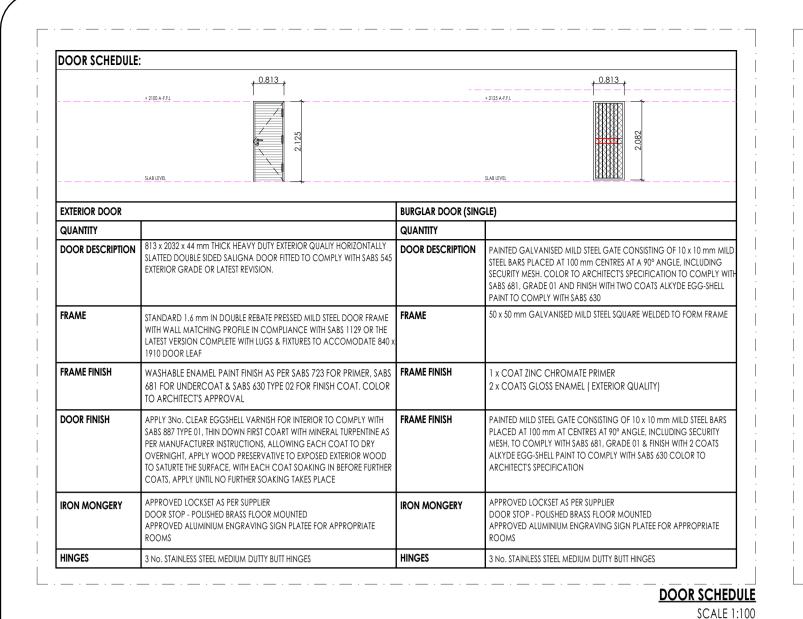
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

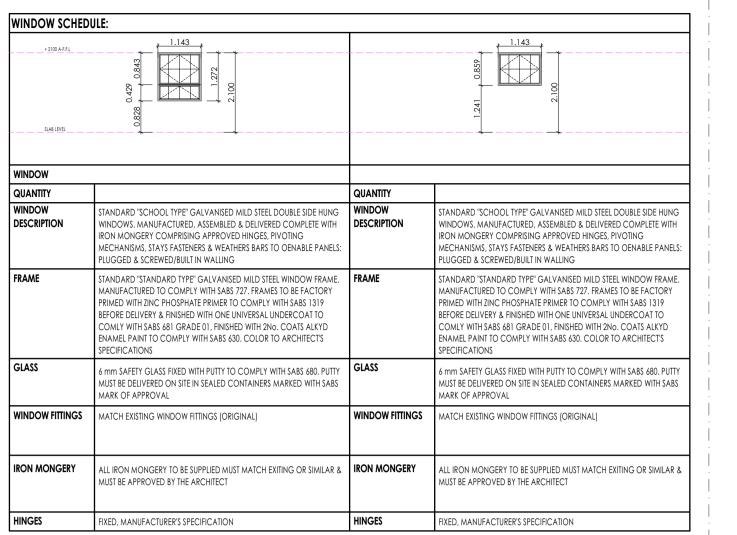
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

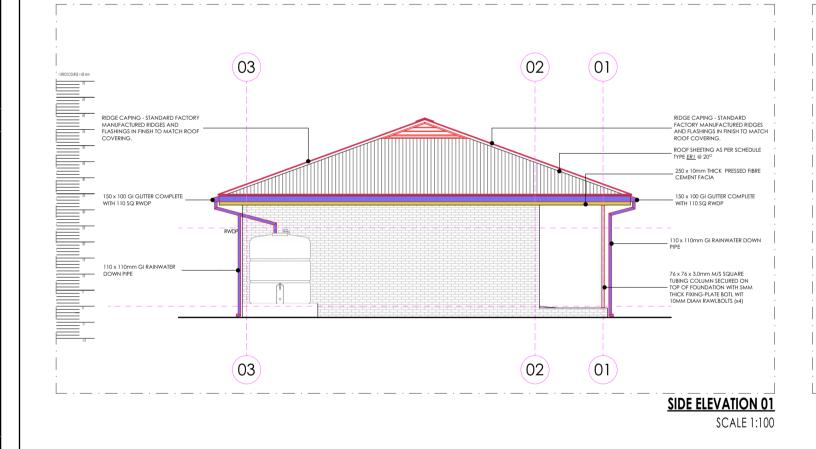
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

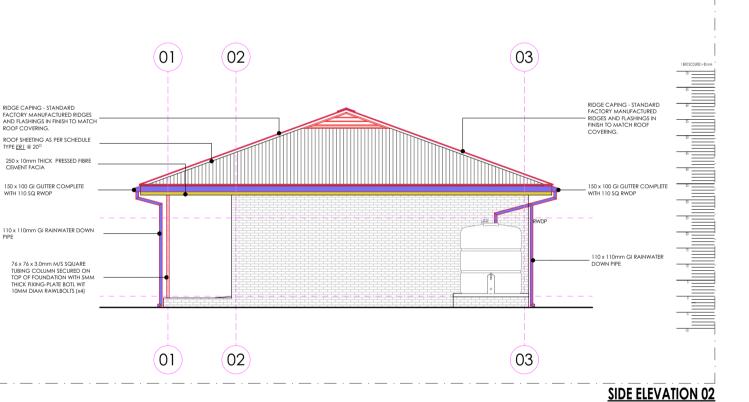
Fascia board; 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

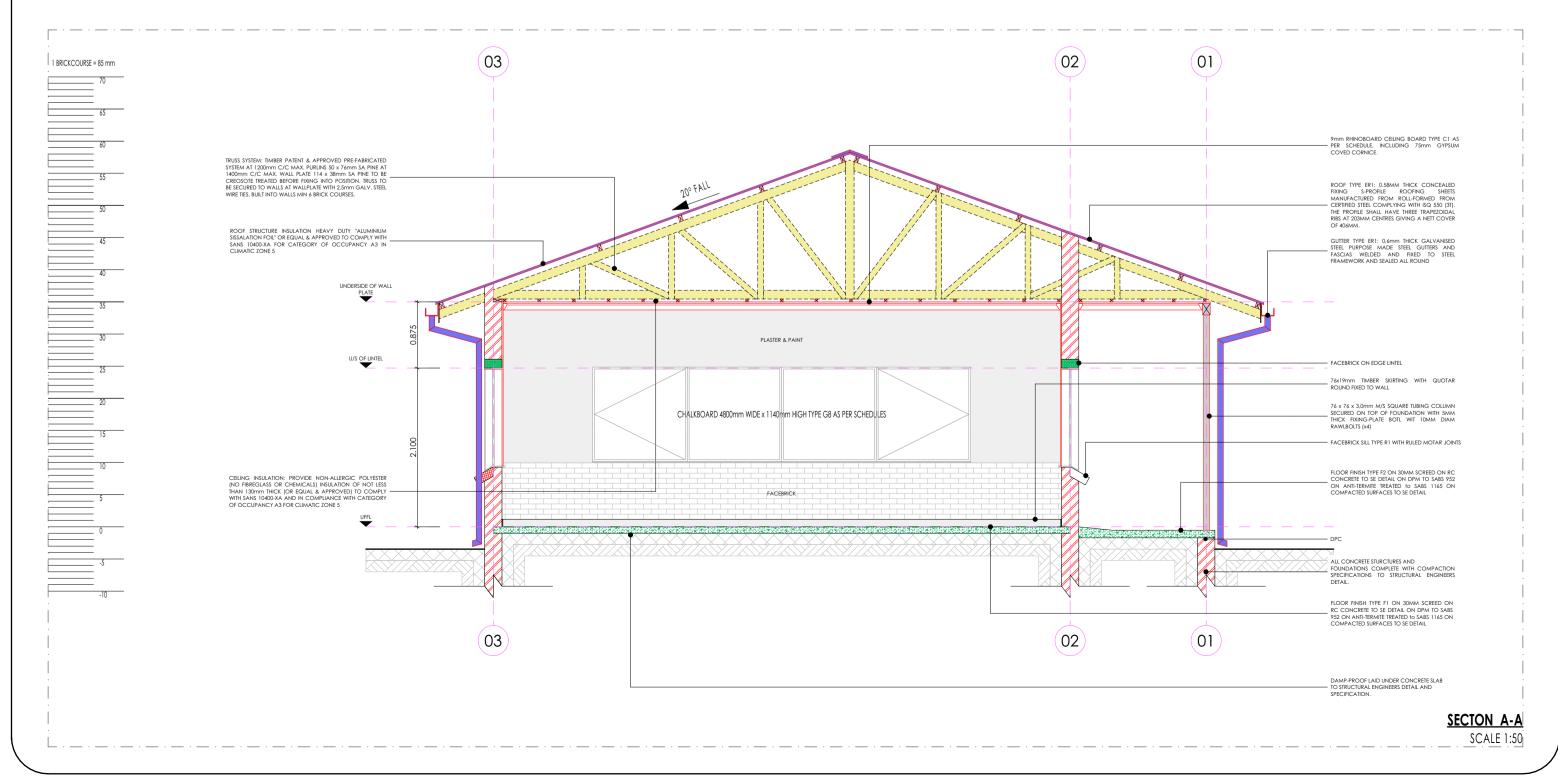




WINDOW SCHEDULE







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 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 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 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 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. 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

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

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, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN A 20mm 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) imic 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) 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) 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 schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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 fittled 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 (cupboc 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-conceale

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 ba 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

installed in accordance to manufacturer's specifications.

K3: SS WASTE BIN

K5: SOAP HOLDER

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 Satii 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 dome headed mirror screws

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.

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 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions. K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC

Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing 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

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

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

K11: HAND DRYER (Hands free)

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 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

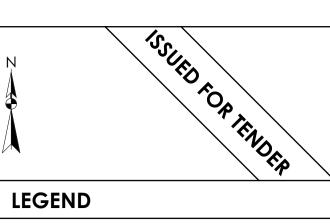
mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose

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 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 ir accordance with the manufacturer's instructions.



WWW NEW WALLS EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

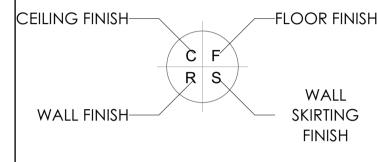
all dimensions are in millimeters unless otherwise

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

FINISHES LEGEND

ARCHITECT



CLIENT	E		SIGN	DATE
PLAN EXA	MINER			
FIRE CONT	TROL			
ENVIRON/	MENTAL			
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

RESTORATIVES, REPAIRS & ADDITIONS

UKUTHULA PRIMARY - 916 420 727

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL BLOCK PH 02 - 03 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES

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CONTRACTOR

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 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

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

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

compliance to manufacturer's instructions.

ROOF COVERING AND INSULATION:

weight hemi-hydrate gypsum plaster on concrete slab soffit.

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

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

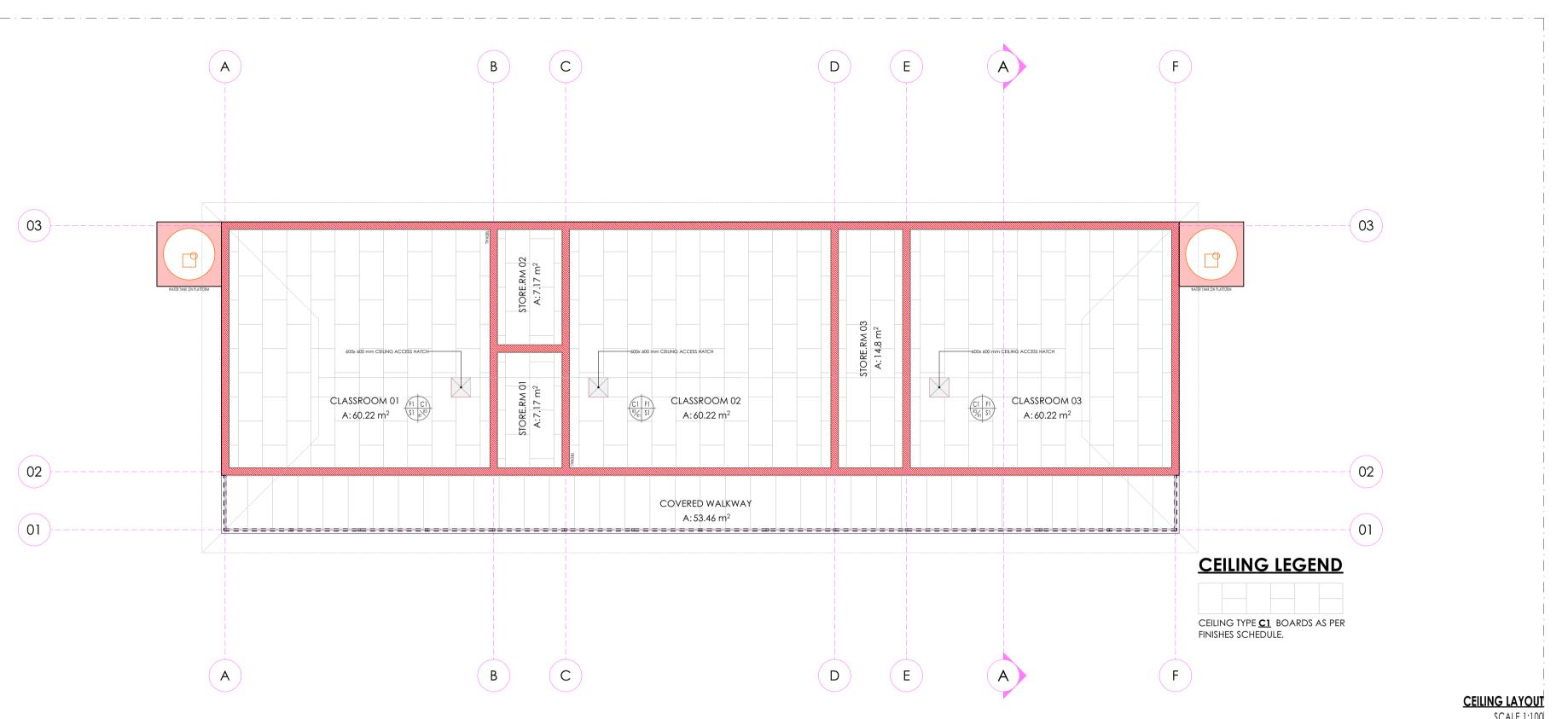
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

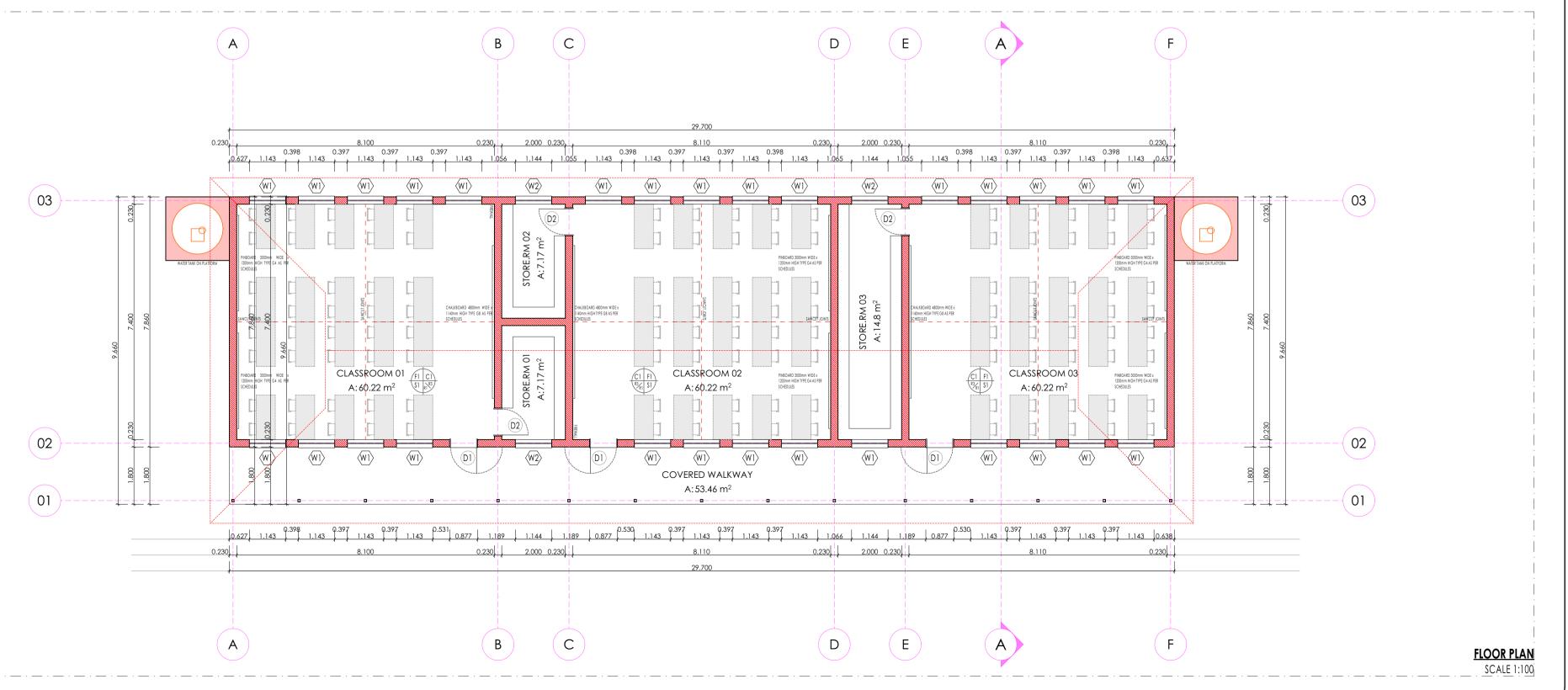
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

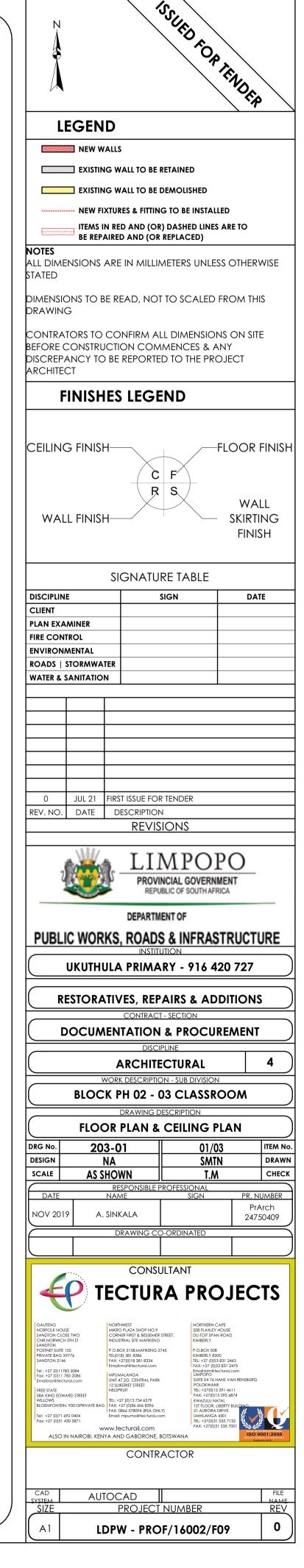
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes. Downpipe: 110 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/Barae 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 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. 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.

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

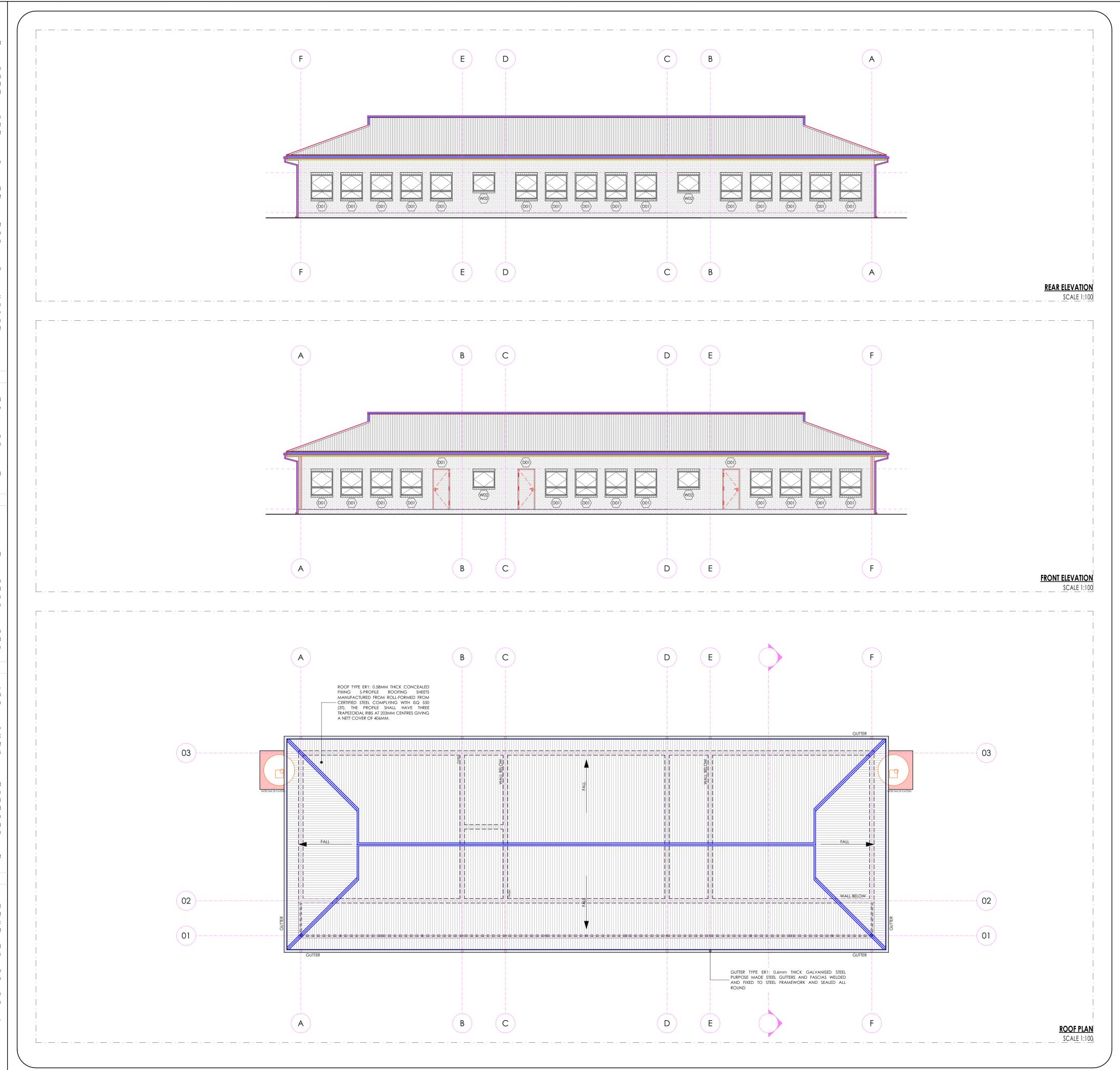
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

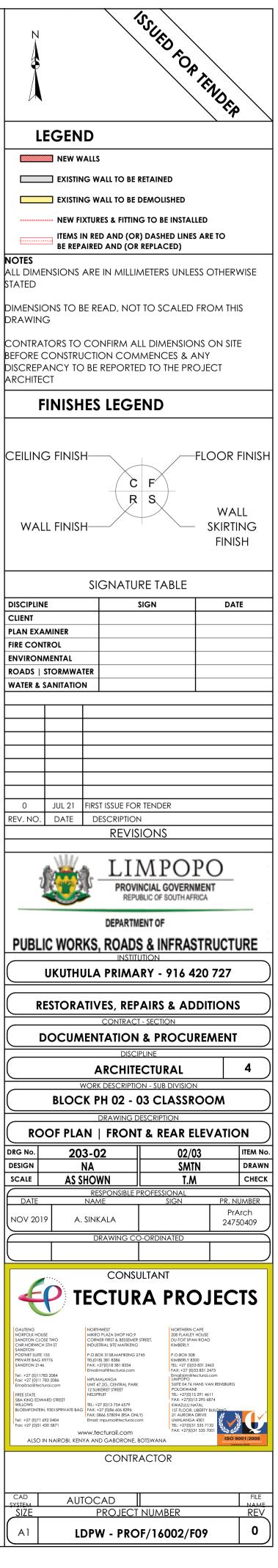
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

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.





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 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

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 omplying 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

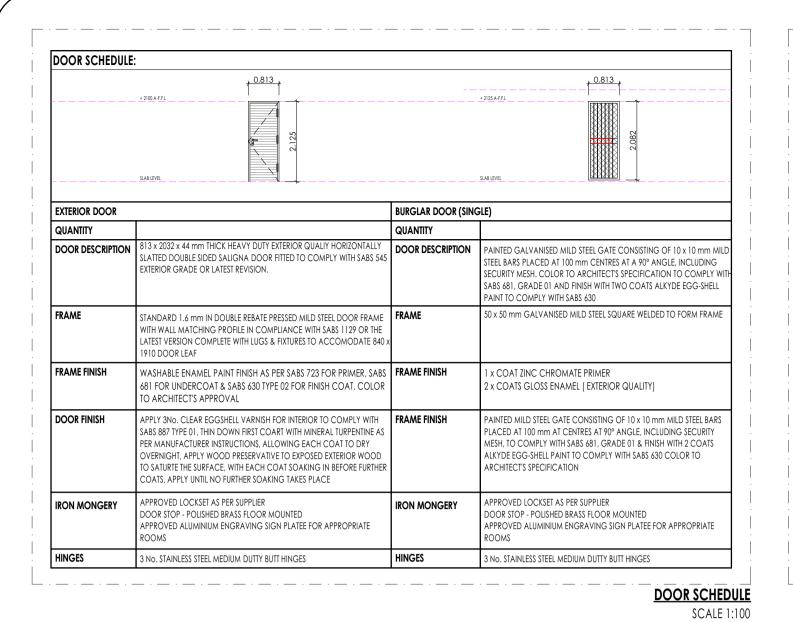
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

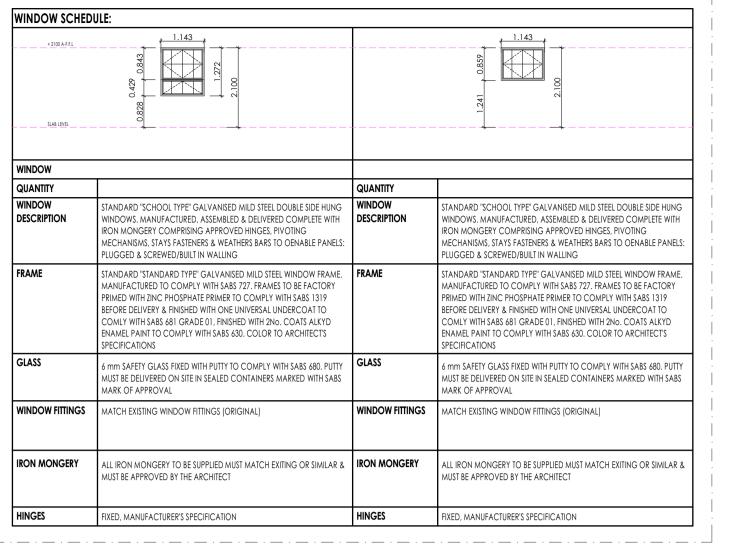
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

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.

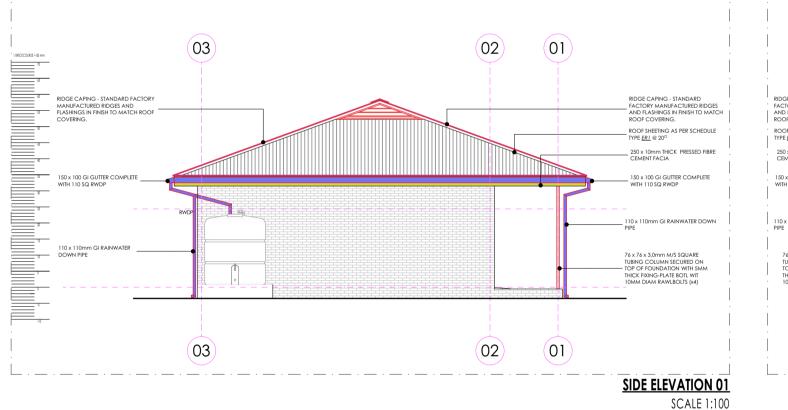
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

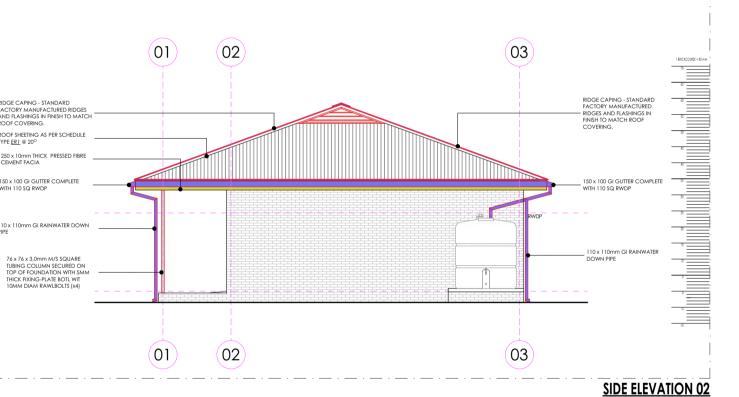
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

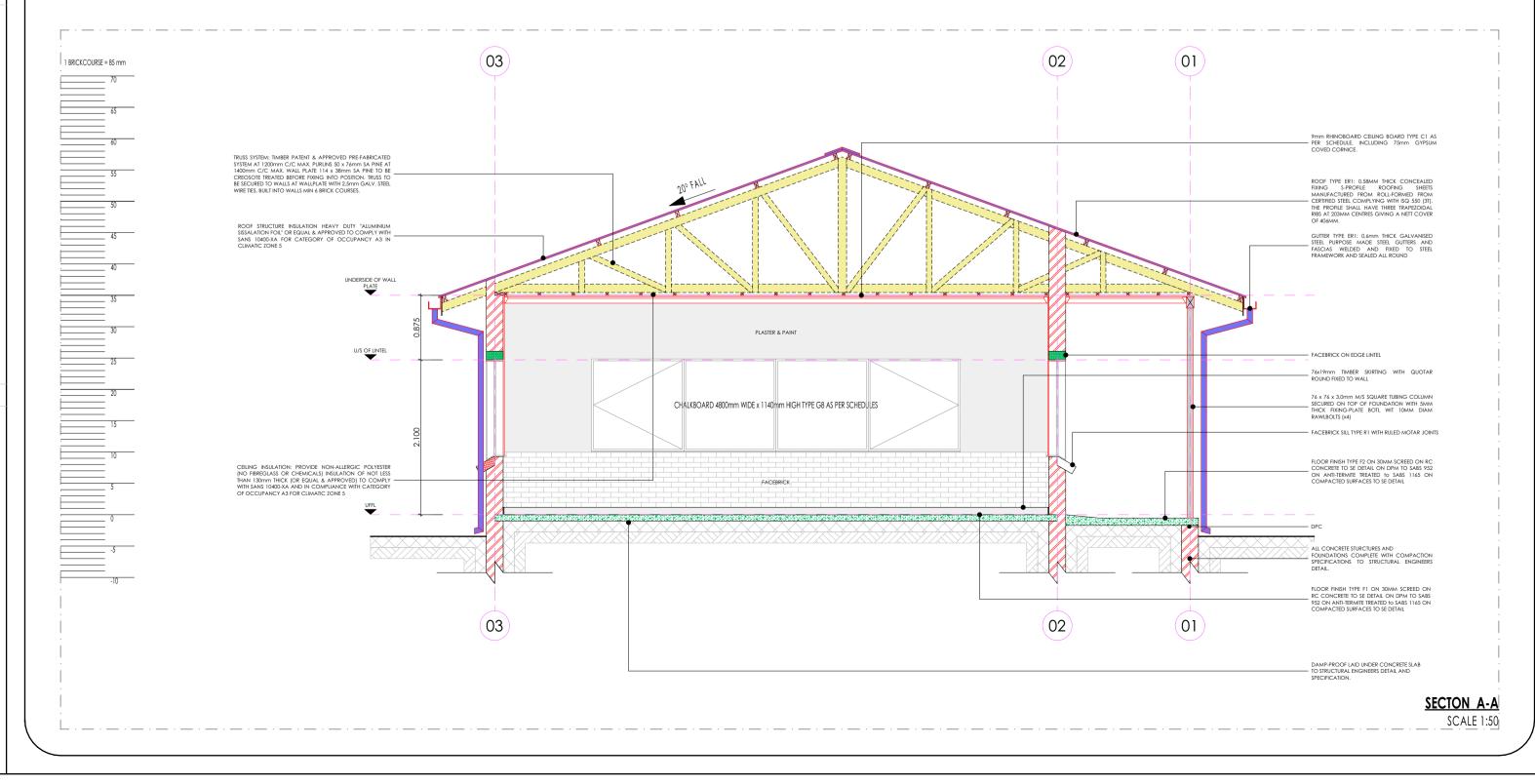




WINDOW SCHEDULE







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 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

treous 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 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 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.

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 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

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, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN A 20mm 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) imic 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) 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)

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 schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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 fittled 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 (cupboc 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-conceale 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 ba 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

manufacturer's specifications.

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 Sat 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 dome 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. 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

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

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

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing 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 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 Complet-

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

K11: HAND DRYER (Hands free)

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.

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

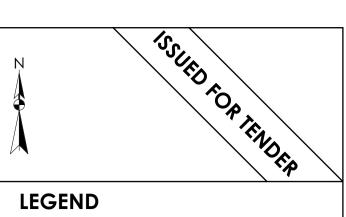
G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon 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



WWW NEW WALLS EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED

ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED) all dimensions are in millimeters unless otherwise

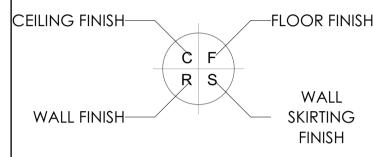
NEW FIXTURES & FITTING TO BE INSTALLED

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

FINISHES LEGEND

ARCHITECT



DISCIPLIN	E		SIGN	DATE	
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL

BLOCK PH 02 - 03 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES

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CONSULTANT



TEL: +27 (0)13 754 6579

www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

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 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 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, 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 nto 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.

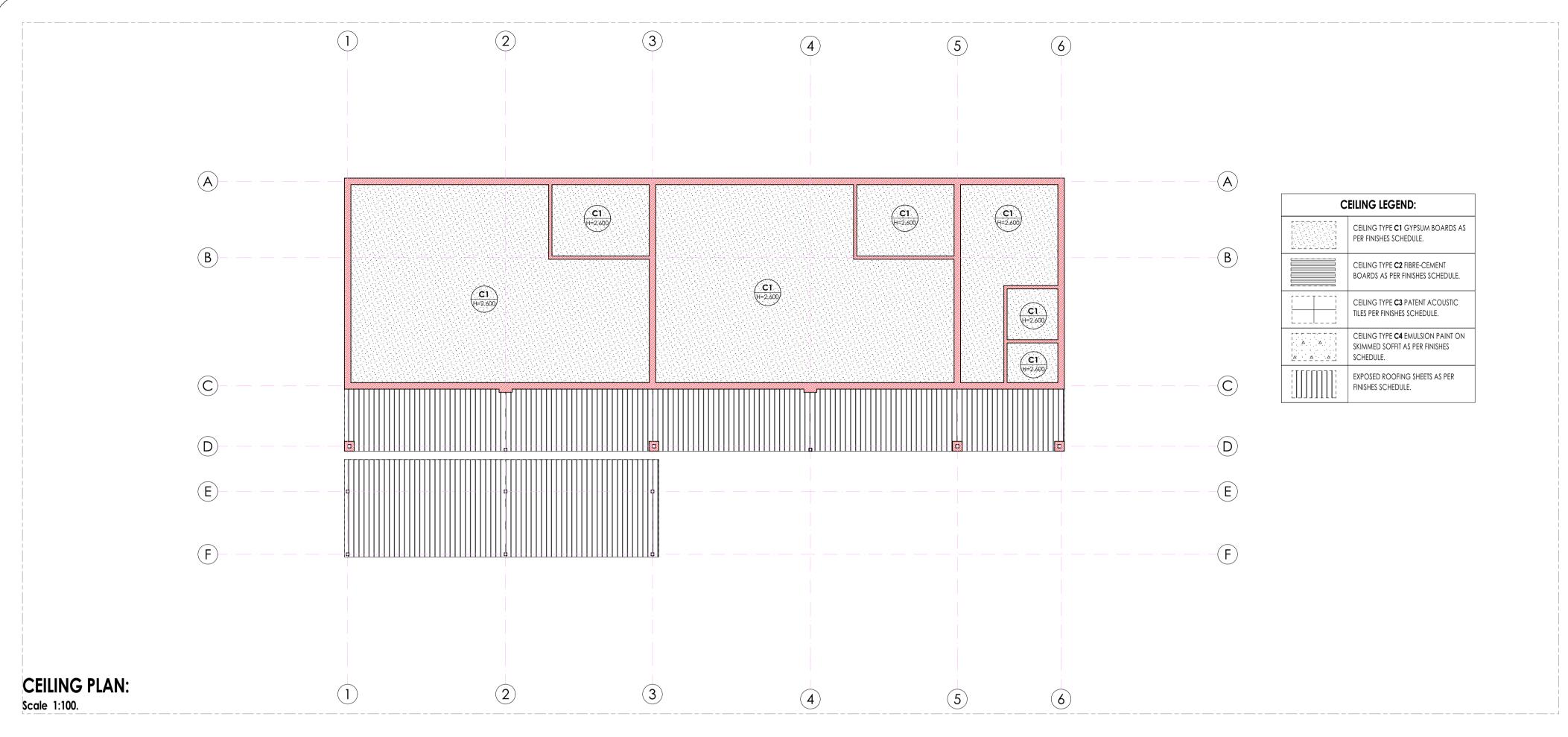
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

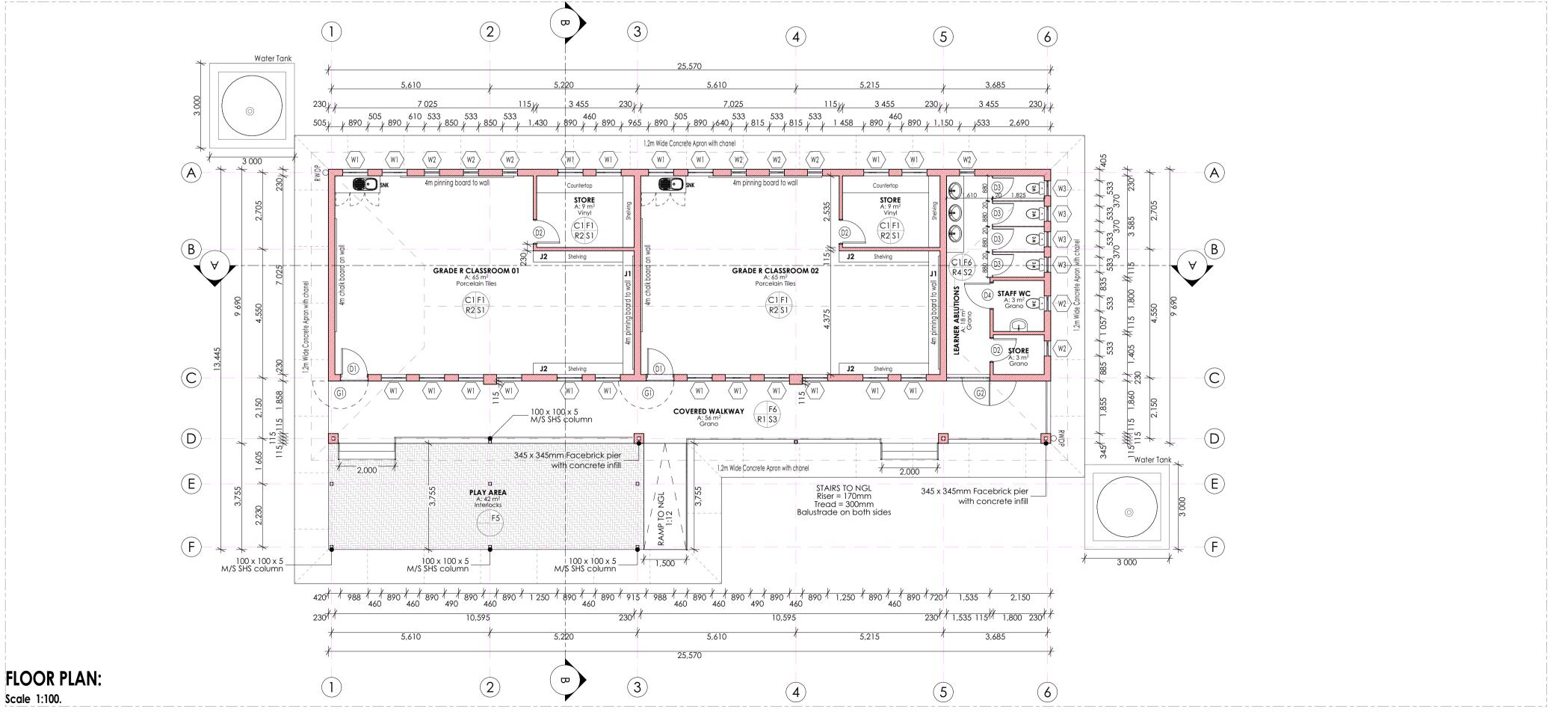
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

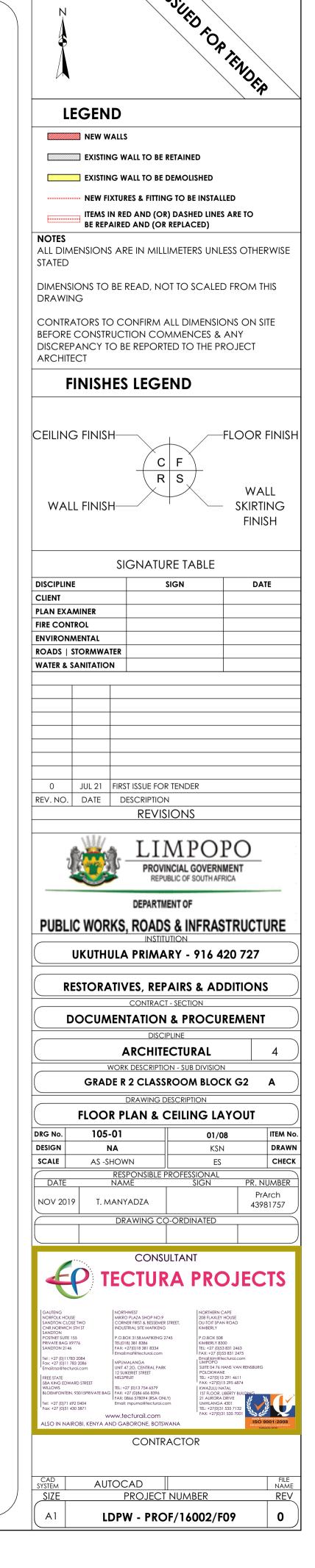
<u>Downpipe:</u> 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation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

Scale 1:100.

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.







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 screeds 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:

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.

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 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

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 nto 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

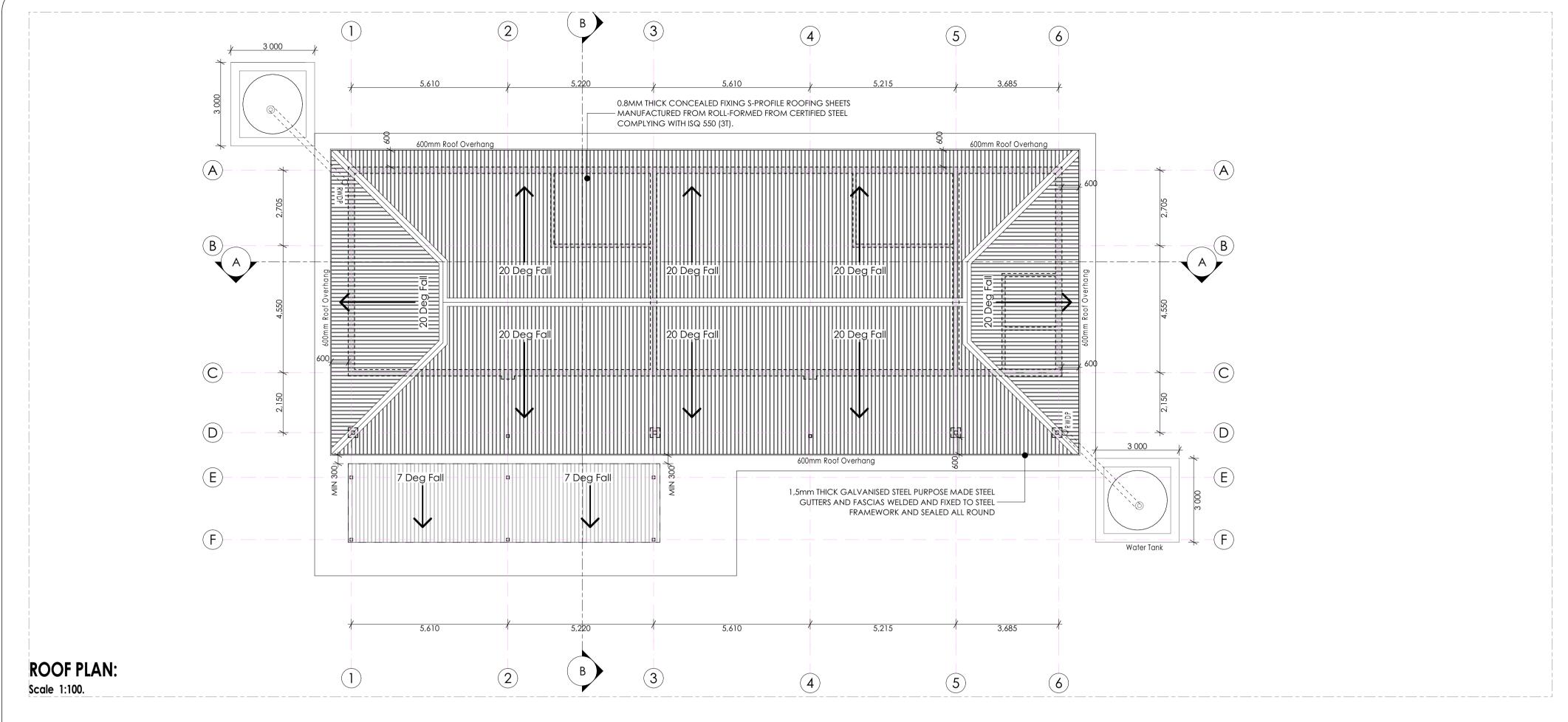
side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

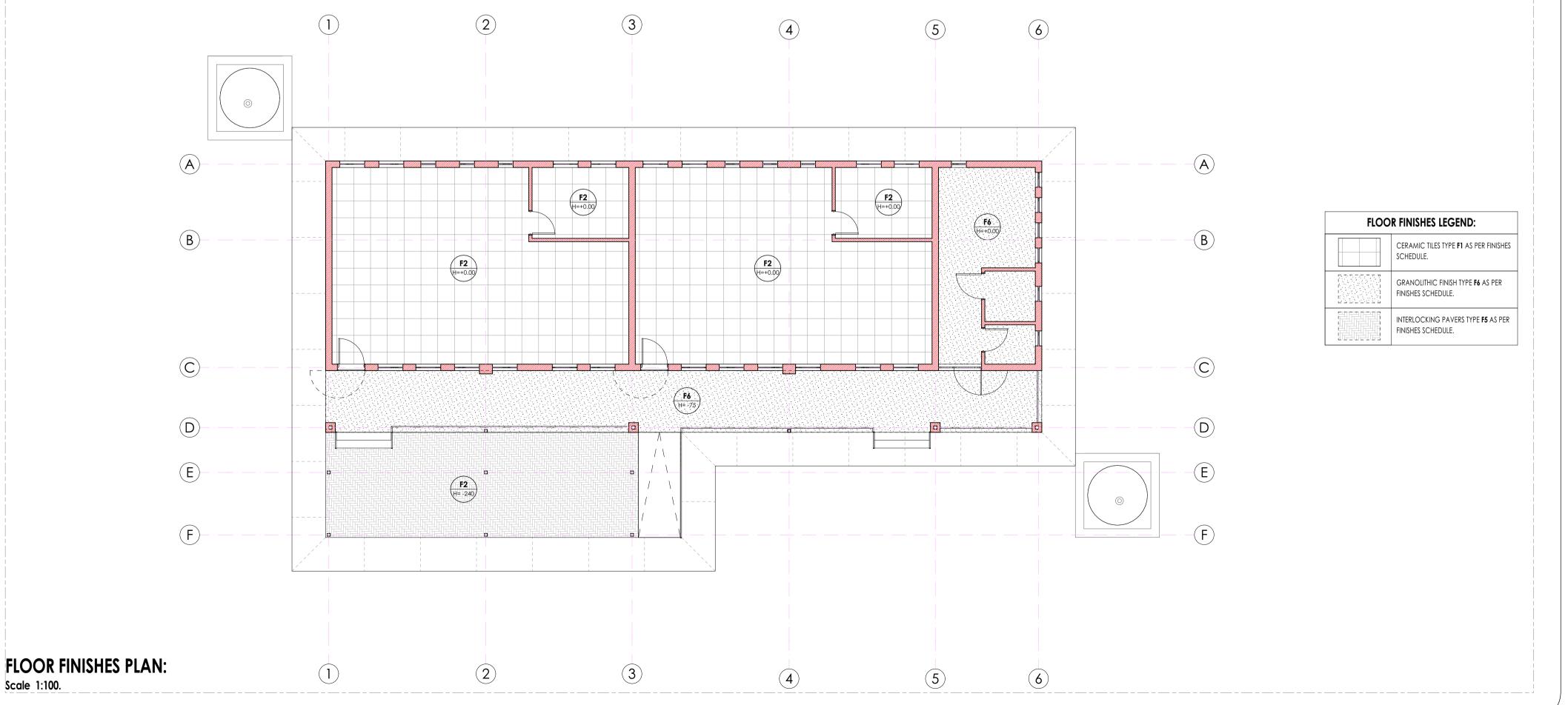
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

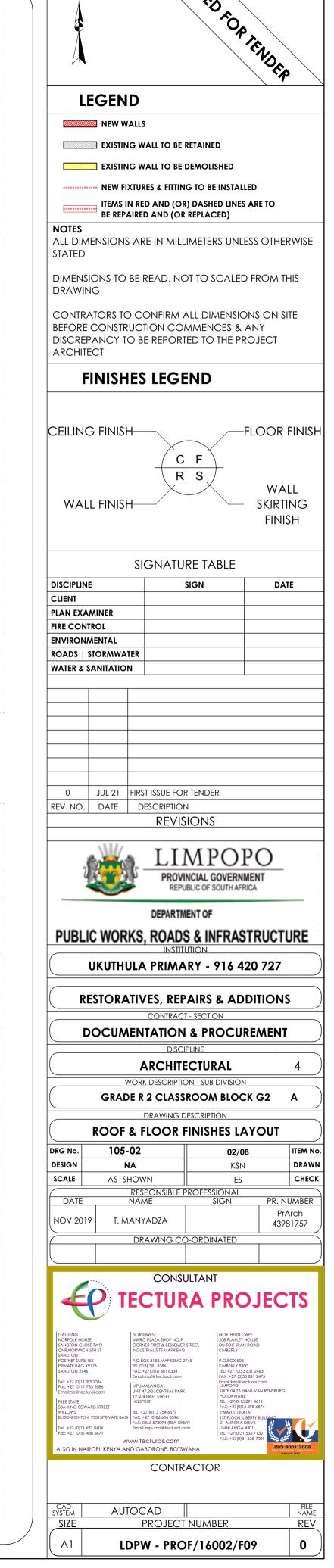
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board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

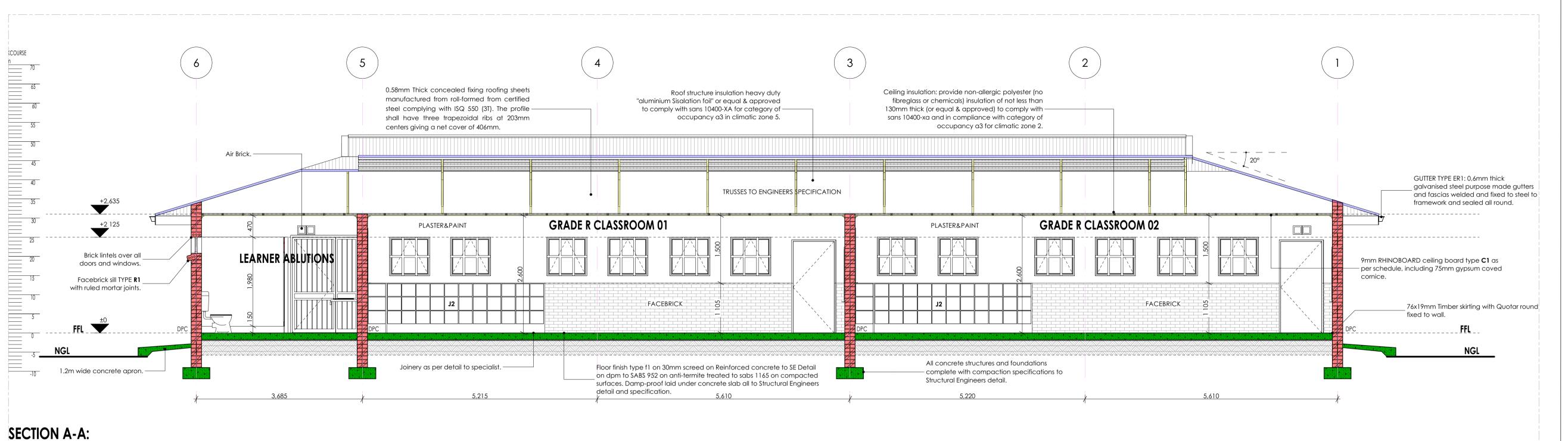
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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.

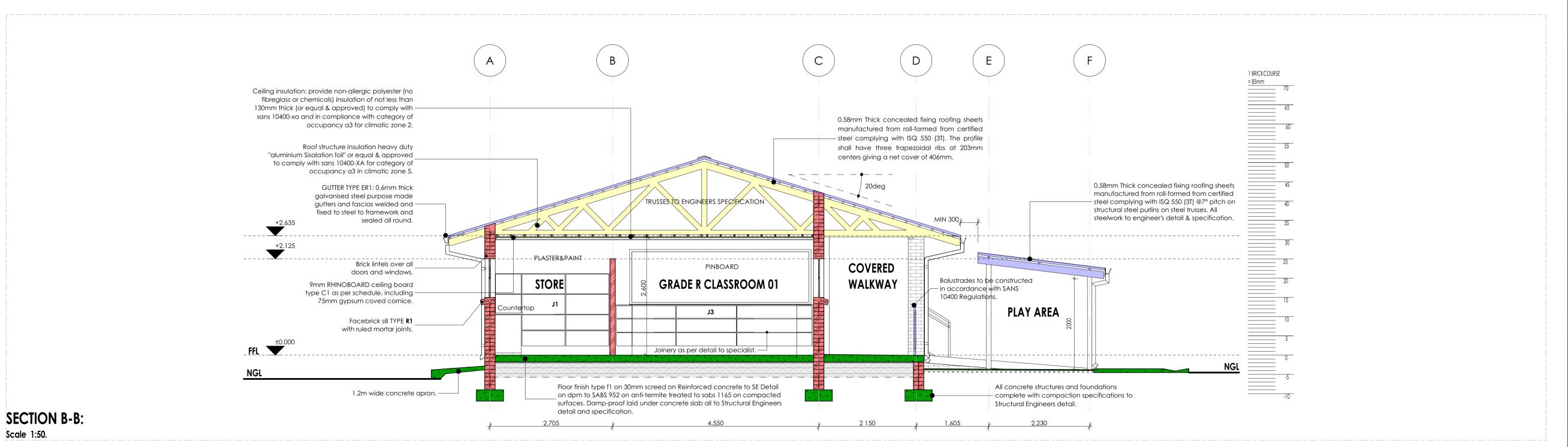


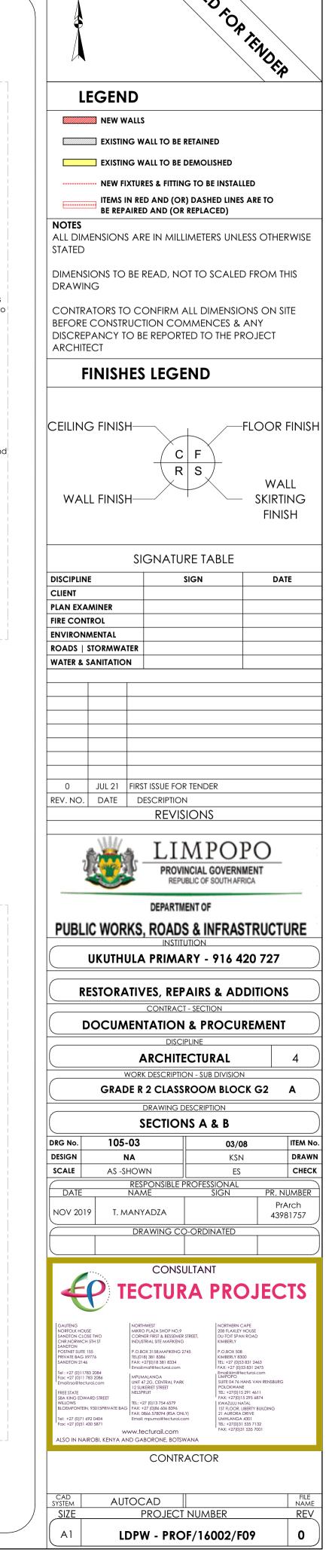






Scale 1:50.





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

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.

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 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 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

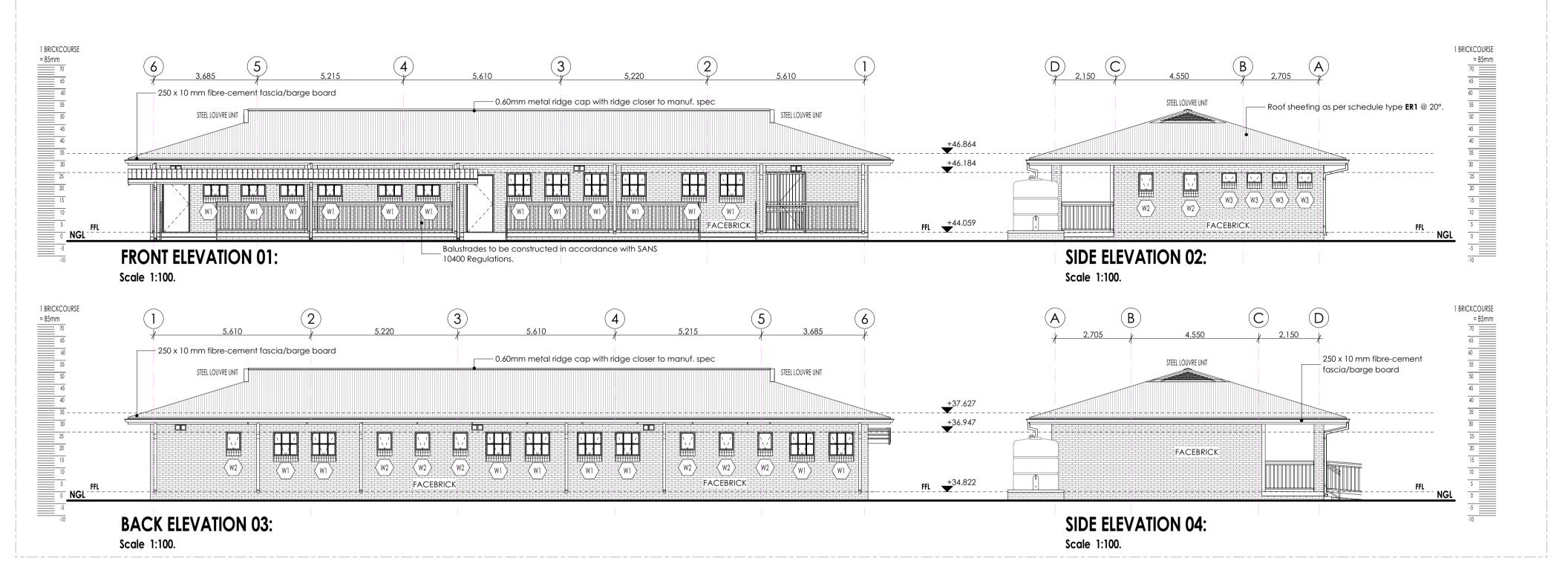
side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

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

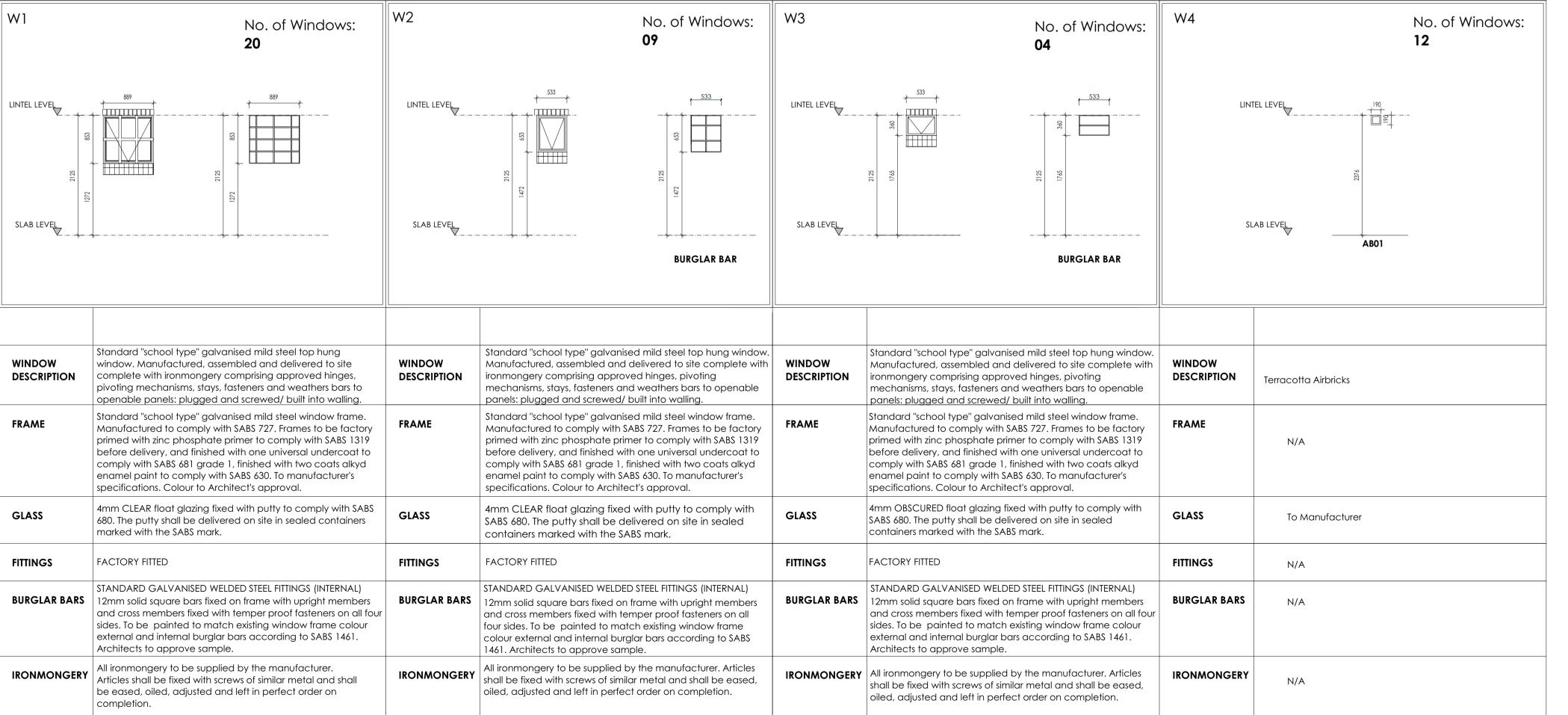
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board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

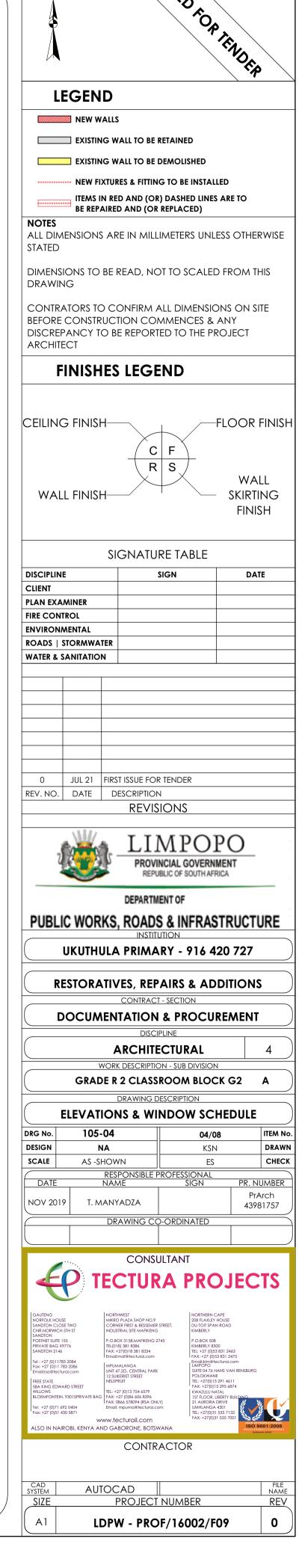
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

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.



WINDOW SCHEDULE:





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

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 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:

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.

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.

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 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 nto 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:

compliance to manufacturer's instructions.

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

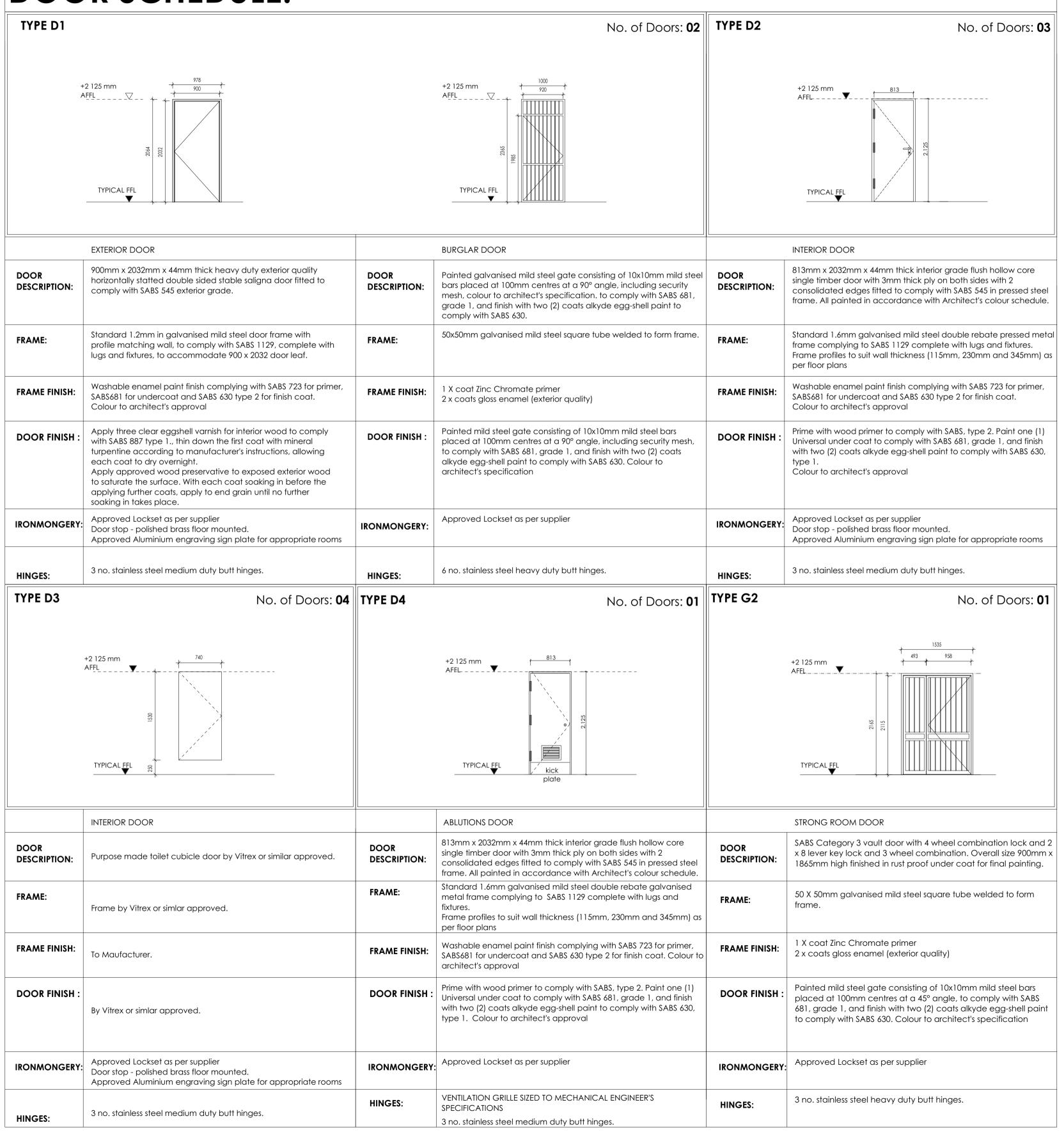
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

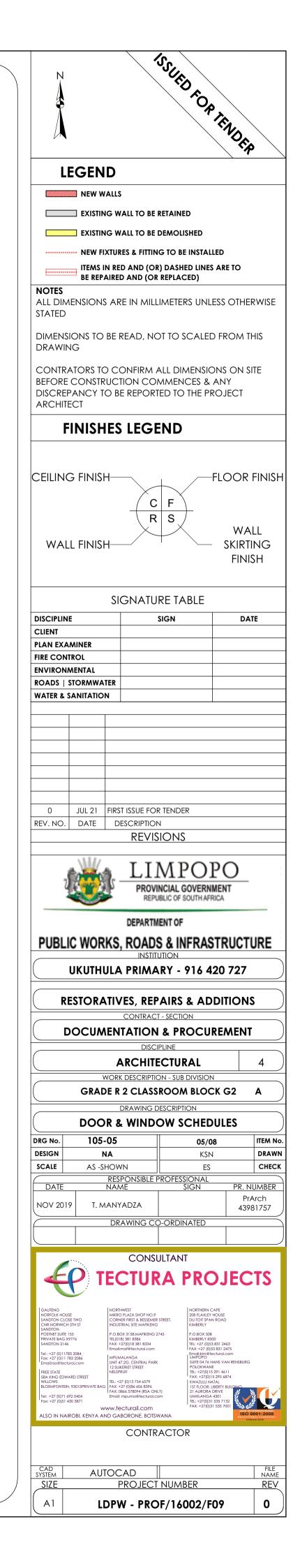
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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

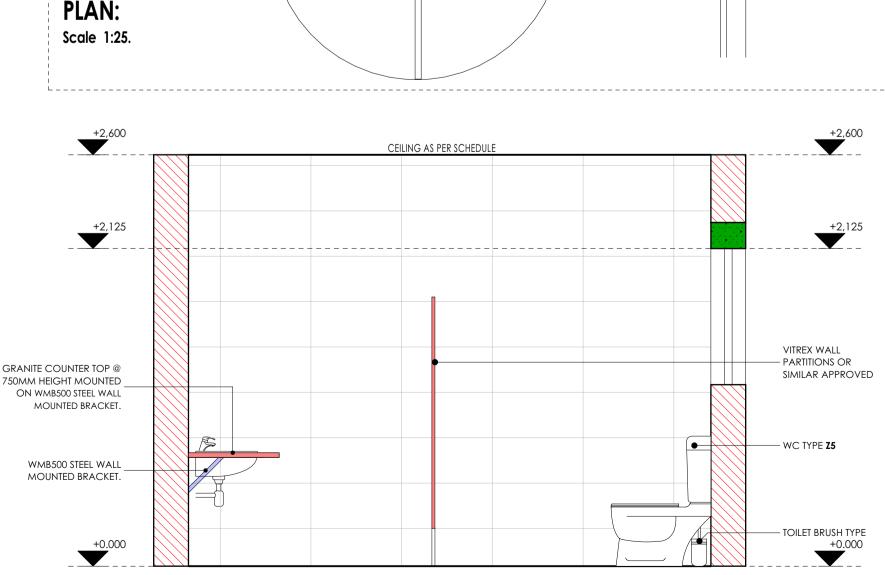
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR 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 "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. LEARNER ABLUTIONS 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 Z7: CERAMIC PARAPLEGIC WC (JUNIOR LOW LEVEL SUITE) Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with 6 litre Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. **WASH-HAND BASIN** (W3 -/aal 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. VITREX WALL '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 PARTITIONS OR basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves. SIMILAR APPROVED **B2: DISABLED BASIN** itreous 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 WC TYPE **Z7** -000--**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: TISSUE ROLL 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated HOLDER TYPE K1 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 +0.000 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 C1 F6 flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's R4 S2 **ELEVATION 01: B6: MEDIC BASIN & FITTINGS (SICK BAY)** Scale 1:25. 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 TISSUE ROLL manufacturer's specifications. HOLDER TYPE **K1** 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 STAFF WC and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings. A: 3 m^2 CEILING AS PER SCHEDUL ABLUTIONS 18 m² X1: STAINLESS STEEL SINK Grano - ₩2 - + - 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 assessmes 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 RNER A: Q 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 WASH HAND brackets supplied with all necessary accessories (all to be acid resistant) BASIN TYPE **B1** 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 PAPER TOWEL 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 D2 DISPENSER K4 piece at height of 915mm AFFL. SANITARY ACCESSORIES



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LEGEND

EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE

SIGNATURE TABLE

-FLOOR FINISH

SKIRTING

FINISH

DATE

BEFORE CONSTRUCTION COMMENCES & ANY

FINISHES LEGEND

DISCREPANCY TO BE REPORTED TO THE PROJECT

BE REPAIRED AND (OR REPLACED)

ITEMS IN RED AND (OR) DASHED LINES ARE TO

MEW WALLS

DRAWING

ARCHITECT

CEILING FINISH—

WALL FINISH-

DISCIPLINE

PLAN EXAMINER

FIRE CONTROL

ENVIRONMENTAL

ROADS | STORMWATER

WATER & SANITATION

0 JUL 21 FIRST ISSUE FOR TENDER

PROVINCIAL GOVERNMENT

REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF

PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE

ARCHITECTURAL

WORK DESCRIPTION - SUB DIVISION

DRAWING DESCRIPTION

ABLUTION WET AREA DETAILS

RESPONSIBLE PROFESSIONAL NAME SIGN

DRAWING CO-ORDINATED

CONSULTANT

GRADE R 2 CLASSROOM BLOCK G2 A

06/08

KSN

DRAWN

CHECK

PR. NUMBER

43981757

REV. NO. DATE DESCRIPTION

CLIENT

DRG No.

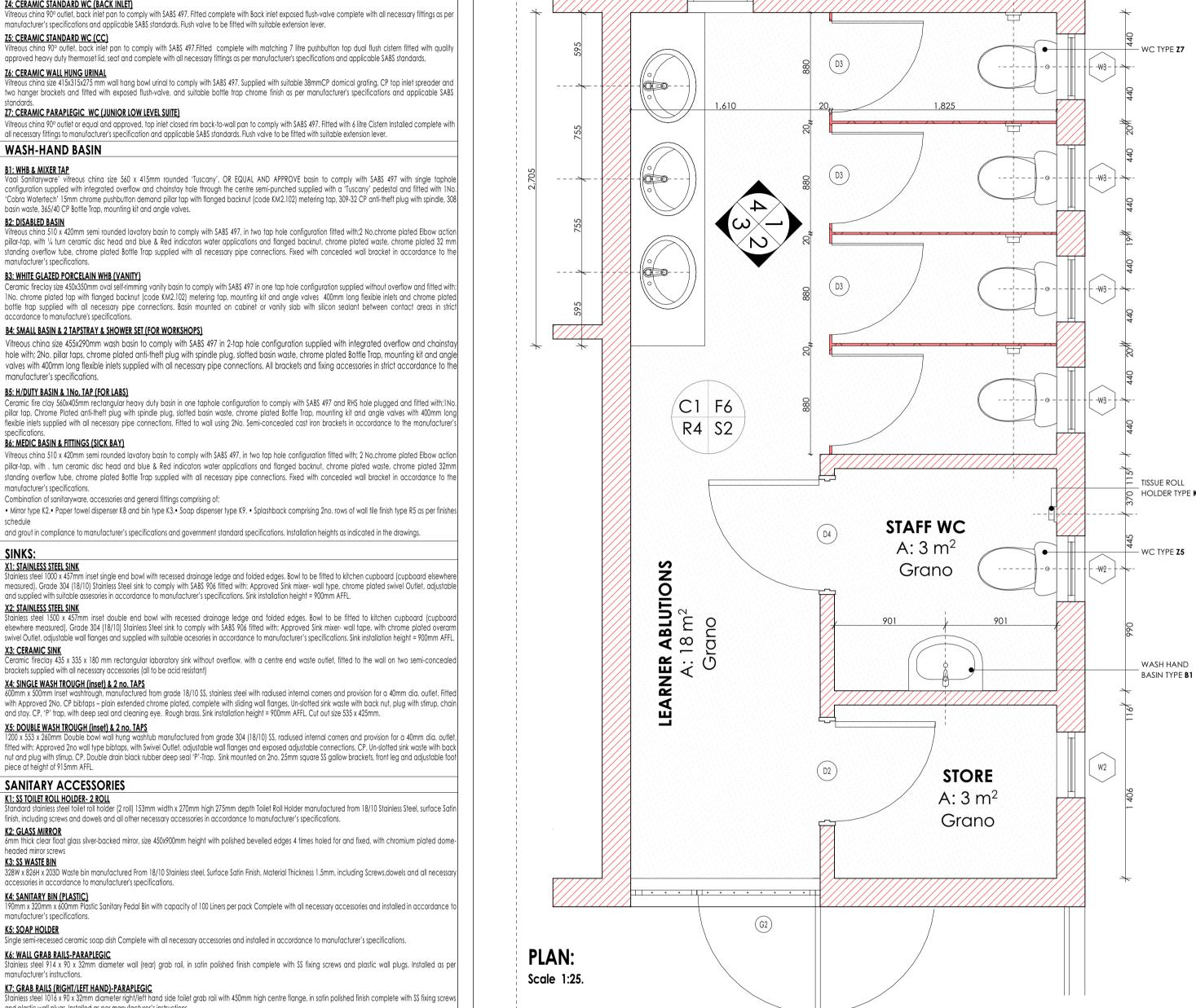
DESIGN

SCALE

NOV 2019

AS -SHOWN

T. MANYADZA



manufacturer's instructions. K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions **K8: PAPER TOWEL DISPENSER**

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

finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

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

K1: SS TOILET ROLL HOLDER- 2 ROLL

accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR

headed mirror screws K3: SS WASTE BIN

K4: SANITARY BIN (PLASTIC)

manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC

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 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

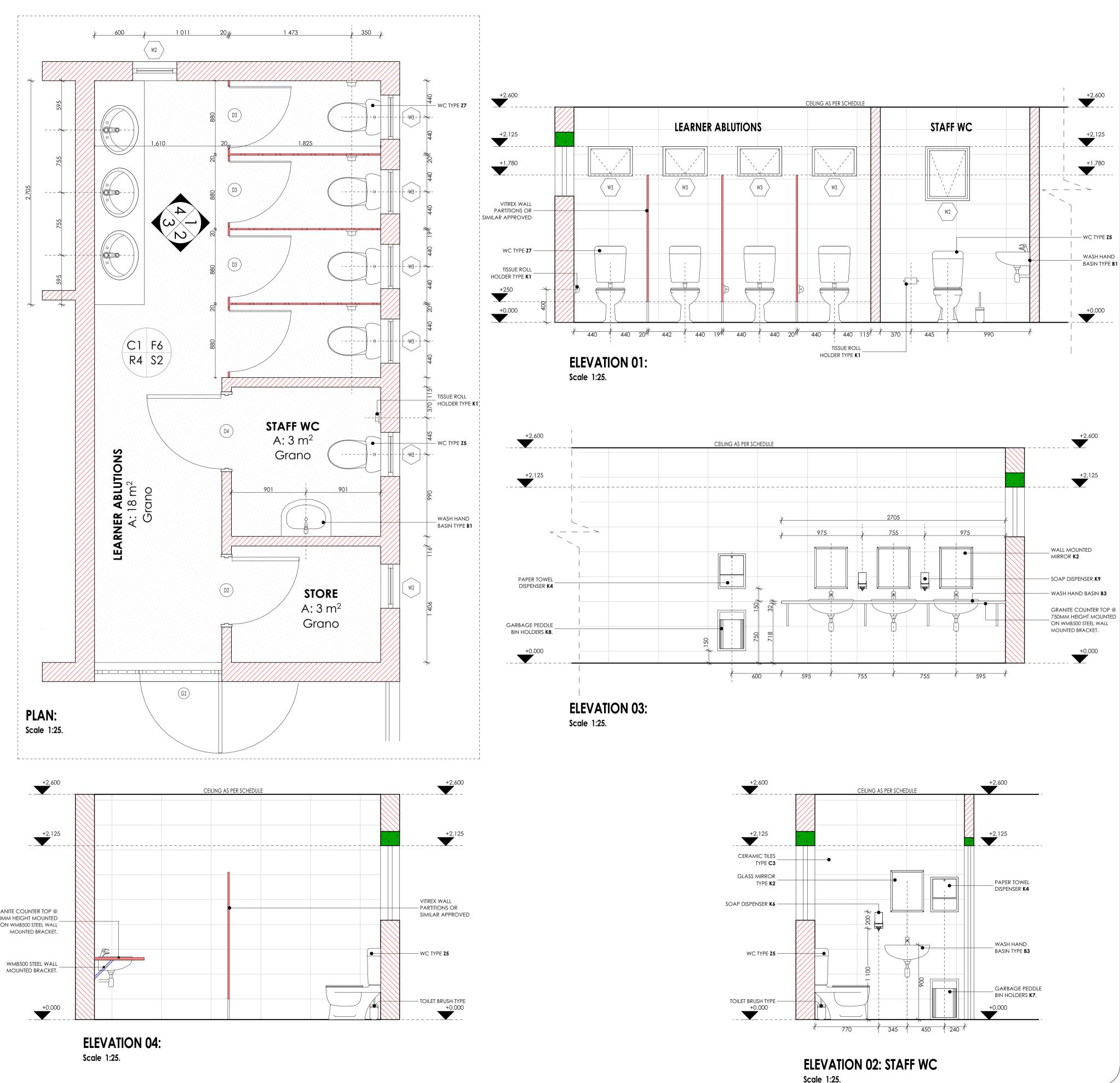
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

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.



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.

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 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.

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 5" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to 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

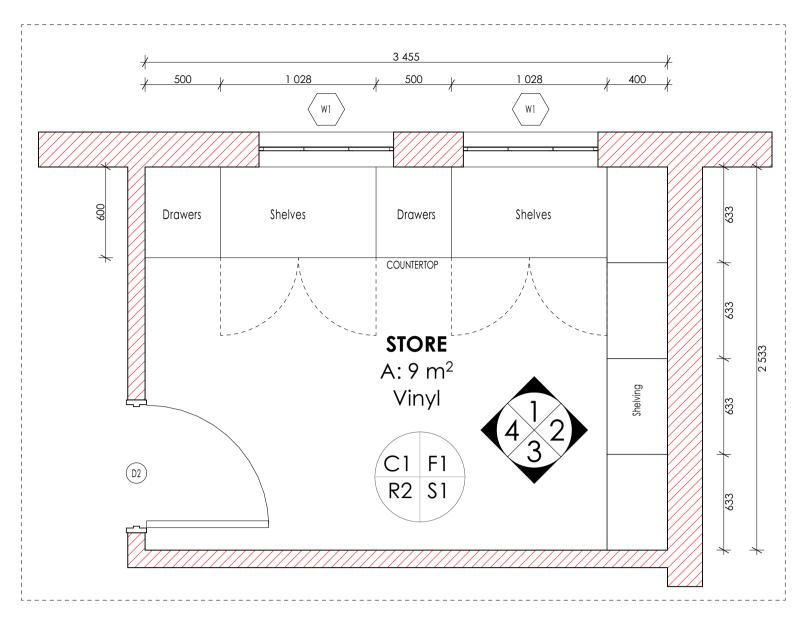
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

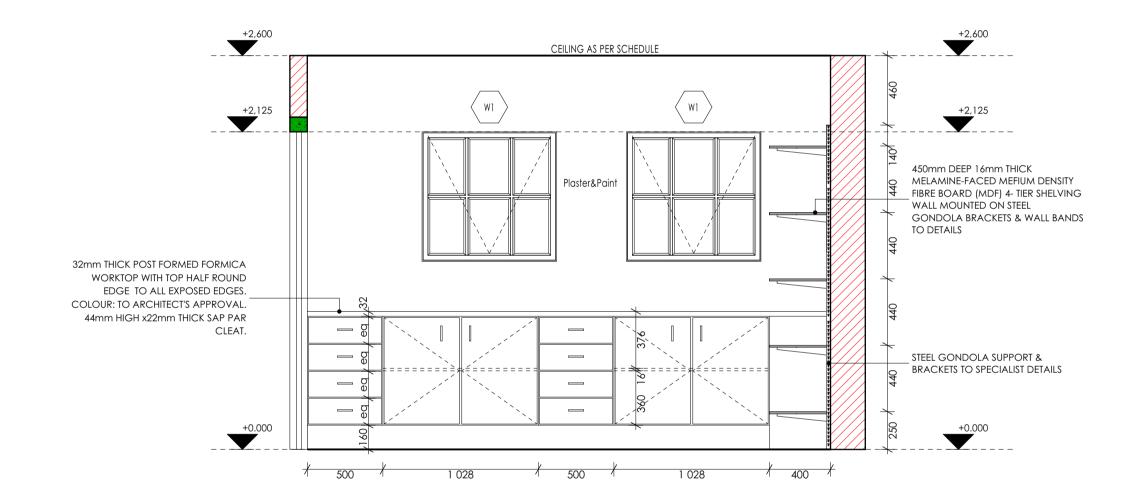
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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.

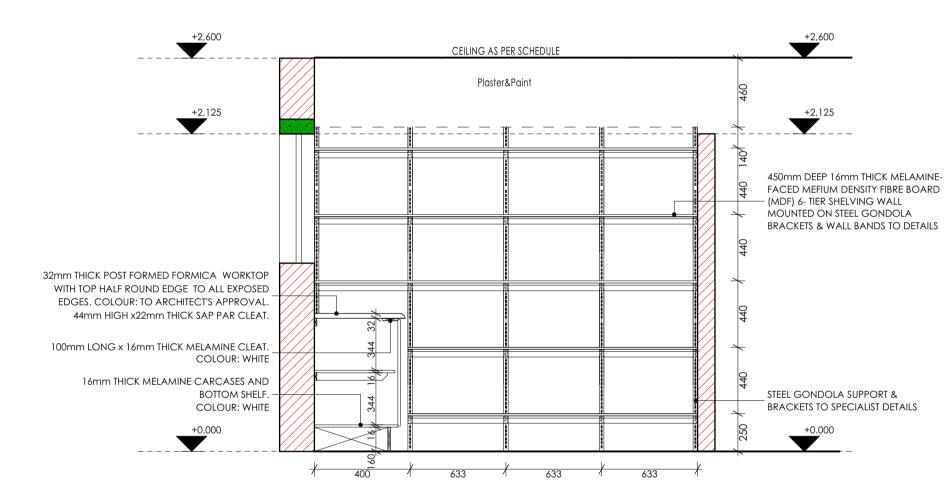


STORE PLAN:

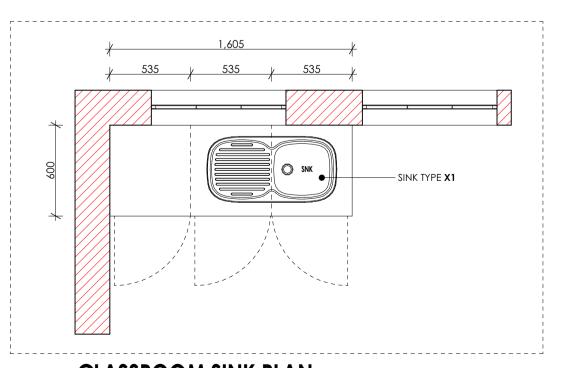
Scale 1:25.



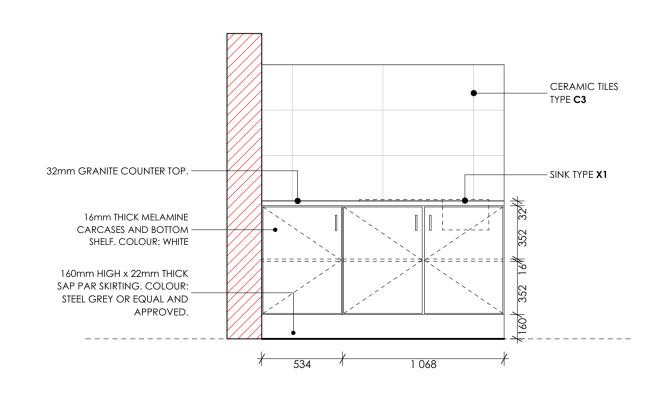
ELEVATION 01: Scale 1:25.



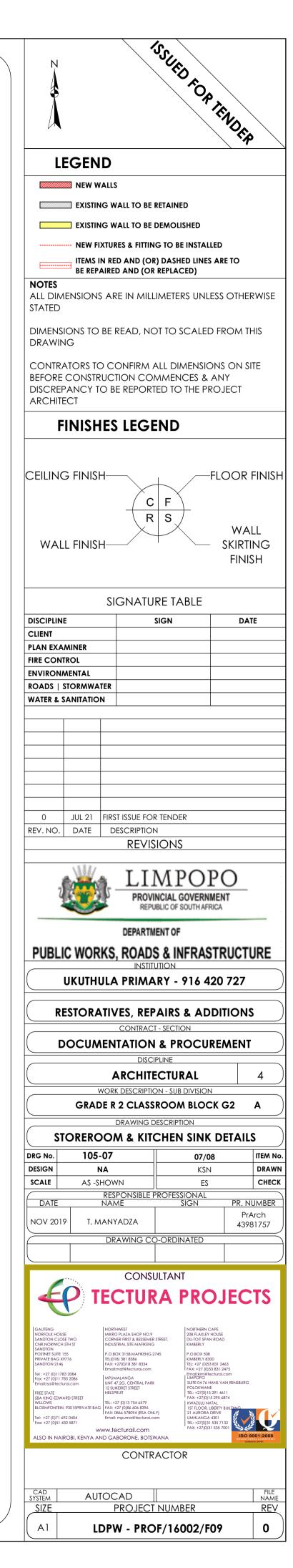
ELEVATION 02: Scale 1:25.



CLASSROOM SINK PLAN: Scale 1:25.



ELEVATION 01: 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

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

Z7: CERAMIC PARAPLEGIC WC (JUNIOR LOW LEVEL SUITE) Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with 6 litre Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

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 Waterlech' 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

/itreous 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

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)

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

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 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 andard 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.

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)

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

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.

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.

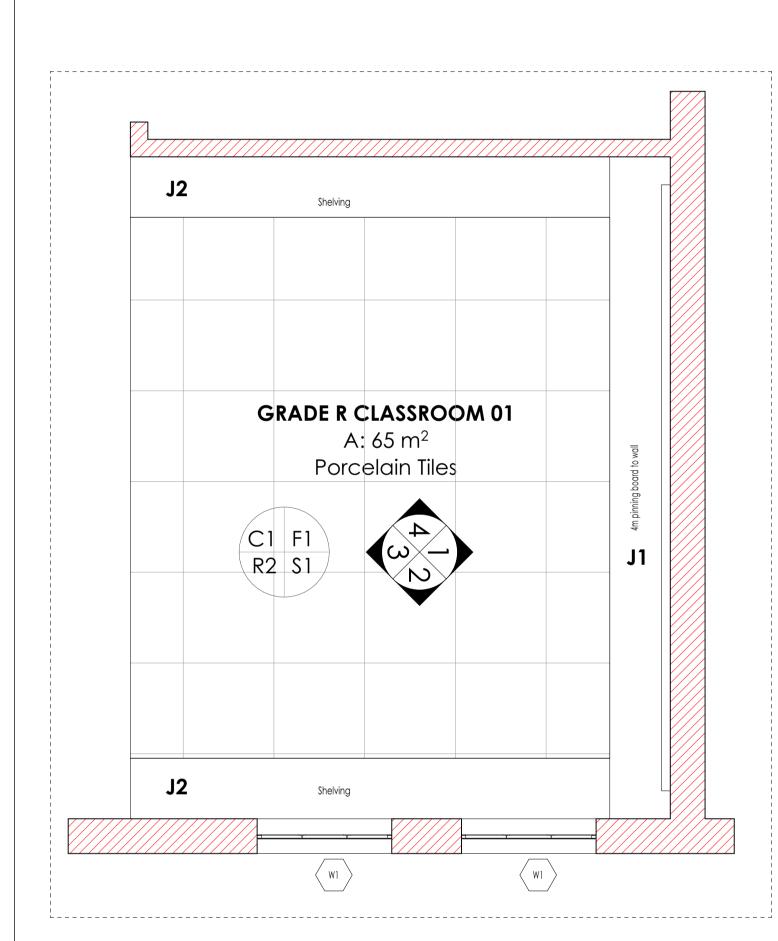
G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

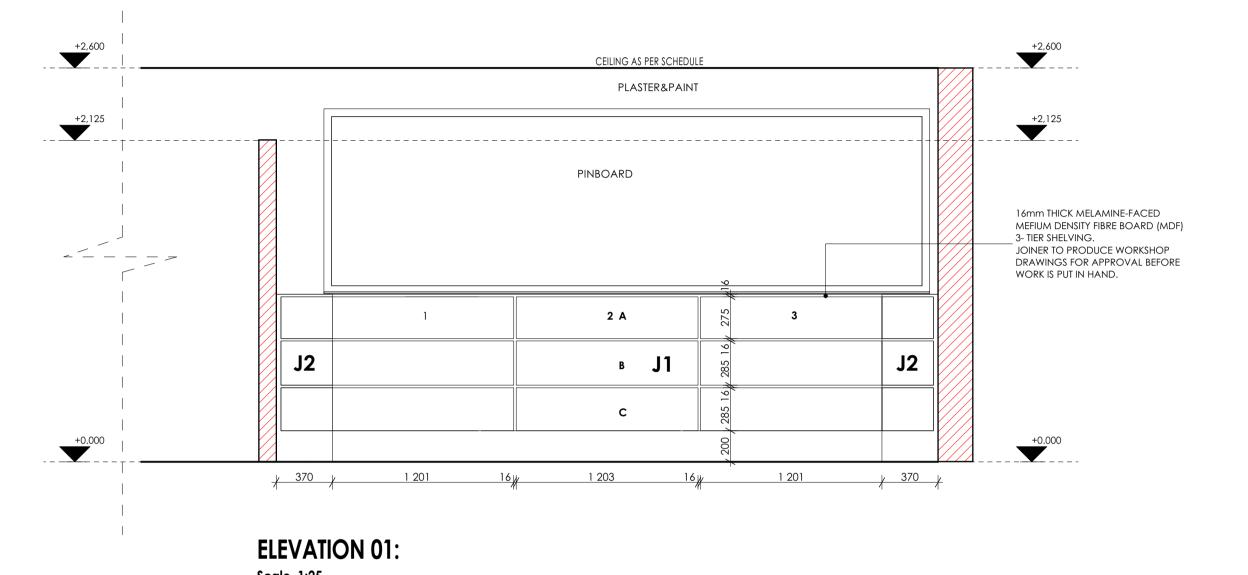
G7: SS FLOOR EXPANSION JOINT COVER

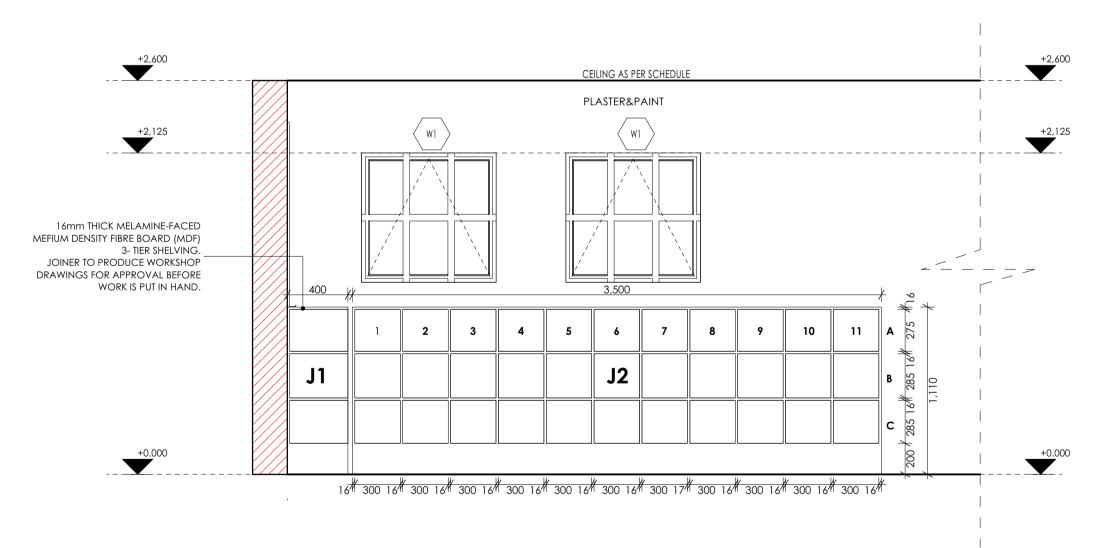
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

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.





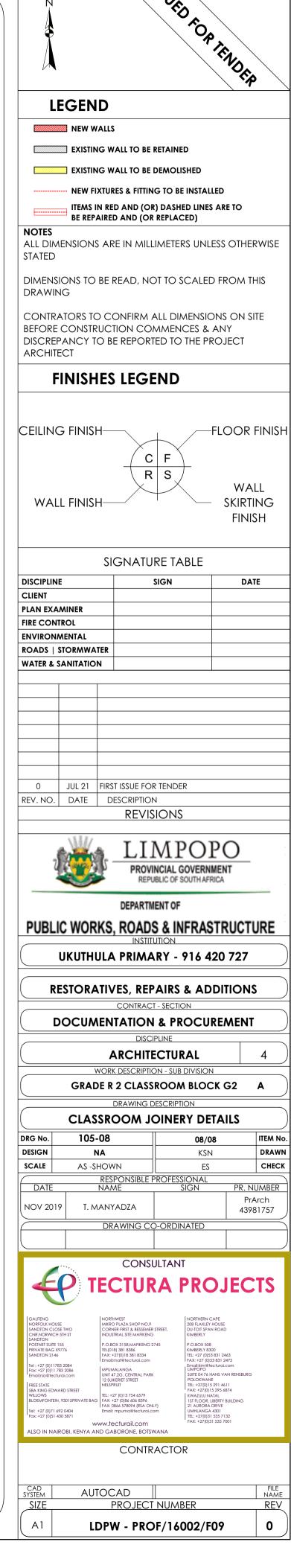


Scale 1:25.

PLAN:

ELEVATION 02:

Scale 1:25.



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 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 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, 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 nto 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

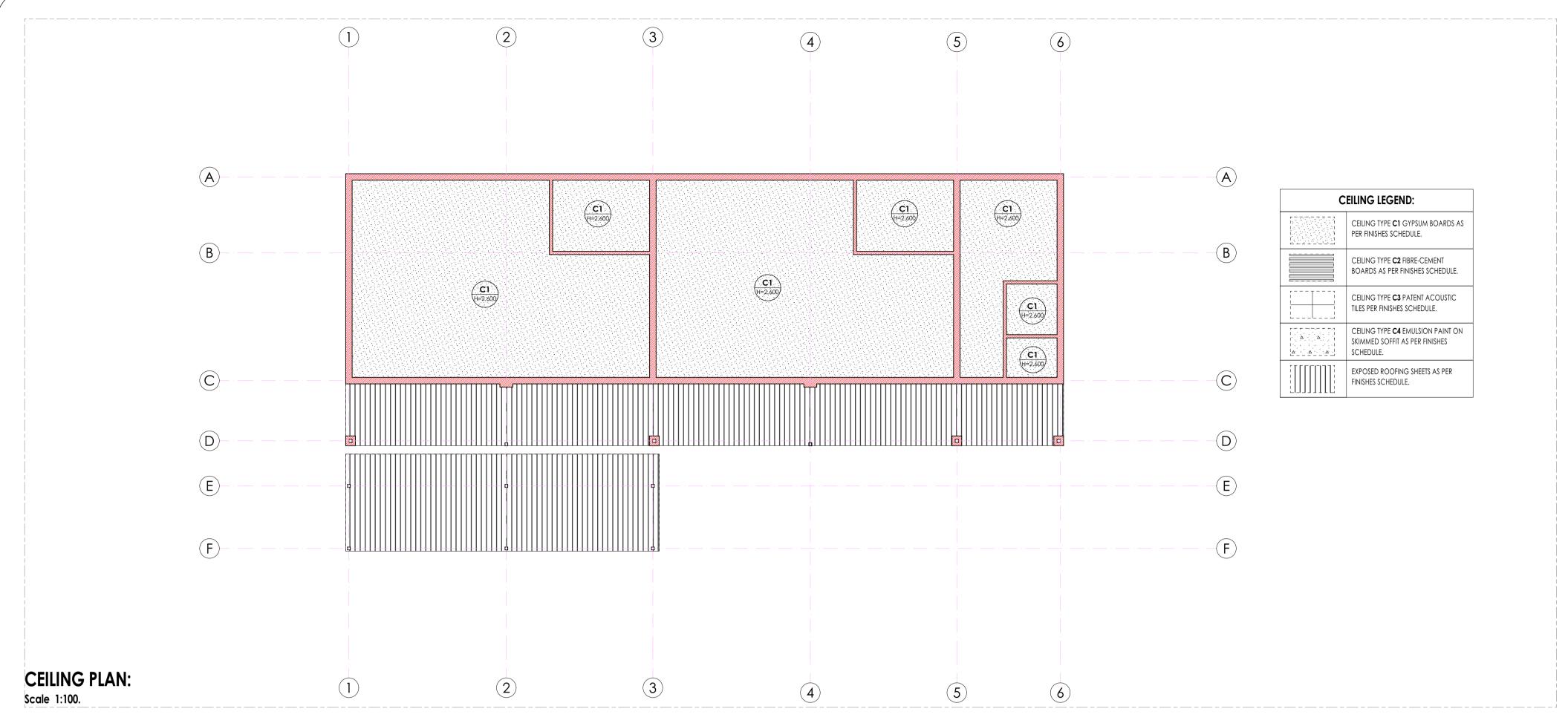
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

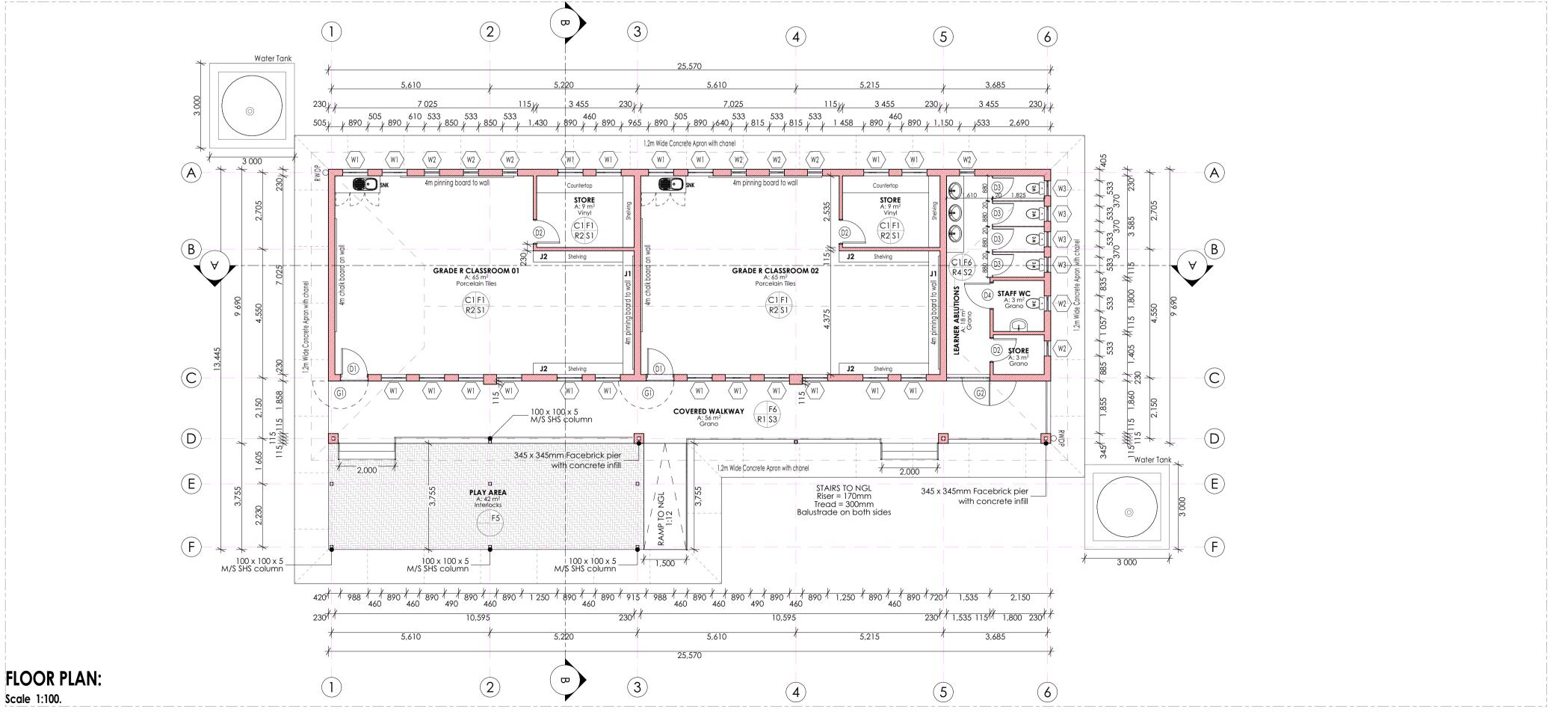
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board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

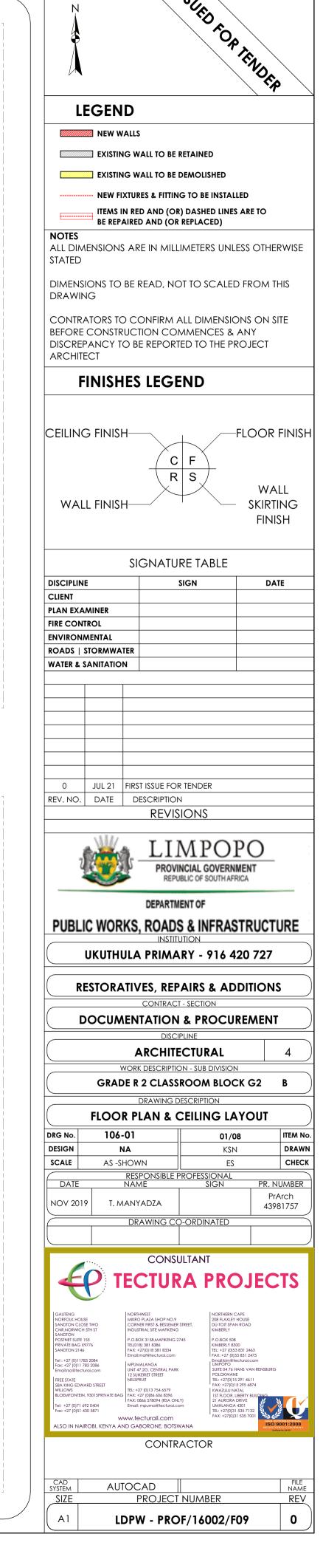
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Scale 1:100.

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.







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 screeds 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:

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.

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 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 nto 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

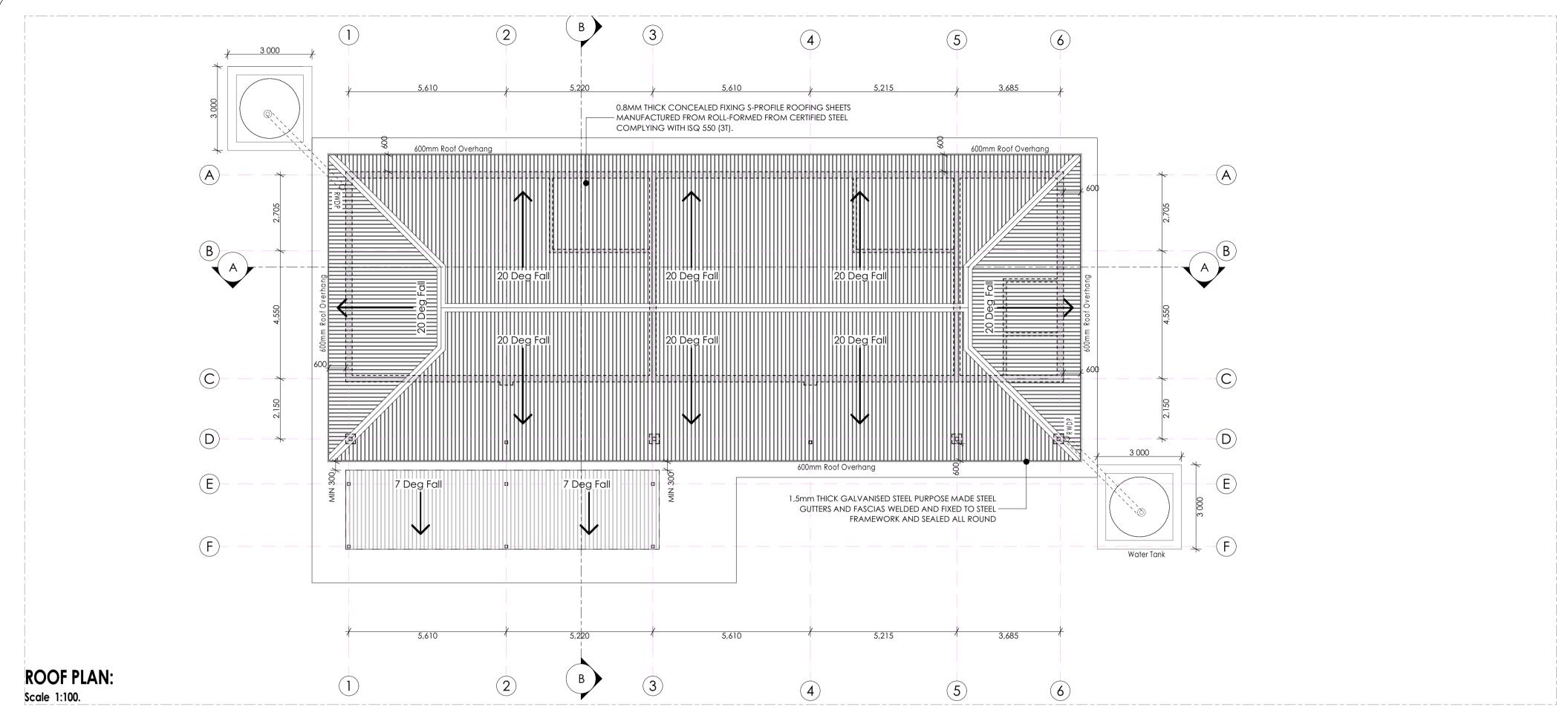
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

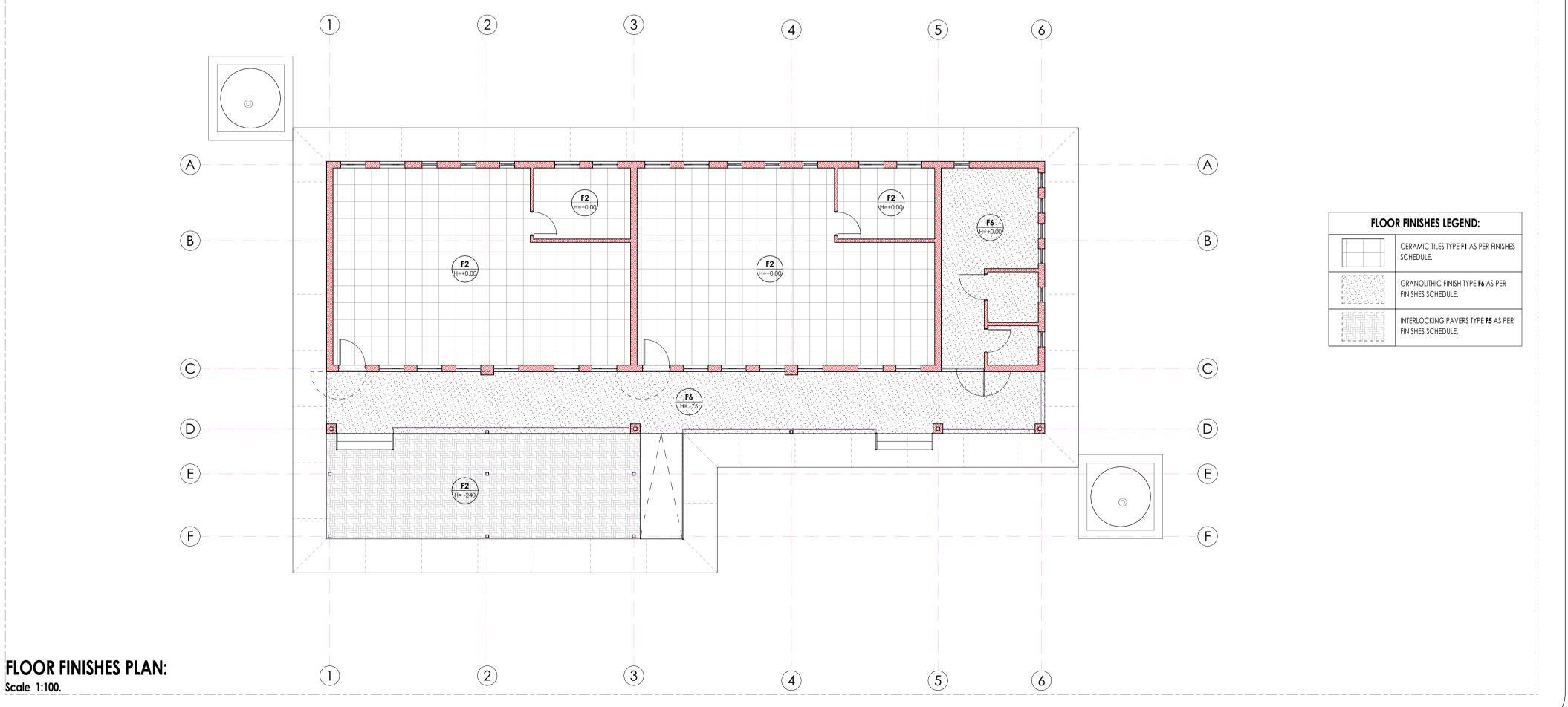
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

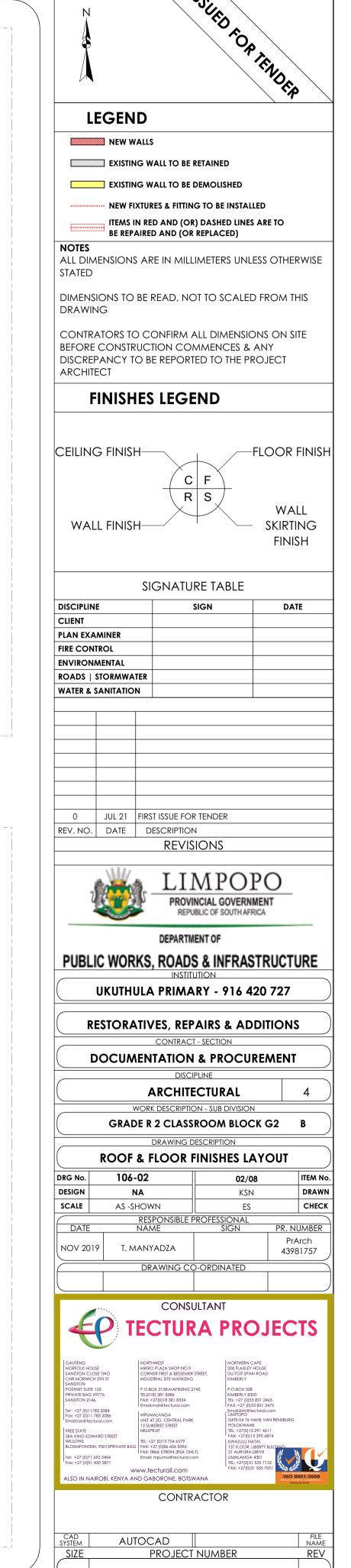
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

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.

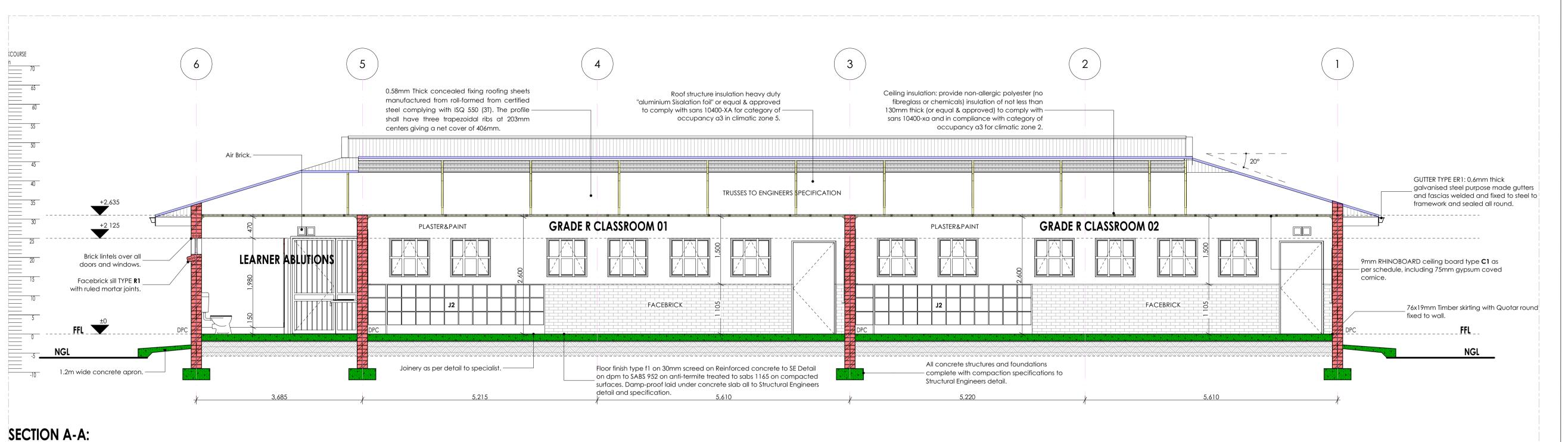
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



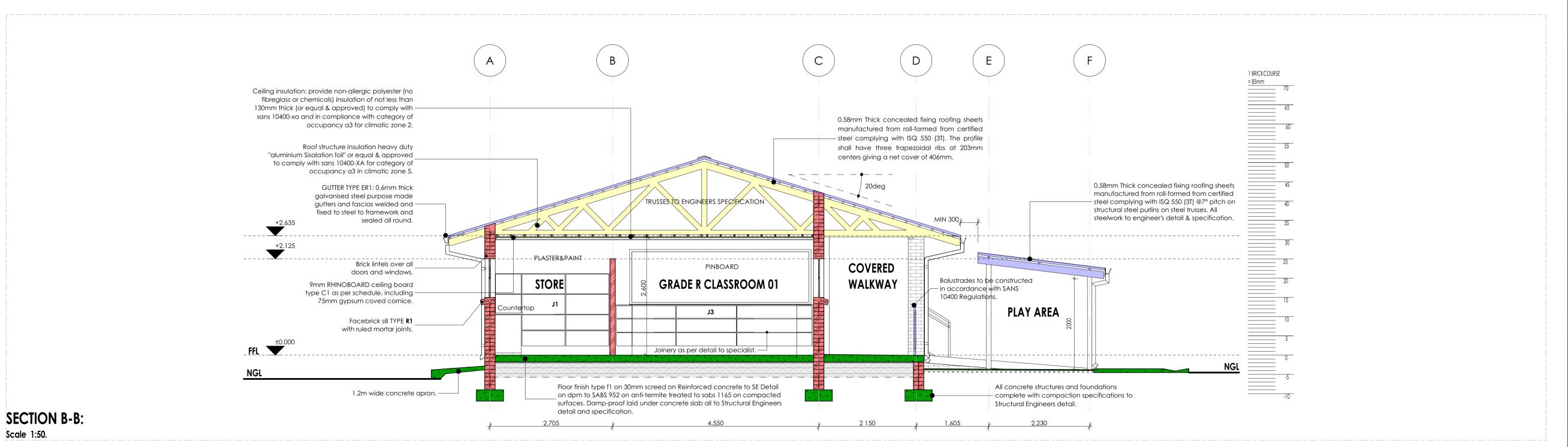


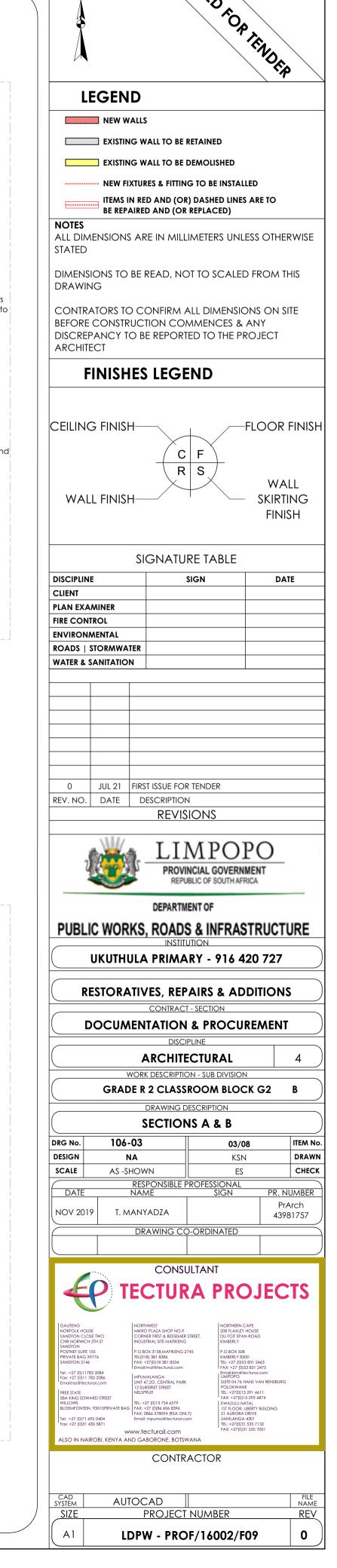


LDPW - PROF/16002/F09



Scale 1:50.





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 screeds 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.

F9: GRAVEL FINISH ON SAND LAYER

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

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.

\$2: 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.

floor finish to PA's approv

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

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.

applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be

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

"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:

Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

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 the result of the ribs of

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

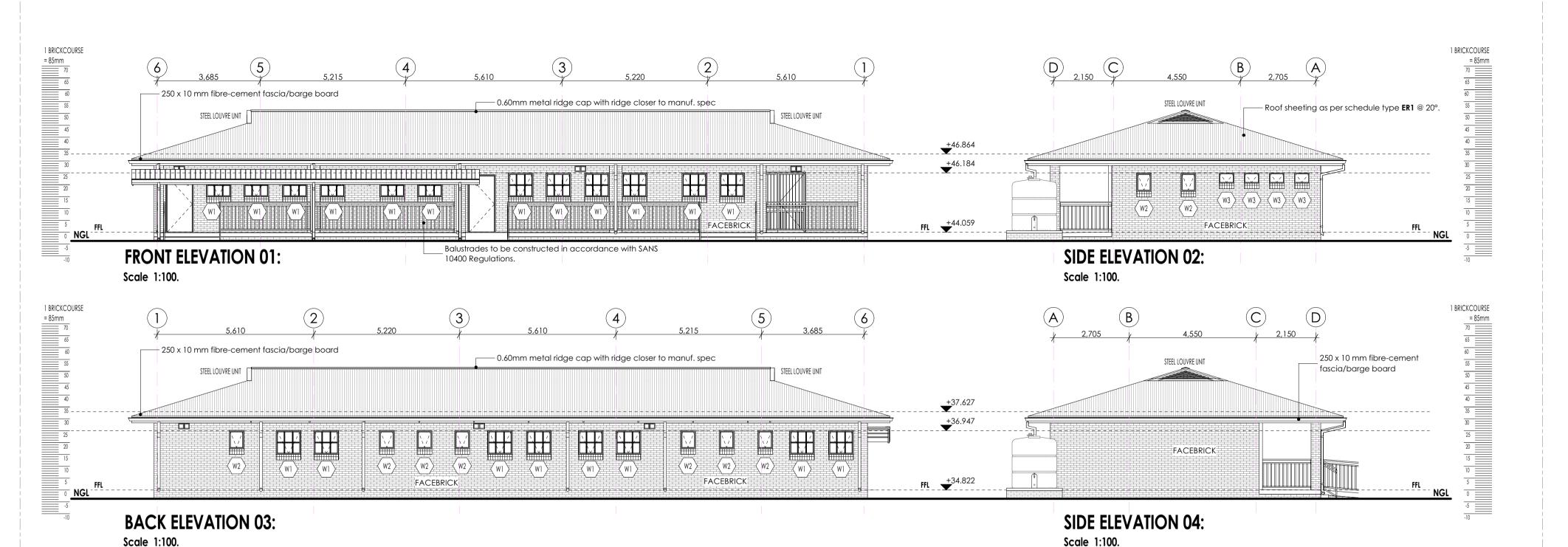
Rainwater Downpipes.

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

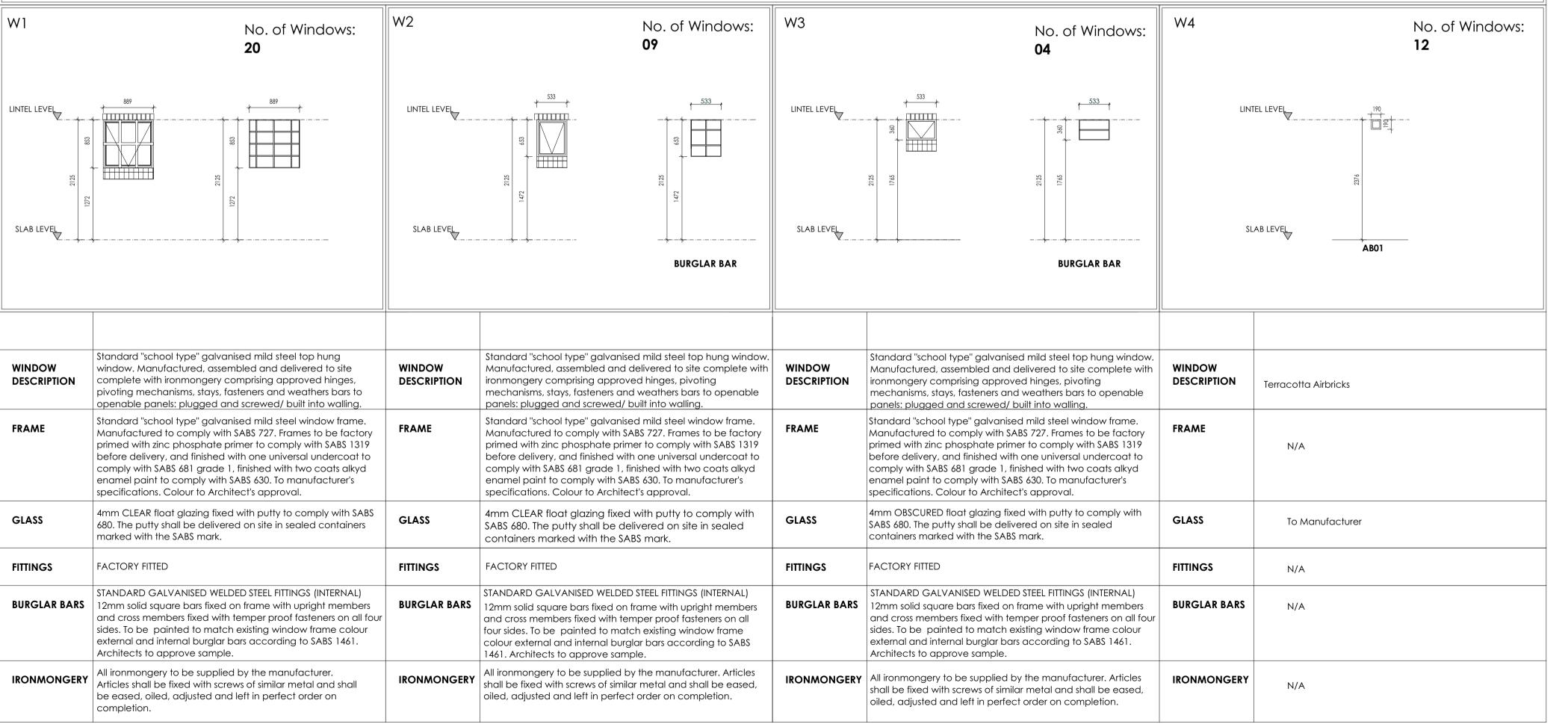
Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

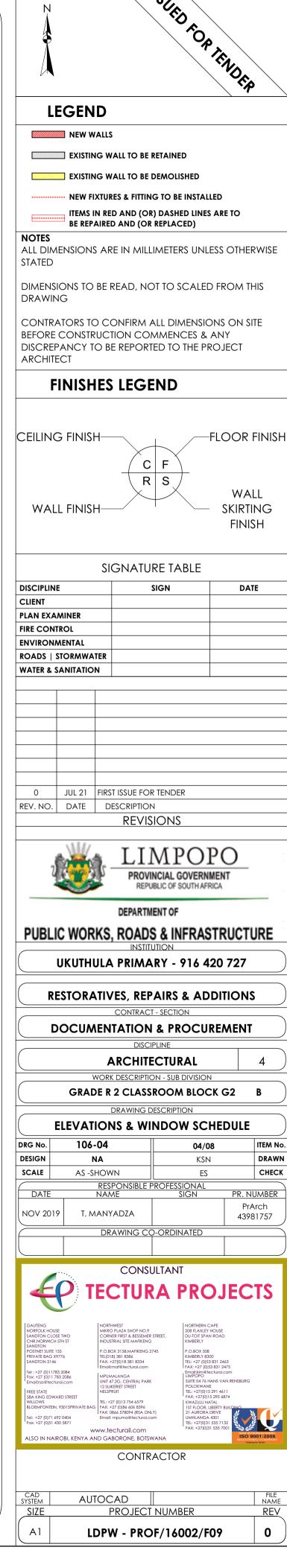
Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws.



WINDOW SCHEDULE:





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 ccreeds 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

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 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:

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.

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.

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 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 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

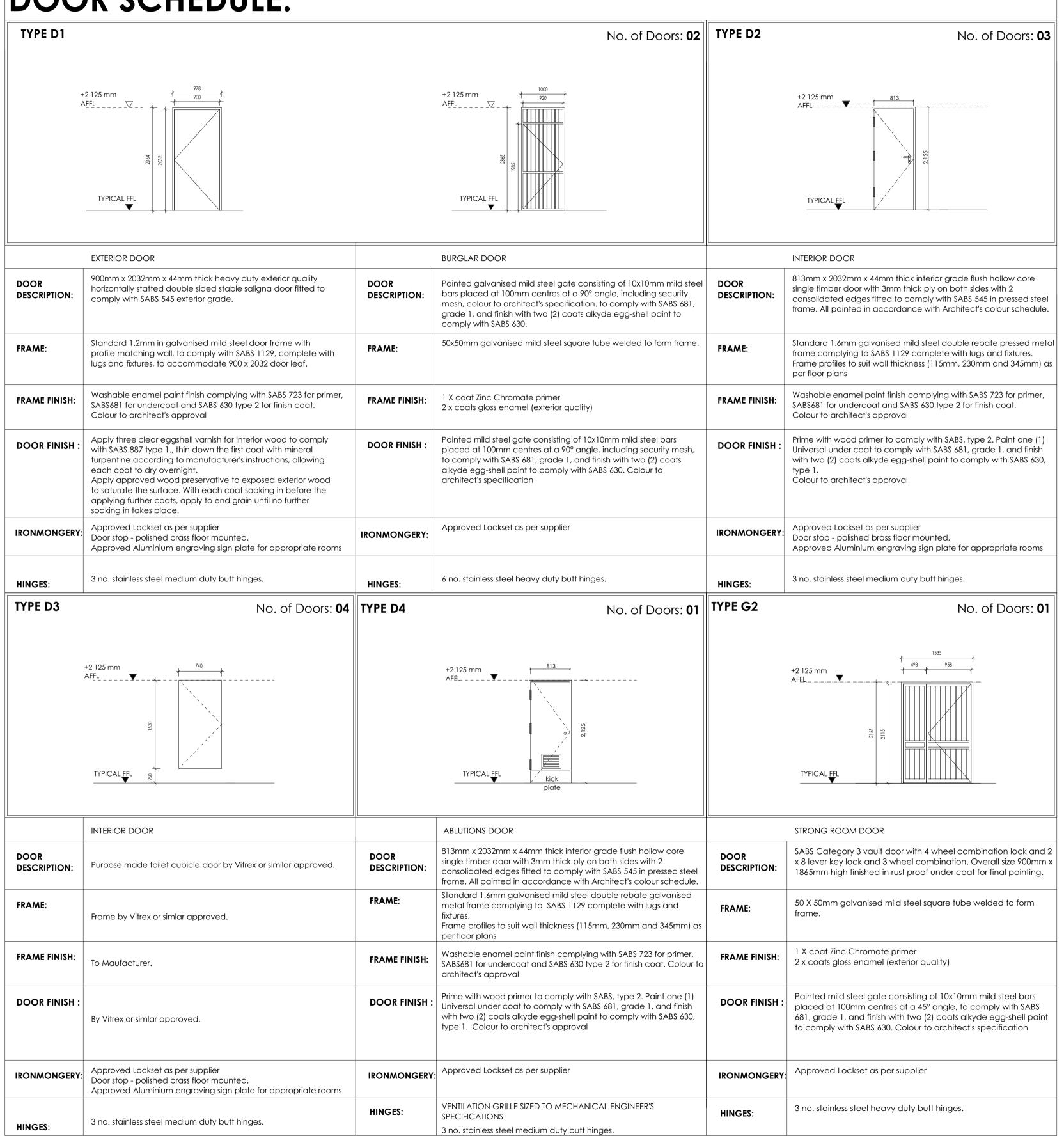
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

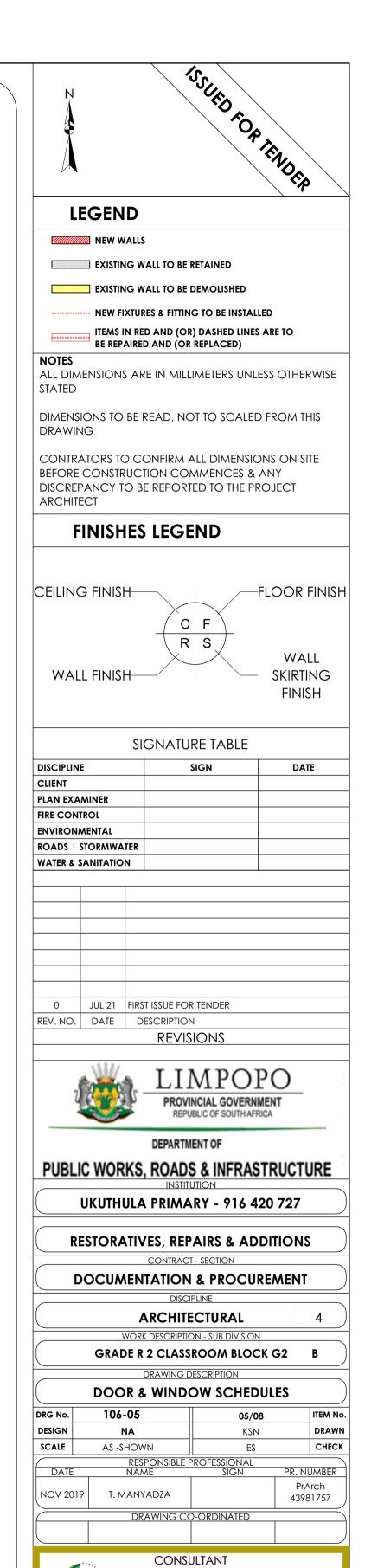
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.

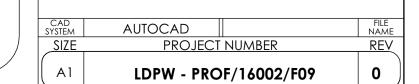
DOOR SCHEDULE:



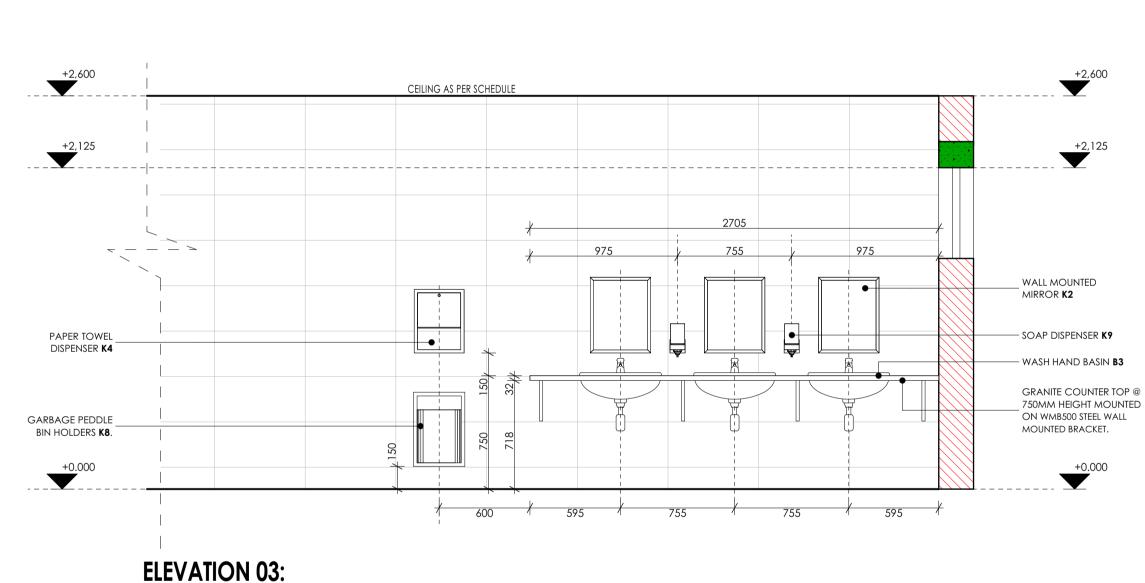




CONTRACTOR

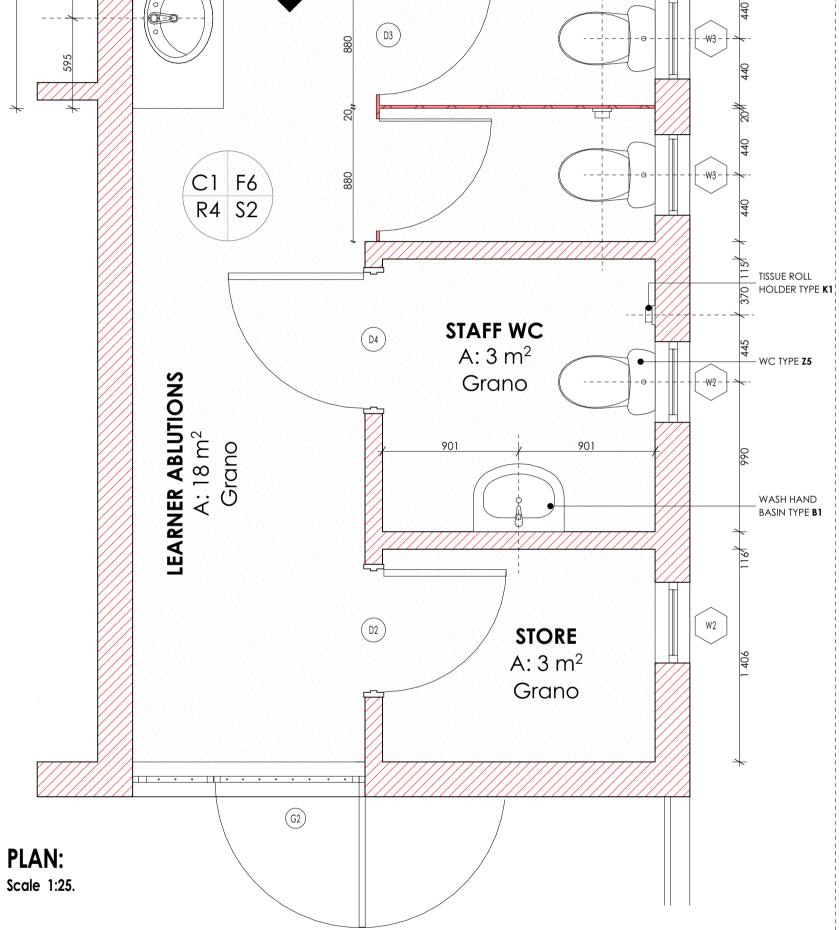


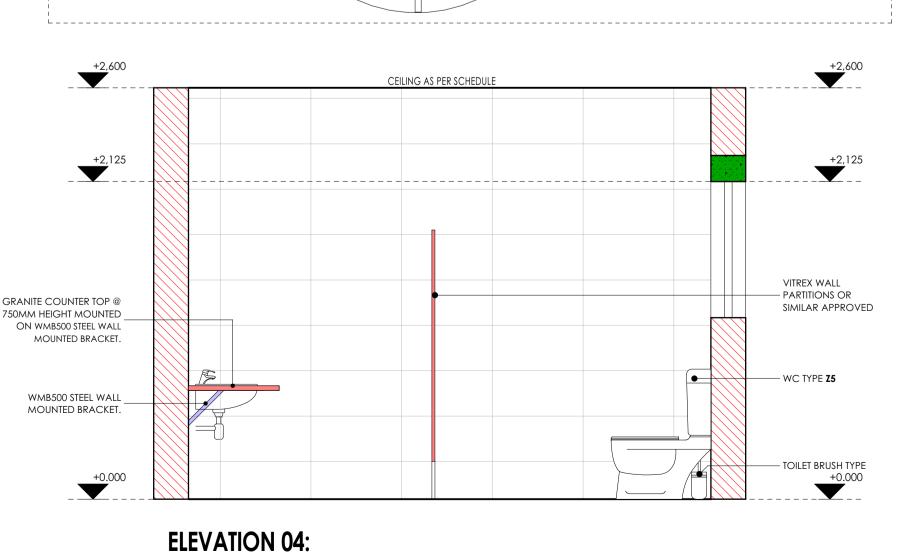
SANITARY SCHEDULE WC'S URINALS & SHOWER Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for 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)** CEILING AS PER SCHEDULE 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. LEARNER ABLUTIONS 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 Z7: CERAMIC PARAPLEGIC WC (JUNIOR LOW LEVEL SUITE) Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with 6 litre Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. **WASH-HAND BASIN** (W3 -/aal 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. VITREX WALL '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 PARTITIONS OR basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves. SIMILAR APPROVED **B2: DISABLED BASIN** itreous 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 WC TYPE **Z7** -000--**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: TISSUE ROLL 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated HOLDER TYPE K1 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 +0.000 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. + 440 + 440 20 + 442 + 440 19 + 440 + 440 20 + 440 115 + 370 + 445 + **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 C1 F6 flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's R4 S2 **ELEVATION 01: B6: MEDIC BASIN & FITTINGS (SICK BAY)** Scale 1:25. 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 TISSUE ROLL manufacturer's specifications. HOLDER TYPE **K1** 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 STAFF WC and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings. A: 3 m^2 CEILING AS PER SCHEDUL ABLUTIONS 18 m² X1: STAINLESS STEEL SINK Grano - ₩2 - + - 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 assessmes 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 RNER A: Q 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 WASH HAND brackets supplied with all necessary accessories (all to be acid resistant) BASIN TYPE **B1** 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 PAPER TOWEL 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



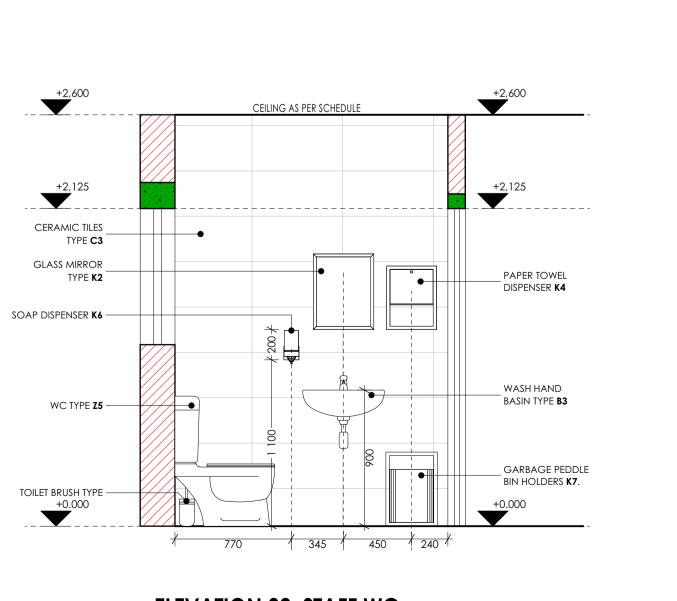
Scale 1:25.

TISSUE ROL HOLDER TYPE K1





Scale 1:25.



STAFF WC

ELEVATION 02: STAFF WC Scale 1:25.

piece at height of 915mm AFFL. SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL

indard 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. K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC

Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions **K8: PAPER TOWEL DISPENSER** 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

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. **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.

LEGEND MEW WALLS EXISTING WALL TO BE RETAINED EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT FINISHES LEGEND **WASH HAND** BASIN TYPE **B1** -FLOOR FINISH CEILING FINISH— +0.000 WALL FINISH-**SKIRTING** FINISH SIGNATURE TABLE DATE DISCIPLINE CLIENT PLAN EXAMINER FIRE CONTROL **ENVIRONMENTAL ROADS | STORMWATER WATER & SANITATION** 0 JUL 21 FIRST ISSUE FOR TENDER REV. NO. DATE DESCRIPTION PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE **ARCHITECTURAL** WORK DESCRIPTION - SUB DIVISION GRADE R 2 CLASSROOM BLOCK G2 B DRAWING DESCRIPTION ABLUTION WET AREA DETAILS DRG No. 06/08 DRAWN KSN SCALE CHECK AS -SHOWN RESPONSIBLE PROFESSIONAL NAME SIGN PR. NUMBER

NOV 2019

T. MANYADZA

www.tecturail.com

LSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

AUTOCAD

DRAWING CO-ORDINATED

CONSULTANT

CONTRACTOR

PROJECT NUMBER

LDPW - PROF/16002/F09

43981757

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.

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 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.

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 5" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to 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

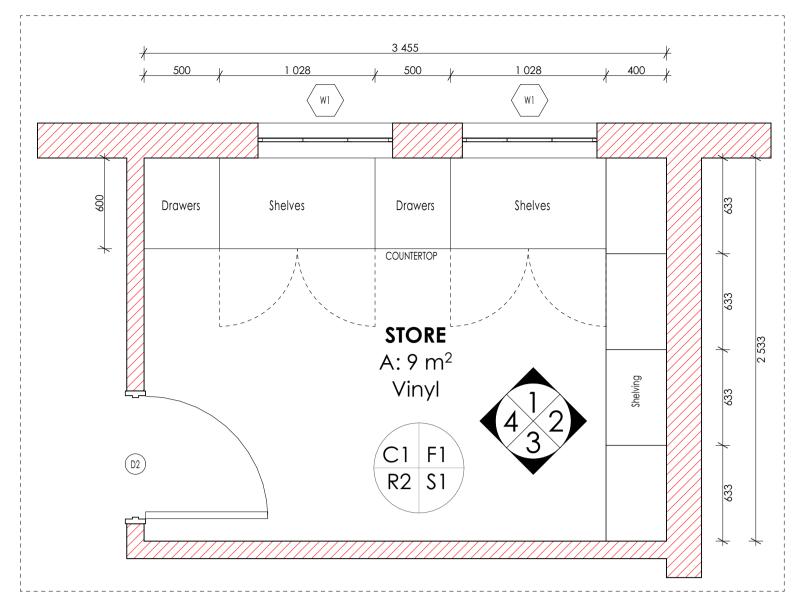
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

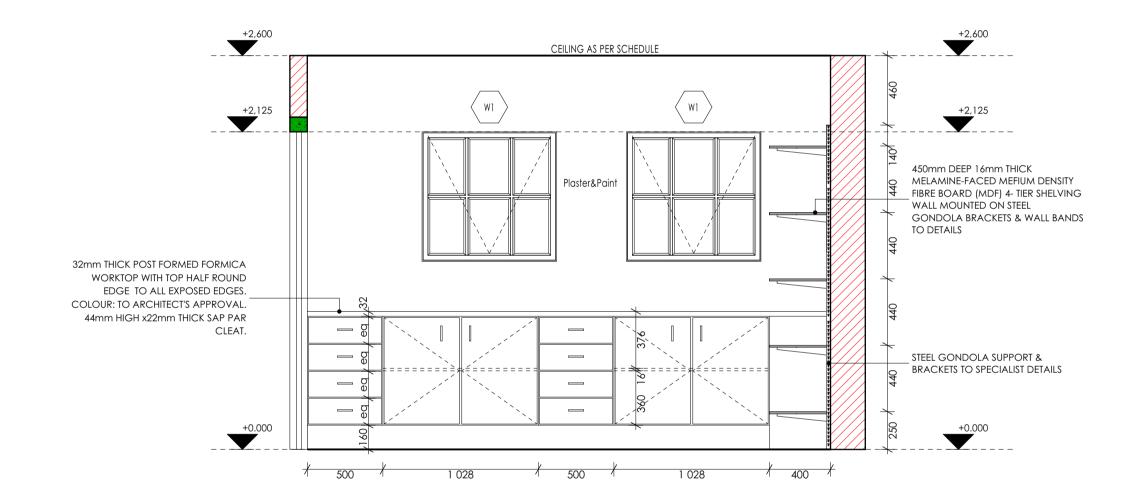
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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.

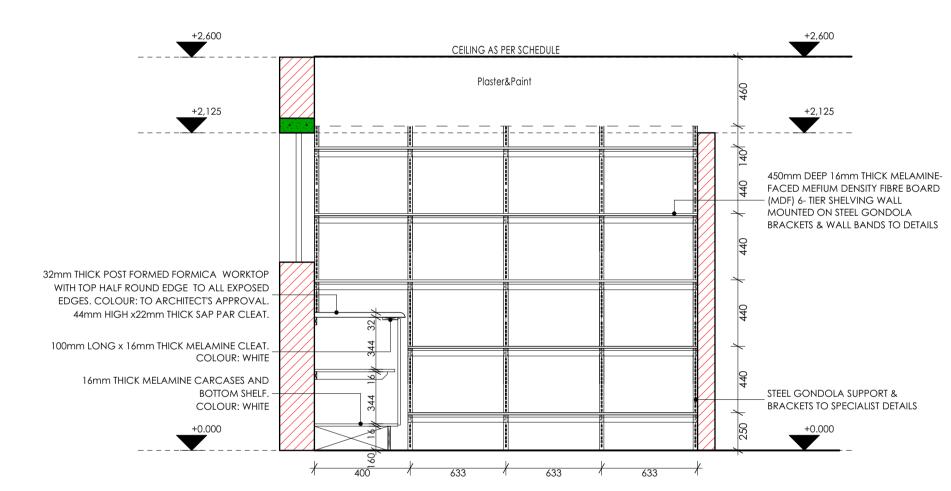


STORE PLAN:

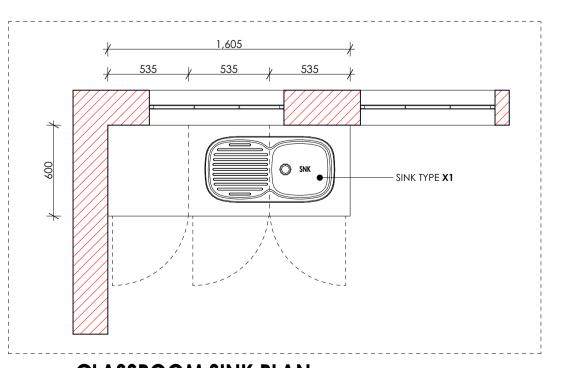
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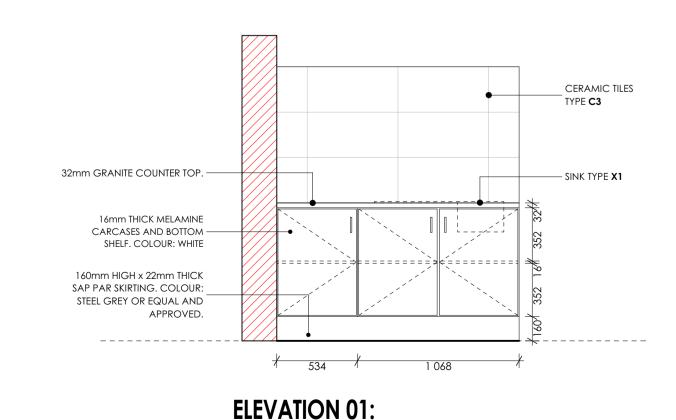
ELEVATION 01: Scale 1:25.



ELEVATION 02: Scale 1:25.



CLASSROOM SINK PLAN: Scale 1:25.



Scale 1:25.

LEGEND MEW WALLS EXISTING WALL TO BE RETAINED EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT FINISHES LEGEND CEILING FINISH— -FLOOR FINISH **SKIRTING** WALL FINISH FINISH SIGNATURE TABLE DISCIPLINE DATE PLAN EXAMINER FIRE CONTROL **ENVIRONMENTAL** ROADS | STORMWATER **WATER & SANITATION** 0 JUL 21 FIRST ISSUE FOR TENDER REV. NO. DATE DESCRIPTION REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE UKUTHULA PRIMARY - 916 420 727 **RESTORATIVES, REPAIRS & ADDITIONS** CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT** DISCIPLINE **ARCHITECTURAL** WORK DESCRIPTION - SUB DIVISION GRADE R 2 CLASSROOM BLOCK G2 B DRAWING DESCRIPTION **STOREROOM & KITCHEN SINK DETAILS** DRG No. 07/08 KSN SCALE CHECK **AS -SHOWN** PR. NUMBER NOV 2019 T. MANYADZA 43981757 DRAWING CO-ORDINATED CONSULTANT www.tecturail.com LSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA CONTRACTOR AUTOCAD PROJECT NUMBER LDPW - PROF/16002/F09

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

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

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

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

Z7: CERAMIC PARAPLEGIC WC (JUNIOR LOW LEVEL SUITE) Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with 6 litre Cistern Installed complete with

all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. **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 Waterlech' 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

/itreous 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

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)

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

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 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 andard 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.

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)

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

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.

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

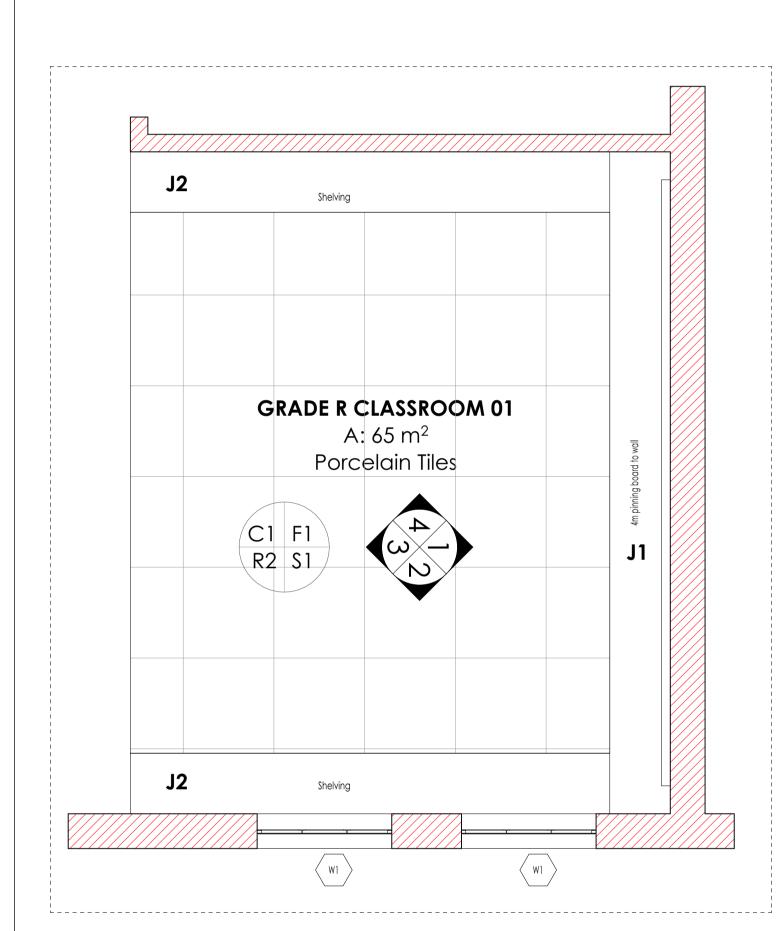
cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets. G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

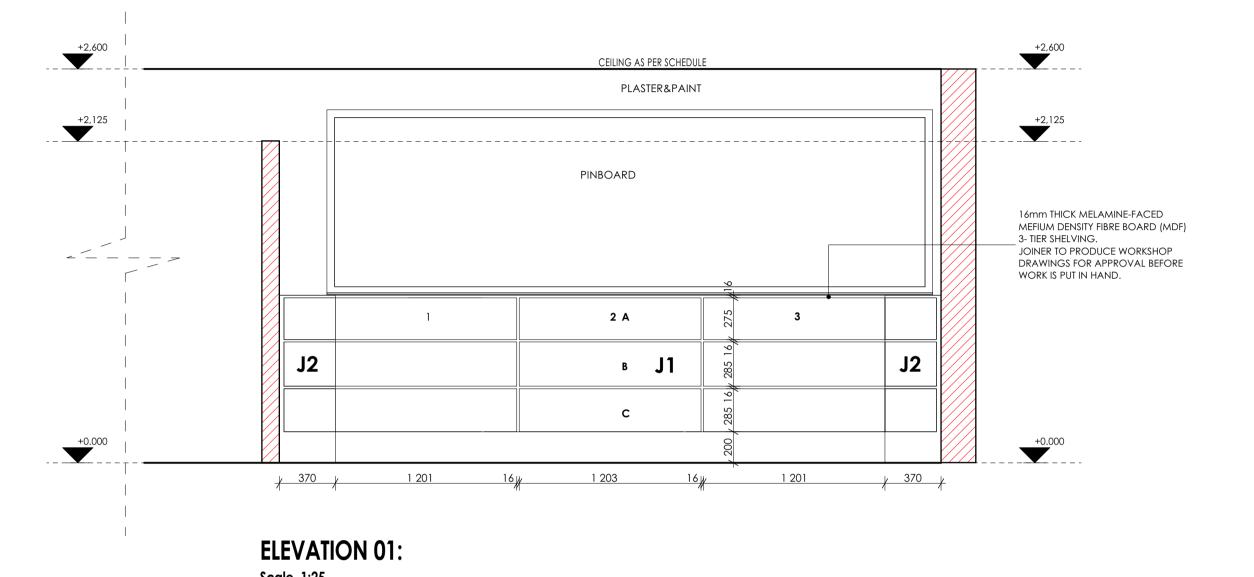
G7: SS FLOOR EXPANSION JOINT COVER

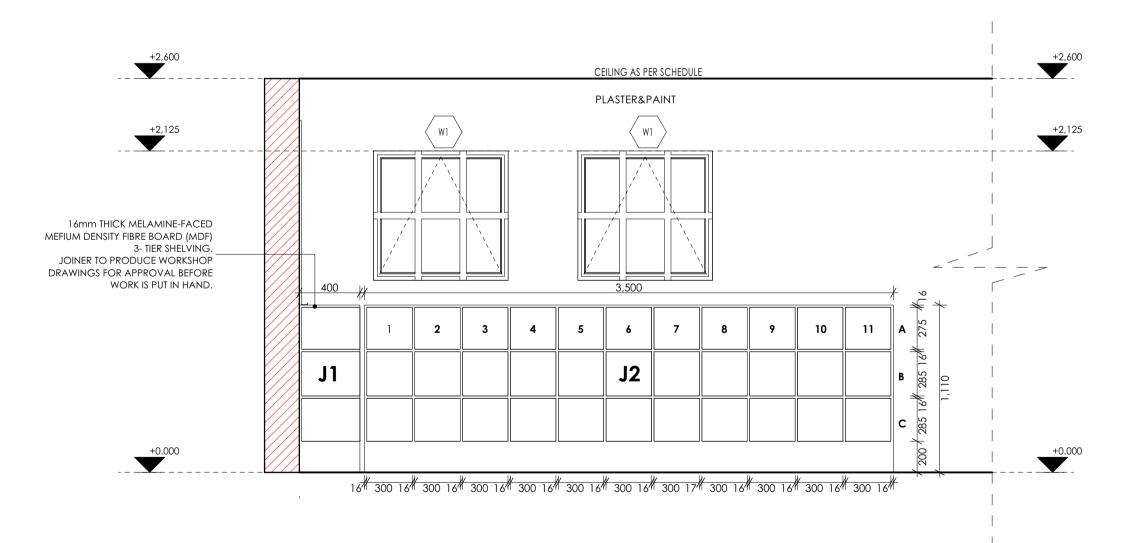
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

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.



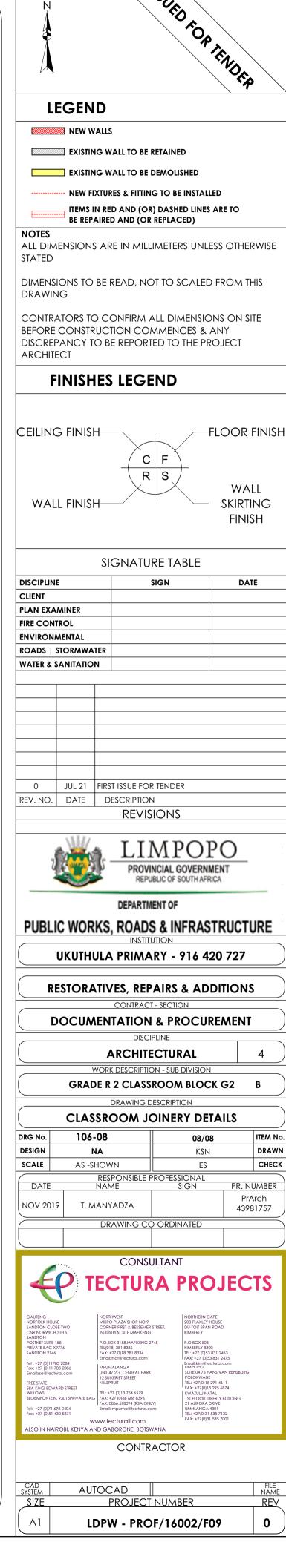




PLAN: Scale 1:25.

ELEVATION 02:

Scale 1:25.



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 ccreeds 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 gradel, 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 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 \$" 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

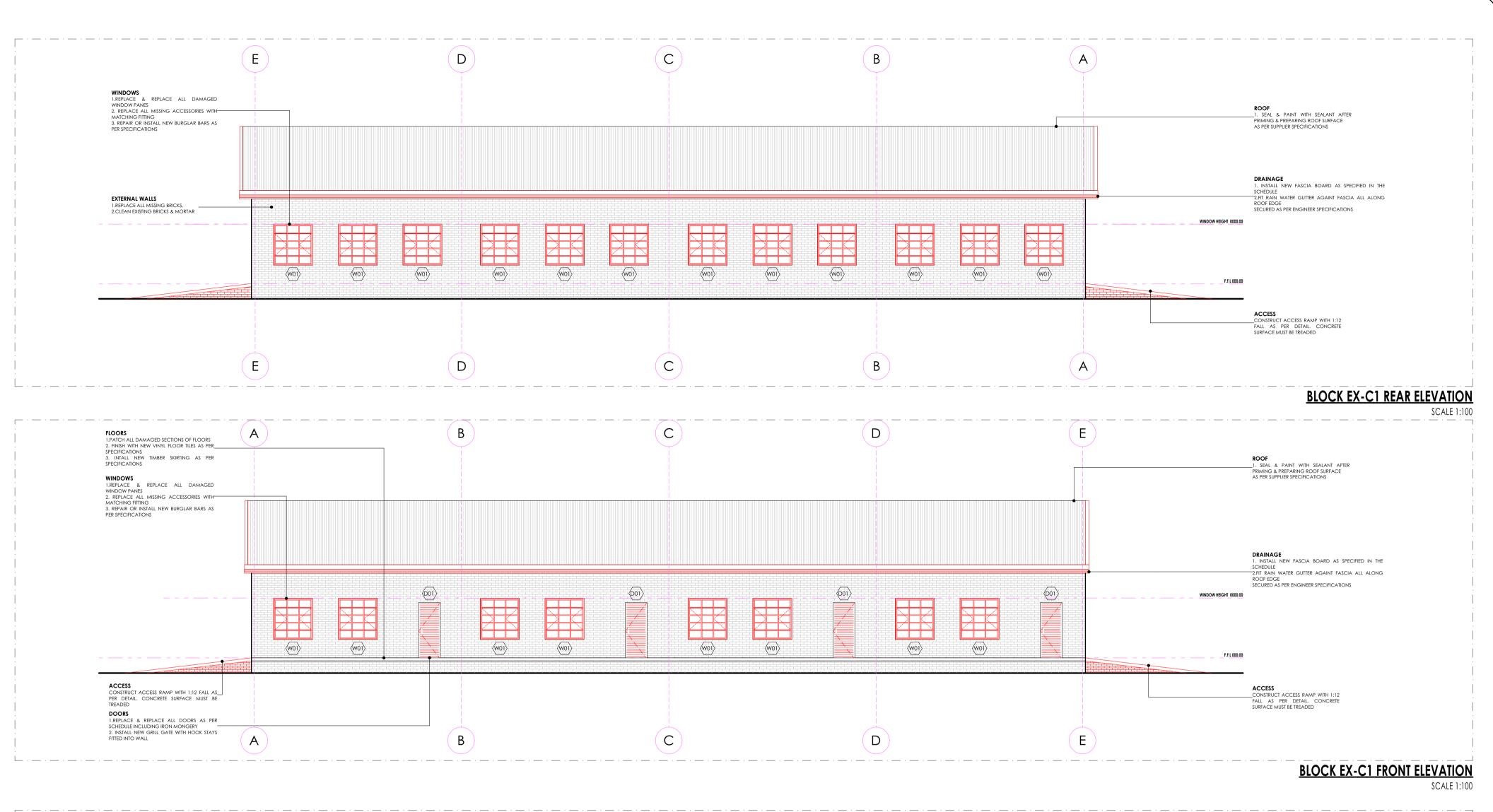
side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

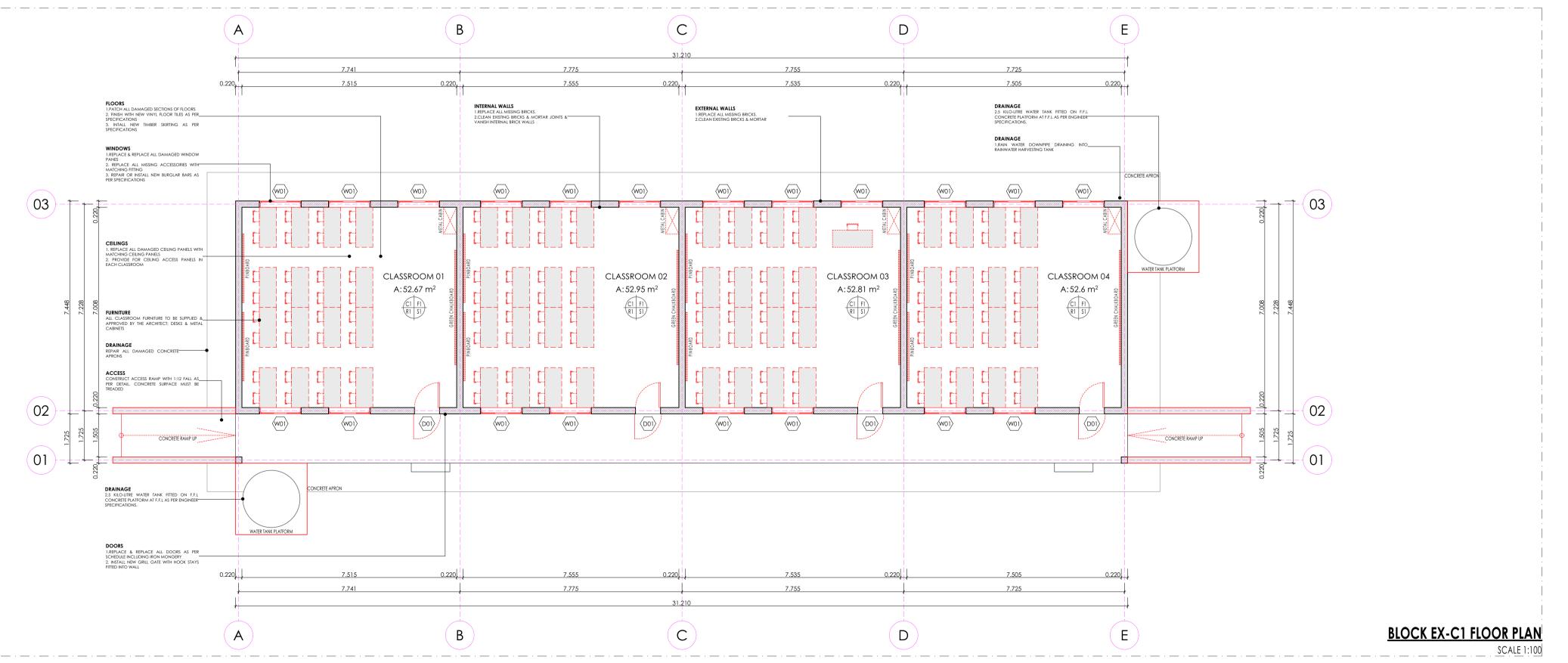
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

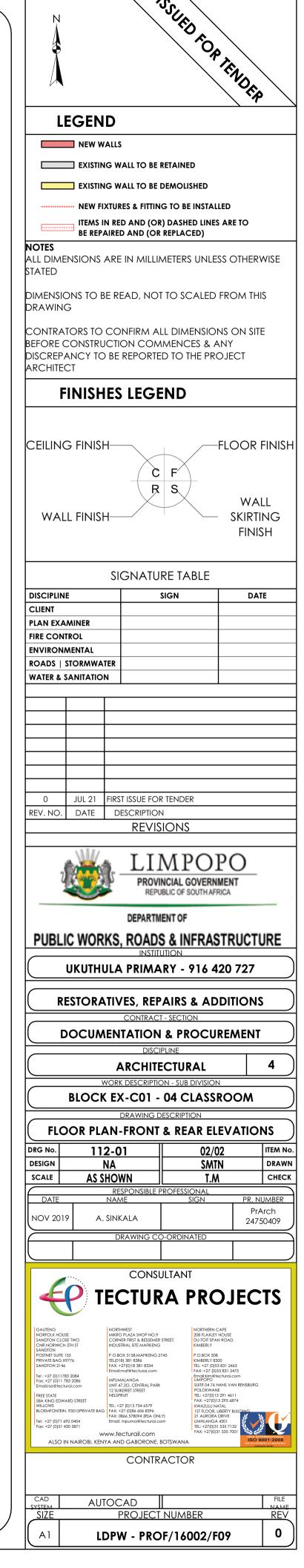
AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial 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.







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 fo

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 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 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

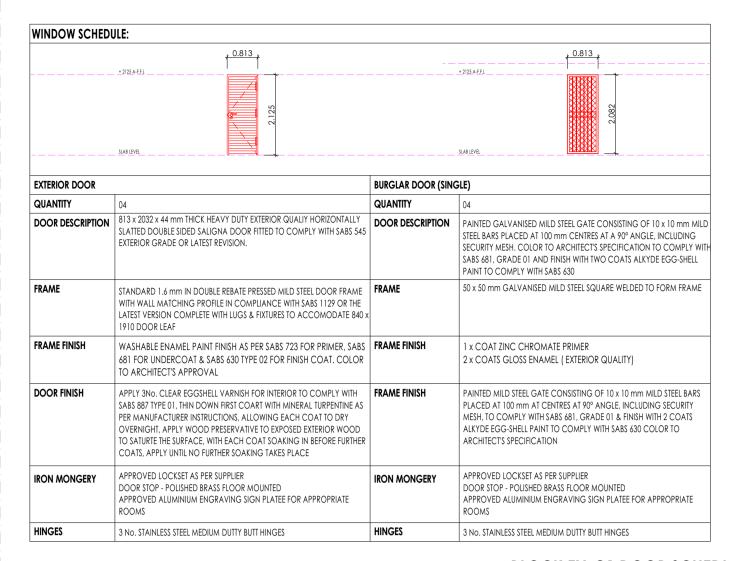
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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



DOOR SCHEDULE:

SLAB LEVEL

STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG

WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH

MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS

STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME.

MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORS

PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319

BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO

COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD

ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S

6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680.

PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED

ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR &

BLOCK EX-C1 WINDOW SCHEDULE

IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING

PLUGGED & SCREWED/BUILT IN WALLING

WITH SARS MARK OF APPROVAL

MUST BE APPROVED BY THE ARCHITECT

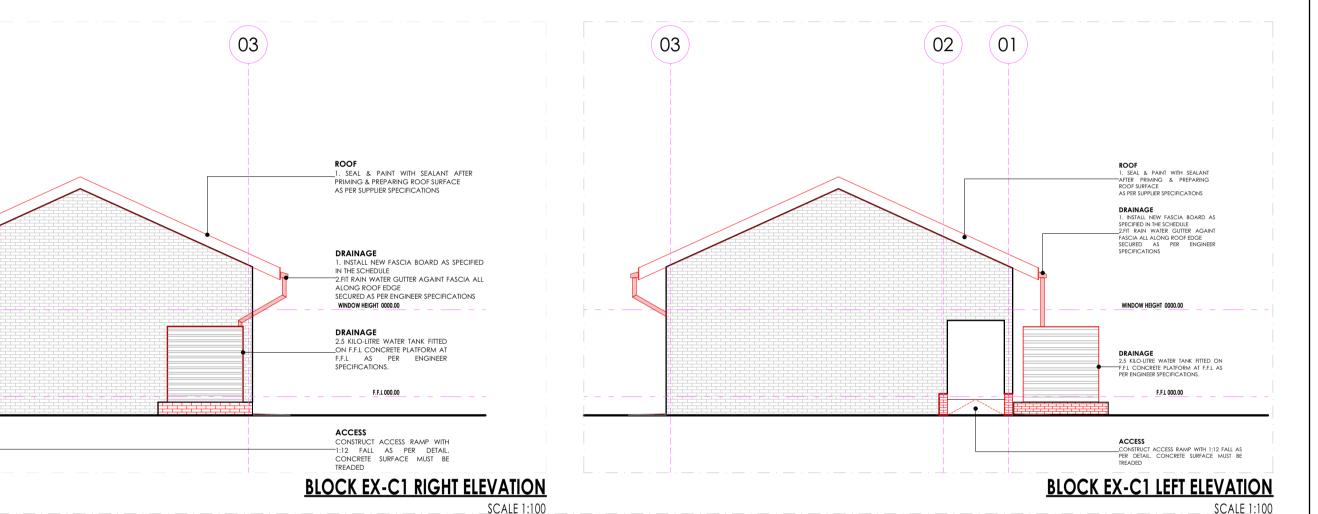
FIXED, MANUFACTURER'S SPECIFICATION

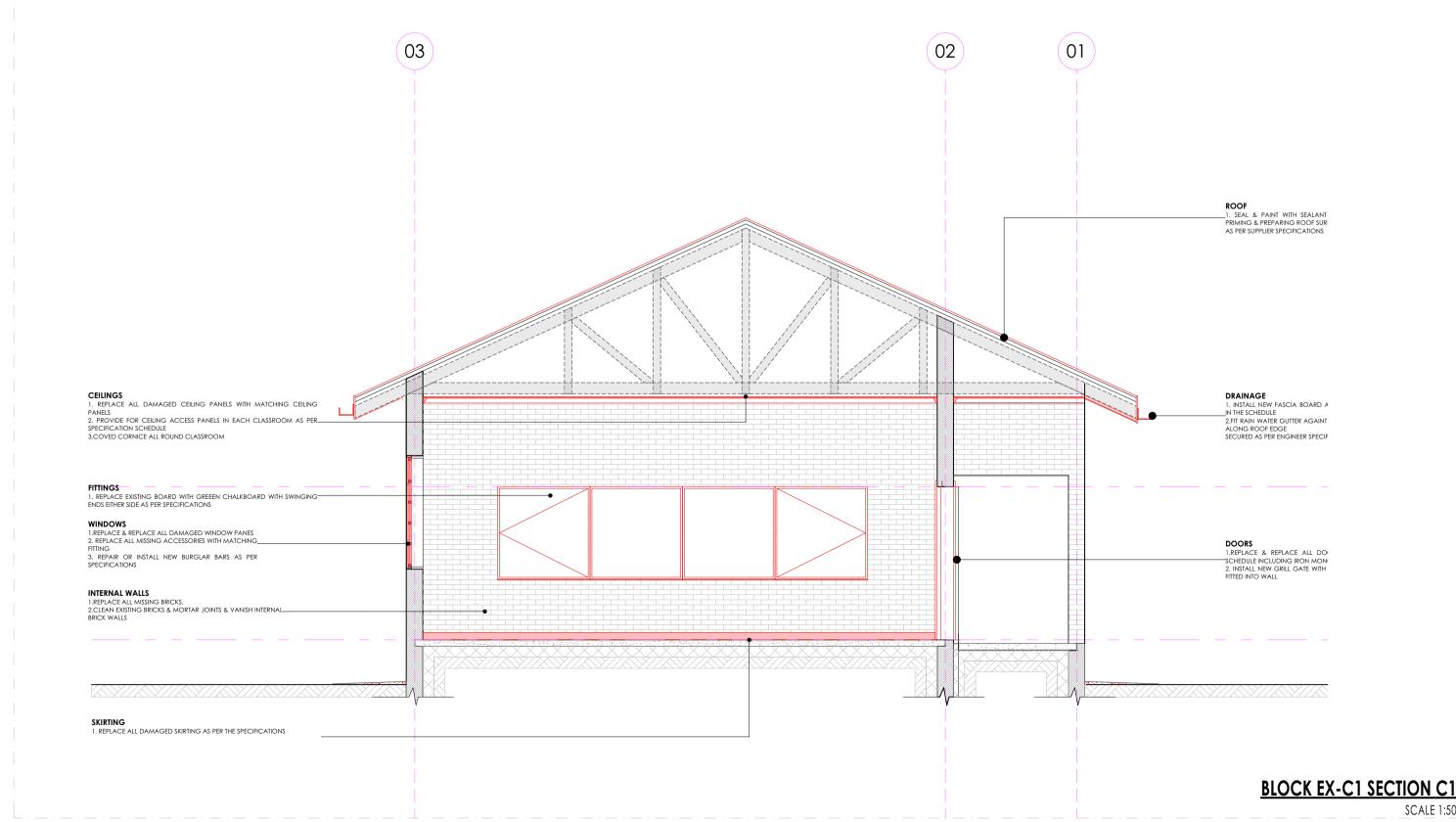
WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)

EXTERIOR DOOR

QUANTITY

DESCRIPTION





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 SABS 497 & Fitted with "Ja 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 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. This CERAMIC 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.

B2: DISABLED BASIN A 20mm 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 everflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to

B3: WHITE GLAZED PORCELAIN WHB (VANITY) nming 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 stri

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 & INC. TAP (FOR LABS) Evaluation to comply with SABS 497 and RHS hole plugged and fitted with; INo. 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 manufacture

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 schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhe 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 (cupboc elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overar 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

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

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

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 Sat 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 necessar 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.

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 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 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 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 surrou 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

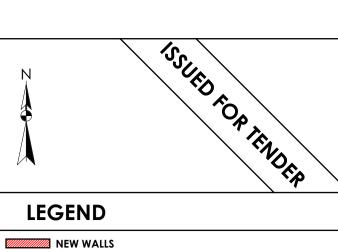
cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets. **G6: FLOOR DRAIN** Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

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 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 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



EXISTING WALL TO BE RETAINED EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO

BE REPAIRED AND (OR REPLACED)

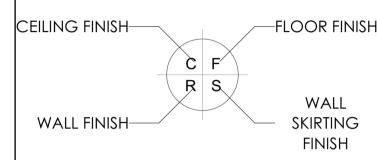
all dimensions are in millimeters unless otherwise

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

FINISHES LEGEND

ARCHITECT



DISCIPLINI	E		SIGN	DATE
CLIENT				
PLAN EXA	MINER			
FIRE CONT	ROL			
ENVIRONA	MENTAL			
ROADS STORMWATER				
WATER & S	ANITATION	1		
0	JUL 21	FIRS	T ISSUE FOR TENDER	
REV. NO.	DATE	D	ESCRIPTION	
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL WORK DESCRIPTION - SUB DIVISION **BLOCK EX-C01 - 04 CLASSROOM**

SECTION C1, SIDE ELEVATIONS & SCHEDULES

DESIGN		NA	2WIN		DKAWN
SCALE		AS SHOWN	T.M		CHECK
$\overline{}$		RESPONSIBLE	PROFESSIONAL		
DATE		NAME	SIGN	PR. NU	IMBER
NOV 20)19	A. SINKALA		PrAi 24750	
		DRAWING C	O-ORDINATED		





www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

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 ccreeds 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

gradel, 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 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 \$" 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

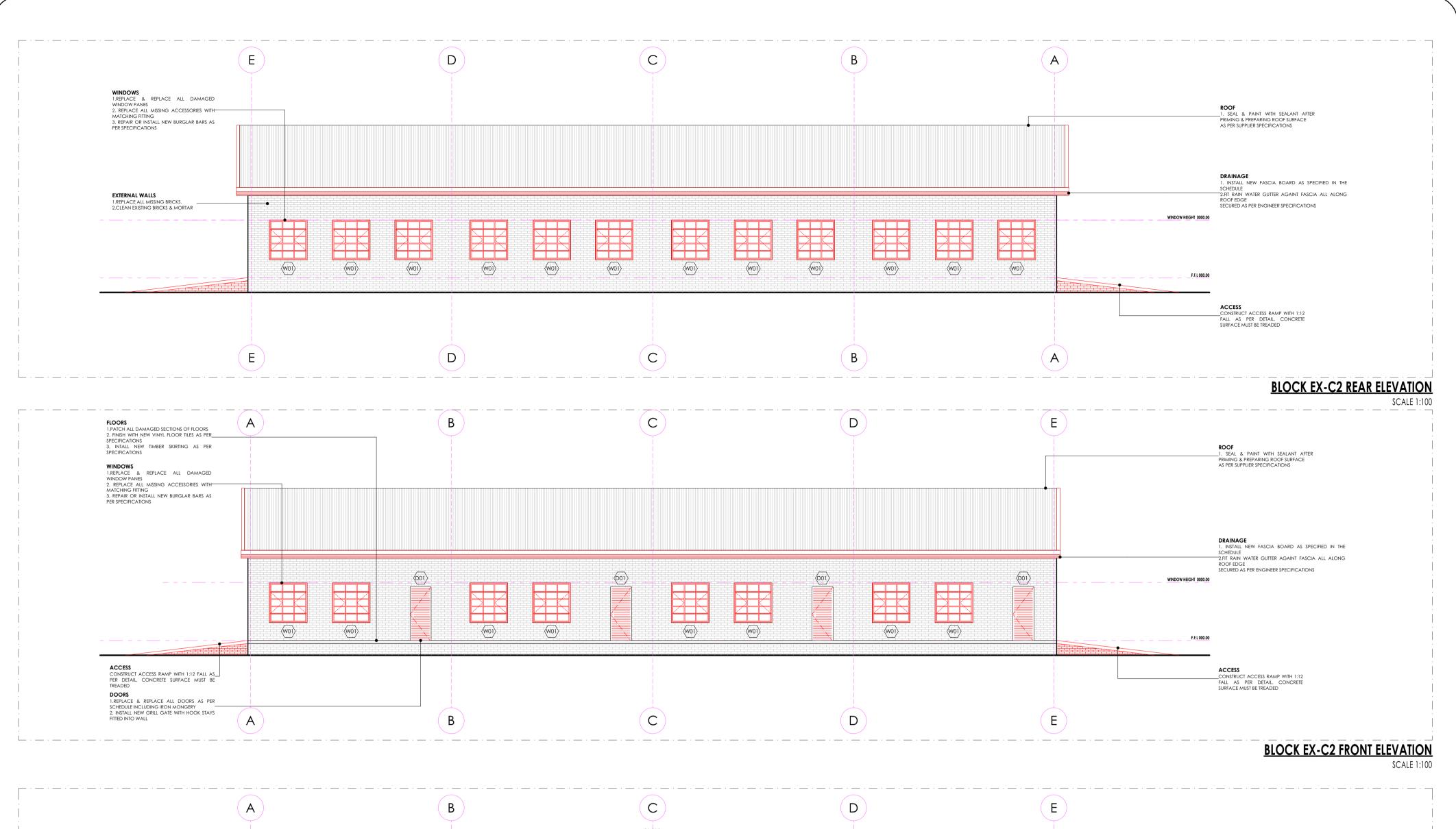
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

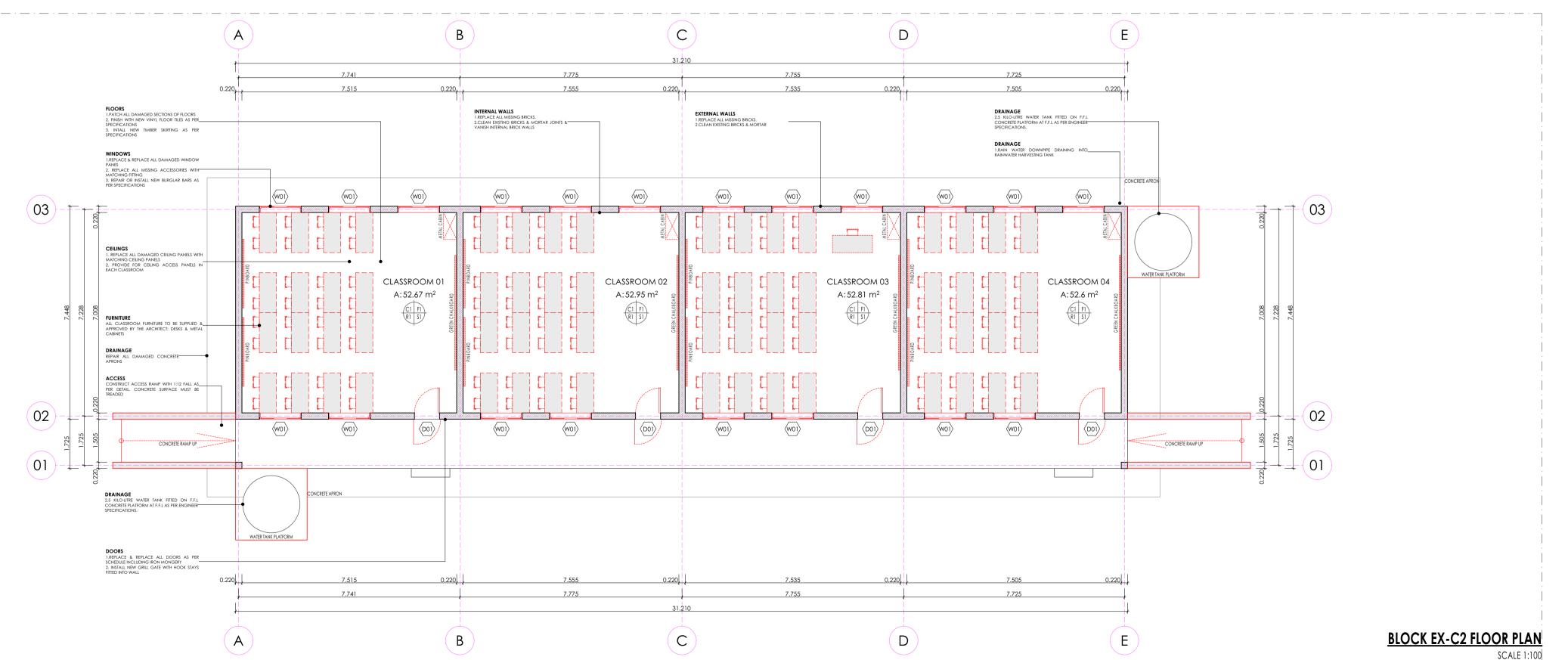
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

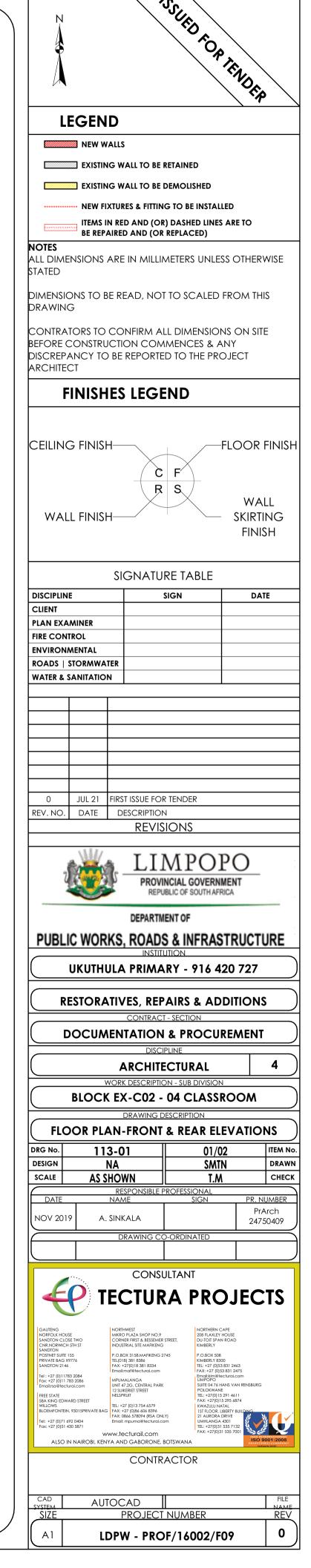
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board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







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 fo

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

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

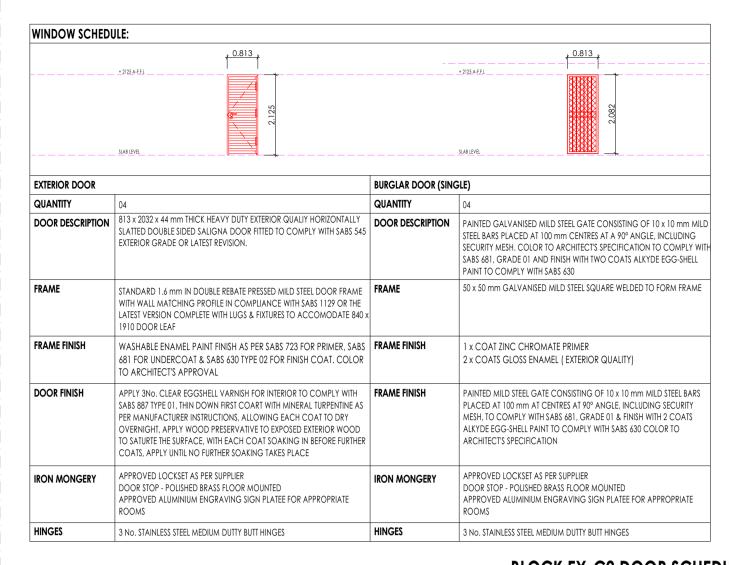
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

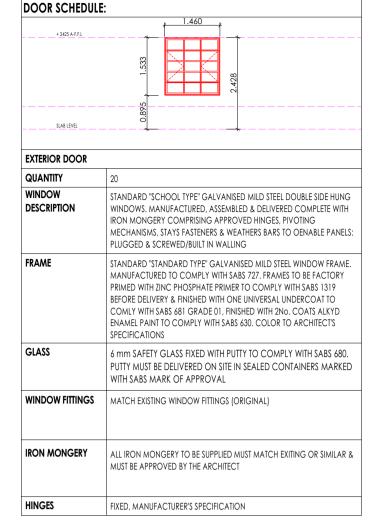
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

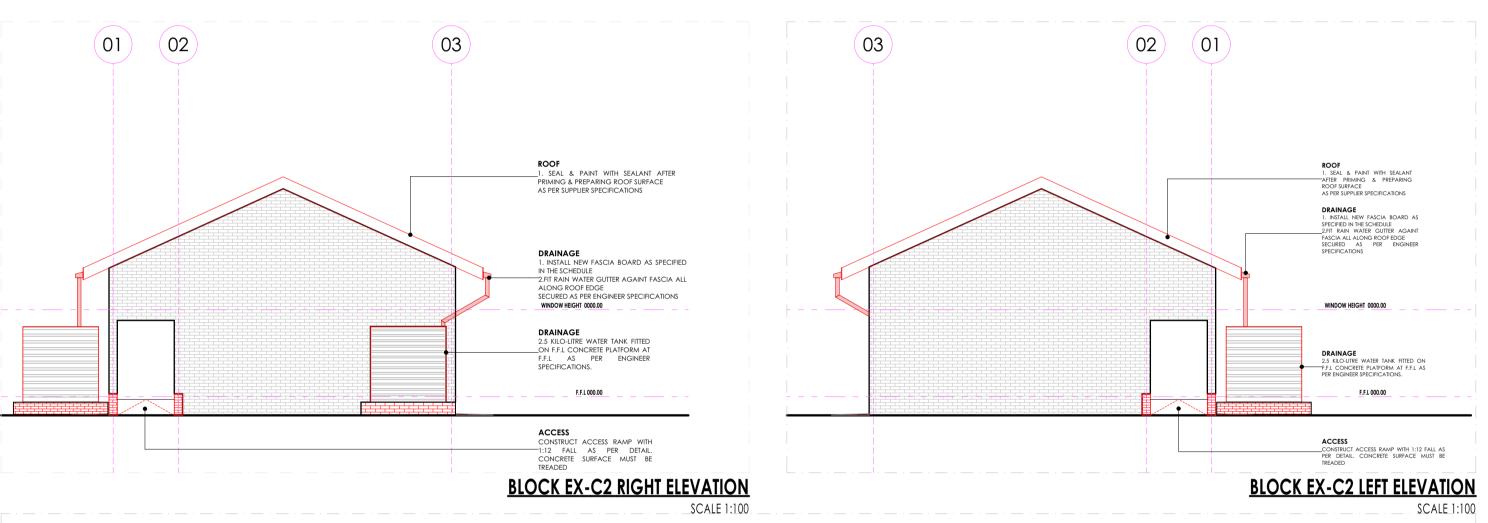
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

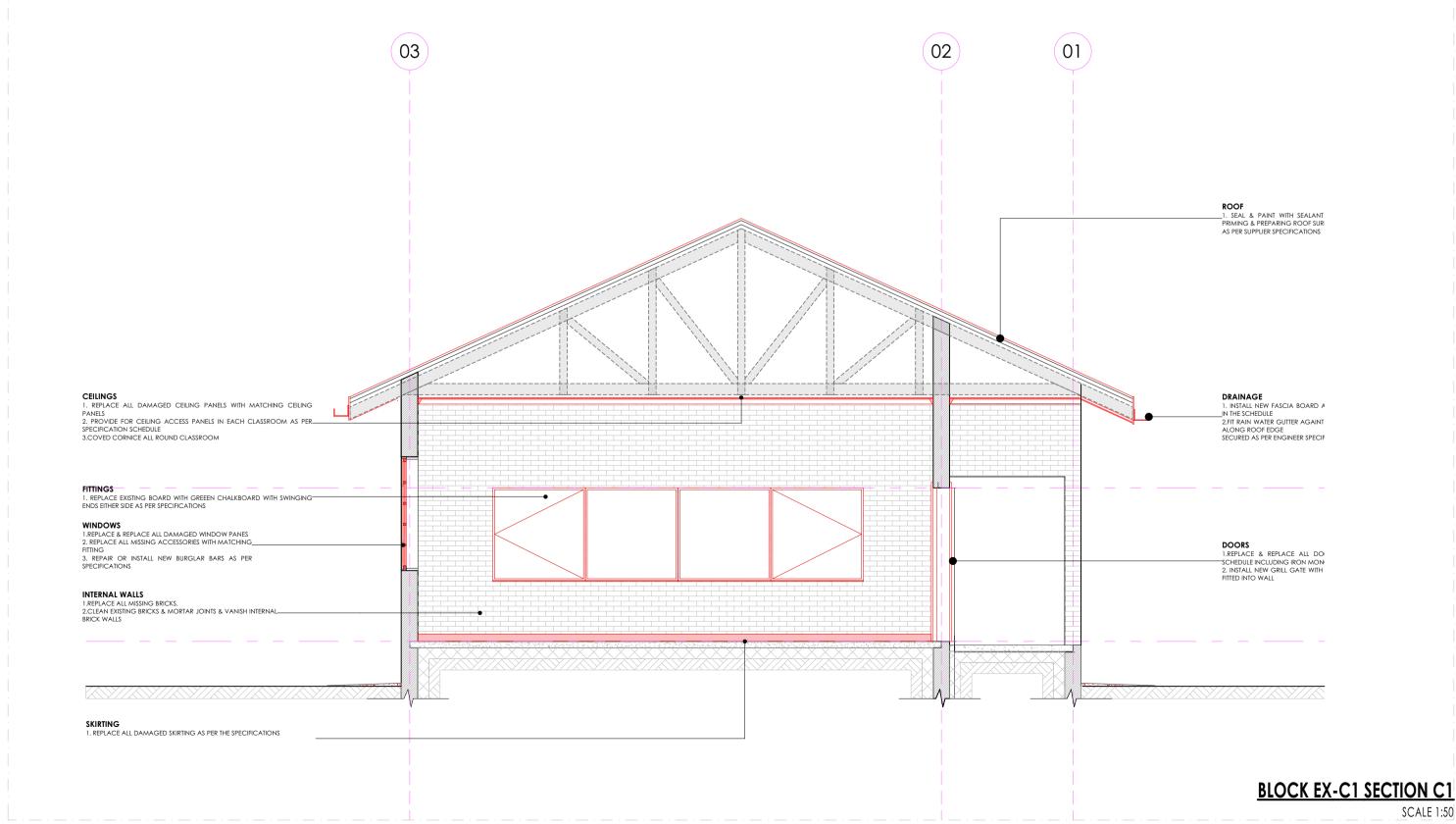
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.





BLOCK EX-C2 WINDOW SCHEDULE





SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 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

/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 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.

Z4: CERAMIC STANDARD WC (BACK INLET)

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.

This CERAMIC 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

accordance to manufacture's specifications.

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.

B2: DISABLED BASIN A 20mm 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 everflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to

B3: WHITE GLAZED PORCELAIN WHB (VANITY) nming 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 stri

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 & INC. TAP (FOR LABS) Evaluation to comply with SABS 497 and RHS hole plugged and fitted with; INo. 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) 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 schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhe 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 AFFL.

brackets supplied with all necessary accessories (all to be acid resistant X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS 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, chair

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

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 fooi

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 Sat 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 necessar 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.

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 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

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 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 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

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

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

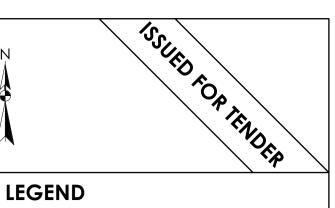
G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER

accordance with the manufacturer's instructions

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 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 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 ir



WWW NEW WALLS EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED

BE REPAIRED AND (OR REPLACED) all dimensions are in millimeters unless otherwise

ITEMS IN RED AND (OR) DASHED LINES ARE TO

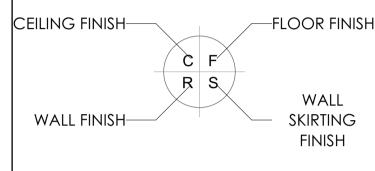
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY

FINISHES LEGEND

DISCREPANCY TO BE REPORTED TO THE PROJECT

ARCHITECT



DISCIPLINE			SIGN	DATE
CLIENT				
PLAN EXA	MINER			
FIRE CONT	TROL			
ENVIRON/	MENTAL			
ROADS	STORMWATI	ER		
WATER & S	SANITATION			
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REV. NO.	DATE	DI	ESCRIPTION	
			REVISIONS	
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UKUTHULA PRIMARY - 916 420 727

PUBLIC WORKS, ROADS & INFRASTRUCTURE

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL

WORK DESCRIPTION - SUB DIVISION **BLOCK EX-C02 - 04 CLASSROOM**

SECTION C5, SIDE ELEVATIONS & SCHEDULES 113-02 SMTN NΔ

CHECK AS SHOWN T.M NOV 201 A. SINKALA 24750409



TEL: +27 (0)13 754 6579

www.tecturail.com

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

AUTOCAD PROJECT NUMBER

LDPW - PROF/16002/F09

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 ccreeds 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 gradel, 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 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, 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 5" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to 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 nto 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:

Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

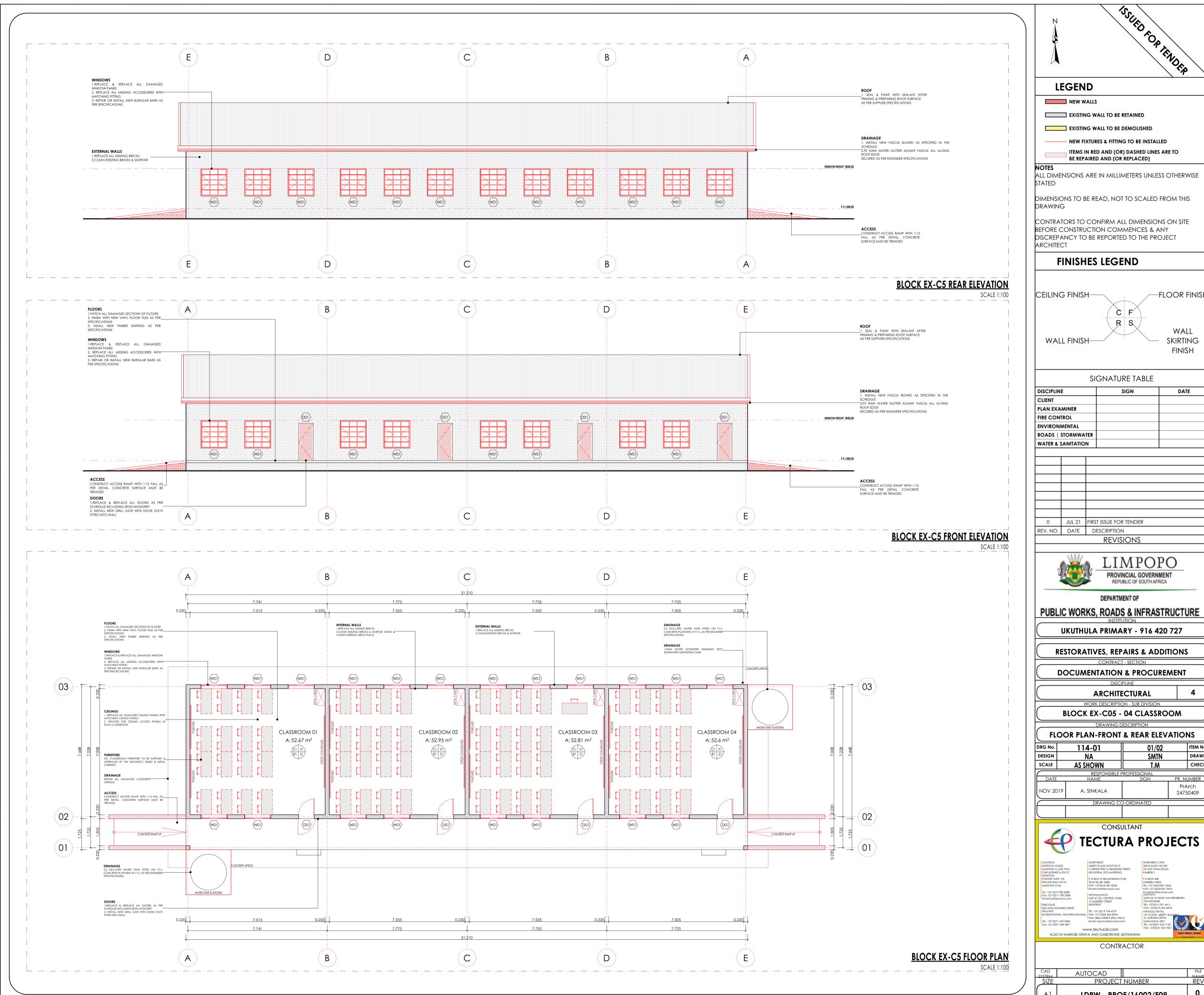
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

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.



LEGEND

EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED

FINISHES LEGEND

SIGNATURE TABLE

JUL 21 FIRST ISSUE FOR TENDER

REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF

UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL

BLOCK EX-C05 - 04 CLASSROOM

FLOOR PLAN-FRONT & REAR ELEVATIONS

CONSULTANT

CONTRACTOR

PROJECT NUMBER

LDPW - PROF/16002/F09

SMTN

T.M

CHECK

24750409

114-01

AS SHOWN

A. SINKALA

www.tecturail.com

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

AUTOCAD

SIGN

WALL FINISH

NEW FIXTURES & FITTING TO BE INSTALLED

BE REPAIRED AND (OR REPLACED)

ITEMS IN RED AND (OR) DASHED LINES ARE TO

-FLOOR FINISH

SKIRTING

FINISH

DATE

WWW NEW WALLS

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 fo

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 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 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

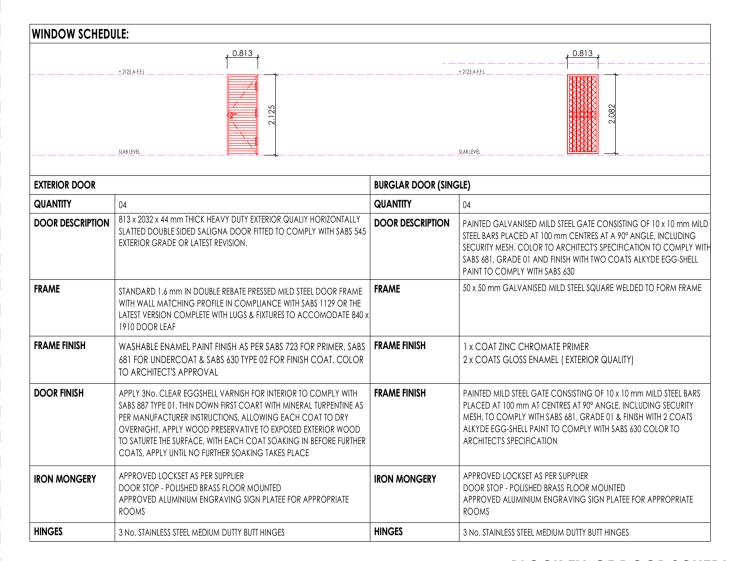
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

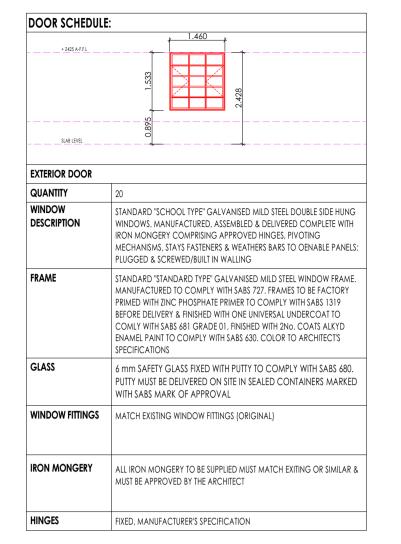
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

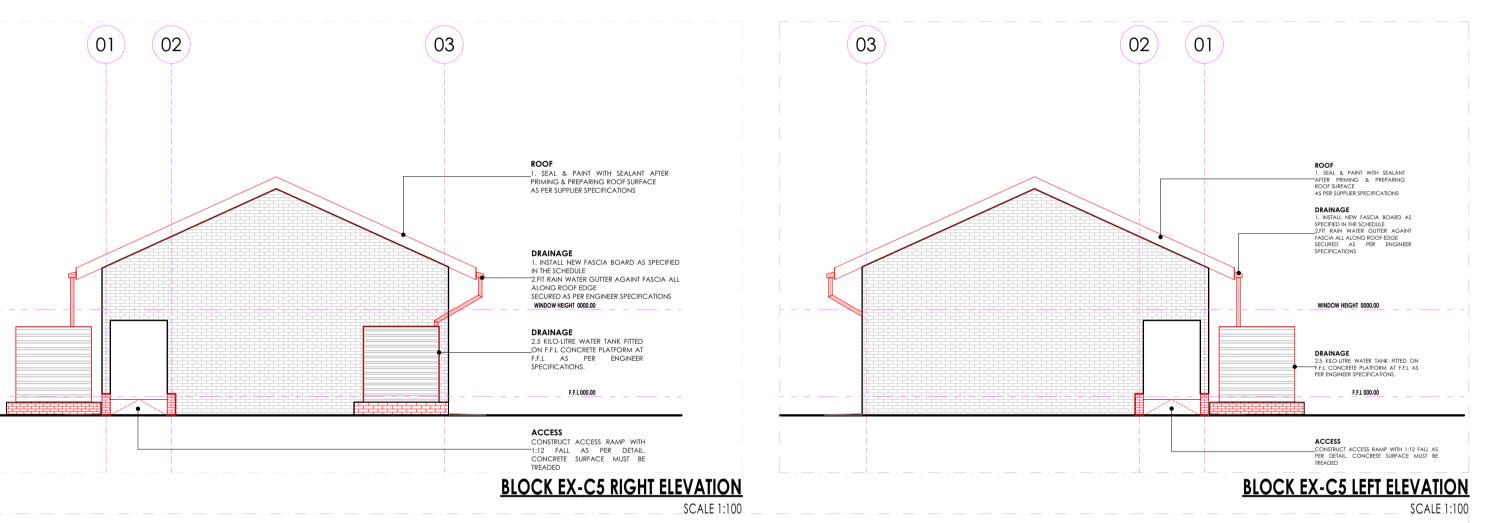
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

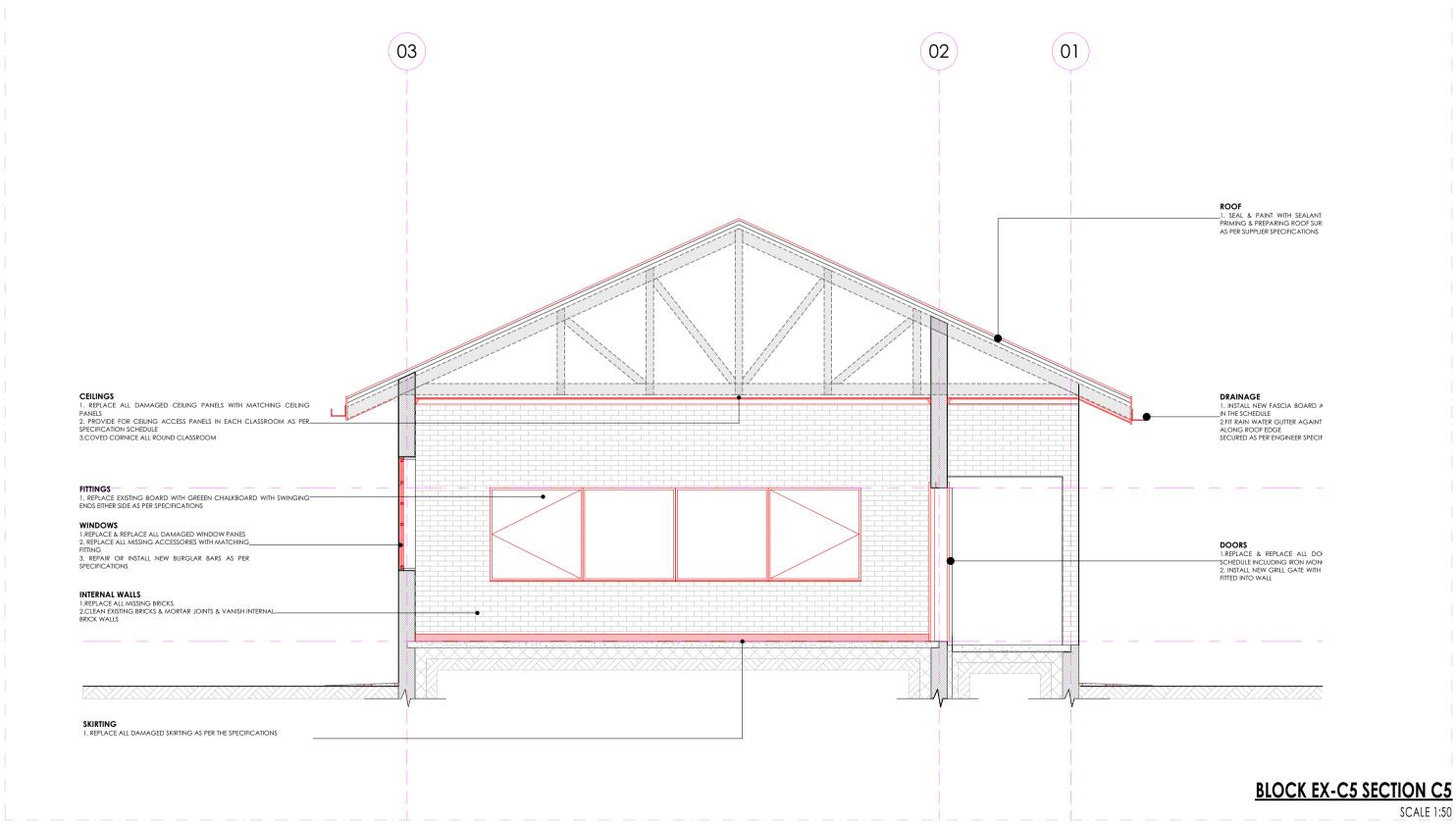
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.





BLOCK EX-C5 WINDOW SCHEDULE





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 SABS 497 & Fitted with "Ja 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 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.

This CERAMIC 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.

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

 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

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.

B2: DISABLED BASIN A 20mm 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 everflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to

B3: WHITE GLAZED PORCELAIN WHB (VANITY) nming 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 stri 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 & INC. TAP (FOR LABS) Evaluation to comply with SABS 497 and RHS hole plugged and fitted with; INo. 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 manufacture

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:

• 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 schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

manufacturer's specifications.

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhe 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 (cupboc elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overar 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

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

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

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 Sat 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 necessar 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.

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 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 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 surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

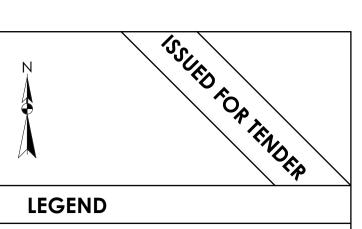
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrou mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric)

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 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 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



WWW NEW WALLS EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED

ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

all dimensions are in millimeters unless otherwise

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

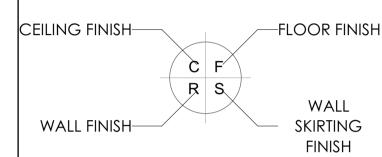
CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE

FINISHES LEGEND

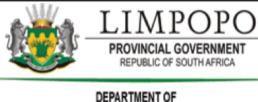
ARCHITECT

BEFORE CONSTRUCTION COMMENCES & ANY

DISCREPANCY TO BE REPORTED TO THE PROJECT



DISCIPLINE			SIGN	DATE
CLIENT				
PLAN EXA	MINER			
FIRE CON	TROL			
ENVIRON/	MENTAL			
ROADS	STORMWAT	ER		
WATER & S	SANITATION	1		
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REV. NO.	DATE	DES	CRIPTION	
			REVISIONS	



PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL WORK DESCRIPTION - SUB DIVISION

BLOCK EX-C05 - 04 CLASSROOM

SECTION C5, SIDE ELEVATIONS & SCHEDULES DRG No. 114-02 SMTN

SCALE	AS SHOWN	T.M	CHECK
	responsible f	PROFESSIONAL	
DATE	NAME	SIGN	PR. NUMBER
NOV 20	19 A. SINKALA		PrArch 24750409
	DRAWING CO	D-ORDINATED	

CONSULTANT



www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

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 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

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

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

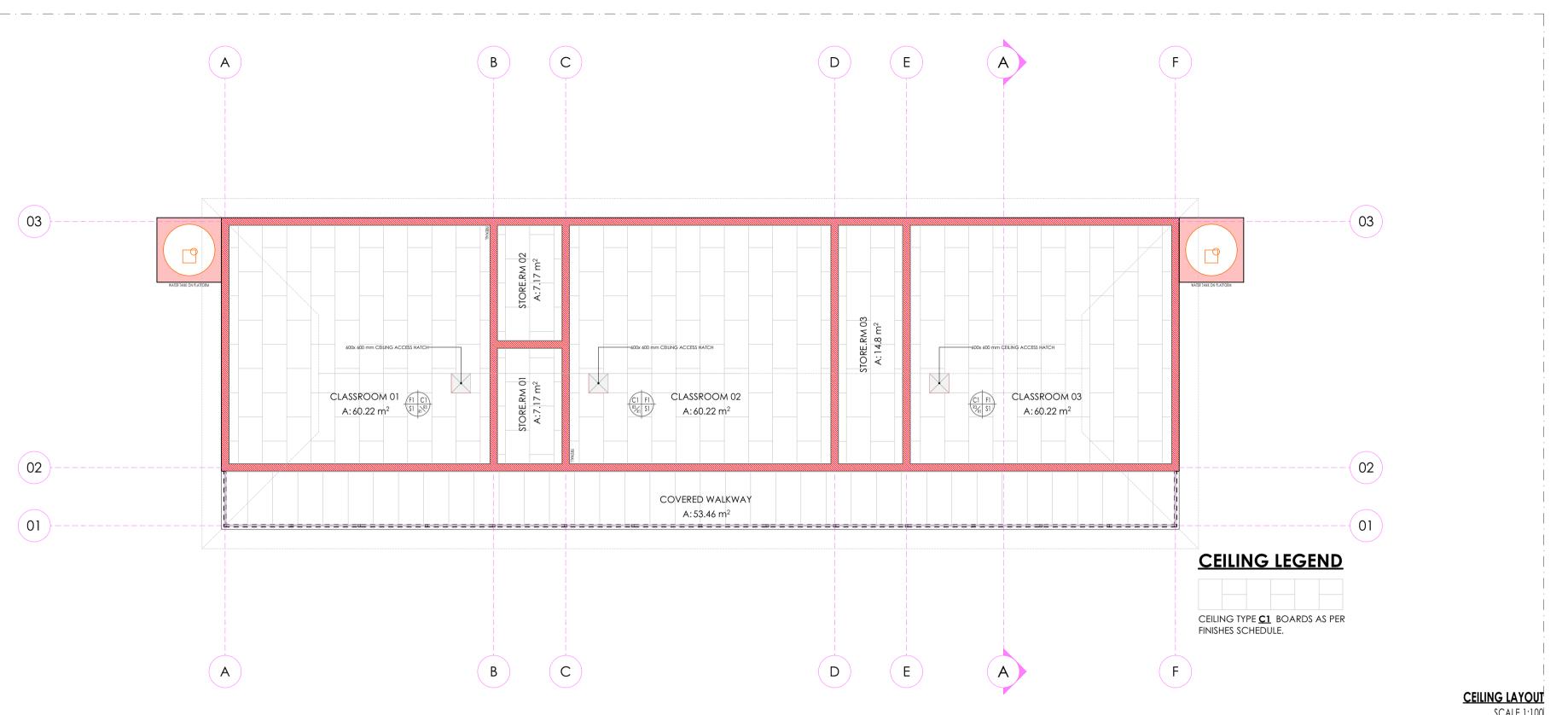
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

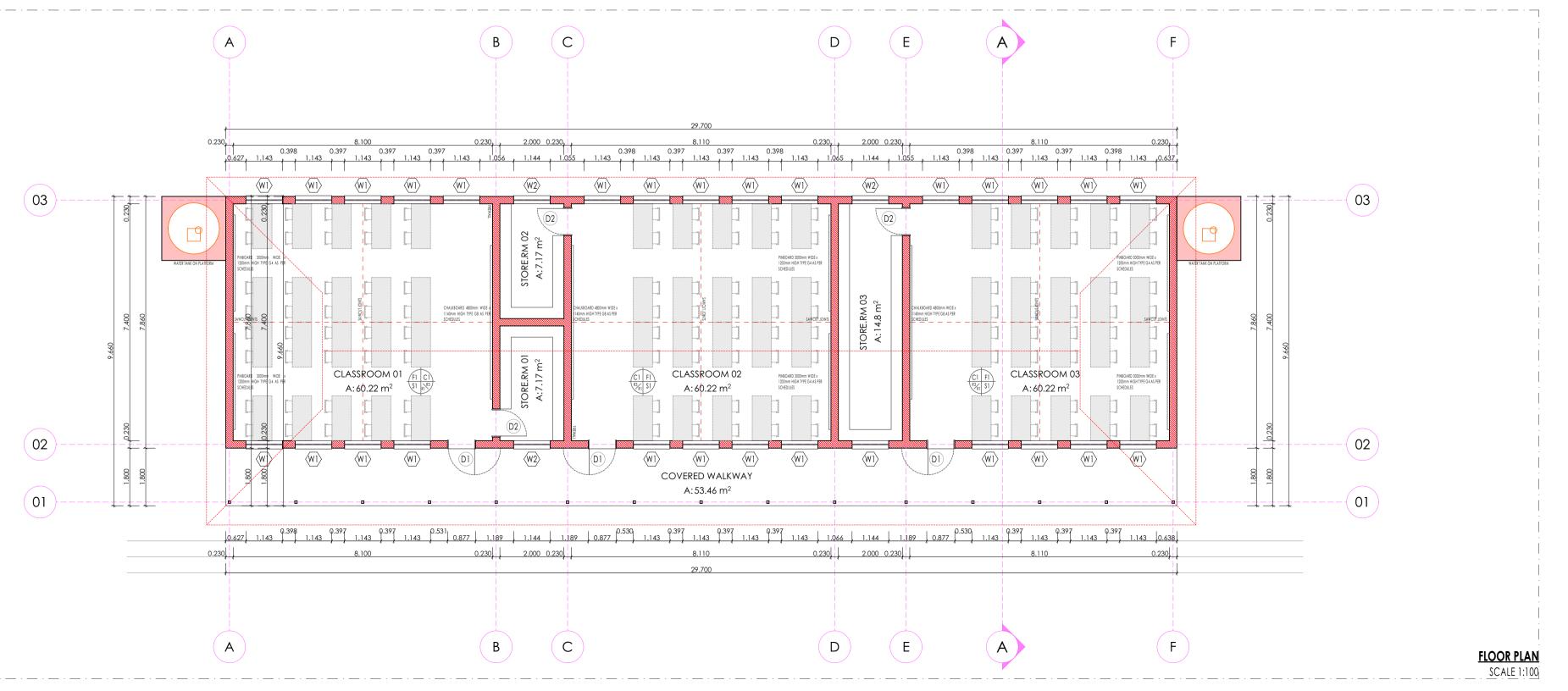
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

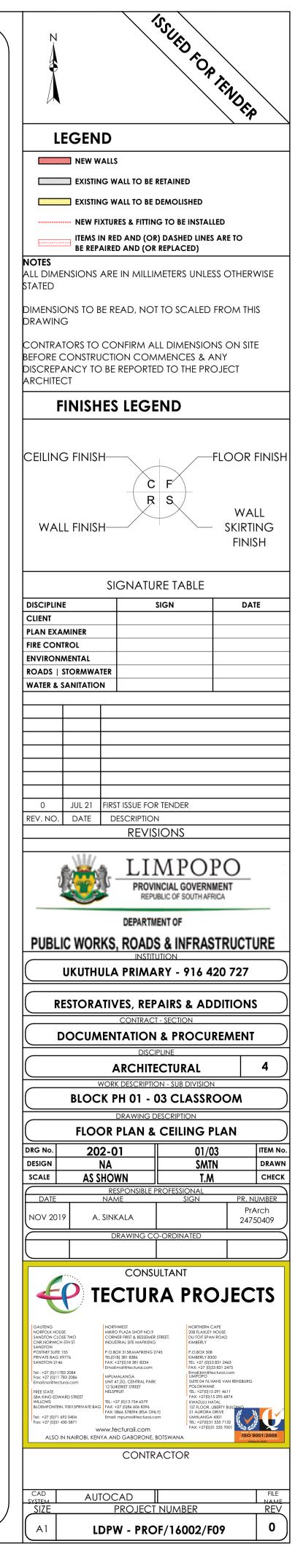
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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/Barae 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 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. 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.

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

ROOF COVERING AND INSULATION:

weight hemi-hydrate gypsum plaster on concrete slab soffit.

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

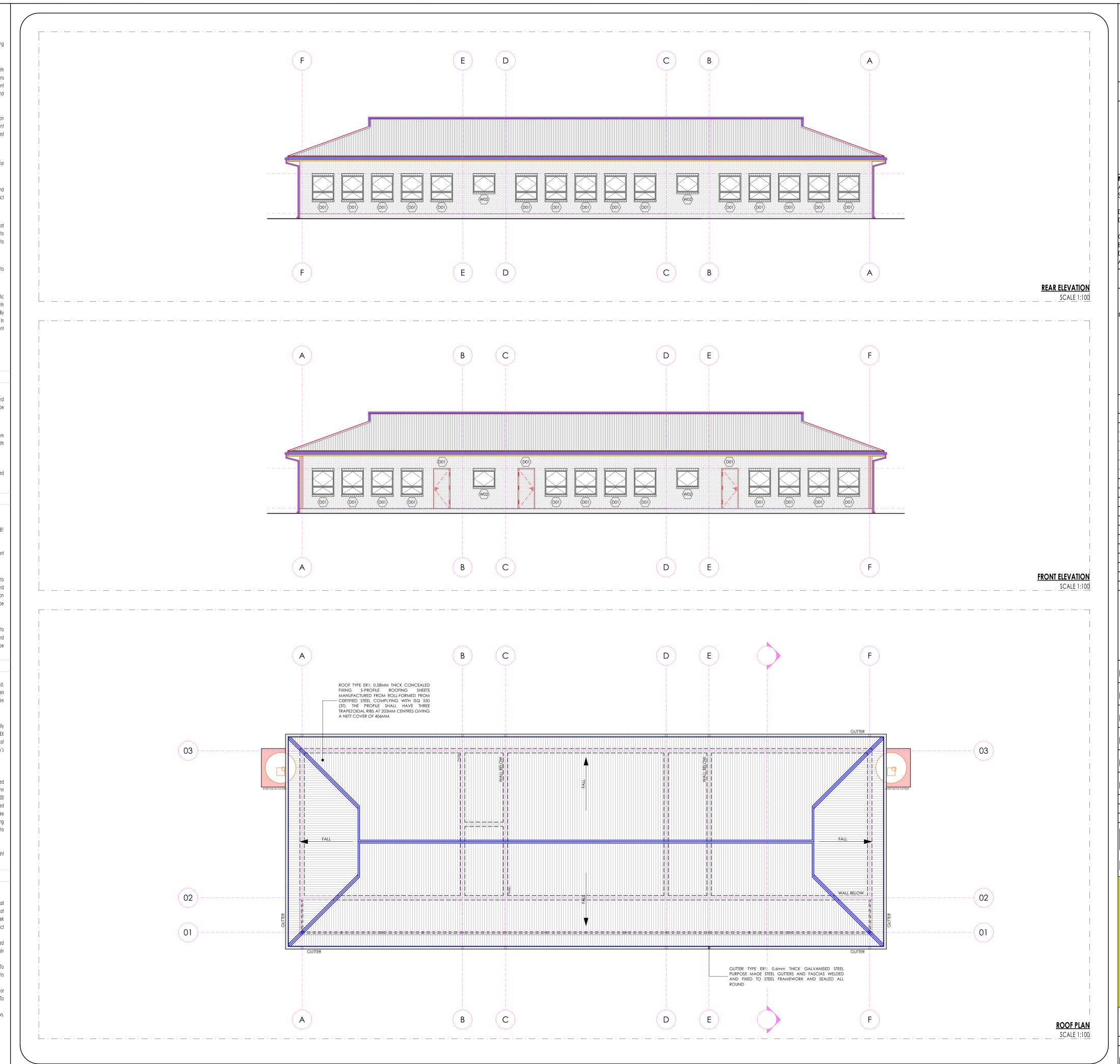
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male 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

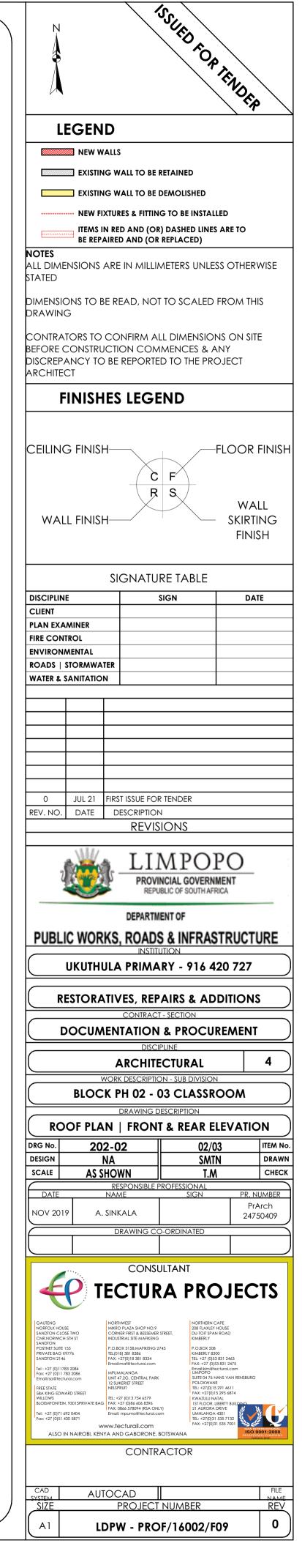
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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





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 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

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 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

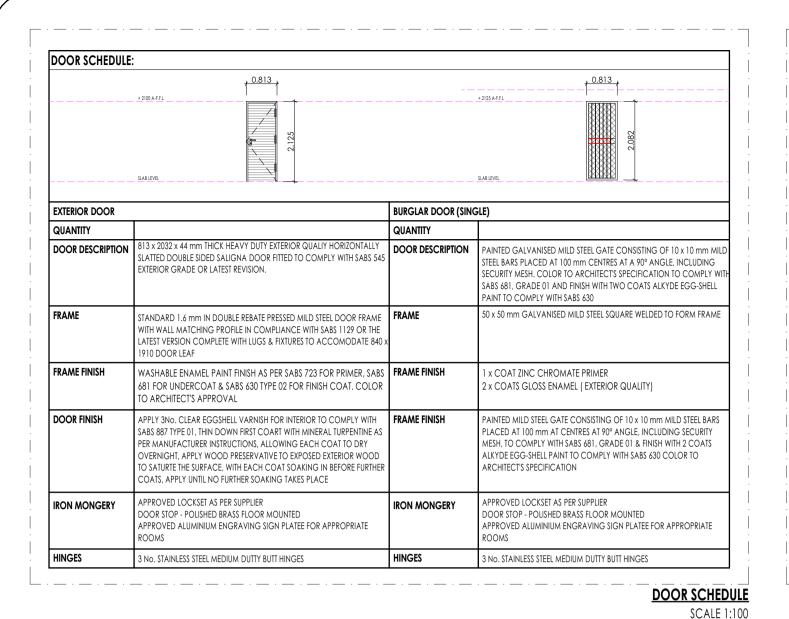
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

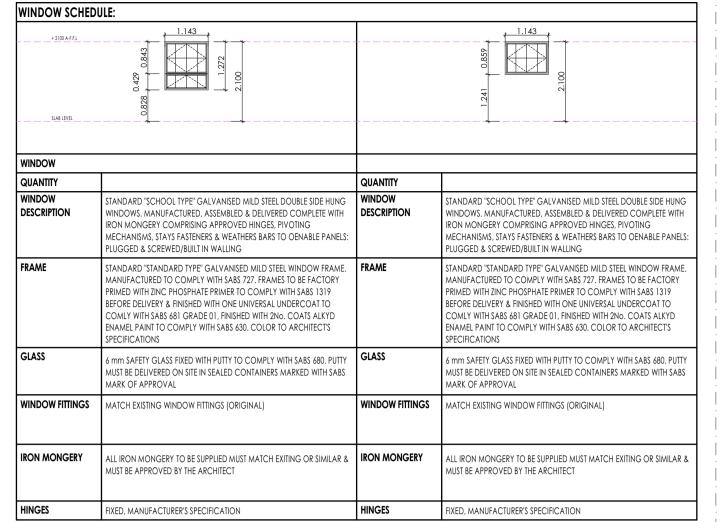
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

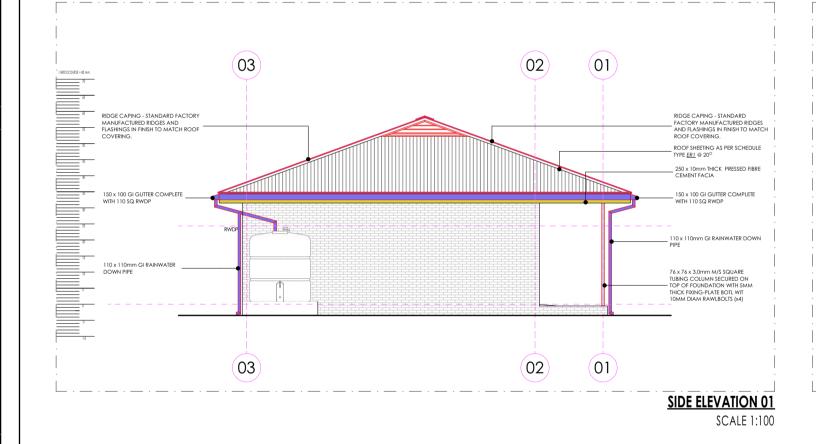
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

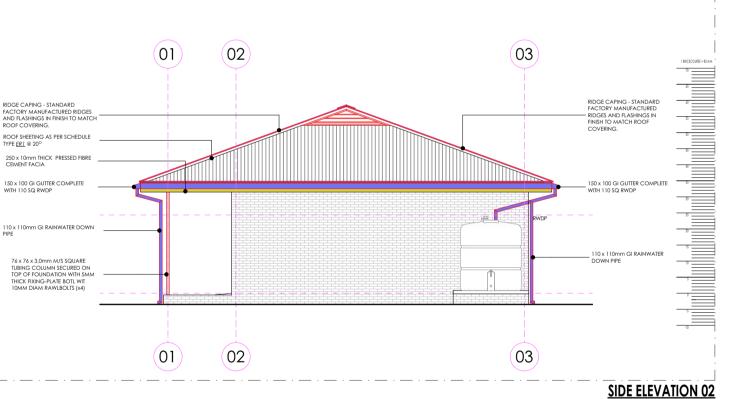
Fascia board; 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

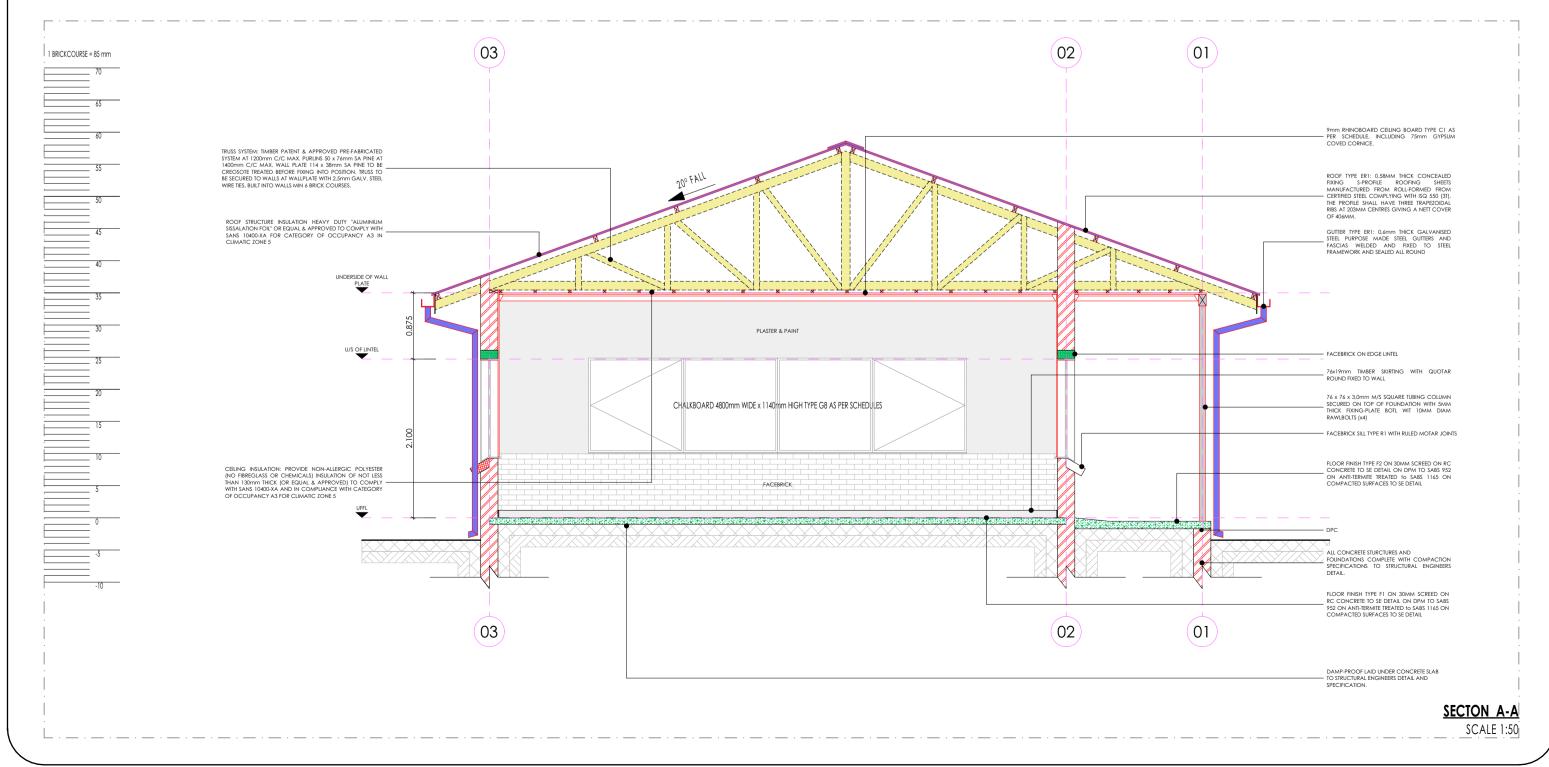




WINDOW SCHEDULE







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 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

treous 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 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 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.

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

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 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, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN A 20mm 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)

imic 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) 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)

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 schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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 fittled 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 (cupboc 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-conceale 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 ba 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 Satii 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 dome 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.

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. 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 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 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

K9: SOAP DISPENSER/DISH- WALL MOUNTED

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 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 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**

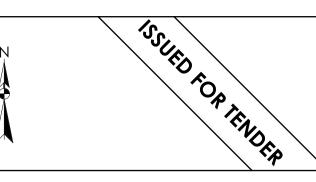
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

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 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 ir



LEGEND WWW NEW WALLS

EXISTING WALL TO BE RETAINED EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO

BE REPAIRED AND (OR REPLACED)

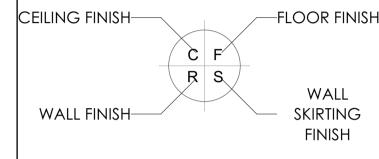
all dimensions are in millimeters unless otherwise

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

FINISHES LEGEND

ARCHITECT



DISCIPLINI	E		SIGN	DATE
CLIENT				
PLAN EXA	MINER			
FIRE CONT	ROL			
ENVIRONA	MENTAL			
ROADS S	STORMWA	TER		
WATER & S	ANITATIO	N		
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

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

ARCHITECTURAL

BLOCK PH 02 - 03 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES

SCALE	AS SHOWN	T.M	CHE
	RESPONSIBLE	PROFESSIONAL	
DATE	NAME	SIGN	PR. NUMBER
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www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

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 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

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

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 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

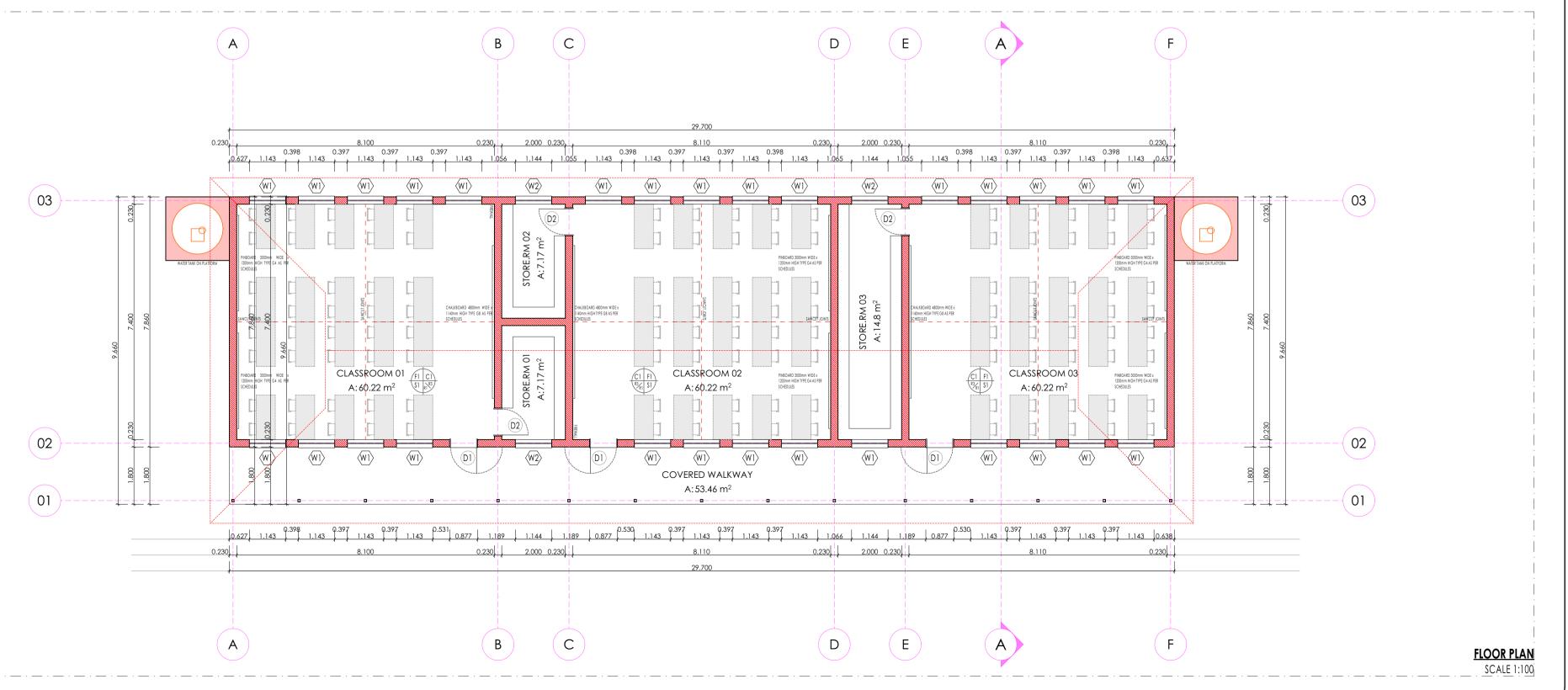
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

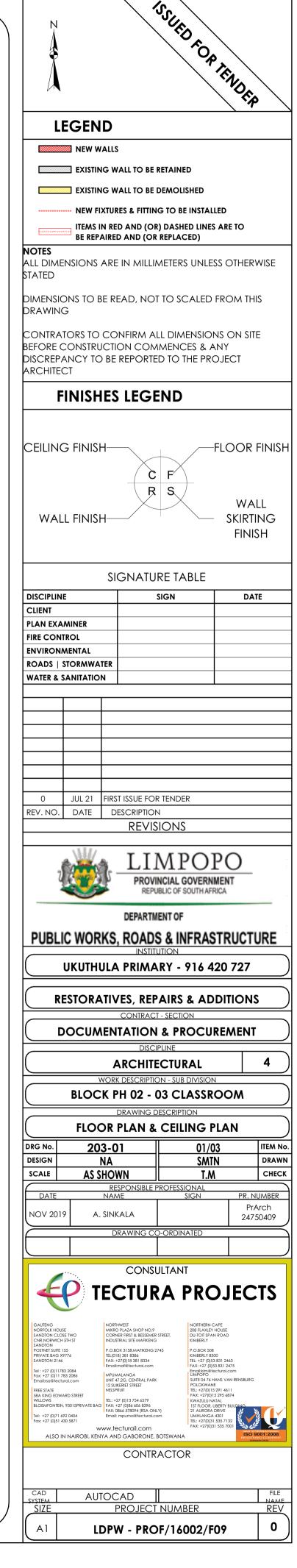
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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/Barae 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 test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

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

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, 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

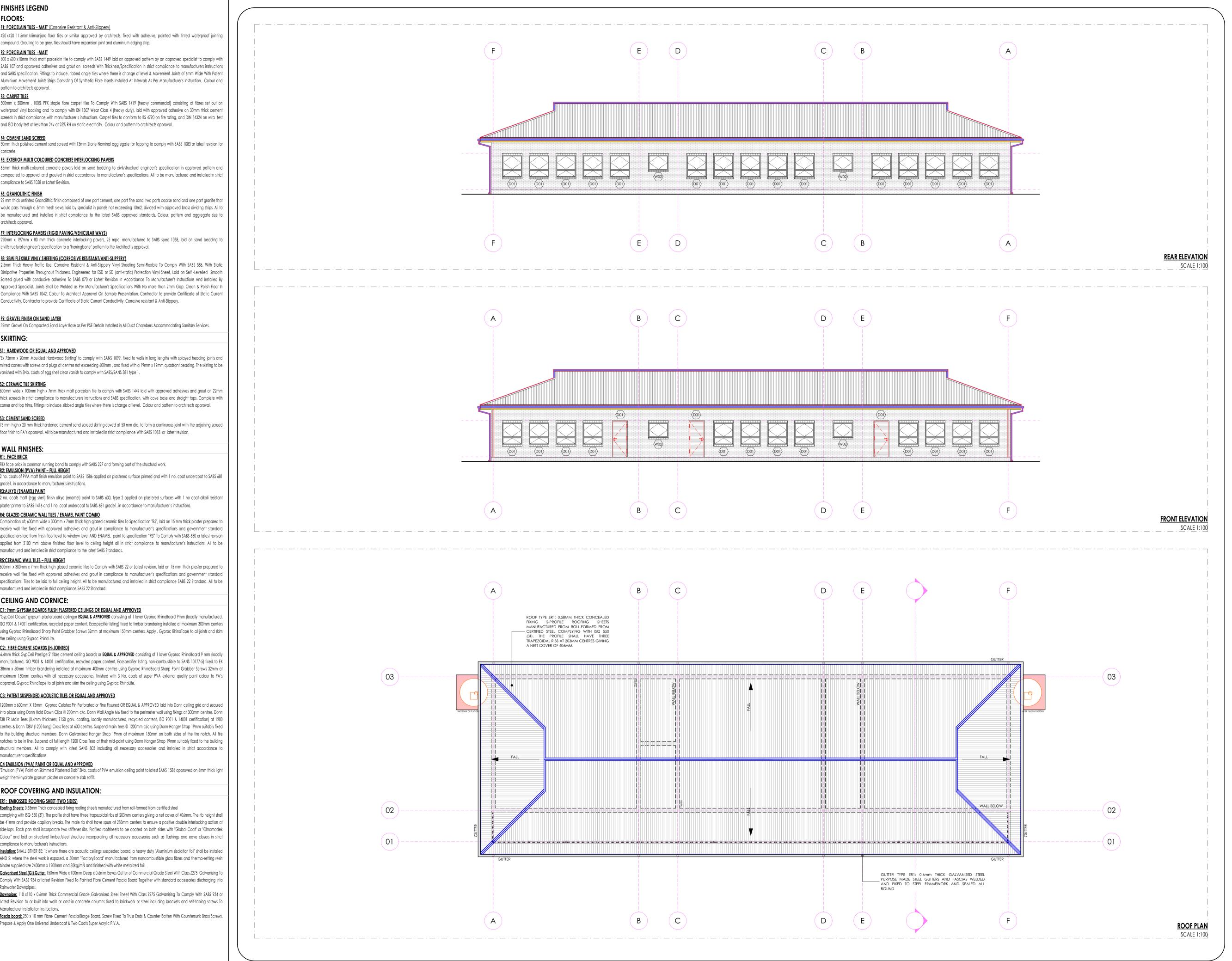
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

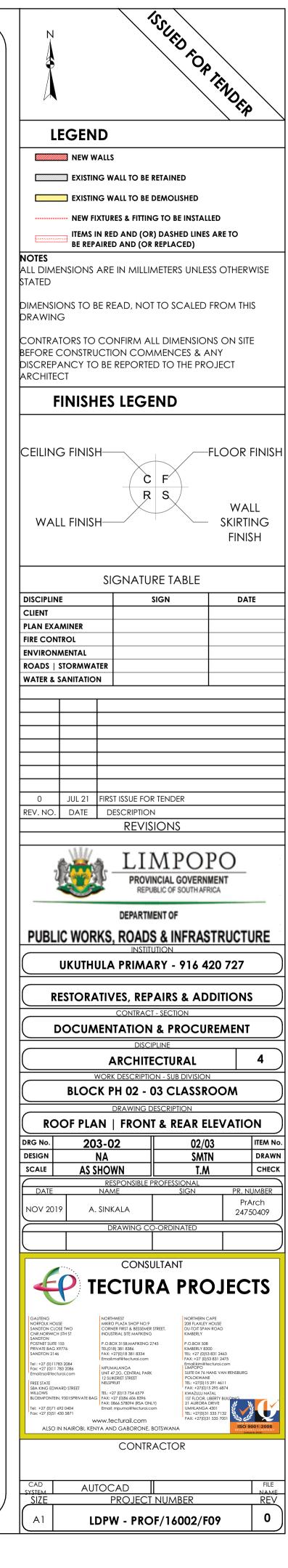
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

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.





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.

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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.

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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)

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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.

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 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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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 omplying 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

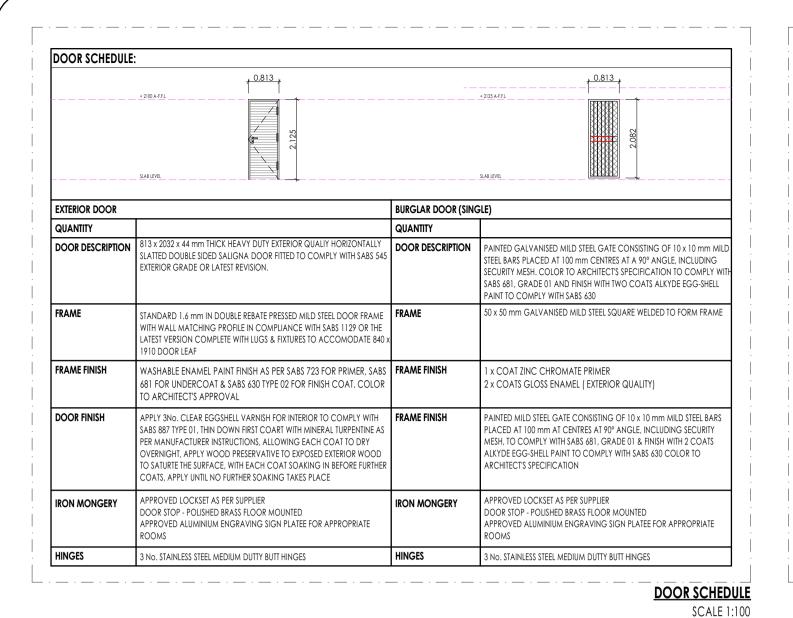
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

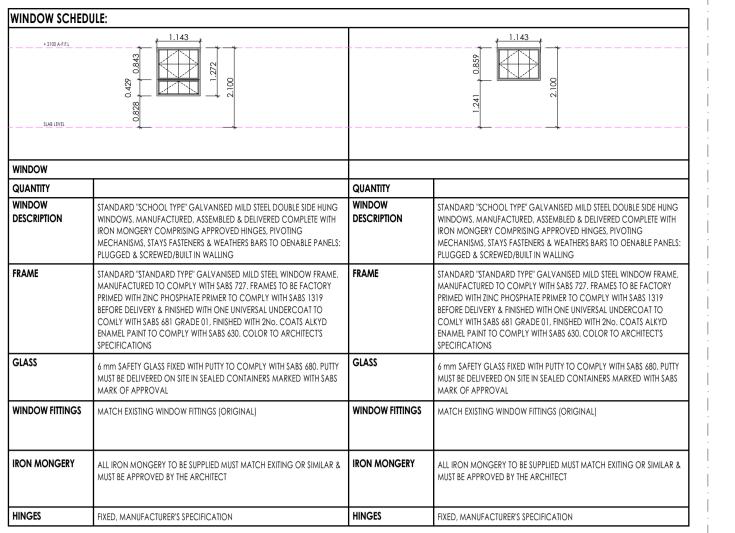
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

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.

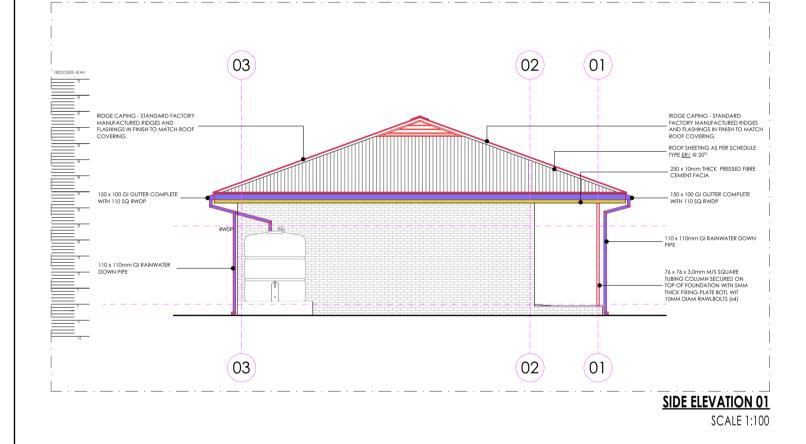
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

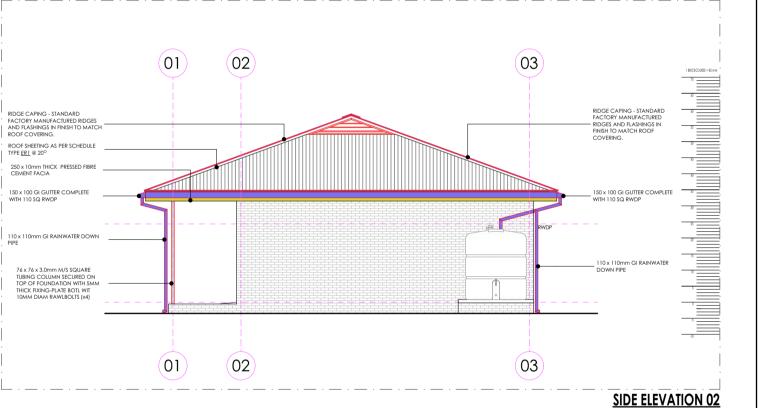
Fascia board; 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

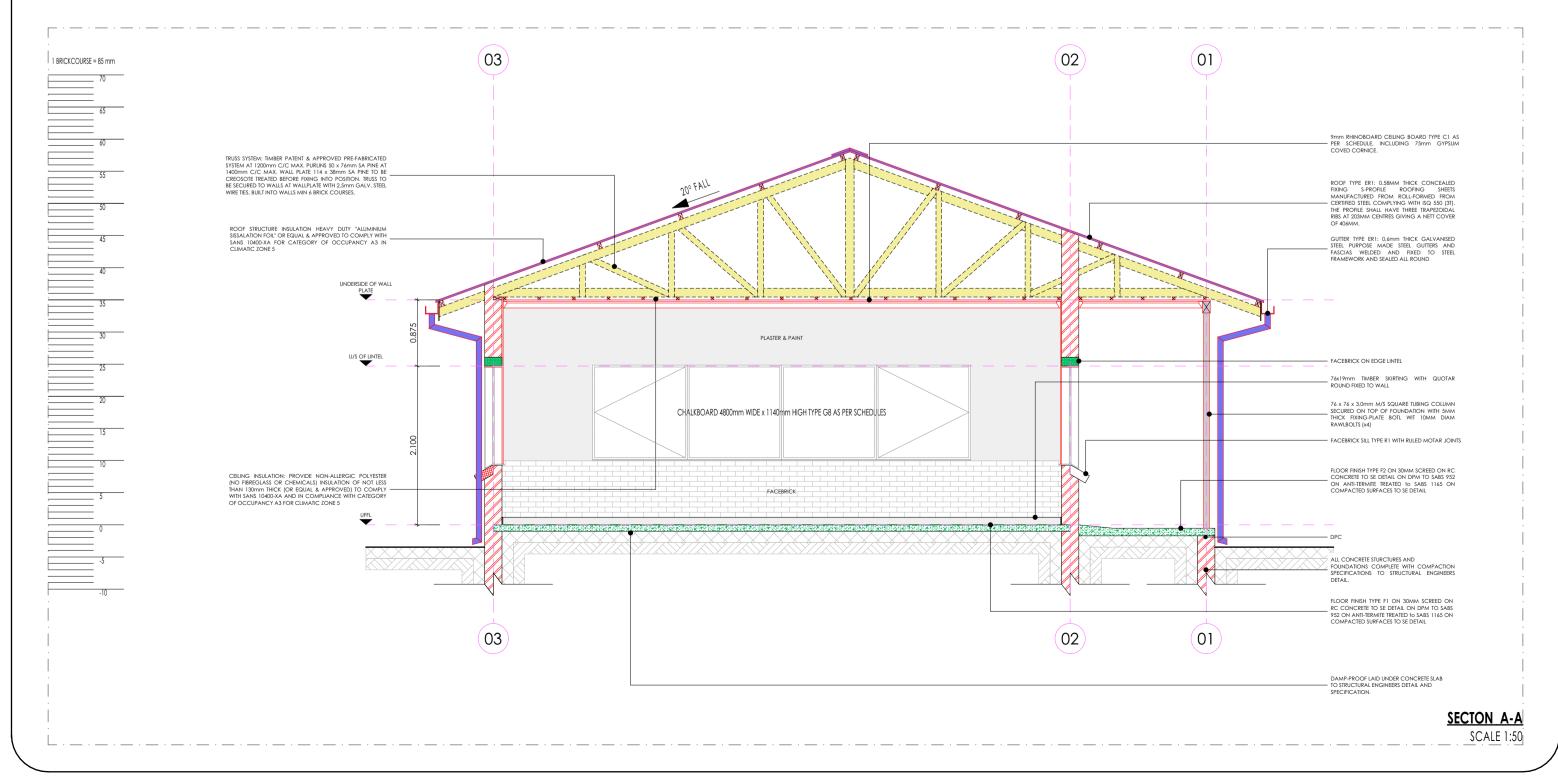




WINDOW SCHEDULE







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 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

treous 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

suitable extension lever, blank flush plate & offset push button for parapleaic access

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 SABS 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

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

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

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, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN A 20mm 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)

imic 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) 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 manufacture

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 schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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 fittled 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 (cupboc 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-conceale 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

K3: SS WASTE BIN

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 Sat 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 dome headed mirror screws

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.

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

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC

K9: SOAP DISPENSER/DISH- WALL MOUNTED

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 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

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 surrour

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.

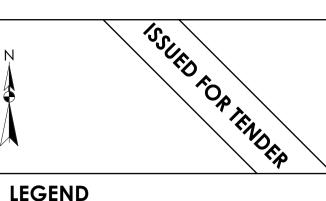
G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

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



WWW NEW WALLS

EXISTING WALL TO BE RETAINED

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

BE REPAIRED AND (OR REPLACED)

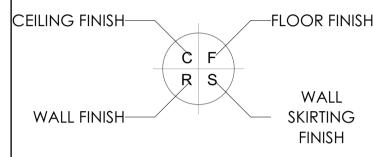
all dimensions are in millimeters unless otherwise

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

FINISHES LEGEND

ARCHITECT



DISCIPLINI	E		SIGN	DATE
CLIENT				
PLAN EXA	MINER			
FIRE CONT	ROL			
ENVIRONA	MENTAL			
ROADS S	STORMWA	TER		
WATER & S	ANITATIO	N		
0	JUL 21	FIRS	ST ISSUE FOR TENDER	
REV. NO.	DATE	D	ESCRIPTION	
			revisions	



PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

DOCUMENTATION & PROCUREMENT

RESTORATIVES, REPAIRS & ADDITIONS

ARCHITECTURAL

BLOCK PH 02 - 03 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES

SMTN NΔ CHECK AS SHOWN T.M

NOV 201 A. SINKALA 24750409 **CONSULTANT**



TEL: +27 (0)13 754 6579

www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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

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.

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

55mm 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.

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 alued 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.

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.

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

BX 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

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. **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 nanufactured 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

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omplying 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

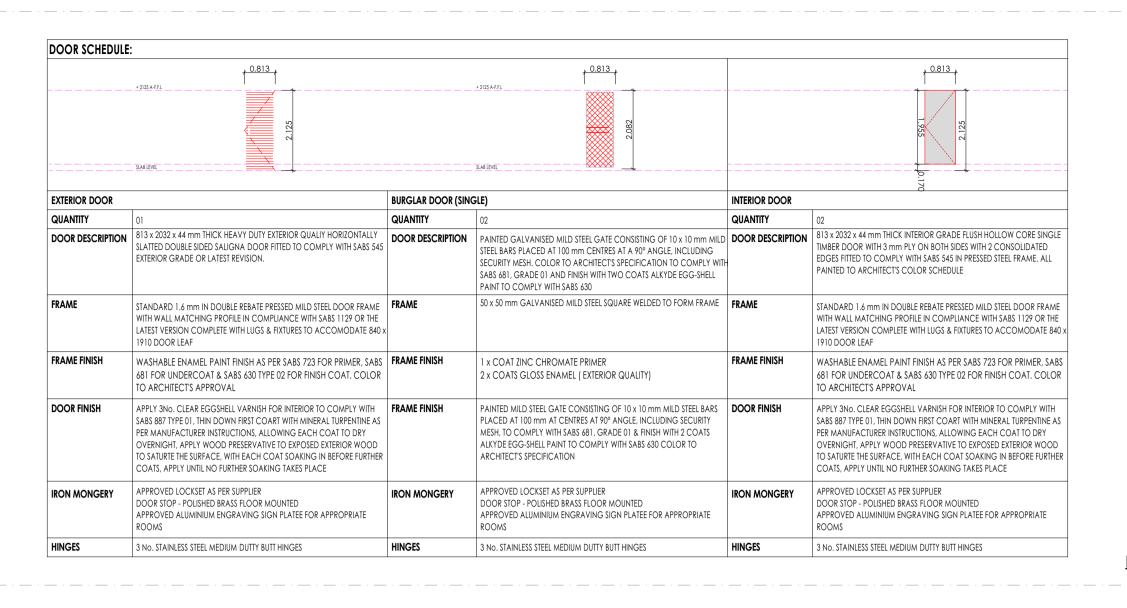
AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or

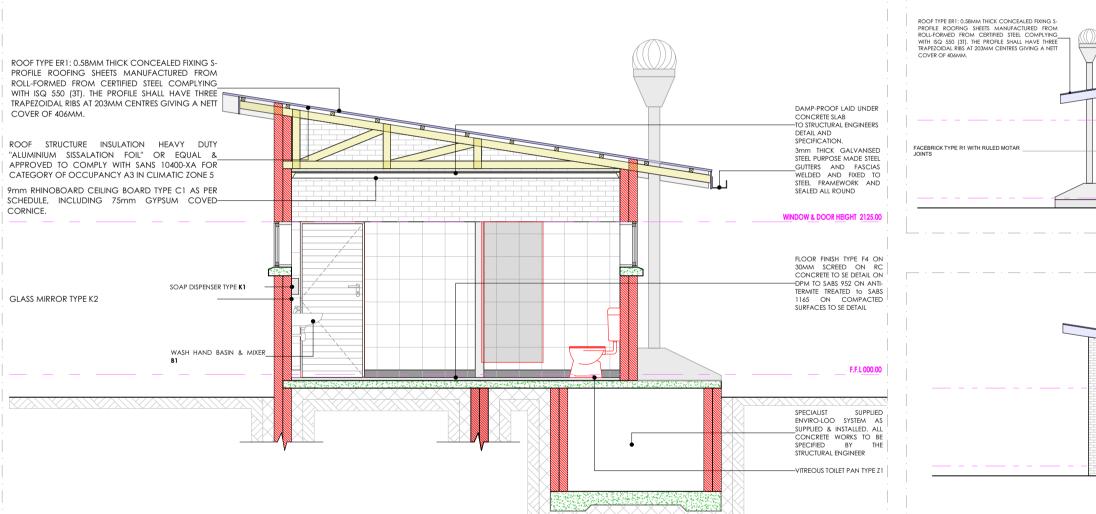
Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions. Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws.

Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



BLOCK X-03 DOOR SCHEDULI

FACEBRICK TYPE R1 WITH RULED MOTAR BLOCK X-03 REAR ELEVATION



X02

4X02

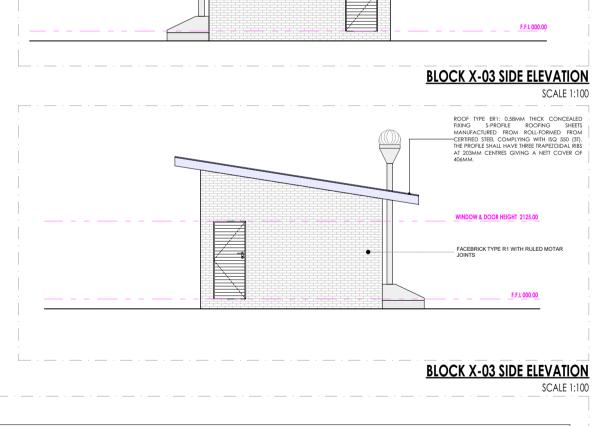
BLOCK X-03 FLOOR PLAN

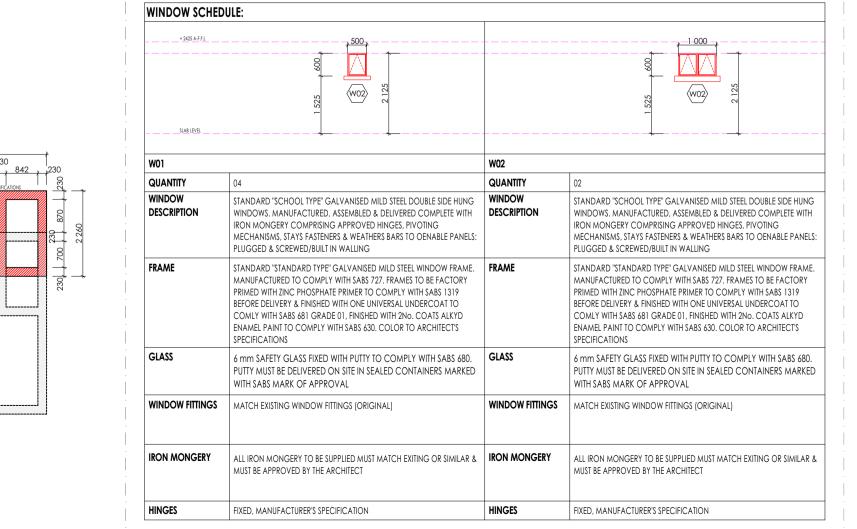
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(X02

04 SEAT ENV

BLOCK X-03 SECTION X03





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 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 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 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 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

accordance to manufacture's specifications.

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 the

B3: WHITE GLAZED PORCELAIN WHB (VANITY) ramic 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; 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) 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) 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 schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

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, 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 (cupboc 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-conceale 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, Fitte 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. outle fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with ba 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 Sat 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 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 necessar 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 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

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

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

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 Complet-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

As per Electrical Engineers specification

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. **G2: PROJECTOR SCREEN**

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SCO400 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

accordance with the manufacturer's instructions.

BLOCK X-03 WINDOW SCHEDULE

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

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 in

m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig

LEGEND WWW NEW WALLS

EXISTING WALL TO BE RETAINED EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO

BE REPAIRED AND (OR REPLACED)

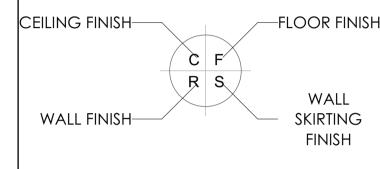
all dimensions are in millimeters unless otherwise

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

FINISHES LEGEND

ARCHITECT



DISCIPLINI	E		SIGN	DATE
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PLAN EXA	MINER			
FIRE CONT	TROL			
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WATER & S	ANITATION	ı		
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

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

ARCHITECTURAL

STAGE 04 ARCHITECTURAL

X-03 FLOOR | SECTION | SIDES | SCHEDULES F08-108-01

			01/01		
DESIGN		N/A	SMTN		DRAWN
SCALE		AS SHOWN	T.M		CHECK
		RESPONSIBLE I	PROFESSIONAL		
DATE		NAME	SIGN	PR. NL	JMBER
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TABLE 1: SUM	MARY FOR HU	MAN CAPITAL	
	BOYS	GIRLS	TOTAL
GRADE R	69	59	128
GRADE 1	59	71	130
GRADE 2	49	58	107
GRADE 3	31	87	118
GRADE 4	49	70	119
GRADE 5	49	61	110
GRADE 6	64	41	105
GRADE 7	55	65	120
TOTAL NO. LEA	RNERS		945
TOTAL OF EDUC	CATORS		26

SCALE 1:500

TABLE 2A: DEMOLITION WORKS	AREA
BLOCK EX-C3: 05 CLASSROOM BLOCK	391.00 m
BLOCK EX-C4: 05 CLASSROOM BLOCK	410.00 m
BLOCK EX-N: NUTRITION CENTER	87.00 m
BLOCK EX-PT1: PIT ABLUTION	58.00 m
BLOCK EX-MC01: MOBILE CLASSROOM	45.00 m
BLOCK EX-MC02: MOBILE CLASSROOM	57.00 m
BLOCK EX-MC03: MOBILE CLASSROOM	128.00 m
TOTAL AREA OF DEMOLITION	1176.00 r

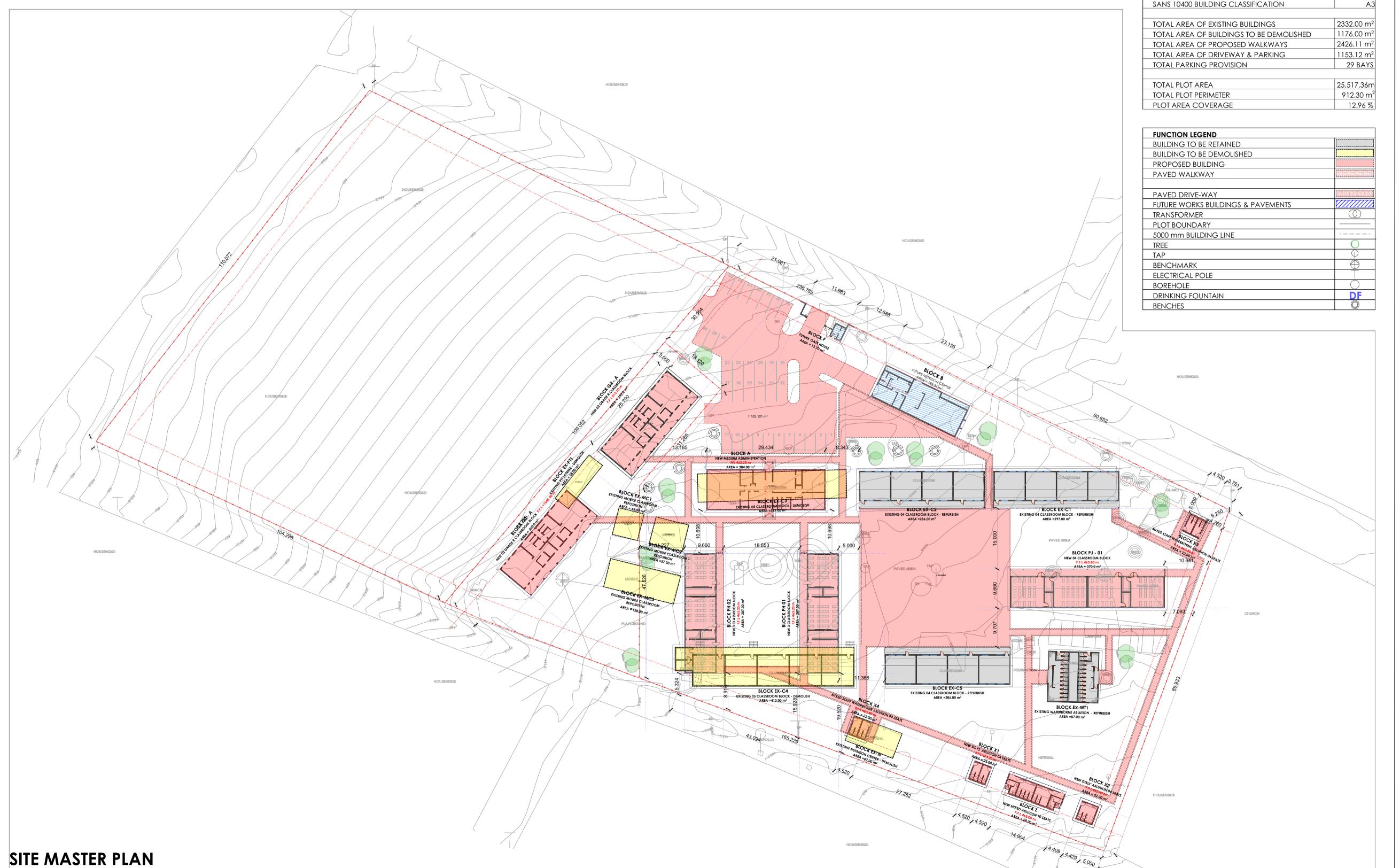
TABLE 2B: RENOVATION REFURBISHMENT	AREA
BLOCK EX-C1: 05 CLASSROOM BLOCK	397.00 n
BLOCK EX-C2: 04 CLASSROOM BLOCK	286.00 n
BLOCK EX-C5: 04 CLASSROOM BLOCK	286.00 n
BLOCK EX-WT1: 24 SEAT ENVIRO-LOO	87.00 n
TOTAL AREA: EXISTING BUILDINGS FOR REFURB	1056.00n

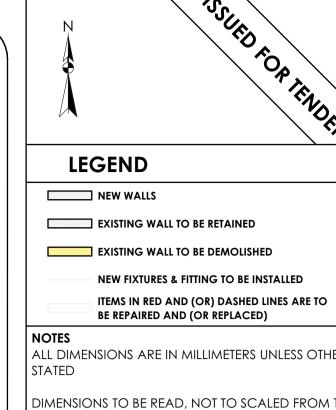
TABLE 2C: NEW WORKS	AREA
BLOCK A - ADMINISTRATION BLOCK	304.00 m ²
BLOCK PJ 01 - 4 CLASSROOM BLOCK	370.00 m ²
BLOCK PH 01 - 3 CLASSROOM BLOCK	287.00 m ²
BLOCK PH 02 - 3 CLASSROOM BLOCK	287.00 m ²
BLOCK G2 A - 2 CLASSROOM BLOCK	260.00 m ²
BLOCK G2 B - 2 CLASSROOM BLOCK	260.00 m ²
BLOCK X1 - 04 SEAT ENVIRO-LOO	22.00 m ²
BLOCK X2 - 04 SEAT ENVIRO-LOO	22.00 m ²
BLOCK X3 - 04 SEAT WATERBORNE TOILET - STAFF	22.00 m ²
BLOCK X4 - 04 SEAT WATERBORNE TOILET - STAFF	22.00 m ²
BLOCK Z - 10 SEAT ENVIRO-LOO	68.00 m ²
TOTAL AREA OF NEW BUILDINGS	1924.00 m ²

TABLE 2D: FUTURE WORKS	
BLOCK B - NUTRITION CENTER	183.36 m ²
BLOCK F - GATE HOUSE	13.70 m ²
TOTAL AREA OF FUTURE BUILDINGS	197.06 m ²
TABLE DE. CLASCOCOMAS SHAAAAADV	

TABLE 2E: CLASSROOMS SUMMARY	
TOTAL NUMBER FOR ALL CURRENTLY PROVIDED CLASSROOMS	22
TOTAL NUMBER FOR ALL REFURBISHED CLASSROOMS	12
TOTAL NUMBER FOR ALL NEW CLASSROOMS	10

ZONE	SANS 10400 CLIMATIC ZONE
Α	SANS 10400 BUILDING CLASSIFICATION
2332.00 m	TOTAL AREA OF EXISTING BUILDINGS
1176.00 m	TOTAL AREA OF BUILDINGS TO BE DEMOLISHED
2426.11 m	TOTAL AREA OF PROPOSED WALKWAYS
1153.12 m	TOTAL AREA OF DRIVEWAY & PARKING
29 BAYS	TOTAL PARKING PROVISION
25,517.36n	TOTAL PLOT AREA
912.30 m	TOTAL PLOT PERIMETER
12.96 %	PLOT AREA COVERAGE



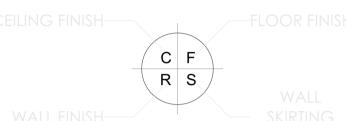


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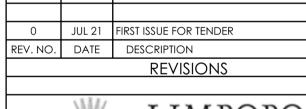
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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





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





DEPARTMENT OF

PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS DOCUMENTATION & PROCUREMENT

ARCHITECTURAL

SITE PLAN

STAGE 04 ARCHITECTURAL

DRG No.	F09-100-01		No. F09-100-01 01/02		ITEM 1	
DESIGN		SMTN	OD		DRAWN	
SCALE		AS SHOWN	A.S	CHECK		
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CONTRACTOR

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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

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.

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

55mm 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.

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 Curren 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.

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.

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.

R1: FACE BRICK

WALL FINISHES:

BX 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 6 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

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

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be nanufactured 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 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 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 138 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 o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (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

omplying 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 instruction

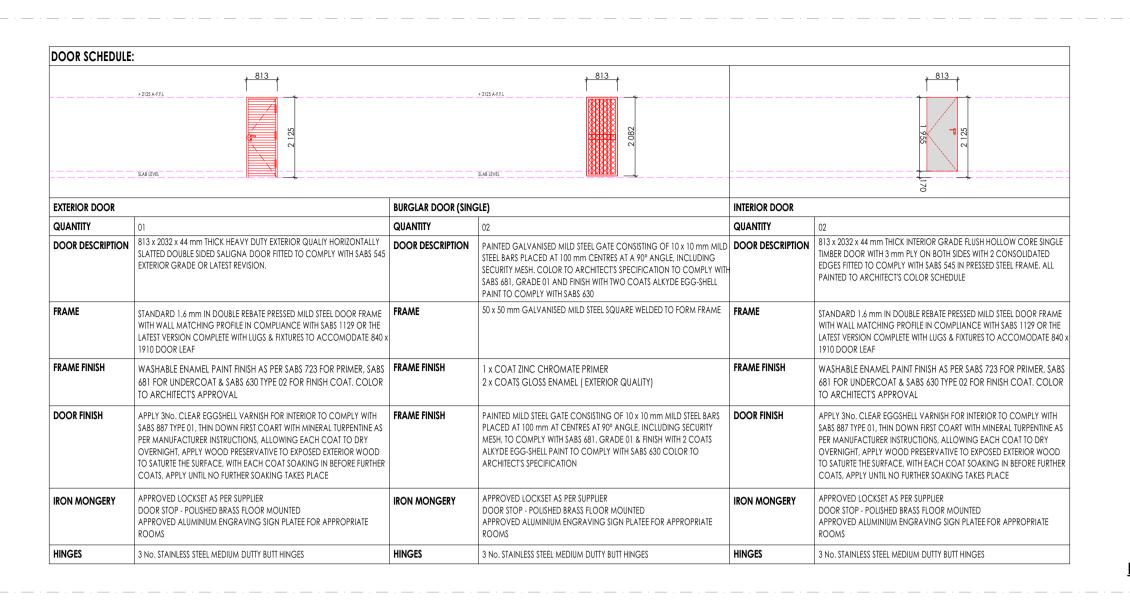
AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x 110 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.



FACEBRICK TYPE R1 WITH RULED MOTAR

(X01)

ROOF TYPE FR1: 0.58MM THICK CONCEALED FIXING S-

PROFILE ROOFING SHEETS MANUFACTURED FROM

ROLL-FORMED FROM CERTIFIED STEEL COMPLYING WITH ISQ 550 (3T). THE PROFILE SHALL HAVE THREE

TRAPEZOIDAL RIBS AT 203MM CENTRES GIVING A NETT

ROOF STRUCTURE INSULATION HEAVY DUTY

"ALUMINIUM SISSALATION FOIL" OR EQUAL &

CATEGORY OF OCCUPANCY A3 IN CLIMATIC ZONE 5

9mm RHINOBOARD CEILING BOARD TYPE C1 AS PER

SCHEDULE, INCLUDING 75mm GYPSUM COVED-

SOAP DISPENSER TYPE K1

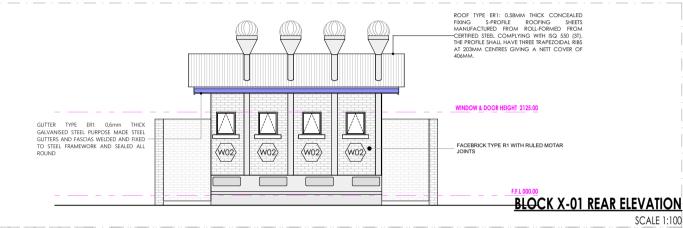
WASH HAND BASIN & MIXER

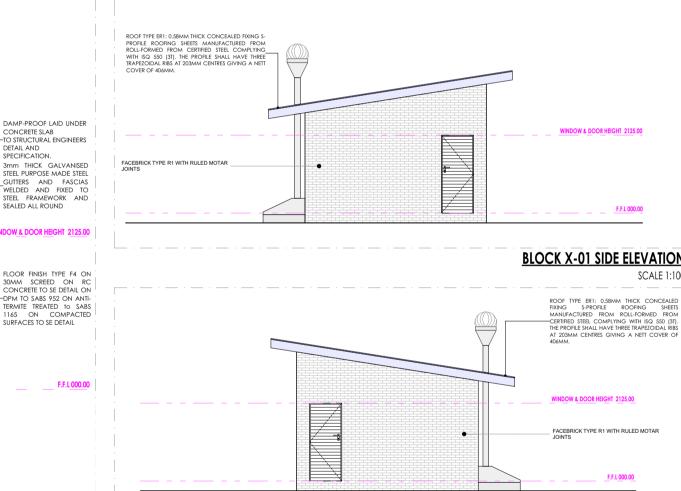
04 SEAT ENV

COVER OF 406MM.

GLASS MIRROR TYPE K2

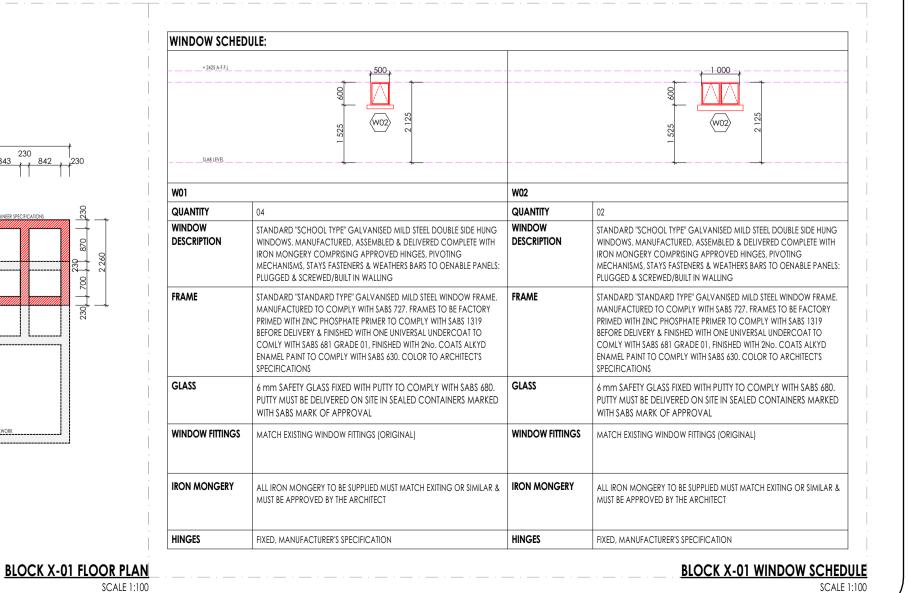
BLOCK X-01 DOOR SCHEDULI





BLOCK X-01 SECTION XO

BLOCK X-01 SIDE ELEVATION



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 "J 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 90o 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 "Jac 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)**

ritreous 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

accordance to manufacture's specifications.

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 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 t

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

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) 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) 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.

• 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 schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings

Combination of sanitaryware, accessories and general fittings comprising of

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 (cupboal 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, 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

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 Sat 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 dome 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.

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 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 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 specifications. 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 Comple

115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance

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

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC

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 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 SCO400 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

accordance with the manufacturer's instructions.

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 m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig

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 in

DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT FINISHES LEGEND -floor finish SKIRTING FINISH SIGNATURE TABLE DISCIPLINE DATE **PLAN EXAMINER** FIRE CONTROL ROADS | STORMWATER **WATER & SANITATION** JUL 21 FIRST ISSUE FOR TENDER DATE DESCRIPTION REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS **DOCUMENTATION & PROCUREMENT ARCHITECTURAL** STAGE 04 ARCHITECTURAL DRAWING DESCRIPTION X-01 FLOOR | SECTION | SIDES | SCHEDULES F09-107-01 DRAWN **SMTN** CHECK SCALE AS SHOWN T.M T. MANYADZA 43981757 CONSULTANT www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA CONTRACTOR

LEGEND

EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED

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

BE REPAIRED AND (OR REPLACED)

ITEMS IN RED AND (OR) DASHED LINES ARE TO

MEW WALLS

NOV 201

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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

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.

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

55mm 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.

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 Curren 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.

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.

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

ROOF TYPE ER1: 0.58MM THICK CONCEALED FIXING S-

PROFILE ROOFING SHEETS MANUFACTURED FROM

ROLL-FORMED FROM CERTIFIED STEEL COMPLYING WITH ISQ 550 (3T). THE PROFILE SHALL HAVE THREE

TRAPEZOIDAL RIBS AT 203MM CENTRES GIVING A NETT

ROOF STRUCTURE INSULATION HEAVY DUTY

"ALUMINIUM SISSALATION FOIL" OR EQUAL &

CATEGORY OF OCCUPANCY A3 IN CLIMATIC ZONE 5

9mm RHINOBOARD CEILING BOARD TYPE C1 AS PER

SCHEDULE, INCLUDING 75mm GYPSUM COVED-

SOAP DISPENSER TYPE K1

WASH HAND BASIN & MIXER

04 SEAT ENV

COVER OF 406MM.

GLASS MIRROR TYPE K2

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

BX 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 6 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

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

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be nanufactured 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 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 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 138 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 o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (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

omplying 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 instruction

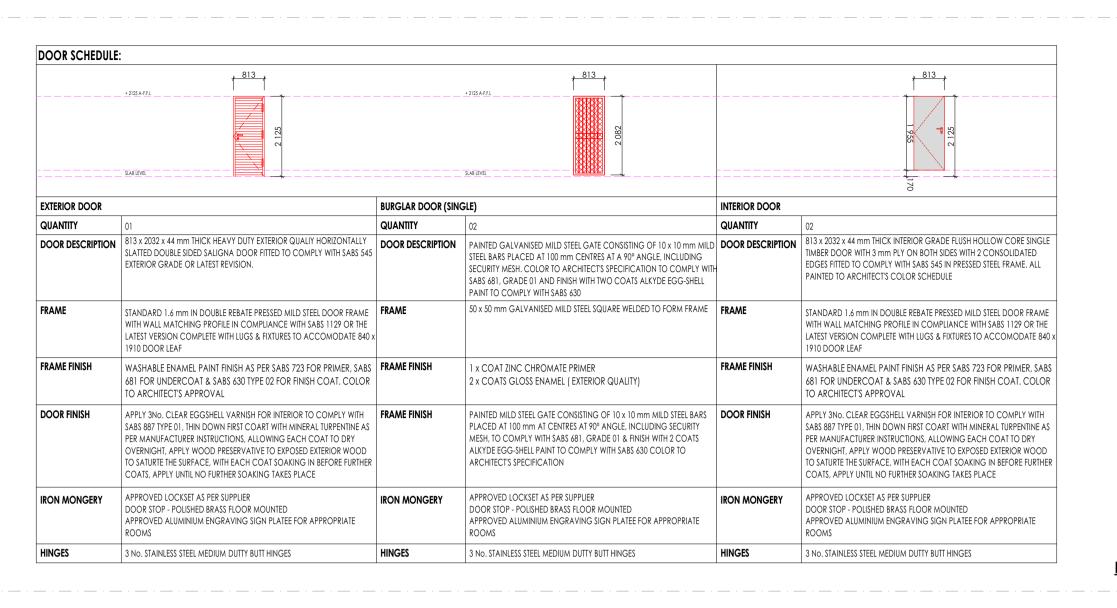
AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x 110 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.

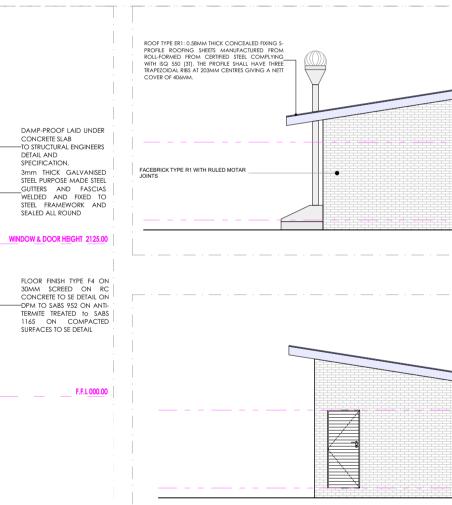


FACEBRICK TYPE R1 WITH RULED MOTAR

(X01)

BLOCK X-02 DOOR SCHEDULI

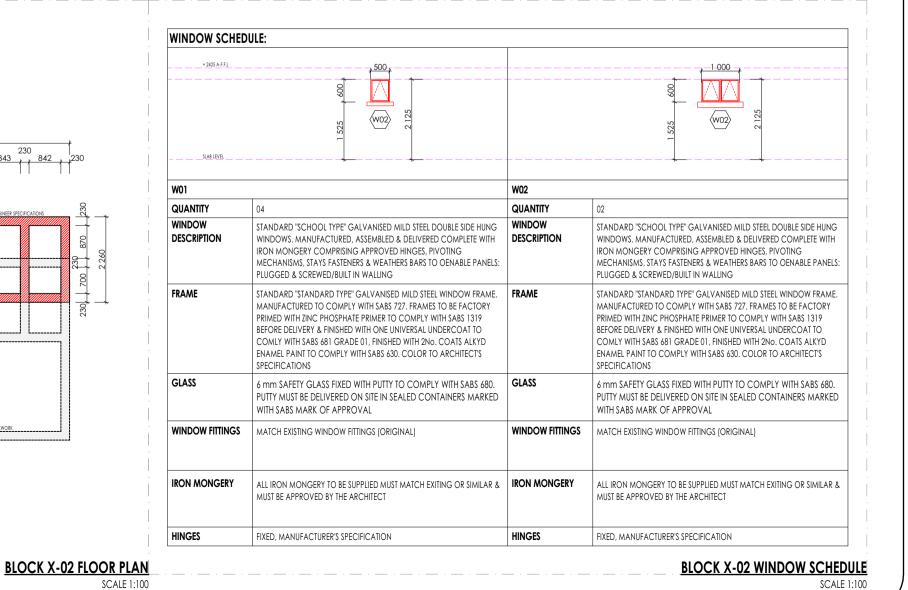
FACEBRICK TYPE R1 WITH RULED MOTAR **BLOCK X-02 REAR ELEVATION**



BLOCK X-02 SECTION XO

BLOCK X-02 SIDE ELEVATION

BLOCK X-02 SIDE ELEVATION



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 "J 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 90o 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 "Jac

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)

ritreous 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

accordance to manufacture's specifications.

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 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 t

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

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) 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) 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 schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings

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 (cupboal 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, 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

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 Sat 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 dome 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.

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.

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

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

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.

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

115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance

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

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.

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

K9: SOAP DISPENSER/DISH- WALL MOUNTED

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 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 SCO400 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

accordance with the manufacturer's instructions.

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

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 in

m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS **DOCUMENTATION & PROCUREMENT ARCHITECTURAL**

REPUBLIC OF SOUTH AFRICA

JUL 21 FIRST ISSUE FOR TENDER

DESCRIPTION

LEGEND

EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE

SIGNATURE TABLE

-floor finish

SKIRTING

FINISH

DATE

BEFORE CONSTRUCTION COMMENCES & ANY

FINISHES LEGEND

DISCREPANCY TO BE REPORTED TO THE PROJECT

BE REPAIRED AND (OR REPLACED)

ITEMS IN RED AND (OR) DASHED LINES ARE TO

MEW WALLS

ARCHITECT

DISCIPLINE

PLAN EXAMINER

FIRE CONTROL

ROADS | STORMWATER

DATE

WATER & SANITATION

STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION X-02 FLOOR | SECTION | SIDES | SCHEDULES F09-108-01 DRAWN **SMTN** AS SHOWN T.M

CHECK SCALE NOV 201 T. MANYADZA 43981757 CONSULTANT





www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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

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.

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

55mm 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.

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 alued with conducive adhesive To SARS 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 Curren 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.

"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.

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm

S1: HARDWOOD OR EQUAL AND APPROVED

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

BX 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

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.

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 nanufactured 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 138 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 o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (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

omplying 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

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

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

Downpipe: 110 x 110 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

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.

Manufacturer Installation Instructions.

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

BLOCK Y-01 DOOR SCHEDULE

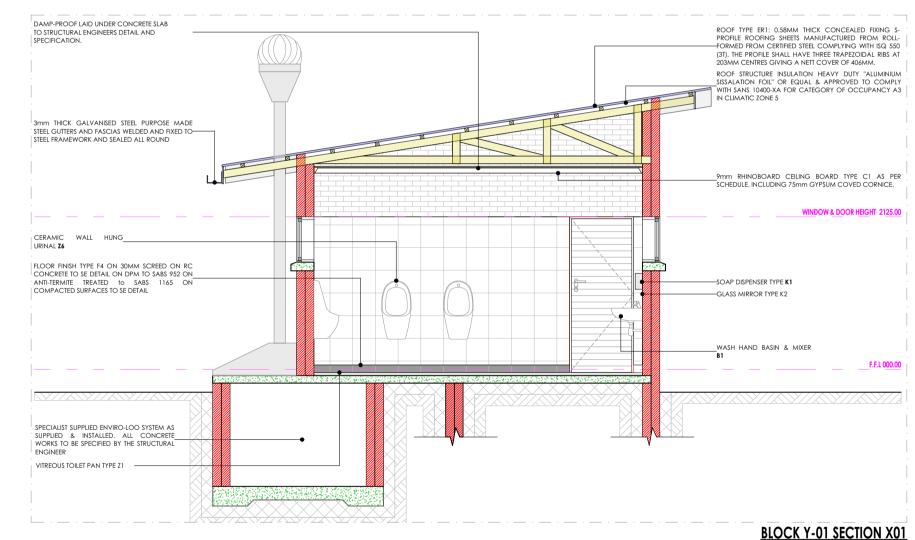
BLOCK Y-01 REAR ELEVATION

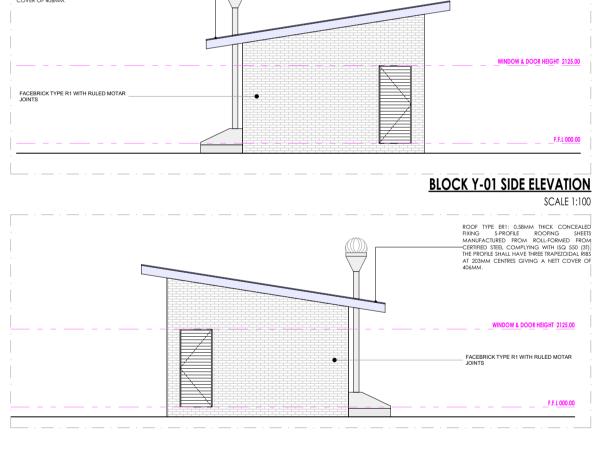
BLOCK Y-01 SIDE ELEVATION

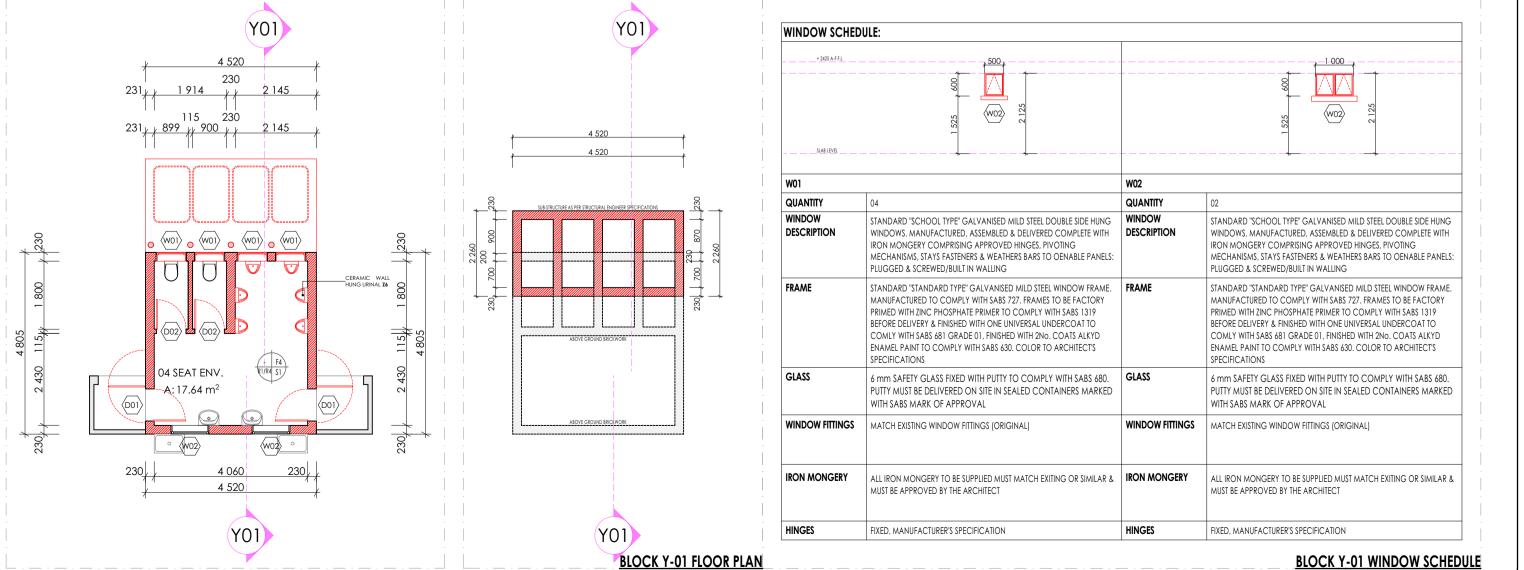
SCALE 1:100

FACEBRICK TYPE R1 WITH RULED MOTAR









SCALE 1:100

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 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 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 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 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

accordance to manufacture's specifications.

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, 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 ¼ 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) ramic 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; 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) heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1N 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 manufacture

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 schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhe 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.

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, chair 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 fooi

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 Satii 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 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 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

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.

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

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 **K8: PAPER TOWEL DISPENSER**

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 Complet-

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 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 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 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

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

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

accordance with the manufacturer's instructions

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.

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

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 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 with

LEGEND WWW NEW WALLS

EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED

ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

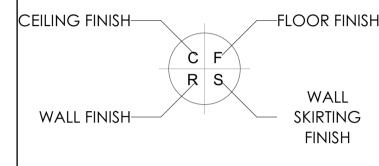
all dimensions are in millimeters unless otherwise

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

FINISHES LEGEND

ARCHITECT



DISCIPLIN	E		SIGN	DATE
CLIENT				
PLAN EXA	MINER			
FIRE CON	TROL			
ENVIRON/	MENTAL			
ROADS	STORMWA	TER		
WATER & S	SANITATIO	N		
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PUBLIC WORKS, ROADS & INFRASTRUCTURE UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL STAGE 04 ARCHITECTURAL

Y-01 FLOOR | SECTION | SIDES | SCHEDULES F09-109-01

, KO 110.		1 03-103-01	01/01	
DESIGN		N/A	SMTN	DRAWN
SCALE		AS SHOWN	T.M	CHECK
		responsible f	PROFESSIONAL	
DATE		NAME	SIGN	PR. NUMBER
NOV 20)19	T. MANYADZA		PrArch 43981757
		DRAWING CO	D-ORDINATED	





www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

AUTOCAD PROJECT NUMBER

LDPW - PROF/16002/F09

FLOORS

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor titles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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.

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 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.

EA- CEMENT SAND SCOR

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 conductive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

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

SKIRTING

\$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.

R1: FACE BRICK

S3: CEMENT SAND SCREED

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
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

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

R5:CERAMIC WALL TILES - FULL HEIGHT

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

"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.

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

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

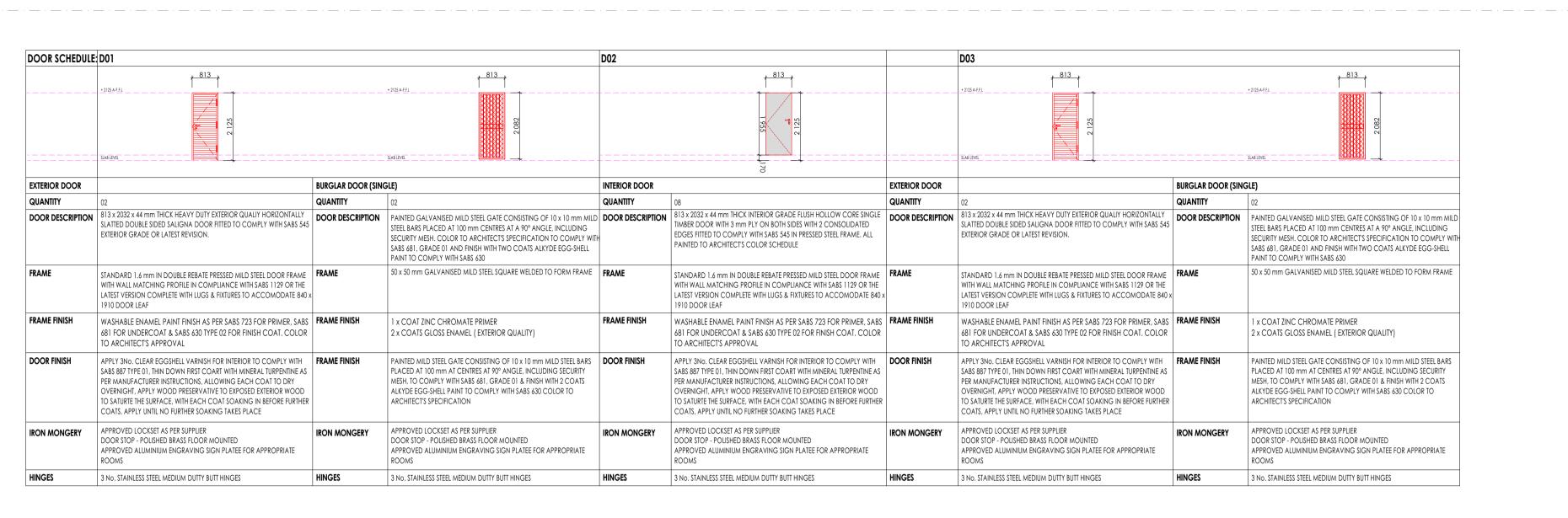
Rainwater Downpipes.

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

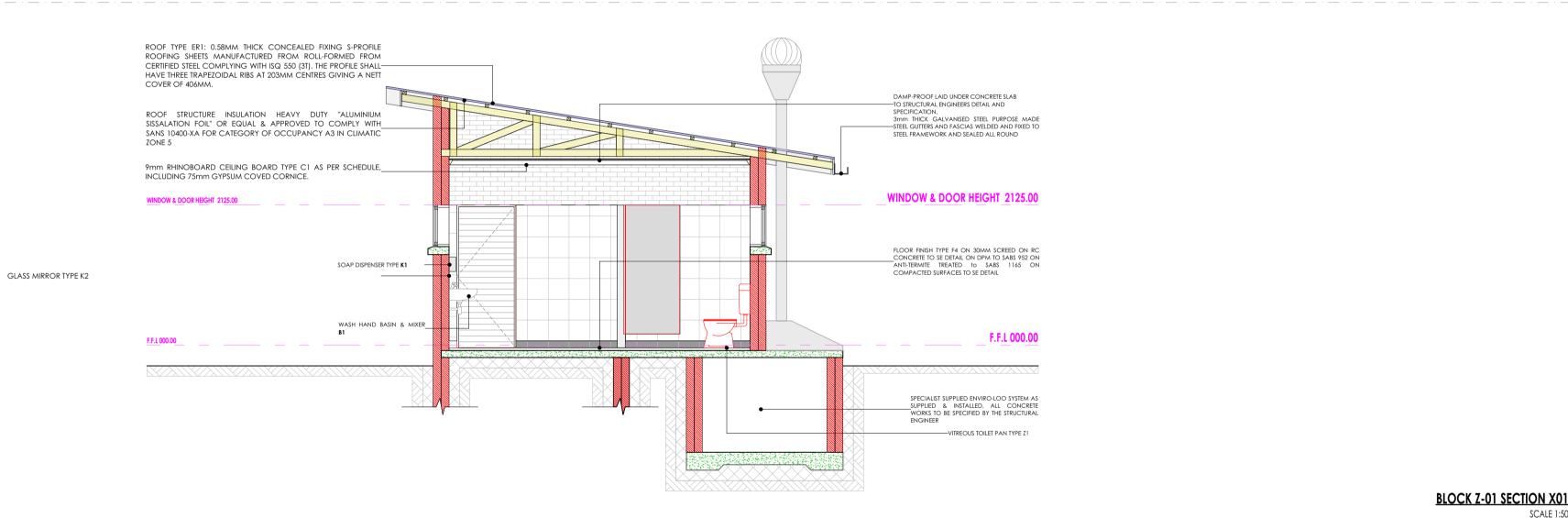
Manufacturer Installation Instructions.

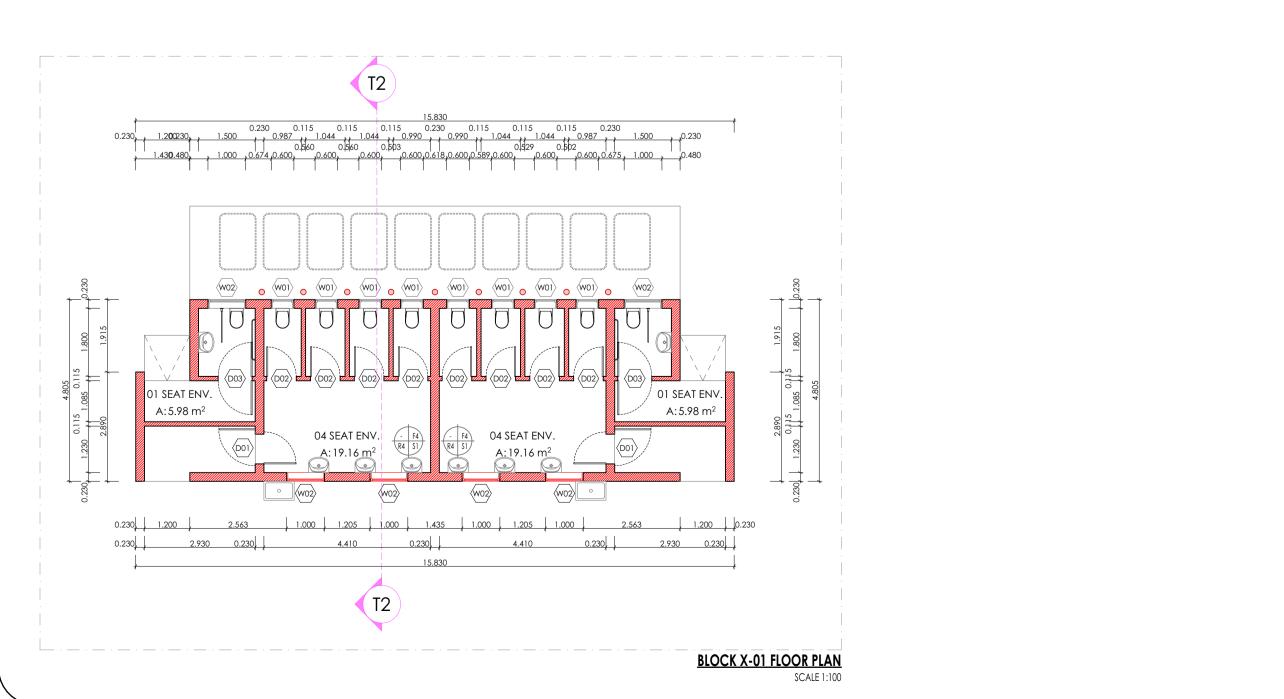
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws.

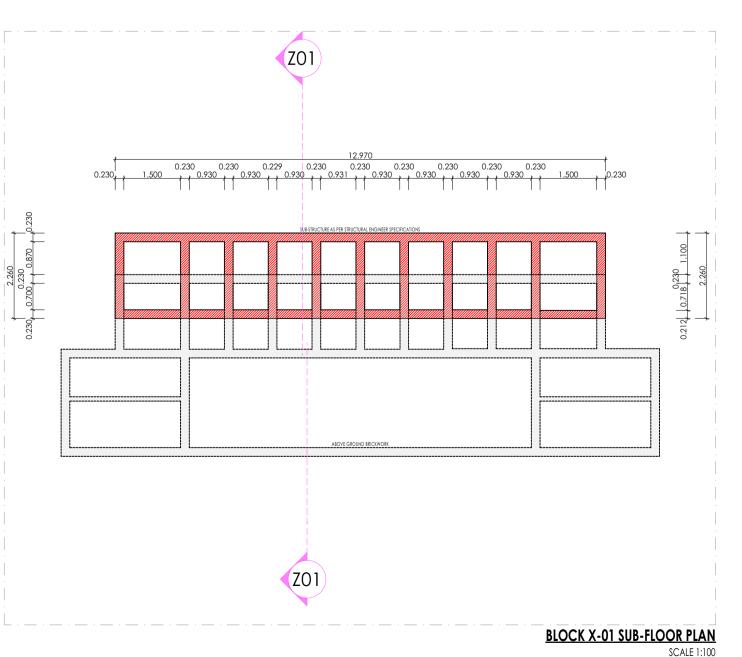
Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

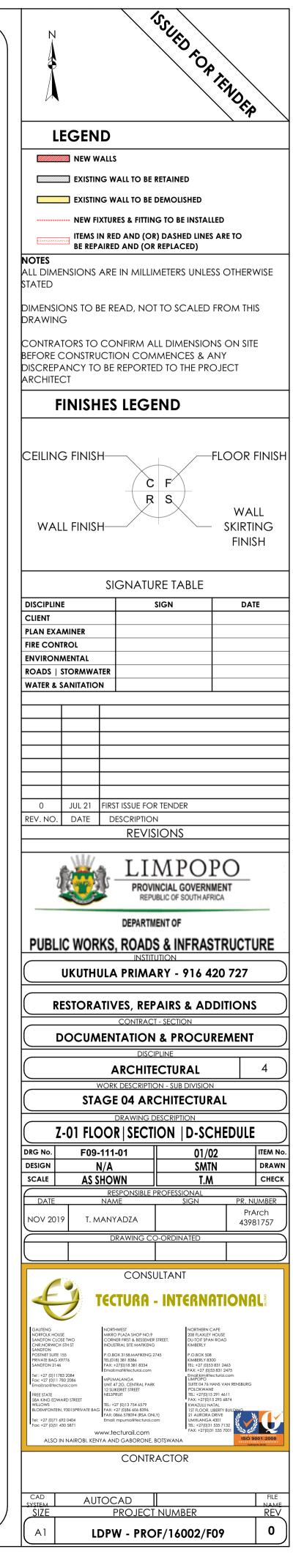


BLOCK Z-01 DOOR SCHEDULE SCALE 1:100









F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle 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

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.

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

55mm 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.

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 alued with conducive adhesive To SARS 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.

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.

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 BX 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

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

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.

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

specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be

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

CEILING AND CORNICE:

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

nanufactured 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 138 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 o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick ligh 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

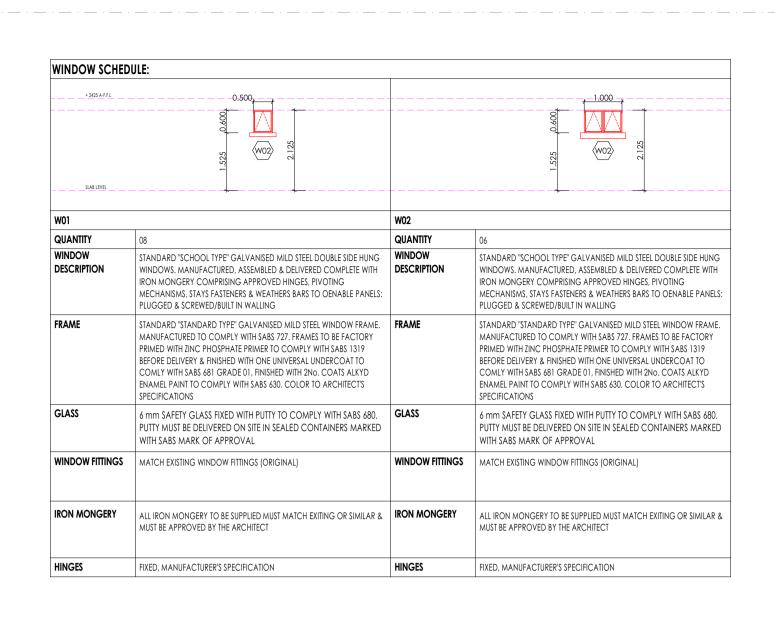
omplying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

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.

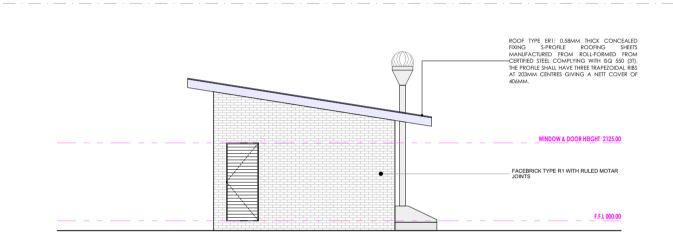
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

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

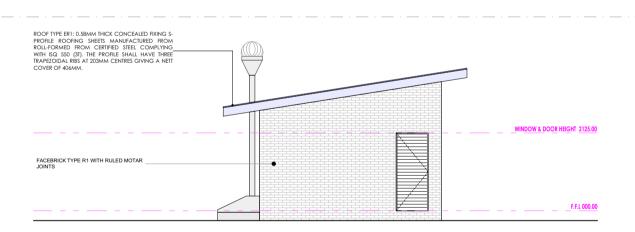
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



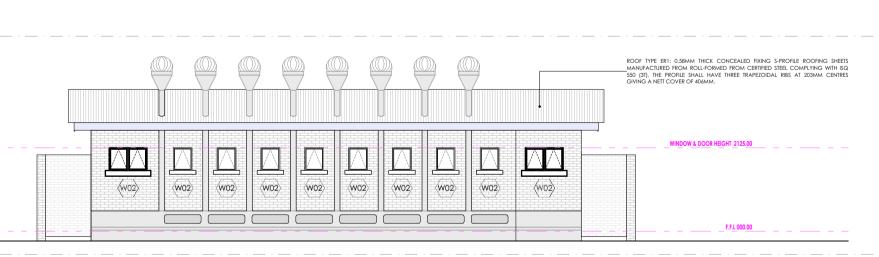
BLOCK Z-01 WINDOW SCHEDULE



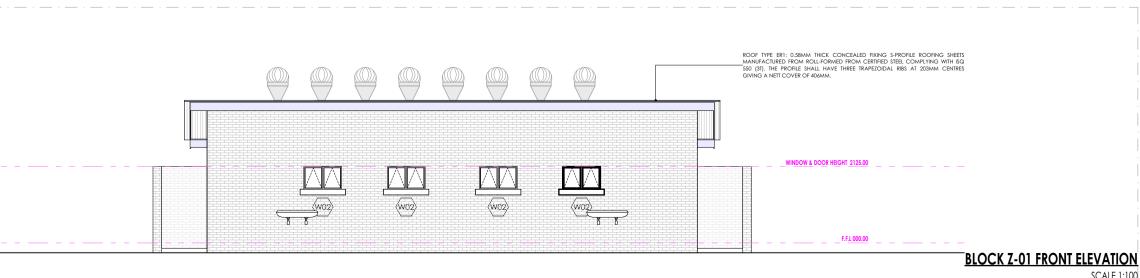
BLOCK Z-01 SIDE ELEVATION



BLOCK Z-01 SIDE ELEVATION SCALE 1:100



BLOCK Z-01 REAR ELEVATION



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 "J 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 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 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 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.

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) 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) eous 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 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) 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 schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawinas.

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 (cupboa 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-conceale 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, Fitte 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. outle fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with ba 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 necessar 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 to 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 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 ar 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

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 p

K9: SOAP DISPENSER/DISH- WALL MOUNTED

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 \$C0400 Keystone Brackets Adjustable Set of 2, size 300mm. 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.

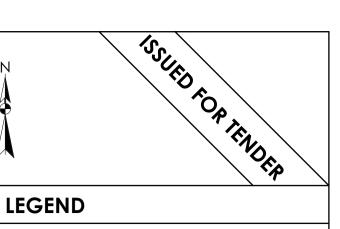
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrou mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric) 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 file surface over the 20mm expansic 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 wi 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.



WWW NEW WALLS EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED

NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

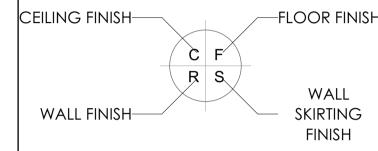
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE

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

FINISHES LEGEND

ARCHITECT



FIRE CONT			
PLAN EXA <i>l</i> FIRE CONT ENVIRON <i>N</i>			
	ROL		
ENVIRONM			
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ROADS S	STORMWATER		
WATER & S	ANITATION		
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL

STAGE 04 ARCHITECTURAL

Z-01 ELEVATIONS | W-SCHEDULE DRG No. F09-111-02

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DESIGN		N/A	SMTN		DRAWN
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