INDEPENDENT DEVELOPMENT TRUST

VOLUME 1 to 3

TENDERING PROCEDURES, RETURNABLE DOCUMENTS, AGREEMENT, CONTRACT DATA, SCOPE OF WORK AND SITE INFORMATION

APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH-WEST PROVINCE.

BID NO: DOE14NWER009

CLOSING DATE AND TIME: 11 October 2023 at 12h00

Independent Development Trust

SCM / Technical Enquiries

E-mail: noxolod@idt.org.za and andrewn@idt.org.za

Bidder: . . . . . .

CIDB Registration Number: .....

CSD Registration Number: . . . .

COIDA / FEMA Certificate Number: . . . .

Contact Person: . . . . . .

Contact Details: . . . . . .

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The scope of works comprises of,

- Refurbishing Existing Block A, B, C & D
- New Administration Block
- New Nutrition Block
- New Sport Block
- New Refuse Block
- New Computer & Science Block
- New Library & Multipurpose

- New Toilet Block
- Clearvu Fence
- all related

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This tender applies to both the (a) Skills Development Standard and the (b) Indirect Targeting Standard. Although in the case of these two standards there are no returnable documents, tenderers are sensitized that the proforma documents as listed below, shall be completed by the successful contractor after the award of the contract within the stipulated period. (The proforma documents are provided in the tender data for information purposes only).

Form A 1 List of recognized Skills Development Agencies, Form A 2 Baseline Training Plan, Form A 3 Project Interim Report, Form A 4 Supervisor Agreement, Form A 5 Project Completion Report. (Skills Development Standards)

Project Interim Report, Project Completion Report and Declaration. (Indirect Targeting Standards)

Addendum

Addendum to the Contract

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T1.1 BID NOTICE AND INVITATION TO BID

INDEPENDENT DEVELOLPMENT TRUST

T1.1 Bid Notice and Invitation to Bid

APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH-WEST PROVINCE.

BID NUMBER: DOE14NWER009

CLOSING DATE AND TIME: 11 October 2023 at 12h00

On behalf of the Department of Education, North-West Province, the Independent Development Trust, invites bidders for the **APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH-WEST PROVINCE.**

Only tenders who have a CIDB contractor grading of **Grade 7GB (General Building) or higher; and comply with the tender conditions will be legible.**

The evaluation of the tender will be carried out in three (3) phases.

Phase 1: Mandatory Requirements

Only bidders, who meet the following requirements will be eligible for further evaluation.

- Letter of Authority for signatory and / or Board / company resolution (for companies that has more than one Directors)
- The bidder must provide proof of valid CIDB registration or CIDB number– **Grade 7GB or higher** (JV's to submit consolidated CIDB Grading, which equates to the required grading)
- The bidder must provide a valid COIDA letter or Tender Letter obtainable from Department of Labour or FEMA certificate. (If JV, all partners must submit COIDA or FEM Certificates)
- Attendance to the compulsory site briefing meeting - Briefing session attendance register must be signed at Briefing Meeting
- The bidder must duly complete and sign **in full**:
    - SBD 1: Invitation to bid,
    - SBD 4: Bidder's disclosure and

- SBD 6.1 Preference points claim form in terms of PPPFA, Procurement Regulations 2022

- The bidder must complete Form of Offer, fully signed and witnessed in the tender document **in full**
- Joint Venture (JV) agreement, **if applicable,** JV agreement must be signed by all parties of the JV
- Acknowledgement of Addenda to Tender Documents (if applicable)
- The bidder must be registered on Central Supplier Database (CSD) and provide MAAA Number to verify registration)

Note: (i) Failure to submit any of the above documents / requirements shall result in disqualification of the bid.
(ii) If any of the Directors are in the Employment of the State shall result in disqualification of the bid.
(iii) If the bidder is listed on National Treasury List of Restricted Suppliers shall result in disqualification of the bid.
(iv) If any of its Directors are Listed on the Register of Defaulters shall result in disqualification of the bid.

The IDT will assess all bids received based on its procurement policy in the event that information is required from the bidder/s, the IDT reserves its rights to request the information which shall be submitted within seven (7) working days from request and failure to submit will result in disqualification.

Non-Compulsory Document, but mandatory to comply at the award stage

- Tax Compliance Letter with a unique pin
- Central Supplier Database (CSD) Report

Only bidders who met all mandatory requirements will be evaluated further on functionality.

Phase 2: Functionality criteria

Criteria	**Points Allocation**
Relevant Previous Experience on completed projects of a similar nature and value in the last ten (10) years (Refer to Form T2.2.2)	35 points
Signed and stamped client references on the same projects listed above (both Client & Client Representative).OR Signed and Contactable reference letters from previous clients.	10 points
Qualifications, Skills and Experience of project key resources	35 points
Financial Viability	20 points
Total	**100 points**
NB: Minimum qualifying functionality threshold is **70 points out 100**	

Similar Nature of work for evaluation Construction of Buildings (No points will be allocated for other nature and value of works like Civil Engineering projects, Water projects, Transport Projects, Traffic Engineering Projects, and all Electrical & Mechanical Engineering projects)

Supporting Documents Required

- CIPC Document
- Original certified ID Copies of directors (not older than 6 Months)
- Particulars of Tender's Projects (Appointment letters and completion certificates)
- Schedule of Tenderer's References
- CV of Key Personnel including the OHS
- Original certified copies of Certificates/qualifications (not older than 6 Months)
- Original certified copies of all Professional Registrations of Staff.
- Signed and stamped banking/financial documentation

Only bidders who are competent and who have achieved the minimum functionality threshold of 70 points or higher will be evaluated on 90/10 (Price / Specific Goals) points based on the Preferential Procurement Regulations of 2022.

Phase 3: Preferential Point System

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:

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—

The 90/10 Preferential Point System will be applied, where 90 points will be allocated for price and 10 points for specific goals. The 90/10 system will be used since the estimated value for this project is above the R50 000 000 (all applicable taxes included).

(a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system)	Number of points claimed (90/10 system) (To be completed by the tenderer)
Women Ownership	3	
Youth Ownership	3	
People with Disabilities Ownership	2	
Black Male Ownership	2	
Total points for Price and SPECIFIC GOALS	**100**	

Source Documents to be submitted with the Tender:

- CIPC Document (Company Registration Document will be required for verification (CIPC DOC))
- Woman (Originally Certified ID Document)
- Youth (Originally Certified ID Document)
- People with Disability (Letter from the Dr. Confirming the Disability)
- Black Ownership (Originally Certified ID Document)

A compulsory site briefing / clarification meeting will be held on **19 September 2023 at 10h00** at the **Ikaneng High School.** The GPS coordinates **Latitude S 25 9' 18.72 and Longitude E 27 58' 18.54**

Note: Bidders are requested and encouraged to arrive early before the commencement of the briefing session. No late arrivals will be allowed in the briefing meeting.

The IDT may conduct a risk assessment on recommended bidder/s. Bidders are requested to price each line item of the Bills of Quantities (BOQ) in black ink. Should the bidder/s be deemed too risky to complete the project based on the IDT's risk assessment report, they will be subjected for further clarification.

Tender Documents may be downloaded from the IDT's website following the link **http://www.idt.org.za/business-opportunities/current-tenders/** as well as on the e-tenders portal, **www.etenders.gov.za.** Tenders must only be submitted on the tender documentation that is downloaded from the stipulated websites. The retyping of the tender document is not permitted:

All SCM and Technical enquiries relating to this bid must be directed in writing to noxolod@idt.org.za and andrewn@idt.org.za during office hours (08h30 – 17h00) weekdays.

Enquiries will be accepted until the 02 October 2023 at 17h00. No Verbal or telephonic queries will be attended to. Any attempt to verbally contact the IDT's Agent or IDT's employee to influence outcome of this tender will lead to disqualification.

On submission of Tender documents, the bidder must submit a signed original bid document in hard copy.

Requirements for sealing, addressing, delivery, opening and assessment of bids are stated in the Tender Data. (Refer to Section T1.2)

The bid closing date is **11 October 2023 at 12h00** and bids shall be submitted in the tender box at IDT's North- West Regional Office;

4071 Joules Street
Industrial Site
Mahikeng
2735

Telegraphic, telephonic, telex, facsimile, e-mail and late bids **WILL NOT** be accepted.

The Independent Development Trust does not bind itself to accept the lowest or any particular bid.

T1.2 BID DATA

INDEPENDENT DEVELOPMENT TRUST

APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.

T1.2 Bid Data

The conditions of the tender are the Standard Conditions of Tender as contained in Annex F of the 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 additional conditions of bid are:

Clause number	BID DATA FOR APPOINTMENT OF THE UPGRADES AND ADDTIONS TO IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009
F.1.1	The employer is the **Independent Development Trust on behalf of the Department: Education, North West Province.**
F.1.2	The bid documents issued by the employer comprises: **THE BID** **Part T1: Bidding procedures** T1.1 Bid notice and invitation to bid T1.2 Bid 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 Contract Skills Development Goal (CSDG) C1.4 Form of Guarantee C1.5 Adjudicator's agreement C1.6 Agreement in terms of Occupational Health and Safety C1.7 Waiver of Lien **Part C2: Pricing data** C2.1 Pricing instructions C2.2 Bills of quantities **Part C3: Scope of work** C3 Scope of work

	Part C4: Site Information C4 Site Information This tender applies to both the (a) Skills Development Standard and the (b) Indirect Targeting Standard. Although in the case of these two standards there are no returnable documents, tenderers are sensitized that the proforma documents as listed below, shall be completed by the successful contractor after award of the contract within the stipulated period. (The proforma documents are provided in the tender data for information purposes only). Form A 1 List of recognized Skills Development Agencies, Form A 2 Baseline Training Plan, Form A 3 Project Interim Report, Form A 4 Supervisor Agreement, Form A 5 Project Completion Report. (Skills Development Standards) Project Interim Report, Project Completion Report and Declaration. (Indirect Targeting Standards) **Addendum to the Contract** **Annexures** **Annexure A: Architectural Drawings** **Annexure B: Electrical Specifications & Drawings** **Annexure C: Mechanical Specifications & Drawings** **Annexure D: Civil and Structural Drawings**
F.1.4	The employer's agent is: **Pro-serve Consulting.** **Mr. Y Jayakody** 37 via Salara Cres, Irene Corporate Corner Office Park, Cnr Nellmapius & Ryneveld Road, Irene, Pretoria, South Africa Tel: (012) 661 3435 E- mail: yjayakody@proservegroup.co.za
F.2.1 F.2.1.1 F.2.1.1.1	**Eligibility** Submit a tender offer only if the Tenderer satisfies the criteria stated hereunder and if the Tenderer, or any of his principals, is not under any restriction to do business with the employer (IDT) or the North West Department of Education Only those bidders who satisfy the following eligibility criteria are eligible to submit tenders: **Phase 1: Mandatory Requirements** Only bidders, who meet the following requirements will be eligible for further evaluation. 1. Letter of Authority for signatory and / or Board / company resolution (for companies that has more than one Directors) 2. the bidder must provide proof of valid CIDB registration or CIDB number– **Grade 7GB or higher** (JV's to submit consolidated CIDB Grading, which equates to the required grading) 3. the bidder must provide a valid COIDA or FEMA certificate. (If JV, all partners must submit COIDA or FEM Certificates) Sole Proprietor's without employees are expected to submit from the Department of Labor a Tender Letter for a Sole Proprietor). 4. Attendance to the compulsory site briefing meeting - Briefing session attendance register must be signed at Briefing Meeting 5. The bidder must duly complete and sign **in full**: o SBD 1: Invitation to bid, o SBD 4: Bidder's disclosure and o SBD 6.1 Preference points claim form in terms of PPPFA, Procurement Regulations 2022 6. The bidder must complete Form of Offer, fully signed and witnessed in the tender document **in full**

	7. Joint Venture (JV) agreement, **if applicable**, JV agreement must be signed by all parties of the JV 8. Acknowledgement of Addenda to Tender Documents (if applicable) 9. The bidder must be registered on Central Supplier Database (CSD) and provide MAAA Number to verify registration) **Note:** (i) Failure to submit any of the above documents / requirements shall result in disqualification of the bid. (ii) If any of the Directors are in the Employment of the State shall result in disqualification of the bid. (iii) If the bidder is listed on National Treasury List of Restricted Suppliers shall result in disqualification of the bid. (iv) If any of its Directors are Listed on the Register of Defaulters shall result in disqualification of the bid.
F.2.1.1.2	CIDB Grading In order to be considered for an appointment in terms of this bid, the bidder must be registered with the CIDB, in a contractor grading designation in accordance with the sum tendered for a **Grade 7GB** class of construction work. Joint ventures are eligible and preferred with particular reference to local participation and as such submit tenders provided that: 1. every member of the joint venture is registered with the CIDB; 2. the lead partner has a contractor grading designation in the **Grade 7GB** or Higher class of construction work; and 3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to **7GB** contractor grading designation determined in accordance with the sum tendered for a **(GB) General Building** class of construction work
F.2.1.1.3	Key Personnel In order to be considered for an appointment in terms of this bid, the bidder must have the following key personnel in its permanent employment at the close of the bid. Alternatively, a signed undertaking from an organisation having the required personnel, stating that they will undertake the necessary work on behalf ofthe bidder in terms of a sub-consultant agreement, will be acceptable. Such undertaking must be attached to the "Key Personnel" schedule, Part T2.2: Returnable Schedules. Individuals must be identified for each of the key personnel listed on the "Key Personnel" schedule, PartT2.2: Returnable Schedules. Where the key personnel are no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 5 working days replace the key personnel listed on the "Key Personnel" schedule, Part T2.2: Returnable Schedules with a person with equivalent competencies and subject to approval by the employer.
F.2.6	**Acknowledge addenda** Acknowledge receipt of addenda to the bid documents, which the employer may issue, and if necessary, apply for an extension to the closing time. If the Addenda has financial implications, failure to acknowledge the addenda may eliminate your bid form evaluation. This is due to incomparability of offers with the rest of the bidders

Clause number	BID DATA FOR APPOINTMENT OF A CONTRACTOR FOR THE UGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009
F.2.7	**Clarification Meeting** A compulsory site briefing / clarification meeting will be held on **19 September 2023 at 10h00 at Ikaneng High School. The GPS coordinates are latitude S 25 9' 18.72 and longitude E 27 58' 18.54** Bidders shall sign the attendance register in the name of the bidding entity. Addenda if any will be issued to bidders appearing on the attendance register. **Note:** Bidders are advised to allow enough travelling time to the briefing meeting.
F.2.8	**Seek clarification** Bidders can request clarification of the bid documents, if necessary, by notifying the employer in writing to NWTenders@idt.org.za during office hours (08h30 – 17h00) weekdays at least 5 (five) working days before the closing time and date stated in F.2.15.
F2.9	**Insurances** Refer to contract data for insurance requirements. (Refer to Section C1.2)
F.2.11	**Alterations to documents** Do not make any alterations or additions to the bid documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the bidder. All signatories to the bid offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.
F.2.12	**Alternative Bid Offers** No alternative tender offers will be considered.
F.2.13	**Submitting a Bid Offer**
F.2.13.4	The bidder will sign the original of the bid offer.
F2.13.5	The bidder must submit tender offer in a sealed envelope. (Clearly marked **APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009** On submission of Tender documents, the bidder must submit a signed original bid document in hard copy and one softcopy of the bid document using USB-memory stick / Disc (read only). The bid document softcopy on the USB-memory stick should be indexed the same way as the original bid hard copy document, which can be returned back to the bidder after the evaluation process is completed.
F.2.13.6	Two-envelope system – not applicable
F.2.13.7	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: Employer's address: **North-West Regional Office** **4071 Joules Street** **Industrial Site** **Mahikeng** **2735**
F.2.13.9	Identification details: **Tender No: DOE14NWER009** **Description: APPOINTMENT OF A CONTRACTOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE .** Tender offers submitted by facsimile, e-mail or reproduced will be rejected by the employer. Tender documents must be submitted in an original format as issued by the employer.

Clause number	BID DATA FOR APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009
F.2.15 F.2.15.1	**Closing Time of Tender** The closing time for submission of tender offers is by no later than **11 October 2023 at 12h00.** **Location of tender box:** **North West Regional Office** **4071 Joules Street** **Industrial Site** **Mahikeng** **2735** Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
F.2.16 F.2.16.1	**Tender Offer Validity** The bidder is required to hold the bid offer valid for a period of **90 calendar days** *(from the bid closing date)*
F.2.19	**Inspections, Tests and Analysis** Access shall be provided for inspections, tests and analysis as may be required by the employer.
F.2.23	**Certificates** The bidder is required to submit with his tender a Contractor Registration number issued by the Construction Industry Development Board (CIDB). Where a bidder bids through joint venture formation, such bidder should include a joint venture agreement duly signed by each partner of such joint venture and an original consolidated B-BBEE certificate.
F3.5	Two-envelope system – **not applicable**
F.3.1	**Evaluation of Tender Offers** The procedure for the evaluation of a responsive tender will be in terms of the Preferential Procurement Regulations 2022 on a 80/20 or 90/10 preference point system.
F.3.11.3	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: 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— (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Clause number	BID DATA FOR APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009
F.3.11.8	**Scoring Preference** **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 preference point system is applicable, corresponding points must also be indicated as such.* *Note to tenderers: The tenderer must indicate how they claim points for each preference point system.***)**

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)
Women Ownership	3	
Youth Ownership	3	
People with Disabilities Ownership	2	
Black Male Ownership	2	

Source Documents to be submitted with the Bid or RFQ

*CIPC Document (Company Registration Document will be required for verification (CIPC DOC))

*Woman (Originally Certified ID Document)

*Youth (Originally Certified ID Document)

*People with Disability (Letter from the Dr. Confirming the Disability) *Black *Ownership (Originally Certified ID Document)

F.3.11.9 The quality criteria and maximum score in respect of each of the criteria are as follows:

Criteria	Points Allocation
A. Relevant Previous Experience on completed projects of a similar nature and value in the last ten (10) years	35 points
B. Signed and stamped client references on the same projects listed above (both Client & Client Representative).OR Signed and Contactable reference letters from previous clients.	10 points
C. Qualifications, Skills and Experience of project key resources	35 points
D. Financial Viability	20 points
Total	**100 points**
NB: Minimum qualifying functionality threshold is **70 points out 100**	

A. RELEVANT PREVIOUS EXPERIENCE ON COMPLETED PROJECTS OF A SIMILAR NATURE AND VALUE IN THE LAST TEN (10) YEARS (35 POINTS):

Points allocated for proven track record based on previous projects executed to completion by the bidder in consideration of similar kind and complexity. The similarity refers to the construction of building projects in the past 10 years. Buildings (No points will be allocated for other nature and value of works like Civil Engineering projects, Water projects, Transport Projects, Traffic Engineering Projects and all Electrical & Mechanical Engineering projects)

The scoring on this item will be carried out as follows:

i. The bidder shall submit signed appointment letter(s) in the relevant official Client letterhead clearly showing the project value / amount
ii. The bidder shall submit signed proof of project completion (JBCC or other Completion Certificate or letter from the client (client letter head) confirming completion of such a project).
iii. iii. For subcontracted work submit the appointment letter and completion certificate as stated in (i) & (ii) together with the appointment letter and completion certificate for the main contractor

NOTE: Failure to submit any of the above requirements will result in no points being awarded to the bidder.

Evaluation points will be awarded in terms of the following table below:

	Similar completed projects (as per CIDB level 7GB Tender Value Limit between R 60 000 000 to R 20 000 000)	**Similar completed projects (as per CIDB level 6GB – Tender Value Limit between R 20 000 000 and R 10 000 000)**	**Similar Completed projects (as per CIDB level 5GB – Tender Value Limit between R 10 000 000 and R 6 000 000)**	**Non-Submission, Irrelevant Evidence, Incomplete Evidence**
Project A	7	5	3	0
Project B	7	5	3	0
Project C	7	5	3	0
Project D	7	5	3	0
Project E	7	5	3	0
Points	**35**	**25**	**15**	**0**

The scoring on this item will be carried out as follows:

iv. The bidder shall submit signed appointment letter(s) in the relevant official Client letterhead clearly showing the project value / amount
v. The bidder shall submit signed proof of project completion

NOTE: Failure to submit any of the above requirements will result in no points being awarded to the bidder.

Points allocated for client reference **(As per returnable schedule T 2.2.4)** based on previous completed projects as above executed by the bidder in consideration:

Points will be allocated based on:

vi. Receipt of signed and stamped client references in the forms supplied in this document
vii. Favorable stamped client reference letter

NOTE: Failure to submit any of the above requirements will results in no points being awarded to the bidder.

Evaluation points will be awarded in terms of the following table:

Projects	Not Acceptable	Favorable (Good) client reference
Project A	0	2
Project B	0	2
Project C	0	2
Project D	0	2
Project E	0	2
Points	**0**	**10**

B. QUALIFICATIONS, SKILLS AND EXPERIENCE OF PROJECT KEY RECOURCES (35 POINTS):

Points allocated for required

i. competencies,
ii. qualifications (i.e degree or diploma)
iii. submission of CV's
iv. submission of relevant certified (not older than 6 months) evidence of qualifications and certificates of allocated Required Key Project Resources.
v. Professional registration within the built environment.

NOTE: Points allocation with submission of all required documentation and will be rounded off to the nearest lowest number

Evaluation points will be awarded in terms of the following table A (28 points):

Category	Professional Registration (5 points)	Qualification within the Built Environment (7 points)			Years of experience within the BuiltEnvironment (16 points)			
	(Related to Building works, SACPCMP, SACQSP, SACAP) excl. ECSA	Degree or higher	Diploma	National Certificate or similar	10 or above years	5 - 9 years	1 - 4 years	< 1 year
Project / Contract Manager	5	5	4	3	7	5	3	1
Site Agent	Not required	1	1	1	5	4	3	1
Foreman	Not required	1	1	1	4	4	3	1
Total Points	**5**	**7**	**6**	**5**	**16**	**13**	**9**	**3**

Evaluation points will be awarded in terms of the following table B (7 points):

Category	Description	Points
Health and Safety Resource	Professional Registration with SACPCMP (Mandatory)	7
	No submission	0

Where the Health and Safety officer allocated to this project is no longer accessible to undertake the necessary work after the award of the tender, the contractor shall within a period of 5 working days replace the Construction Health and Safety Officer with a person with equivalent competencies subject to approval by the employer.

E. FINANCIAL VIABILITY (20 POINTS):

Points are allocated to contractors who provide at least one of the following verifiable documents:

Description	Points
Signed and stamped bank rating Code **''A'' of R2 Million (whichever greater will be considered) over the period of 8 Months** with the bank stamp not older than 12 months; or Recent audited annual financial statements Not older than **12 months with Cash & Cash Equivalent of R2 Million** and above signed by auditors and company representative; or Signed and stamped Credit facility of **2 Million** from an accredited financial institution not older than 12 months or Signed and stamped Bank Overdraft of **2 Million** not older than 12 months	**20**
Signed and stamped bank rating Code **''B'' of R1 Million (whichever greater will be considered) over the period of 12 Months** with the bank stamp not older than 12 months; or Recent audited annual financial statements Not older than **12 months with Cash & Cash Equivalent of R1 Million** and above signed by auditors and company representative; or Signed and stamped Credit facility of **1 Million** from an accredited financial institution not older than 12 months or Signed and stamped Bank Overdraft of **1 Million** not older than 12 months	**10**
Non-Submission: thresholds lower than above	**0**

NOTE: 20 points will be scored if at least one of the required documents listed above . Failure to submit will result in zero points for these criteria.

Quality Formula	WQ=W2 x So/Ms		Formula used to calculate Functionality points	
	W2 =Total evaluation points for functionality as per Scorecard			
	So = Functionality points allocated to the bidder under consideration			
	Ms =Maximum possible score for functionality in respect of a submission			
Minimum points to be scored for Functionality is 70%				
FINANCIAL OFFER/PRICE	**80/90**	Formula 2 Option 1,A=(1- {p-pm/pm})	Formula used to calculate Financial Offer/Price points	
		pm =The comparative Price offer of the mean/average qualifying tenderer		
		p =The comparative offer of the tender under consideration		
	80/90			

Notes:
1. Bidders are required to score minimum points of 70% for Functionality as stated in the tender data
2. Bidders who fail to meet the required minimum number of points for functionality as stated in the tender data shall be disqualified
3. Bidders who fail to disclose mandatory required information as per the returnable schedules shall be disqualified

4. Bidders to submit the following for means of verification:
a) Project list of similar completed projects
b) Performance and quality reports from clients / consultants
c) Certified certificates of qualification of key staff and CV's including references
d) Traceable References for projects completed
e) Traceable references for suppliers

Clause number	BID DATA FOR APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009
F.3.13	**Acceptance of Bid Offers**
F.3.13.1	Bid offers will only be accepted if: a) the bidder has submitted an original valid Tax Clearance Certificate issued by the South African Revenue Services; b) the bidder is registered with the Construction Industry Development Board in an appropriate contractor grading designation; c) the bidder or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; d) the bidder has not: i) abused the Employer's Supply Chain Management System; or ii) failed to perform on any previous contract and has been given a written notice to this effect; e) the bidder has completed the Declaration of Interest and there are no conflicts of interest which may impact on the bidder's ability to perform the contract in the best interests of the employer or potentially compromise the bid process and persons in the employ of the state are not permitted to submit tenders; f) if there are no conflicts of interest which may impact on the bidder's ability to perform the contract in the best interests of the employer or potentially compromise the bid process . g) the bidder has submitted the CIPRO documentation and certified copies of ID's for all directors; h) the bidder completed, signed and witnessed form of offer; i) the bidder is in good standing with Compensation for Occupational Injuries and Disease Act (COIDA); j) the bidder has submitted a fully priced Bill of Quantities; k) The bidder attended a compulsory briefing session and completed attendance register or certificate of attendance is signed by the representative of the Employer. l) The bidder is required to submit with his bid a Certificate of Contractor Registration issued by the Construction Industry Development Board and proof of Registration on the Central Supplier Database (CSD) with a Compliant Tax Status; copy of the tax clearance with Tax Compliance Pin issued by the South African Revenue Services. m) The bidder has a B-BBEE Level of 1-3 n) The bidder and all its directors are South African Citizens **(For National Key Point Projects).**

F.3.14	**Notice to Unsuccessful Bidders** Should bidders not hear from the IDT within ninety (90) calendar days of closure, they should consider their submission unsuccessful. Award will be posted on e-tender and CIDB website within 21 days of award. No written notification directed to each bidder will be issued by the Employer to unsuccessful bidders.
F.3.18	**Provide Copies of the Contract** The number of paper copies of the signed contract to be provided by the employer is one.
	The additional conditions of bid are: 1 The employer is not obliged to accept the lowest or any bid.

ANNEXURE F: STANDARD CONDITIONS OF BID

(As contained in ADDENDUM F of the CIDB Standard for Uniformity in Construction Procurement)

Standard Conditions of Tender

F.1 General

F.1.1 Actions

F.1.1.1 The employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in F.2 and F.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

F.1.1.2 The employer and the tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict, and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note: 1) A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.

2) Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.

F.1.1.3 The employer shall not seek and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

F.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

F.1.3 Interpretation

F.1.3.1 The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

F.1.3.2 These conditions of tender, the tender data and tender schedules which are only required for tender evaluation purposes, shall not form part of any contract arising from the invitation to tender.

F.1.3.3 For the purposes of these conditions for the calling for expressions of interest, the following definitions apply:

a) **Conflict of interest** means any situation in which:
   i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfil his or her duties impartially;
   ii) an individual or organisation is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
   iii) Incompatibility or contradictory interests exist between an employee and the organisation which employs that employee.

b) **Comparative offer** means the tenderer's financial offer after all tendered parameters that will affect the value of the financial offer have been taken into consideration in order to enable comparisons to be made between offers on a comparative basis

c) **Corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process; and

d) **Fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels

F.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent only *(i.e post contract award and signing),* and in a form that can be read, copied and recorded. Writing shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the tender data.

F.1.5 Cancellation and Re-Invitation of Tenders

F.1.5.1 An employer may, prior to the award of the tender, cancel a tender if-
a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
b) funds are no longer available to cover the total envisaged expenditure; or
c) no acceptable tenders are received.
d) there is a material irregularity in the tender process.

F.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised.

F.1.5.3 An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

F.1.6 Procurement procedures

F.1.6.1 General

Unless otherwise stated in the tender data, a contract will, subject to F.3.13, be concluded with the tenderer who in terms of F.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

F.1.6.2 Competitive negotiation procedure

F.1.6.2.1 Where the tender data require that the competitive negotiation procedure is to be followed, tenderers shall submit tender offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of F.3.4, the employer shall announce only the names of the tenderers who make a submission. The requirements of F.3.8 relating to the material deviations or qualifications which affect the competitive position of tenderers shall not apply.

F.1.6.2.2 All responsive tenderers, or not less than three responsive tenderers that are highest ranked in terms of the evaluation method and evaluation criteria stated in the tender data, shall be invited in each round to enter into competitive negotiations, based on the principle of equal treatment and keeping confidential the proposed solutions and associated information. Notwithstanding the provisions of F.2.17, the employer may request that tenders be clarified, specified and fine-tuned in order to improve a tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.

F.1.6.2.3 At the conclusion of each round of negotiations, tenderers shall be invited by the employer to make a fresh tender offer, based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.

F.1.6.2.4 The contract shall be awarded in accordance with the provisions of F.3.11 and F.3.13 after tenderers have been requested to submit their best and final offer.

F.1.6.3 Proposal procedure using the two stage-system (Not Applicable for this Bid)

F.1.6.3.1 Option 1

Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The employer shall evaluate each responsive submission in terms of the method of evaluation stated in the tender data, and in the second stage negotiate a contract with the tenderer scoring the highest number of evaluation points and award the contract in terms of these conditions of tender.

F.1.6.3.2 Option 2

F.1.6.3.2.1 Tenderers shall submit in the first stage only technical proposals. The employer shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.

F.1.6.3.2.2 The employer shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the tender data, and award the contract in terms of these conditions of tender.

F.2 Tenderer's obligations

F.2.1 Eligibility

F.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer and/or the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;

F.2.1.2 Notify the employer of any proposed material change in the capabilities or formation of the bidding entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

F.2.2 Cost of tending

F.2.2.1

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.

F.2.2.2

The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.

F.2.3 Check documents

Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.

F.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.

F.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

F.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

F.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.

F.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five working days before the closing time stated in the tender data The tenderer is encouraged to go through all contents of the tender document as seek clarification where applicable. Any assumptions made by the bidder without prior confirmation by the Employer and his agent shall be at the tenderers own risk.

F.2.9 Insurance

Be aware that the extent of insurance to be provided by the employer (if any) may not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.

F.2.10 Pricing the tender offer

F.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the tender data.

F2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

F.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.

F.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

F.2.11 Alterations to documents

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. Erasures and the use of masking fluid are prohibited.

F.2.12 Alternative tender offers

F.2.12.1 Unless otherwise stated in the tender data, submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

F.2.12.2 Accept that an alternative tender offer may be based only on the criteria stated in the tender data or criteria otherwise acceptable to the employer.

F.2.12.3 An alternative tender offer must only be considered if the main tender offer is the winning

F.2.13 Submitting a bid offer

F.2.13.1 Submit one bid offer only, either as a single bidding entity or as a member in a joint venture to provide the whole of the works, services or supply identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.

F.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing in black ink.

F.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

F.2.13.4 Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

F.2.13.5 Seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and

identification details stated in the tender data, as well as the tenderer's name and contact address.

F.2.13.6 Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked “financial proposal” and place the remaining returnable documents in an envelope marked “technical proposal”. Each envelope shall state on the outside

the employer’s address and identification details stated in the tender data, as well as the tenderer's name and contact address.

F.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.

F.2.13.8 Accept that the employer shall not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

F.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

F.2.14 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the employer as non-responsive and as such be disqualified.

Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proofof delivery.

F.2.15 Closing time

F.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

F.2.15.2 Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline

F.2.16 Tender offer validity

F.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

F.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.

F.2.16.3 Accept 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.

F.2.16.4 Where a tender submission is to be substituted, submit a substitute tender in accordance with the requirements of F.2.13 with the packages clearly marked as “SUBSTITUTE”.

F.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: Sub-clause F.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.

F.2.18 Provide other material

F.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer’s commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer’s request, the employer may regard the tender

offer as non-responsive.

F.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.

F.2.19 Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

F.2.20 Submit securities, bonds, policies, etc.

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

F.2.21 Check final draft

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

F.2.22 Return of other tender documents

If so instructed by the employer, return all retained tender documents within 28 days after the expiry of the validity period stated in the tender data.

F.2.23 Certificates

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

F.3 The employer's undertakings

F.3.1 Respond to requests from the tenderer

F.3.1.1 Unless otherwise stated in the tender Data, respond to a request for clarification received up to five working days before the tender closing time stated in the Tender Data and notify all tenderers who drewprocurement documents.

F.3.1.2 Consider any request to make a material change in the capabilities or formation of the bidding entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence:

a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;
b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

F.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who drew documents.

F.3.3 Return late tender offers

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the tenderer concerned.

F.3.4 Opening of tender submissions

F.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions by the IDT's SCM Unit. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened publicly.

F.3.4.2 Announce at the meeting held immediately after the opening of tender submissions the name of each tenderer whose tender offer is opened and, where applicable, the total of his prices for the main tender offer only.

F.3.4.3 Make available the record outlined in F.3.4.2 on the IDT's website.

F.3.5 Two-envelope system (Not Applicable for this bid)

F.3.5.1 Where stated in the tender data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data and announce the name of each tenderer whose technical proposal is opened.

F.3.5.2 Evaluate the quality of the technical proposals offered by tenderers, then advise tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who score in the quality evaluation more than the minimum number of points for quality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any preferences claimed. Return unopened financial proposals to tenderers whose technical proposals failed to achieve the minimum number of points for quality.

F.3.6 Non-disclosure

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

F.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

F.3.8 Test for responsiveness

F.3.8.1 Determine, after opening and before detailed evaluation, whether each tender offer properly received:

a) complies with the requirements of these Conditions of Tender,
b) has been properly and fully completed and signed, and
c) is responsive to the other requirements of the tender documents.

F.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer*'s* opinion, would:

a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work*,*
b) significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or
c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

F.3.9 Arithmetical errors, omissions and discrepancies

F.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

F.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with F.3.11 for:

a) the gross misplacement of the decimal point in any unit rate;
b) omissions made in completing the pricing schedule or bills of quantities; or

c) arithmetic errors in:
   i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
   ii) the summation of the prices.

F.3.9.3 Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.

F.3.9.4 .

Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows:
a) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line-item total as quoted shall govern, and the unit rate shall be corrected.
b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern, and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

F.3.10 Clarification of a tender offer

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

F.3.11 Evaluation of tender offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the Tender Data associated with a specific project.
Conditions of tender are by definition the document that establishes a tenderer's obligations in submitting a tender and the employer's undertakings in soliciting and evaluating tender offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require employers to conduct the process of offer and acceptance in terms of a set of standard procedure.

The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:

Requirement	**Qualitative interpretation of goal**
Fair	The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.
Equitable	Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.
Transparent	The only grounds for not awarding a contract to a tenderer who satisfies all requirements are restrictions from doing business with the employer, lack of capability or capacity, legal impediments and conflicts of interest.
Competitive	The system provides for appropriate levels of competition to ensure cost effective and best value outcomes.

The activities associated with evaluating tender offers are as follows:
a) Open and record tender offers received
b) Determine whether or not tender offers are complete
c) Determine whether or not tender offers are responsive
d) Evaluate tender offers
e) Determine if there are any grounds for disqualification
f) Determine acceptability of preferred tenderer
g) Prepare a tender evaluation report
h) Confirm the recommendation contained in the tender evaluation report

F3.11.1 General

The employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive tender offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data

F.3.12 Insurance provided by the employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and / or certificates of insurance which the conditions of contract identified in the contract data, require the employer to provide.

F.3.13 Acceptance of tender offer

Accept the tender offer, if in the opinion of the employer, it does not present any unacceptable commercial risk and only if the tenderer:

a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement,
b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract,
c) has the legal capacity to enter into the contract,
d) is not insolvent, in receivership, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing,
e) complies with the legal requirements, if any, stated in the tender data, and
f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

F.3.14 Prepare contract documents

F.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

a) addenda issued during the tender period,
b) inclusion of some of the returnable documents, and
c) other revisions agreed between the employer and the successful tenderer.

F.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

F.3.15 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

F.3.16 Registration of the award

An employer must, within twenty-one (21) working days from the date on which a contractor's offer to perform a construction works contract is accepted in writing by the employer, register and publish the award on the cidb Register of Projects.

F.3.17 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

F.3.18 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

SPECIAL CONDITIONS OF TENDER

F.4 Special Conditions of Tender

F.4.1 General

The Special Conditions of Principal Contract Tender generally contain clauses that are either deemed to be additions, elaborations or variations to the Standard Conditions of Principal Contract Tender. Accordingly, the Special Conditions of Principal Contract Tender be read in conjunction with the Standard Conditions of Principal Contract Tender, and it shall be deemed that the amended meanings and intentions of the clauses shall apply, if applicable.

F.4.2 Tender Offers

Tenderers are advised that it is compulsory to submit offers for all Tender Options as set - out below and where indicated by a tick.

Subject To Escalation Price Offer | √

Tenderers are advised that this offer shall **be subject to Contract Price Adjustment Formulae based on the Haylett Formulae.** The Contract Price Adjustment will only be applicable/applied to **works** executed after 12 months of the construction duration.

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Fixed Price Offer | **X**

Tenderers are advised that all rates, amounts, overhead and profit percentage mark-ups and amounts, profit and attendance amounts, prices, etc. submitted, shall **not be subject to any form of Contract Price Adjustment Formulae e.g. Haylett Formulae.** In this regard, it is deemed that the Tenderer has allowed for any potential increases (except any variation in the rate of Value Added Tax) in cost of labour, materials, transport, etc. in the Tender amounts, rates, etc. submitted.

This will only be applicable to the measured work priced by the main contractor and will not apply to the provisional sums or budgetary allowances.

Key: √ **- Tender Option Applicable**
X - Not Required for This Tender

F.4.3 Market Related Wage Rates

When pricing this document, respondents are to allow for wages, which are not less than the greater of:

The statutory wage rates in any labour category; and,
The SAFCEC recommended minimum rates applicable at any time during the duration of the contract.

In this regard, a Tenderer may be called upon to demonstrate the wage rates utilised in calculating its Tender price.

F.4.4 Letter of Intent

Tenderers are required to furnish with their tender documents, a letter of intent from a Bank or approved Insurance Company, to indicate that in the event of their tender being successful that a surety / guarantee as required will be provided when asked to do so.

F.4.5 Information to be Submitted by Tenderers

All Tenderers are instructed to acknowledge that the information to be submitted must be strictly in accordance with the requirements stipulated in 2.3. Therefore, separate brochures, information other than which is specified in 2.3 must not be incorporated in the submission documents. Failure to comply with this instruction may render the submission liable for disqualification.

If the spaces in the Tender Returnables are insufficient, the relevant particulars should be documented on a separate sheet (s) with proper reference to the specific information requested.

F.4.6 Interviews

All Tenderers are advised that they may be required to attend interviews and / or submit further information; including making their premises, plant, equipment and details of works in progress, available for inspection after the receipt of Tender submissions.

F.4.7 Detailed Construction Programme

The Principal Contract for the project Commencement and Completion dates and any other relevant dates for this contract are stated in the Preliminaries.

Time and quality are to be considered the essence of this Contract. Accordingly, it shall be deemed that the Project Programme detailing each activity and duration as well as a detailed Method Statement be submitted by the Tenderer as part of the Tender submission and shall be the basis of monitoring progress on the project.

The programme should be a detailed double-linked critical path programme preferably in CCS format in both hard copy and electronic format and take into consideration the following;

Dividing the programme into convenient construction zones both horizontally and vertically;
Linking all activities as 'open ended' or 'open start' activities are not acceptable;
Detailing all holidays, Christmas/New Year break, etc.;
Showing both the Date of Practical Completion and the Date of Works Completion given that the Employer will take Occupation of the facility once the Works Completion Certificate has been issued. Penalties will apply for Milestone, Practical and Works Completion dates not being achieved as detailed in the Preliminaries.

The programme must be a fully resourced "double linked" critical path programme clearly showing Start, Finish and any Interim completion dates as well as any Milestone dates for critical activities including;

- Dates for Practical Completion Inspections to be carried out;
- Date of Practical Completion
- Period required for attendance on and completion of the Completion List issued at Practical Completion
- Date of Works Completion ;

The successful tenderer's program is subject to review and mutual acceptance.

Any Queries / clarifications relative to the Programme can be directed to the Employer.

F.4.8 Detailed Cash-flow

Tenderers are advised that a fully detailed cash-flow based on the tenderers programme is required to be submitted together with their tender document. In this regard, tenderers are advised that the financial year start and end dates are 01 April to 31 March respectively and therefore tenderers are requested to keep sub-totals for each financial year during the duration of the construction programme.

Tenders are advised that the targeted annual maximum percentages per financial year end for the contract duration are as follows and are not to be exceeded:

FINANCIAL YEAR
01 APRIL 2023 TO 31 MARCH 2024
01 APRIL 2024 TO 31 MARCH 2025

F.4.9 Detailed Resourcing Schedule

Tenderers are advised that a detailed resourcing schedule including skilled, unskilled and sub-contractor's staffing histograms is required to be submitted together with their tender document.

F.4.10 Proposed Domestic Sub-Contracts

The Tenderer shall submit in writing, when requested, a list of proposed domestic sub-contractors that is intended to be utilised on the project, should its offer be accepted.
Proposed domestic sub-contractors shall take part in the work set aside for 30% Local Participation if possible i

F.4.11 Adjudication and Independent Development Trust's Rights

F.4.11.1 Independent Development Trust reserves the right to visit any Tenderer (without prior notice), to interview any shareholder of the Tenderer and to evaluate such Tenderer in accordance with the criteria as set out in the paragraph 1.11.3 below;

F.4.11.2 All information obtained at such evaluation shall at all times be treated as confidential by Independent Development Trust;

F.4.11.3 Adjudication of a Tender shall be in the discretion of Independent Development Trust and may take into account the following:

(i) Tender Price;
(ii) Ability to perform, which may take into account previous experience in the relevant industry;
(iii) Suitability of employees and suitability of equipment and materials to be used;
(iv) Black dep Empowerment;
(v) Financial viability of the Tenderer;
(vi) Ownership of the Tenderer;
(vii) Compliance with all relevant laws; and
(viii) SCM policy and procedures.

F.4.12 Form of Contract

The JBCC Series 2000 Principal Building Agreement (Edition 6.2 Reprint May 2018) as amended in the IDT's SPECIAL CONDITIONS OF PRINCIPAL CONTRACT, shall be applicable to this contract.

F.4.13 Specialist Selected Sub-contract Procurement Process

Due to the nature of the project, the procurement process of the following envisaged selected sub-contracts will be done upon appointment of the Principal Building Contractor:

- Clearing of site
- Excavation of footings and pipe trenches
- Painting
- Brickwork

Upon the appointment of a Principal Contractor, the Principal Contractor is to subsequently appoint the **selected** sub-contractors as instructed by the Principal Agent and The Employer.

This is a material condition of appointment and should the Tenderer have any objection to this condition the tenderer is to raise this in their tender submission. The appointment of the selected sub-contractor will be done in consultation with the appointed contractor.

F.4.14 Damage to the Work

Care shall be taken not to cause any damage to any part of the existing or new work or any adjoining property, if applicable. The Contractor will be held responsible for damage caused to the works by his negligence and shall be liable for all costs incurred in making good any such damage to the satisfaction of the Principal Agent.

F.4.15 Communication, Media Releases, Etc.

The Contractor shall not in any way communicate with the press, or any representative of the written or electronic media, on a question affecting this contract unless prior approval in writing is received from the **Principal Agent** as authorised by the **Employer**.

All rights of publication of articles in the media, together with any advertising relating to, or in any way concerned with this project shall vest in the Employer.

The Contractor shall not, without the written consent of the Employer, cause any statement or advertisement to be printed, screened or aired by the media.

F.4.16 Copyright

No part of this document and any document forming part of the contract documents may be copied, photographed or repeated in any manner or by any process without the written consent of the **Principal Agent**. Copyright is reserved on all designs, specifications, patents and patentable designs, systems and processes contained in documents pertaining to this contract. The person, firm, body, supplier, contractor, sub-contractor and any other contracting party is to be responsible jointly and severally, in their personal and corporate capacities for any contravention of this requirement.

F.4.17 Workmanship and Quality Control

The onus to produce work that conforms in quality and accuracy of detail, to the requirements of the specifications, rests with the Contractor, and the Contractor shall, at his own expense, institute a quality control system and provide other technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the works at all times.

The cost of supervision and process control, including testing carried out by the Contractor shall be deemed to be included in the amount quoted for the works.

The Contractor's attention is drawn to the normal standards regarding the minimum frequency of testing required for materials. The Contractor shall, at his own discretion increase this frequency where necessary to ensure adequate control.

The Contractor shall remain solely responsible for the work as defined in this contract document, up to the end of the Defects Liability Period.

The Contractor needs to ensure that daily site diaries are kept on site at all times. These may be required for submission to the Employer as and when needed.

The end-user client and the IDT may from time to time inspect the quality / workmanship on site and make the necessary comments and/or requirements for correction.

F.4.18 Occupational Health and Safety Act

The Contractor shall comply with the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

F.4.19 Co-Operation of Contractor for Cost Control

It is deemed that the Contractor accepts the obligation of assisting the Professional Consultants in implementing proper cost control in ensuring that the final building cost does not exceed the budget.

F.4.20 Application for Payment

The Contractor shall submit the following information on a monthly basis to the Quantity Surveyor in order to assist with the processing of the Payment Certificate and the preparation of the empowerment report:

- A detailed breakdown of the work done. (The work breakdown must be referenced strictly in

accordance with the Contract Document or the detailed priced bills of quantities, as applicable.)

- A detailed breakdown of all Variation Order costs claimed (With specific reference to work done by the Nominated/Selected Subcontractor) in the certificate concerned, together with copies of the relevant Contract instructions.
- An empowerment report which shall contain an affidavit certifying that all information contained in the report as being true and correct and must be authenticated by the sub-contractor and a commissioner of oaths
- EPWP Labour Report showing total work opportunities created on site
- Tax Invoice: The contractor shall attach a tax invoice as prescribed in the Value Added Tax legislation to each payment certificate when presenting the certificate to the Employer for payment. Such tax invoices shall correctly reflect the prescribed information and the amounts shall match precisely the amounts included in the Payment Certificate. Should the contractor fail to comply with these requirements, the date of presentation of the certificate shall be deemed to be delayed at the contractor's default until such time as the requirements are met.

Should anyone or any combination of the above requirements not be complied with, the Principal Agent and/or Contractor reserves the right to exclude any amounts that may have been due for certification from the Payment Certificate concerned and/or delay the issue of Payment Certificates and/or, revise the contractual payment date, as applicable, until such time compliance is achieved.

F.4.21 Identification of Personnel

All permanent staff that are utilised on the project by the Contractor, Domestic and Selected Sub-contractors are at all times whilst on site, be clad with clothing that clearly identifies each staff member together with an identification document which includes, but not limited to the following:
A photograph of the staff member concerned;
The identification numbers of the staff member concerned; and,
The name of company concerned

In addition, to that stated above, the Contractor shall adhere to the premise's security rules and regulations.

No staff member will be permitted to execute the Works if this condition is not adhered to.

F.4.22 Intervention at Manufacture and / or Supplier and / or Contract Level

The Employer and its Agents reserve the right to discuss and liaise on any issue pertaining to this Contract with the Contractor's service providers i.e. manufacturers and / or suppliers and / or sub-contractors concerned. This right shall not create privity of contract between the Employer and / or its Agents and the said manufacturer and / or supplier and / or sub-contractors.

F.4.23 Cession of Materials Supplied to the Site

It shall be deemed that the Contractor and its service providers upon delivery of each batch of materials to site, has ceded the said materials to the Employer.

F.4.24 Alterations in the Quantity and Value of Work

The Employer and / or its Agents shall be permitted to either increase or decrease the quantity and value of work contracted for. In this regard, the Contractor including its service providers shall not be entitled to claim for any additional expense incurred, or for any change in the rates for work done and / or any materials and services supplied. It shall be deemed that all costs associated with this item are included in the Tender Price.

F.4.25 Change in the Scope of Work

The Contractor acknowledges that whilst drawings have been prepared for the Works, the scope of work and value of the Contract may be substantially altered and that no claims for loss and expense shall be due by the Employer for implementing any changes that may become necessary. It shall be deemed that the Tender Price includes for all costs that may arise due to compliance with this clause.

F.4.26 Treasures, Relics, Etc.

Any relics, treasure, articles of value or of potential historical or archaeological interest found on the site must be brought to the attention of the Principal Agent. All work at the specific area of the discovery shall stop for a reasonable time period until such time that the Principal Agent instructs continuation of the Works.

Any relics, treasure, articles of value or of potential historical or archaeological interest found on the site shall remain the property of the Employer and shall be handed over to the Principal Agent who shall be the sole arbitrator of what is an article of value.

F.4.27 Priced Bills of Quantities

The Tenderer shall submit a fully priced Bills of Quantities as well as a detailed breakdown and build-up of all items measured as lump sum items with the Tender Price. Lump sum items shall be measured in accordance with the Standard System of Measuring Building Work (Sixth Edition, including any subsequent amendments thereto), and shall form part of the Contract and shall be used for the purposes of preparing valuations, Payment Certificates, determining the value of Variation Orders, preparation of Final Accounts, etc.

Neither the Employer, not its Agents shall be liable for any cost incurred for the award and subsequent withdrawal of the award of the Tender in terms of this clause.

F.4.28 Prices and Net Measurements

Prices throughout these Bills of Quantities shall be deemed to include for all obligations arising out of the Contract and unless otherwise specified, be held to include for making, conveying and delivering, unloading, storing, unpacking, hoisting, setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works and return of packaging.

Prices for all items contained in these Bills of Quantities and any additional authorised variations, shall be deemed to exclude all amounts due in terms of the Value Added Taxation legislation. A provision for the addition of VAT shall be made on the Final Summary page of the Bills of Quantities and Final Statement of Accounts, as applicable.

F.4.29 Value Added Tax (V.A.T)

All prices and or rates tendered shall be deemed to be **exclusive** of Value Added Tax.

Value Added Tax shall be added as a lump sum where provided on the Final Summary page of the Bills of Quantities, and the Tender Price **inclusive** of Value Added Tax will be shown on the Form of Tender.

Value Added Tax shall be calculated at the National going rate at the time of submission of bids.

F.4.30 Site and Information

Tenderers must acquaint themselves with the conditions of the Site and generally obtain their own information on all matters affecting the submission of Tenders for the Works. Tenderers will be held responsible for any misunderstanding or incorrect information obtained, except information which may have been given in writing over the signature of the Principal Agent.

The contractor is expected to establish a construction camp, office and workshop facility, for the fulfilment of the contract. Site establishment facilities to be removed after the completion of the project.

The contractor must strictly use the working area provided by the Employer.

F.4.31 Noise

Tenderers must take note that the site is within the Insert project nameSchool Site. As such high noise level shall be restricted to times that will not disrupt the community. Tenderers are to ensure that they acquaint themselves with these conditions and adequately price for it accordingly as no additional time will be allowed for any delays that may be attributed to such.

The Contractor will be restricted from working evening shifts but may be allowed to work weekend shifts with prior 1 week's notice. Such shall be included in the contractor's pricing as no additional allowance for weekend shifts will be allowed for by the Employer, post tender award.

F.4.32 Water and Electricity

The contractor is expected to make means for the provision of water and electricity for construction purposes. The use of such services from the site shall be at the discretion and on agreement with the end user department.

F.4.33 Preliminaries Costs

The Tenderer must allow in his pricing, or where provided for in the Tender Document, for all preliminaries costs deemed necessary for the proper execution and completion of the Works, as no late claims whatsoever for additional costs in this respect will be considered.

F.4.34 Protection of Existing Work

The Tenderer shall allow for the protection of all existing work that is liable to be damaged during the execution of this Contract and work that is liable to be damaged once the Contractor completes its Section of the Works.

F.4.35 Mock-Up / Samples, etc.

Samples, mock-ups, etc. will be called for by the Principal Agent for approval and shall be provided at no extra cost as rates will be deemed to include for this.

F.4.36 Substitution of Materials

No substitution of the articles or materials specified in this Tender Document will be permitted unless the authority of the Principal Agent has been obtained, in writing, before Tender closing. The Tenderer will otherwise be required to provide / or use the specified articles or materials. Approval of any request for the substitution of any article or materials will only be considered when the Principal Agent is satisfied that if the substitution is approved, there is sufficient time remaining before Tender closing to advise all other Tenderers accordingly.

F.4.37 Restriction on Site Access

Tenderers are to price any items related to this under Clause 3.1 in the Preliminaries bill. The Principal Agent and /or the Compulsory Tender Briefing will provide further details of the restrictions, if any that will affect the Contractor.

F.4.38 Security

The Tenderers are to note that upon award of the contract, they are to furnish the Employer (within 21 days of award), the following:

Construction Guarantee equal in value to **10%** of the Contract Sum valid for the duration of the contract.

F.4.39 Safety Requirements

The Contractor is referred to the safety requirements associated with the project. It is of utmost importance that the successful contracting entity abides by the.

The Contractor will comply with all Health and Safety Regulations and the Health and Safety Plan.

Management of safety on site shall remain the sole responsibility of the Contractor.

Disposal of all rubble material and asbestos roof sheetings / materials, to suitable legal dump sites, shall be carried out on a weekly basis. All costs for this exercise shall be included in the bid price (for the duration of the project plus a further 6 months in the event of project overrunning its duration)

The safety on site, agreement and general information forms included in the Tender Returnables must be agreed and fully completed and submitted with the Tender Submission.

F.4.40 Budgetary Allowances / Provisional Sums

Where applicable, these amounts have been included in the Tender Price where the work has not been defined at the date of Tender. It is intended that once the scope is defined, Tenders will be invited with a view to these Works being awarded as Nominated / Selected Subcontract works.

- The Specialist Consultant responsible for the specific work package will prepare documentation which is to include drawings, specification and schedule of quantities that define the scope of works all in accordance with the Nominated / Selected Subcontract Agreement.
- The Quantity Surveyor will prepare the necessary Tender documents.
- The Principal Agent will arrange for inviting / advertising of tenders subject to the payment of a non-refundable document fee, if applicable.
- The Employer will arrange to issue the tender documents from their offices and take receipt of amounts paid.
- The Tenders for the Works will be submitted to the Employer's office in terms of the tender closing times stipulated. Tenders will be opened and tender amounts read out at the time.
- The Quantity Surveyor will make copies of the returned Tender documents for distribution to the Principal Agent.
- The Quantity Surveyor will prepare an initial financial evaluation report of the Tenders, Principal Agent and Engineer will evaluate the Tenderer's technical compliance and capability and circulate to the Employer.
- The Principal Agent will prepare a draft report, discuss with the Contractor to get their approval and finally circulate the draft to the other Consultants for final comment. Thereafter the Tender Report with Recommendations will be finalised by the Principal Agent and circulated to the Employer for approval. On approval, the recommendation together with any instructions of award will be issued to the Contractor who will be responsible for appointing the relevant party as a Sub-contractor.

F.4.41 Community Liaison Officer (CLO)

The Tenderer shall allow for a CLO who is to be appointed and remunerated by the Contractor following identification and selection by the Ward Councillor.

Purpose of the Job:	The primary role of the CLO shall be liaison and facilitation of communication between the Contractor, the Local community and the Ward Councilor.
Job title:	Community Liaison Officer (CLO)
Reporting to:	The Contracts Manager or other delegated representative of the Contractor. The CLO must report to **the Contractor** and remain on site on a daily**.**
Experience:	Relevant experience and knowledge of building construction, community facilitation and relevant labour legislation.
Remuneration:	Rate payable for the CLO will be 100% of the Building Industry minimum wage for unskilled labour.
Minimum Skills:	1. Ability to work with others; 2. Ability to communicate in local language of the project location and English; 3. Ability to communicate in writing; 4. Sound Interpretation skill.

The Ward Councillor in whose wards work is to be done will collectively identify 3 (three) CLO candidates for the project and make such persons known to the Contractor within five days of being requested to do so. The Contractor will be required to enter a written contract with the CLO that specifies:

(a) The hours of work and the wage rate of the CLO which could include:
(b) The duration of the appointment
(c) The duties to be undertaken by the CLO which could include:

- Assisting in all respects relating to the recruitment of local labour and advising them of their rights
- Acting as a source of information for the community and councilors on issues related to the contract
- Keeping the contractor advised on community issues and issues pertaining to local security
- Assisting in setting up any meeting or negotiations with affected parties

- Keeping a written record of any labour or community issues that may arise
- The CLO needs to be seen to be neutral by all parties and therefore should endeavour not to take sides should conflict arise.
- Should the CLO function not involve a full days work, the CLO will be expected to undertake other work allocated by the Contractor for the balance of each day

Procedures for local labour recruitment:

- The Contractor submits a list of his/her requirements to the CLO, stating the numbers required in each labour category (general worker, bricklayer, etc.) and a programme that shows when these resources will be required.
- During the construction period, the CLO uses the list to identify candidates for employment, who are interviewed and if successful employed by the contractor.
- The Contractor keeps the CLO informed by providing him/her with employee's details at the start of their employment (name, residential address, ID number, wage, employment, start and finish date, task, etc.) and notify the CLO when their employment ends.

F.4.42 Contract Skills Development Goal (CSDG)

The contractor shall achieve in the performance of the contract the Contract Skills Development Goal (CSDG) established in the Standard for Developing Skills through Infrastructure Contracts (Government Gazette, Vol. 694, No. 48491, 28 April 2023), hereinafter referred to as the Standard.

T2.1 LIST OF RETURNABLE DOCUMENTS

T2.1 List of Returnable Documents

List of returnable documents are for ensuring that everything the employer requires a tenderer to submit with his tender is included in, or returned with, his tender submission. Tick below if returnable document is attached or completed properly.

#	LIST OF RETURNABLE DOCUMENTS	TICK IF ATTACHED
T2.1.1	Invitation to bid (SBD1)	
T2.1.2	Preference Points Claim Form in Terms of The Preferential Procurement Regulations 2022 (SBD 6.1)	
T2.1.3	B-BBEE Certificate (Original or Originally Certified Copy)	
T2.1.4	Tax clearance certificate	
T2.1.5	Joint Venture Agreement Between Parties	
T2.1.6	Contractors copy of registration	
T2.1.7	CIDB Registration Number	
T2.1.8	Copy of a Letter of Good standing with Compensation For OccupationalAnd Injuries Dieses Act (COIDA) Registration Number	
T2.1.9	Compulsory enterprise questionnaire	
T2.1.10	Bidder's disclosure	
T2.1.11	Attendance At Compulsory Briefing	
T2.1.12	Certificate of Authority For Signatory	
T2.1.13	Record of Addenda to The Tender Documents	
T2.1.14	Tenderers financial standing	
T2.1.15	Amendments, Qualifications and Alternatives	
T2.1.16	Socio economic upliftment strategy	
T2.1.17	Proposed sub-contractors	
T2.1.18	Contractors health and safety declaration	

T2.2 RETURNABLE SCHEDULES (ALL COMPULSORY)

T2.2 RETURNABLE SCHEDULES

Contains documents that the tenderer is required to complete for the purpose of evaluating tenders and other schedules which upon acceptance become part of the subsequent contract.

#	**QUALITY EVALUATION SCHEDULES**
T2.2.1	Safety health environmental and quality management system (SHEQ) plan
T2.2.2	Project Experience
T2.2.3	Letters of Appointment, and Relevant Completion Certificates (Practical Completion, Work Completion & Final Completion)
T2.2.4	Client references
T2.2.5	Key Personnel
T2.2.6	Financial Viability

RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT (to be attached with submission)

Record of Addenda to Tender Documents
Declaration Concerning Fulfillment of the Construction Regulations, 2003
First Programme and Method Statement
Preliminary Health and Safety Plan for completion
Form of offer and acceptance
Contract data
Forms of securities

T2.1.1 INVITATION TO BID

SBD 1

PART A

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (*NAME OF DEPARTMENT/ PUBLIC ENTITY*)					
BID NUMBER:	**DOE14NWER009**	CLOSING DATE:	**11 October 2023**	CLOSING TIME:	**12h00**
DESCRIPTION	**BID DATA FOR APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.**				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT *(STREET ADDRESS)*					
IDT North West Regional Office					
4071 Joules Street, Industrial Site					
Mahikeng					
2735					

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO		**TECHNICAL ENQUIRIES MAY BE DIRECTED TO:**	
CONTACT PERSON	Noxolo Dikobe	CONTACT PERSON	Andrew Ngobeni
TELEPHONE NUMBER		TELEPHONE NUMBER	
FACSIMILE NUMBER		FACSIMILE NUMBER	
E-MAIL ADDRESS	noxolod@idt.org.za	E-MAIL ADDRESS	andrewn@idt.org.za

SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		**OR**	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] ☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] ☐ Yes ☐ No	

[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]

a) **ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?**	☐Yes ☐No [IF YES ENCLOSE PROOF]	***b)*** **ARE YOU A FOREIGN BASED SUPPLIER FOR** THE GOODS /SERVICES /WORKS OFFERED?	☐Yes ☐No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	☐ YES ☐ NO

IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.

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 JOINT BUILDING CONTRACT COMMITTEE (JBCC) 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 (SBD7).
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) ISSUEDBY 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: ……...

T2.1.2 PREFERENCE POINTS CLAIM FORM

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

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1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 90/10 system for requirements with a Rand value of above R50 000 000 (allapplicable taxes included)

1.2 To be completed by the organ of state

a) The applicable preference point system for this tender is the 90/10 preference point system.

b) The 90/10 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

(a) Price; and

(b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	**90**
SPECIFIC GOALS	**10**
TARGETED GROUP	
Women Ownership	3
Youth Ownership	3
People with Disabilities Ownership	2
Black Male Ownership	2
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 90/10 PREFERENCE POINT SYSTEMS

A maximum of 90 points is allocated for price on the following basis:

90/10

$$Ps = 90\left(1 - \frac{Pt - P\,min}{P\,min}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 points is allocated for price on the following basis:

80/20

$$Ps = 80\left(1 + \frac{Pt - P\,max}{P\,max}\right)$$

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 preference point system applies, anorgan of state must, in the tender documents, stipulate in the case of—

(a) an invitation for tender for income-generating contracts, that either the 80/20 preference point system will apply and that the highest acceptable tenderwill be used to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 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 80/20 preference point system isapplicable, 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 ofpoints allocated(90/10 system) (To be completed by the organof state)	Number ofpoints claimed (90/10 system) (To be completed by the tenderer)
Women Ownership	3	
Youth Ownership	3	
People with Disabilities Ownership	2	
Black Male Ownership	2	

Source Documents to be submitted with the Bid or RFQ

*CIPC Document	(Company Registration Document will be required for verification (CIPC DOC))
*Woman	(Originally Certified ID Document)
*Youth	(Originally Certified ID Document)
*People with Disability	(Letter from the Dr. Confirming the Disability)
*Black Ownership	(Originally Certified ID Document)

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm…….

4.4. Company registration number: ……...

4.5. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certifythat 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 additionto 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 asa result of having to make less favourable arrangements due to suchcancellation;

(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: ……
……
……
……

T2.1.3 CIPC Document

Source Documents to be submitted with the Bid or RFQ

*CIPC Document (Company Registration Document will be required for verification (CIPC DOC))

*Woman (Originally Certified ID Document)

*Youth (Originally Certified ID Document)

*People with Disability (Letter from the Dr. Confirming the Disability)

*Black Ownership (Originally Certified ID Document)

T2.1.4 TAX CLEARANCE CERITFICATE

Tax Clearance Certificate or Unique Pin obtained from SARS to be inserted here]

T2.1.5 JOINT VENTURE AGREEMENT BETWEEN PARTIES

Attached hereto is our duly signed, Joint Venture Agreement. Our failure to submit the agreement with our tender document will lead to the conclusion that the joint venture has not been formally formed and all parties were not involved in the tender process.

T2.1.6 CONTRACTOR'S COPY OF REGISTRATION OF INCORPORATION

Attached hereto is my / our copies of company registration of incorporation or company registration documents. My failure to submit the copy with my / our tender document will lead to the conclusion that I am / we are not registered as claimed.

T2.1.7 CIDB REGISTRATION CERTIFICATE

Attached hereto is my / our registration certificate with the Construction Industry Development Board. My / our failure to submit the certificate with my / our tender document will lead to the conclusion that my / our company is not registered with CIDB.

NOTE: The CIDB can be contacted or visited on *www.cidb.org.za* ***for more information and registration. Obtain a "Code of Conduct for all parties engaged in construction procurement" for you information.***

T2.1.8 COPY OF A LETTER OF GOODSTANDING WITH COMPANSATION FOR OCCUPATIONAL AND INJURIES DISEASES ACT (COIDA OR TENDER LETTER OBTAIN FROM DEPARTMENT OF LABOUR OR FEMA)REGISTRATION CERTIFICATE

Attached hereto is my / our certified copy of A LETTER OF goodstanding with the Compensation for Occupational Injuries and Diseases, e.g. letter of good standing. My / our failure to submit the certificate with your tender offer will lead to the conclusion that your entity/ company is not registered with COIDA / FEMA. If Joint Venture (JV) attach one for every service provider.

T2.1.9 COMPULSORY ENTERPRISE QUESTIONNAIRE

T2.1.9 COMPULSORY ENTERPRISE QUESTIONNAIRE

Note: ***Compulsory Enterprise Questionnaire must be completed by each member of a JV or consortium***

Section 3: CIDB registration number, if any: . . . . . .

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

***** Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number . . . . . .

Close corporation number . . . . . .

Tax reference number . . . . . .

Section 6: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- a member of the board of directors of any municipal entity
- an official of any municipality or municipal entity
- an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
- a member of an accounting authority of any national or provincial public entity
- an employee of Parliament or a provincial legislature

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

- a member of any municipal council
- a member of any provincial legislature
- a member of the National Assembly or the National Council of Province
- an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)

- a member of the board of directors of any municipal entity
- an official of any municipality or municipal entity
- a member of an accounting authority of any national or provincial public entity
- an employee of Parliament or a provincial legislature

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;

ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;

iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;

iv) confirms that I / we are not associated, linked or involved with any other bidding entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and

iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed ---------- Date ----------

Name ---------- Position ----------

Enterprise name ----------

T2.1.10 BIDDER'S DISCLOSURE

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

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

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

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest1 in the enterprise, employed by the state? **YES/NO**

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

Full Name	**Identity Number**	**Name of State institution**

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

2.2.1 If so, furnish particulars:
……
……

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:
……
……

the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding voteor power to influence or to direct the course and decisions of the enterprise.

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be trueand complete in every respect:

3.1 I have read and I understand the contents of this disclosure;

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be trueand complete in every respect;

3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium2 will not be construed as collusive bidding.

3.4 In addition, there have been no consultations, communications, agreements or arrangements withany competitor regarding the quality, quantity, specifications, prices, including methods, factors orformulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars ofthe products or services to which this bid invitation relates.

3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directlyor indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Preventionand Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME INTERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAINMANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

…… ……..

Signature Date

…… ……

Position Name of bidder

T2.1.11 CERTIFICATE OF ATTENDANCE AT COMPULSORY BRIEFING

This is to certify that *(tenderer)* .....

of *(address)* .....

..... was represented by the person(s) named below at the compulsory meeting held for all tenderers at *(location)*.....

..... on *(date)*..... starting at *(time)* .....

I / We acknowledge that the purpose of the meeting was to acquaint myself / ourselves with the site of the works and / or matters incidental to doing the work specified in the tender documents in order for me / us to take account of everything necessary when compiling our rates and prices included in the tender.

Particulars of person(s) attending the meeting:

Name:.. ..... Signature: .....

Capacity: ..... Identity number: ……...

Attendance of the above person(s) at the meeting is confirmed by the Employer's representative, namely:

Name:.. ..... Signature: .....

Capacity: ..... Date and Time: .....

T2.1.12 CERTIFICATE OF AUTHORITY FOR SIGNATORY

Indicate the status of the tenderer by ticking the appropriate box hereunder. The tenderer must complete the certificate set out below for the relevant category, **and attach their Registration Certificates for Companies, Close Corporations and Partnerships, or Agreements and Powers of Attorney for Joint Ventures, or ID documents to the page provided at the end of this form.**

(I) COMPANY	(II) CLOSE CORPORATION	(III) PARTNERSHIP	(IV) JOINT VENTURE	(V) SOLE PROPRIETOR

(I) CERTIFICATE FOR COMPANY

I, ……, Id number.....chairperson of the Board of Directors of.....hereby confirm that by resolution of the Board (copy attached) taken on ..... 20....., Mr/Ms.....acting in the capacity of..... , was authorised to sign all documents in connection with the tender for Contract No …… and any contract resulting from it, on behalf of the company.

Chairman: .....

As Witnesses: 1. .....

2. ..... **Date:** ……..

(II) CERTIFICATE FOR CLOSE CORPORATION

We, the undersigned, being the key members in the business trading as …….

hereby authorise Mr/Ms .....……., acting in the capacity of..... ,

to sign all documents in connection with the tender for Contract No ..... and any contract resulting from it, on our behalf.

NAME	ADDRESS	SIGNATURE	DATE
ID No……..	.....		
ID No……..	.....		
ID No……..	.....		
ID No……..	.....		

Note : This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.

(III). CERTIFICATE FOR PARTNERSHIP

We, the undersigned, being the key partners in the business trading as, ...

..... hereby authorize Mr/Ms .....

acting in the capacity of ..... , to sign all

documents in connection with the tender for Contract No ..... and any contract resulting from it, on our behalf.

NAME	ADDRESS	SIGNATURE	DATE
	.....		
	.....		
	.....		
	.....		

Note : This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.

(IV) CERTIFICATE FOR JOINT VENTURE

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorize Mr/Ms

……, authorized signatory of the company,.....

acting in the capacity of lead partner, to sign all documents in connection with the tender offer for

Contract No ..... and any contract resulting from it, on our behalf.

This authorization is evidenced by the attached power of attorney signed by legally authorized signatories of all the partners to the Joint Venture.

NAME OF FIRM	ADDRESS	AUTHORISING SIGNATURE, NAME AND CAPACITY
Lead partner	.....	
	.....	
	.....	

Note : This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.

(V) CERTIFICATE FOR SOLE PROPRIETOR

I, ……..., hereby confirm that I am the sole owner of the business

trading as …….

Signature of Sole owner: ……

As Witnesses:

1. ……

2. ……

Date: ……

T2.1.13 RECORD OF ADDENDA TO THE TENDER DOCUMENTS

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

Attach additional pages if more space is required.

Signed ..... Date .....

Name .....

ID number ..... Position .....

Tenderer .....

T2.1.14 TENDERER'S FINANCIAL STANDING

The Tenderer shall provide information about his commercial position, which includes information necessary for the Employer to evaluate the Tenderer's financial standing.

To that end the Tenderer must provide with his tender a bank rating, certified by his banker, to the effect that he will be able to successfully complete the contract at the tendered amount within the specified time for completion.

However, should the Tenderer be unable to provide a bank rating with his tender, he shall state the reasons as to why he is unable to do so, and in addition provide the following details of his banker and bank account that he intends to use for project:

Name of account holder: _____

Name of Bank : _____

Branch : _____

Account number : _____

Type of account : _____

Telephone number : _____

Facsimile number : _____

Name of contact person (at bank : _____

Failure to provide either the required bank details or a certified bank rating with his tender, will lead to the conclusion that the Tenderer does not have the necessary financial resources at his disposal to complete the contract successfully within the specified time for completion.

The Employer undertakes to treat the information thus obtained as confidential, strictly for the use of evaluation of the tender submitted by the Tenderer.

SIGNATURE: _____

IDENTITY NUMBER: _____

(of person authorised to sign on behalf of the Tenderer)

DATE: _____

T2.1.15 AMENDMENTS, QUALIFICATIONS AND ALTERNATIVES

(This is not an invitation for amendments, deviations or alternatives but should the Tenderer desire to make any departures from the provisions of this contract he shall set out his proposals clearly hereunder. The Employer will not consider any amendment, alternative offers or discounts unless forms (a), (b) and (c) have been completed to the satisfaction of the Employer).

I / We herewith propose amendments, alternatives and discounts as set out in the tables below:

(a) AMENDMENTS

PAGE, CLAUSE OR ITEM NO	PROPOSED AMENDMENT

[Notes: (1) Proposals for amendments to the General and Special Conditions of Contract are not acceptable, and will be ignored;
(2) The Tenderer must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his tender.

(b) ALTERNATIVES

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE

[Notes: (1) Individual alternative items that do not justify an alternative tender, and an alternative offer for time for completion should be listed here.

(2) In the case of a major alternative to any part of the work, a separate Bill of Quantities, programme, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the tender.

(3) Alternative tenders involving technical modifications to the design of the works and methods of construction shall be treated separately from the main tender offer.]

(c) DISCOUNTS

ITEM ON WHICH DISCOUNT IS OFFERED	DESCRIPTION OF DISCOUNT OFFERED

[Note: The Tenderer must give full details of the discounts offered in a covering letter attachedto his tender, failing which, the offer for a discount may have to be disregarded. Only unconditional discounts will be considered]

SIGNATURE: .....…… IDENTITY NUMBER: ……..

(of person authorised to sign on behalf of the Tenderer) DATE:……

T2.1.16 SOCIO ECONOMIC UPLIFTMENT STRATEGY

Attached hereto are my / our proposed socio economic upliftment strategy. The strategy will as a minimum address items such as skills upliftment, training, sub contracting, skilled and semi-skilled labour employment, procurement of local labour and materials, employment of woman, youth and disabled, etc.

Notes:

a) The developer has a commitment to utilising the local community resources and labour, and as such preference will be shown to bidders who prioritise local employment.

b) As part of the tender documentation a methodology is to be submitted proposing as to how the main contractor will deal with the social economic expectations of the surrounding community.

The proposal is to allow for a suitable employment ratio of local community members and any additional measures that will enable future local community upliftment.

c) The main contractor is required to familiarise himself with the community and local authority to ascertain for himself the full extent of the community's requirements and minimum wages.

d) The contractor shall appoint a community liaison officer and shall be responsible for all community negotiations etc.

T2.1.17 CONTRACTOR'S HEALTH AND SAFETY DECLARATION

In terms of Clause 5(1)(h) of the OHSA 1993 Construction Regulations 2014 (referred to as "the Regulations" hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993 and the OHSA 1993 Construction Regulations 2014.
To that effect a person duly authorized by the tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

1. I the undersigned hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and the OHSA 1993 Construction Regulations 2014.
2. I hereby declare that my company / enterprise has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specifications.
3. I hereby undertake, if my tender is accepted, to provide a sufficiently documented Health and Safety Plan in accordance with Regulation 5(1) of the Construction Regulations, approved by the Employer or his representative, before I could be allowed to commence with construction work under the contract. I hereby agree that my company/enterprise will not have a claim for compensation for delay or extension of time because of my failure to obtain the necessary approval for the said safety plan.
4. I confirm that copies of my company's approved Health and Safety Plan, the Employer's Safety Specifications as well as the OHSA 1993 Construction Regulations 2014 will be provided on site and will at all times be available for inspection by the Contractor's personnel, the Employer's personnel, the Engineer, visitors, and officials and inspectors of the Department of Labour.
5. I hereby confirm that adequate provision has been made in my tendered rates and prices in the bill of quantities to cover the cost of all resources, actions, training and all health and safety measures envisaged in the OHSA 1993 Construction Regulations 2014, including the cost for specific items that may be scheduled in the bill of quantities.
6. I hereby confirm that I will be liable for any penalties that may be applied by the Employer in terms of the said Regulations for failure on my part to comply with the provisions of the Act and the Regulations as set out in Regulation 33 of the Regulations.
7. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer will mean that I am unable to comply with the requirements of the OHSA 1993 Construction Regulations 2014, and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer.
8. I am aware of the fact that, should I be awarded the contract, I must submit the notification required in terms of Regulation 4 of the OHSA 1993 Construction Regulations 2014 *(example attached hereafter)* before I could be allowed to proceed with any work under the contract.

SIGNATURE: _____

IDENTITY NUMBER: _____

T2.1.17 CONTRACTOR'S HEALTH AND SAFETY DECLARATION

(of person authorised to sign on behalf of the Tenderer)

DATE:_____

T2.2.1 EVALUATION SCHEDULE: SAFETY HEALTH ENVIRONMENTAL AND QUALITY MANAGEMENT SYSTEM (SHEQ) PLAN

Attached hereto are my / our SHEQ Plan, all in compliance with the Health and Safety Specification – Annexure A or Letter of Undertaking from a Qualified OHS Consultant.(do we need a CV or professional registration attached?)

(PLEASE ATTACHED HERE)

T2.2.2 EVALUATION SCHEDULE: PROJECT EXPERIENCE

The Tenderer shall provide details of his relevant experience on similar large-scale projects completed in the past 10 years. In support tenderers are to complete the "Project Experience" schedule below and attach thereto copies of (a) Letters of Appointment, and (b) all the relevant Completion Certificates (practical completion, work completion & final completion)

PROJECT NAME and CLIENT	BRIEF PROJECT DESCRIPTION	PROJECT VALUE (Incl VAT)	START DATE	COMPLETION DATE
A.				
B.				
C.				

PROJECT NAME and CLIENT	BRIEF PROJECT DESCRIPTION	PROJECT VALUE (Incl VAT)	START DATE	COMPLETION DATE
D.				
E.				
F.				

T2.2.3 EVALUATION SCHEDULE: LETTERS OF APPOINTMENT, AND RELEVANT COMPLETION CERTIFICATES (PRACTICAL COMPLETION, WORK COMPLETION & FINAL COMPLETION)

Tenderer is to attach all letter of appointment and completion certificate corresponding to the project listed in T1.2

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the "Relevant Experience" returnable schedule. "Client Reference Scorecards" will be completed by each of the respective Clients for the projects listed in the "Relevant Experience" returnable schedule OR The tenderer shall provide contactable reference letter/s in the same format as this form (T2.2.4) to measure performance, the letter must be signed and dated by client.

REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. *(**Only** completed Projects shall be considered)*

PROJECT NAME A:

Principal agent: .....

Client:. .....

Contract Amount: .....

Contract Duration: .....

Actual Contract Duration:……

Description / Performance	Not Acceptable	Poor (1 point)	Satisfactory (3 points)	Good (4 points)	Very Good (5 points)
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completedon contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm: .....

Telephone:.....

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

PA / Client Signature: ..... **Date**:.....

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the "Relevant Experience" returnable schedule. "Client Reference Scorecards" will be completed by each of the respective Clients for the projects listed in the "Relevant Experience" returnable schedule OR The tenderer shall provide contactable reference letter/s in the same format as this form (T2.2.4) to measure performance, the letter must be signed and dated by client

REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. *(**Only** completed Projects shall be considered)*

PROJECT NAME B:

Principal agent: .....

Client:. .....

Contract Amount: .....

Contract Duration: .....

Actual Contract Duration:……

Description / Performance	Not Acceptable	Poor (1 point)	Satisfactory (3 points)	Good (4 points)	Very Good (5 points)
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completedon contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm: .....

Telephone:.....

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

PA / Client Signature: ..... **Date**:.....

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the "Relevant Experience" returnable schedule. "Client Reference Scorecards" will be completed by each of the respective Clients for the projects listed in the "Relevant Experience" returnable schedule OR The tenderer shall provide contactable reference letter/s in the same format as this form (T2.2.4) to measure performance, the letter must be signed and dated by client.

REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. *(**Only** completed Projects shall be considered)*

PROJECT NAME C:

Principal agent: .....

Client:. .....

Contract Amount: .....

Contract Duration: .....

Actual Contract Duration:……

Description / Performance	Not Acceptable	Poor (1 point)	Satisfactory (3 points)	Good (4 points)	Very Good (5 points)
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completedon contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm: .....

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

Telephone:.....

PA / Client Signature: ..... **Date**:.....

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the "Relevant Experience" returnable schedule. "Client Reference Scorecards" will be completed by each of the respective Clients for the projects listed in the "Relevant Experience" returnable schedule OR The tenderer shall provide contactable reference letter/s in the same format as this form (T2.2.4) to measure performance, the letter must be signed and dated by client

REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. *(**Only** completed Projects shall be considered)*

PROJECT NAME D:

Principal agent: .....

Client:. .....

Contract Amount: .....

Contract Duration: .....

Actual Contract Duration:……

Description / Performance	Not Acceptable	Poor (1 point)	Satisfactory (3 points)	Good (4 points)	Very Good (5 points)
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completedon contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm: .....

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

Telephone:.....

PA / Client Signature: ..... **Date**:.....

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

The Tenderer shall provide details of his performance on each of the previous projects listed in the "Relevant Experience" returnable schedule. "Client Reference Scorecards" will be completed by each of the respective Clients for the projects listed in the "Relevant Experience" returnable schedule OR The tenderer shall provide contactable reference letter/s in the same format as this form (T2.2.4) to measure performance, the letter must be signed and dated by client

REPORT ON CONTRACTOR'S COMPETANCE & PERFORMANCE ON A SIMILAR PROJECT FOR TENDER RECOMMENDATION PURPOSES

The following are to be completed by the Client and Principal Agent and is to be supported in each case by a letter of award and the works completion certificate. *(**Only** completed Projects shall be considered)*

PROJECT NAME E:

Principal agent: .....

Client:. .....

Contract Amount: .....

Contract Duration: .....

Actual Contract Duration:……

Description / Performance	Not Acceptable	Poor (1 point)	Satisfactory (3 points)	Good (4 points)	Very Good (5 points)
Project Performance / Time Management – Project completed before contractual period (time)					
Project Performance / Time Management - Project completedon contractual period (time)					
Quality of site management					
Quality of workmanship					
Quality of materials					
Financial Management – Cashflow Management					
Financial Management – Payment of Subcontractors					
Financial Management – Payment of labour force					
Financial Management – Procurement of Materials					

Any other remarks considered necessary to assist in evaluation of the contractor?

.....

Principal Agent Firm: .....

Stamp

T2.2.4 EVALUATION SCHEDULE: CLIENT REFERENCES

Telephone:.....

PA / Client Signature: ..... **Date**:.....

T2.2.5 EVALUATION SCHEDULE: KEY PERSONNEL

In terms of the Project Specification and the Conditions of Tender, unskilled workers may only be brought in from outside the local community if such personnel are not available locally.

The Tenderer shall list below the personnel that he intends to utilize on the Works, including key personnel that may have to be brought in from outside if not available locally. (definition of local)

CATEGORY OF EMPLOYEE	NUMBER OF PERSONS					
	KEY PERSONNEL, PART OF THE CONTRACTOR'S ORGANISATION		KEY PERSONNEL TO BE IMPORTED IF NOT AVAILABLE LOCALLY		UNSKILLED PERSONNEL TO BE RECRUITED FROM LOCAL COMMUNITY	
	HDI	NON-HDI	HDI	NON-HDI	HDI	NON-HDI
Construction Manager, Site Agent, Project Managers						
Foremen, Quality Control and Safety Personnel						
Technicians, Surveyors, etc						
Artisans and other Skilled workers						
Plant Operators						
Others:.....						

The Tenderer is referred to Clause F.2.1.1.2 of the Tender Data and shall insert in the spaces provided on the following pages details of the key personnel required to be in the employment of the tenderer or other organization, in order for the tenderer to be eligible to submit a tender for this project. Proof of professional registration must be appended to these schedules, together with the Curriculum Vitae of each individual.

SIGNATURE: .....…… IDENTITY NUMBER: ……..

(of person authorised to sign on behalf of the Tenderer) DATE:……

EVALUATION SCHEDULE: CURRICULUM VITAE OF KEY PERSONNEL (COMPULSORY)

(CVs are required only for site agent, contract or project manager and technician and foreman)

CV FOR CONTRACTS OR PROJECT MANAGER

Name:		**Date of birth:**
Profession:		**Nationality:**
Qualifications:		
Professional Body:	**Category of Registration:**	**Registration Number:**
Professional Body:	**Category of Registration:**	**Registration Number:**
Professional Body:	**Category of Registration:**	**Registration Number:**
Name of Employer (firm):		
Current position:		**Years of Experience:**
Employment Record:		
Experience Record Pertinent to Required Service:		

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

SIGNATURE: .....…… IDENTITY NUMBER: ……..

(of person authorised to sign on behalf of the Tenderer) DATE:……
(OWNER OF THE CV)

EVALUATION SCHEDULE: CV FOR SITE AGENT

Name:		**Date of birth:**
Profession:		**Nationality:**
Qualifications:		
Professional Body:	**Category of Registration:**	**Registration Number:**
Professional Body:	**Category of Registration:**	**Registration Number:**
Professional Body:	**Category of Registration:**	**Registration Number:**
Name of Employer (firm):		
Current position:		**Years of Experience:**
Employment Record:		
Experience Record Pertinent to Required Service:		

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

..... ……..…….

SIGNATURE OF THE INCUMBANT IN THE SCHEDULE DATE

……

INCUMBANT'S IDENTITY NUMBER (why different from the above)

EVALUATION SCHEDULE: CV FOR FOREMAN

Name:		**Date of birth:**
Profession:		**Nationality:**
Qualifications:		
Professional Body:	**Category of Registration:**	**Registration Number:**
Professional Body:	**Category of Registration:**	**Registration Number:**
Professional Body:	**Category of Registration:**	**Registration Number:**
Name of Employer (firm):		
Current position:		**Years of Experience:**
Employment Record:		
Experience Record Pertinent to Required Service:		

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

..... ……..…….

SIGNATURE OF THE INCUMBANT IN THE SCHEDULE DATE

…….

INCUMBANT'S IDENTITY NUMBER

EVALUATION SCHEDULE: CV FOR HEALTH AND SAFETY OFFICER

Name:		**Date of birth:**
Profession:		**Nationality:**
Qualifications:		
Professional Body:	**Category of Registration:**	**Registration Number:**
Professional Body:	**Category of Registration:**	**Registration Number:**
Professional Body:	**Category of Registration:**	**Registration Number:**
Name of Employer (firm):		
Current position:		**Years of Experience:**
Employment Record:		
Experience Record Pertinent to Required Service:		

Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

..... ……..…….

SIGNATURE OF THE INCUMBANT IN THE SCHEDULE DATE

…….

INCUMBANT'S IDENTITY NUMBER

PART C1 : AGREEMENT AND CONTRACT DATA

C1.1 Form of Offer and Acceptance

C1.2 Contract Data

C1.3 Form of Guarantee (Pro Forma as per specific contract)

C.1.4 Adjudicators Agreement

C1.1 FORM OF OFFER AND ACCEPTANCE

C1.1 Form of Offer and Acceptance

A. Offer *[Failure of a Tenderer to sign this form will invalidate the tender]*

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement:

APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009

The Tenderer, identified in the Offer signature block below, 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 authorised, signing this part of this 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 prices inclusive of Value Added Tax is:……

Amount in Words:

……..…

…….

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and

…… SIGNATURE(S) OF AUTHORISED BIDDERS(S) NAME: …….. CAPACITY: …… DATE: …….. ADDRESS …….. …….. …….. CONTACT:: …….. ……	WITNESSES 3. …….. 4. …….

Acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

B. ACCEPTANCE

By signing this part of the Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor 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 andconditions 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 Agreement)
Part C2 Pricing Data, including the Schedule of Quantities
Part C3 Scope of Work

and the schedules, forms, drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender 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 Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representatives of both parties.

The Tenderer shall deliver the Guarantee in terms of Clause 7 of the General Conditions of Contract 2004 within the period stated in the Contract Data, and he shall, immediately after 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 other bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data, within 14 days of the date on which this Agreement comes into effect. 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 Contractor) within five 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.

Signature . . . . . Date . . . . . .

Name . . . . . .

Capacity . . . . . .

for the Employer Independent Development trust
……
……
……
……..

Name and Signature Of witness . . . . . Date . . . . . .

C. SCHEDULE OF DEVIATIONS

By the duly authorised representatives signing this agreement, the employer and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

1 Subject . . . . . .

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Details . . . . . .

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2 Subject . . . . . .

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Details . . . . . .

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3 Subject . . . . . .

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C1.2 CONTRACT DATA

C1.2 Contract Data for BID NO: DOE14NWER009

The Conditions of Contract are clauses of the **JBCC Series 2000 Principal Building Agreement (Edition 6.2)** published by the Joint Building Contracts Committee together with IDT's Special Conditions of Contract.

Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors (011 315-4140), Master Builders Association (011 205-9000; 057 352-6269) South African Association of Consulting Engineers (011 463-2022) or South African Institute of Architects (051 447-4909; 011 486-0684; 053 831-2003;)

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. Should there be any contradictions between the **Contract Data** and the JBCC Principal Building Agreement, the Contract Data shall take precedence.

The contractor shall achieve in the performance of the contract the Contract Skills Development Goal (CSDG) established in the CIDB Standard for Developing Skills through Infrastructure Contracts, published in Gazette Notice No.48491 of 28 April 2023.

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

Each item of data given below is cross-referenced to the clause in the JBCC Principal Building Agreement to which it mainly applies.

The additions, deletions and alterations to the JBCC Principal Agreement are:

Clause	Amendments
1.0	**DEFINITIONS AND INTERPRETATION** Clause 1.1 is deemed to be amended by the addition and amendments of the following: Change the Definition of "**AGREEMENT**" to read as follows: This **JBCC** Principal Building Agreement, the **contractor's** tender document accepted by the **employer**, the form of offer signed by the **contractor, special conditions of contract, contract data** and other **contract documents**. The completed **JBCC®** Principal Building Agreement and **JBCC® contract data**, the **contract drawings**, the **priced document** and any other documents reduced to writing and signed by the authorised representatives of the **parties** Change the Definition of "**BILLS OF QUANTITES**" to read as follows: The document drawn up in accordance with the pricing instructions contained in the pricing data. Change the Definition of "**CONSTRUCTION PERIOD**" to read as follows: The period commencing on the intended date [CD] of possession of the **site** by the **contractor** and ending on the date of **practical completion** Change the Definition of "**CONTRACT DOCUMENTS**" to read as follows: The **agreement** and all documents referenced therein. The **contract documents** shall be taken to be mutually explanatory of one another but in the event of ambiguity, discrepancy, divergence or inconsistency in or between them, the **Contract Data** shall prevail over all other **contract documents** **The above has been removed from 6.2, due to the agreement definition which now includes contract document** Change the definition of **"PAYMENT CERTIFICATE"** to read as follows: A certificate prepared at regular agreed intervals by the principal agent to the contractor certifying the value of work done and verified by the employer for payment, delivered to the employer and properly recorded on
Clause	**Amendments**
	delivery, and the certificate will only become due and payable once the employer has verified and signed the certificate. Note: The employer reserves the right to withhold or reject the certificate within ten (10) working days should there be a reason to do so, and the contractor may resort to the dispute resolution process should the rejection fails to be resolved. Change the Definition of "**PRACTICAL COMPLETION**" to read as follows: The stage of completion where the **works** or a section thereof, in the opinion of the **principal agent**, has been reached in accordance with C28 & C29 this is a different clause of the specific preliminaries and where the work on the **practical completion** list (and patent's list if applicable) has been completed and free of latent defects other than minor defects identified in the list for completion and can be used for the intended purpose and certified as complete by the **principal agent**. Change the Definition of "**CONTRACT DRAWINGS**" to read as follows: The drawings listed in the Scope of Works.

	Change the Definition of "**CONTRACT SUM**" to read as follows: The total of prices in the Form of Offer and Acceptance. Change the Definition of "**INTEREST**" to read as follows: The interest rates applicable to this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999). A monetary guarantee [CD] provided by the **employer** to the **contractor**, or vice versa, in terms of this **agreement** from which either **party** may recover expense and loss in the event of default Add the following to the list of definitions: **SCHEDULE** means the variables listed in the Contract Data. **DATE OF SITE HANDOVER** means the date the contractor is given possession of the site, which shall always be after the signing of the agreement and approval of the construction permits from the relevant authorities including Departments of Labour and Environmental Affairs and local municipality (where applicable). **EXCEPTIONALLY INCLEMENT WEATHER** means weather which is not only extreme or severe but exceeding that which, on the evidence of the past ten years, could reasonably been expected. **TENANT LIST** means a list compiled by the tenant or in his absence the **principal agent** defining the incomplete or defective work to be rectified to achieve **practical completion**. Such list shall be scrutinised and endorsed by the **principal agent** and shall not be unreasonable in the context of his contract. **CORRUPT PRACTICE** means the offering, giving, receiving and soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution **FRAUDULENT PRACTICE** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer, and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.
3.0	**OFFER AND ACCEPTANCE** Clause 3.3 deleted and replaced with the following:- 3.3 This **agreement** shall come into force on the date of signature of the contract by the **employer** and after all statutory requirements have been met, and continue to be of force and effect until the end of the **latent defects** liability period notwithstanding termination or the certification and final payment [22.0;29.0;25.0]

Clause	Amendments
4.0	**CESSION AND ASSIGNMENT** Clause 4.2 deleted and replaced with the following:- **4.2.** The **Contractor** shall not consent to a nominated **Subcontractor** assigning or ceding rights or obligations in terms of this **agreement** without obtaining the prior written consent of the **Principal Agent** with written approval from the **Employer** Clause 4.3 deleted and replaced with the following:- 4.3. Where the **Contractor** intend to cedes any right to monies due or to become due under this agreement as security in favour of a financial institution, a written consent in accordance with clause 4.1 , shall be obtained from the **Employer** prior to entering into such cession. Clause 4.0 is amended by adding the following new clauses: 4.4 Any cession entered into without the necessary written consent from either party, shall be null and void. 4.5 The **Employer** shall not consent to a cession of monies due or to become due under this **agreement** as security in favour of a financial institution, unless such financial institution submitted to the IDT a Valid Tax Clearance Certificate, is registered as a credit provider in terms of the National Credit Act and as a vendor in the IDT's Vendor Management System and in line with the IDT's SCM processes. 4.6 The **contractor** shall adhere to the list of **subcontractors** indicated in the returnable schedules. Any changes to the **subcontractors** and their subcontract work shall be approved by the client in writing. The contractor shall not subcontract more than 25% of the works to **subcontractors** whose BEE status is less than his at the time of appointment. Failure to comply with this shall constitute a breach of contract.
5.0	**CONTRACT DOCUMENTS** Clause 5.1 deleted and replaced with the following:- 5.1. The parties shall sign the original contract document and shall each be issued with the copy thereof. The original signed contract document shall be held by the ***Employer*****.** Clause 5.6 deleted and replaced with the following:- 5.6. The contract documents shall be deemed to be mutually explanatory of one another. In the event of ambiguity, discrepancy, divergence or inconsistency in or between them, the **Contract Data** shall prevail over all other contract documents.

6.0	**EMPLOYER'S AGENTS** Clause 6.1 deleted and replaced with the following:- 6.1. The **Employer** warrants that the **Principal Agent** has authority and obligation to act and bind the **Employer** in terms of this agreement, subject to certain restrictions contained herein this document. Clause 6.4 deleted and replaced with the following:- 6.4. Where any agent fails to act in terms of delegated authority, the **Contractor** shall give notice to the **Principal Agent** and the **Employer** to respond to such default within five (5) working days or any agreed period. Where such default has not been responded to within the specified or the agreed period, the **Contractor** may give not less than 10 working days' notice of intention to suspend the works [28.0]. Clause 6.5 deleted and replaced with the following:-

Clause	Amendments
	6.5 Where any agent fails to act or is unable to act, or ceases to be an agent, in terms of this agreement, the **Employer** shall appoint an interim agent within 10 working days from the date of the employer being aware of such event pending procurement of a replacement agent through normal employer's SCM processes.
9.0	**INDEMITIES** Clause 9.0 is amended by the addition of the following clause:- Clause 9.1.4. Physical loss or damage to an existing structure in the works that are the subject of the contract and to existing structures as well. Delete 9.2.7. Delete 9.2.10.
10.0	**INSURANCES** Clause 10.0 is amended by the addition of the following clauses to the end thereof: 10.12 Damage to the works (a) Without any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary. (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**. (c) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof. 10.13 Injury to Persons or loss of or damage to Properties (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage or to any moveable, or immoveable property or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable. (c) The **contractor** shall upon receiving a **contract instruction** from the **principal agent** cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost therefore from the **contractor** or to deduct the same from amounts due to the **contractor**. (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**.

Clause	Amendments
	(e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed. (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and / or repair such property and execute the **works**. 10.14 High Risk Insurance In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions which might result in catastrophic ground movement evident by sinkhole or dolomite formation the following will apply: 10.14.1 Damage to the works The **contractor** shall, from the **commencement date** of the **works** until the date of the **certificate of practical completion**, bear the full risk of and hereby indemnifies and hold harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary. When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, replace and/or repair the **works**, at the **contractor's** own costs. 10.14.2 Injury to persons or loss of or damage to property The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above. The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of construction. 10.14.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.14.1 and 10.14.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty one (21) **calendar days** of the **commencement date** but before commencement of the **works** submit to the **employer** proof of such insurance policy, if requested to do so. 10.14.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred subsequent upon the **contractor's** default of his obligations as set out in 10.14.1, 10.14.2 and 10.14.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered on indivisible whole.
11.0	**SECURITY** Delete clause 11.1.2. and replace with the following:-

Clause	Amendments
	11.1.2. The **contractor** shall furnish the **employer** with a fixed **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** within fifteen (15) **working days** from the offer of appointment **date** and keep such **security** valid and enforceable until the **final payment certificate** has been issued to the **contractor).** **Or** Delete clause 11.1.3. and replace with the following:- 11.1.3 The **Contractor** shall furnish the **employer** with a fixed set of five per cent (5%) guarantee of the contract sum and a payment reduction of 5% of the value of each **payment certificate** up to a maximum of five per cent (5%) of the contract sum [25.3.3]. The **contractor** shall keep such **security** valid and enforceable until the **final payment certificate** has been issued. The **contractor** could release the retention at any stage of the contract by issuing a further construction guarantee of five percent (5%) of the **contract sum**. Amend clause 11.3 to read as following: 11.3 Where a **contractor** fails to provide the **security** for projects of value less than R5 million, the **employer** may: Amend clause 11.3.1 to read as follows: 11.3.1 Hand over the site to the **contractor** and withhold in interim **payment certificates** to the **contractor** an amount equal to ten percent (10%) of the **contract sum**. The amount withheld shall be reduced at **practical completion** [19.0] to five percent (5%) of the **contract sum** and to zero percent (0%) in the **final payment certificate** [25.6] Delete Clauses 11.1.4, 11.1.5, 11.2; 11.4; 11.5 Delete 11.7 and replace with the following 11.7. A security held by the employer shall be for the due fulfillment of the **contractor'**s obligation in term of this **agreement** Delete clause 11.10 and replace with the following 11.10 The **Contractor** hereby waives, in favour of the **Employer**, any lien or right of retention that is or may be held in respect of the **Works** to be executed on the Site. Clause 11.0 is amended by adding the following new clauses: 11.12 Within fifteen (15) **working days** of the date of **final completion** of the **works** the **employer** shall release all **construction guarantees** to the **contractor**. **11.13** Where the **employer** has a right of recovery against the **contractor,** the **employer** may issue a written demand in terms of the **construction guarantee.** **11.14** C**onstruction guarantees** shall only expire at **final completion** date**.** 11.15 The **Employer**, as an Organ of State, shall not be required to provide payment guarantees

12.0	**DUTIES OF THE PARTIES** Delete clause 12.1.1 Delete clause 12.1.10 Clause 12.0 is further amended by adding the following clauses: 12.4 The **contractor** shall: 12.4.1 Immediately on award of the contract and prior to the commencement on **site**, the **contractor** shall prepare a working **programme** covering the first month of the construction period. This working **programme** shall be prepared in conjunction with the **principal agent** and shall be subject to his approval.

Clause	Amendments
	During the first month of the construction period the **contractor** shall prepare and draw up the **programme** for the balance of the **works** for approval by the **principal agent** 12.4.2 This **programme** shall be drawn up in accordance with the dates in the **agreement** for possession, sectional completion and **practical completion** and shall be in sufficient and approved detailto ensure control over the **works**. **12.4.3** The **programme** shall be compiled based on the Critical Path Method of Programming with the critical activities clearly highlighted. It shall be compiled in such a way that logic is not constrained by resource limitations unless specifically approved by the **principal agent.** **12.4.4** Documentation will not be available in complete detail at the commencement stage. However the **contractor**, in conjunction with the **principal agent**, shall progressively plan the **works** on provisional information available and with sufficient scope to include future detail without disrupting the basic logic initially approved by the **principal agent.** The quantities contained in these **bills of quantities** are provisional and shall be utilized as a guide only for the drawing up of the **programme.** Where assumptions are made in regard to programming aspects, such assumptions shall be recorded in the **programme.** 12.4.5 The **programme** shall be updated and modified to accommodate a material change in circumstances or whenever reasonably required by the **principal agent**. Any acceleration and/or special measures sanctioned by the **principal agent** together with associated effects shall be incorporated in a revision to the **programme.** 12.4.6 The **programme** (including each revision thereof) shall be prepared in conjunction with the **principal agent** and shall be subject to his approval. The approval of the **principal agent** shall be deemed to be given on the basis that the **contractor** represents that the **programme** complies with the requirements of this **agreement**. The **contractor** shall be responsible at all times for maintaining the accuracy, validity and reasonableness of the **programme** and the implementation thereof. The fact that a **programme** has been prepared in conjunction with the **principal agent** or approved by him shall not release or relieve the **contractor** from any of his obligations or responsibilities under this **agreement**. Without derogating from the foregoing, the **contractor** shall at all times bear the onus to demonstrate that the **programme** complies with the requirement of this **agreement** and, where applicable constitute an appropriate baseline **programme** for any purpose in connection with this **agreement.** 12.4.7 The **contractor** and the **principal agent** shall, at regular intervals not exceeding one month, assess the state of progress of the **works** relative to the latest agreed revision of the **programme**. Such agreement shall include the recording of actual commencement and completion dates for each activity and shall constitute the official record of the progress at such point in time. 12.4.7 The contractor shall comply with his tendered subcontractors as stipulated in clause 4.6. 12.5 The contractor shall not remove, cut back or disturb trees and shrubs without a contract instruction from the principal agent. (Specific requirements of the employer must be described) 12.6 The contractor shall ensure that any relics, treasure or other articles of potential value found on the site remain the property of the employer and shall be handed over to the principal agent who shall be the sole arbiter of what is an article of value.

14.0	**NOMINATED SUBCONTRACTORS** Delete clause 14.1 and replace with the following 14.1 The **principal agent** and/or **agents**, on written instruction from the **employer**, shall: Delete clause 14.1.5 Amend clause 14.3 to read as follows:-
Clause	**Amendments**
	14.3 Where such **subcontracto**r is not appointed by the **contractor** for the reasons stated (14.2), or where the appointment of a **subcontracto**r has been terminated, another **subcontractor** shall be nominated and be appointed on instruction from the **principal agent** on written instruction from the **employer.** Amend clause 14.7.1 to read as follows:- The **principal agent,** on written instruction from the **employer**, shall instruct the **contractor** to appoint another nominated **subcontractor** (14.1.4) to complete the n/s subcontract works.
15.0	**SELECTED SUBCONTRACTORS** Amend clause 15.1 to read as follows:- The **principal agent** and/or agents, on written instruction from the **employer**, shall: Clause 15.1.2 deleted and replaced with: 15.1.2. Call for tenders from a list of tenderers agreed between the **contractor**, the **principal agent** and the **employer** 15.1.5. Delete Amend clause 15.4 to read as follows:- 15.4. Where such **subcontracto**r is not appointed by the **contractor** for the reasons stated (15.3), or where the appointment of a **subcontracto**r has been terminated, another **subcontractor** shall be chosen and be appointed on instruction from the **principal agent** on written instruction from the **employer.** Amend clause 15.7.1 to read as follows:- 15.7.1 The **contractor** shall appoint another selected **subcontractor** (15.1.4) to complete the n/s subcontract **works** in consultation with **principal agent** and/**agents** on written instruction from the **employer**
16.0	Amend clause 16.1.1 by adding the following sub-clause: 6.1.1.1 The employer will appoint direct contractors for the following direct contract work and the contractor shall be expected to accommodate them in his planning and execution of work: a) …….. b) ……

17.0	**CONTRACT INSTRUCTIONS** Amend Clause 17.0 by adding the following sub clauses under clause 17.1.2 The word “substantially” in the main clause above is qualified by the following four sub clauses: 17.1.2.1 Quantity as per line item in fixed Bill of Quantity of more than 5%. 17.1.2.2. Variation in standards that result in rate adjustment within the BOQ of more than 5% 17.1.2.3. Variation in the design that varies the contract sum by more than 5% 17.1.2.4. Should any of the clauses 17.1.2.1-3 be triggered the employer must be notified within 24 hour of becoming aware of the change in writing. The 5% variance includes the exceeding or reduction of the amount as stated above. Amend clause 17.1.13 to read as follow: 17.1.13 Expenditure of budgetary allowances, prime cost amount and provisional sums will only be allowed with the express, explicit and unique written consent of the employer.
Clause	**Amendments**

19.0	**PRACTICAL COMPLETION** Amend Clause 19.0 by adding the following clauses: 19.4.1. In the event of failure as contemplated in the main clause, The employer reserves the right to issue a practical completion list in excess of the principal agent list or in replacement thereof. 19.4.2. No default Practical completion will be deemed to be given, in light of sub clause 19.4.1 19.8 Without derogating from the generality of the requirements for **practical completion** the following specific requirements shall apply: 19.8.1 **Defects** occurring after the issue of the **practical completion** list requiring remedial work that will, in the opinion of the **principal agent,** cause disruption, will cause the issue of the certificate of **practical completion** to be withheld until such **defects** have been rectified to the satisfaction of the **principal agent**. 19.8.2 The following certificates of compliance shall be required (excluding others that may be required by the local/national authority) from the contractor to achieve **practical completion** and completion certificate shall be invalid if one of them is missing: a) A certificate from the **contractor** that all aspects of the construction regulations of 2003 have been complied with. b) A certificate from the **contractor** that the National Building Regulations have been complied with c) An occupancy certificate d) occupational Health and Safety certificate e) A certificate of compliance with respect to plumbing and drainage f) An electrical certificate of compliance g) A certificate of compliance with respect to all glazing h) A certificate of compliance and fire clearance certificate from the contractor and fire chief respectively. i) A galvanizing and painting guarantee. j) All mechanical certificate of compliance. k) All structural certificate of compliance. l) A palisade certificate of compliance. m) A smoke extraction certificate of compliance. n) A fire signage certificate of compliance. o) A tiling certificate of compliance. p) A waterproofing certificate of compliance. q) A generator guarantee. r) Commissioning reports s) Maintenance and operational manuals t) Training of end users on equipment, etc. u) Any other applicable guarantees. 19.8.3 A complete set of maintenance and operating manuals together with all workmanship and material warranties and guarantees are to be compiled and issued to the **principal agent** prior to **practical completion** being granted. In addition to the abovementioned documentation, a formal "on site" handover will be required to be conducted with every discipline in the presence of the **contractor** as well as the applicable services subcontractor. Delete Clause 19.6 and replace with the following clauses: 19.6 Notwithstanding anything to the contrary contained in the contract, should the **contractor** in the opinion of the **principal agent** not have achieved **practical completion** of any area of the **works**,the **employer** may, notwithstanding the **contractor's** ongoing responsibilities, take possession of any such area and such possession by the **employer** shall not in any way be construed that **practical completion** has been achieved. In such event, the **principal agent** shall give written notice to the **contractor** that the **employer** is taking immediate possession of any particular area/s without **practical completion** having been achieved in order to mitigate the **employer's** damages and exposure to loss or expense.

Clause	Amendments
	19.6.1 In the event of the **Employer** taking occupation of the **works** or part thereof prior to **practical completion** being achieved, but on or after the date for **practical completion**, the e**mployer** shall: (a) Have **the principal agent** issue a **practical completion** list(s) prior to such occupation (b) Grant the **contractor** thereafter all reasonable access to expeditiously attend to the items on the **practical completion** list(s) Add clause 19.9 to Clause 19.0 to read as follows: 19.8 After the issue of the **certificate of practical completion**, entry upon the **works** to make good **defects** shall be at such reasonable times as shall be agreed by the **principal agent.** The **contractor** shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims of loss of profit shall not be entertained.
22.0	**LATENT DEFECT LIABILITY PERIOD** Amend Clause 22.1 to read as follow: 22.1 The latent defect liability period for the works shall commence at the start of the construction period and end 10 years from the certified date of final completion. Amend 22.2.1 to read as follow: 22.2.1 Where termination of this agreement occurs before the date of final completion, the latent defect liability period shall end 10 Years from the date of termination (29.10; 29.23) for the completed portion of the works only. Delete clause 22.2
23.0	**REVISION OF THE DATE FOR PRACTICAL COMPLETION** Amend 23.2 to read as follow: 23.2 The **contractor** is entitled to a revision of the date for **practical completion** with an adjustment of the **contract value** (26.0) by the **principal agent** subject to a written approval from the **employer**, for a delay to **practical completion** caused by one or more of the following events:- Amend 23.7 to read as follow: 23.7. The **principal agent** shall, within twenty (20) working days of receipt of the claim, with the written consent of the **employer**, grant in full, reduce, refuse the working days claimed, and:

25.0	**PAYMENT** Amend 25.1. to read as follow: 25.1 The **contractor** shall cooperate with and assists the **employer** and **Principal agent** in the preparation of the cash flow statement and payment valuation by providing all required document and quantified amount of work duly executed. Where the contractor has not provided such information the **principal agent** shall make a fair estimate of the work executed. Amend Clause 25.0 by adding the following sub clauses under clause 25.1:
Clause	**Amendments**
	25.1.1. The **principal agent** shall prepare in full the **payment certificate** for signature and effect by the employer as stipulated in the contract. No **payment certificate** will be concluded and effected without the employer's authorized signature on the certificate. 25.1.2. No **payment certificate** will be effected without the employer's authorized signature on the certificate. 25.1.3 The **Employer** reserves the right to demand a valid Tax Clearance Certificate prior to making any payment to the **Contractor**, should it become aware that the tax clearance certificate has expired. 25.1.4 The Contractor shall submit the valid Tax Clearance Certificate within fifteen (15) working days or any extended period, from the date of expiry of the Tax Clearance Certificate. Amend clause 25.4.4 to read as follows: 25.4.4 Default interest, where applicable, shall only be effective after the 30 calendar days from the date of submission of undisputed **payment certificate and Contractor Invoice** to the **employer** at the rate of repo rate plus 3%. 25.4.5. Delete Amend 25.7 to read as follow: 25.7 The **Employer** shall, in accordance with clause 8.2.3 of the treasury regulation of March 2005, pay to the **Contractor** the amount certified in an interim **payment certificate** within **thirty (30) calendar days** from the date of submission of undisputed **payment certificate**" to the **employer** after verification, unless there is an objection of the certificate by the employer. *The employer cannot reject a certificate once the employer signs it.* Amend Clause 25.9 by adding the following sub clauses: 25.9.1 The **employer** shall only be liable for the payment for materials and/or goods on site if ownership is proven by the **contractor** (paid in full) and such ownership shall pass on to the **employer** upon payment. 25.9.2 The **employer** shall only be liable for the payment for materials and/or goods offsite if ownership is proven by the **contractor** (paid in full) and the **contractor** submits a bank guaranteed cheque of the value of materials and/or goods in favour of the client and such ownership shall pass on to the **employer** upon payment.

26.0	**ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT** Add the followings sub clauses to clause 26.1. 26.1.1. Upon receipt of the change request, the **Principal Agent** must professionally consider the merits of the change request and make a recommendation to the **employer**. 26.1.2. The **Principal Agent** shall not have the power to approve any deviation or variation which has financial implications on the **Employer** without the necessary written approval of the **Employer**, except under emergency circumstances wherein failure to undertake the work may result in loss of life.

Clause	Amendments
	26.1.3. The **Employer** must communicate the approval of the change request in writing to the **Principal Agent** and the **Principal Agent** shall, upon receipt of confirmation of the change request, issue the necessary **Contract Instruction** to the **contractor** to undertake the works. 26.1.4. The **Contractor** shall not commence with any change request Works without proof of the written approval of the Variation Order from the **Employer**, except under circumstances mentioned in paragraph 26.1.2 above. 26.1.5 Should the **Contractor** undertakes the change request Works without the necessary written approval of the change request from the **Employer,** the **Contractor** shall be entirely liable for any financial and any related implications and hereby indemnify and hold harmless the **Employer** from and against any and all claims, actions, damages, liabilities, injuries, costs, fees, expenses, or losses, including and without limitation, reasonable attorney's fees and costs of investigation and litigation, whatsoever which may be incurred by, or for which liability may be asserted against, the **Employer** arising out of the Contractor's performance or non-performance of unauthorized works, but only to the extent caused by the negligent acts, errors or omissions of the **Contractor**. 26.1.6. The **Contractor** shall not accept any instructions from any party, including beneficiary Department, other than the **Principal Agent**. Amend clause 26.7 to read as follow: 26.7 The **principal agent**, in consultation with the employer, shall assess the claim and on approval by the **employer**, shall adjust the contact value within twenty (20) working days of receipt of such details.
27.0	**RECOVERY OF EXPENSE AND/OR LOSS** 27.1.4. Delete
28.0	**SUSPENSION BY THE CONTRACTOR** Amend clause 28.1. to read as follow: 28.1 The **contractor** may give fourteen (14) Working days' notice to the employer and the **principal agent** of the intention to suspend the works where the **employer** and the **principal agent** have failed to: Add the followings clause to clause 28.0: 28.5. The date of resumption of works shall be the date on which the default has been remedied by the **employer**.

29.0	**TERMINATION** Clause 29.1.1 is amended by the addition of the following sub-clauses: 29.1.1a The **contractor** refuses or neglects to comply strictly with any of the conditions of contract. 29.1.1b The **contractor's** estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force with the Republic of South Africa. 29.1.1c The **contractor**, in the judgment of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract.
Clause	**Amendments**
	29.1.1d The **contractor** fails to perform in terms of the **agreement** or the **employer** on reasonable ground believe that the **contractor** may not be able to comply with his obligation. Amend 29.10 to read as follow: 29.10 The latent defect liability period for the completed portion of the works shall end (22.2.1) 10 years from the date of termination. Amend 29.23 to read as follow: 29.23 The latent defect liability period for the completed portion of works shall end 10 years from the date of termination (22.2.2).
30.0	**DISPUTE RESOLUTION** Delete clauses 30.3, 30.4, 30.5 and 30.6

Contract Agreement

Clause Number	Contract Agreement
41.0	**41.0 POST TENDER PROVISIONS** 41.1 All information provided in this section requires consultation with the **parties** to the **agreement**. 41.2 The completed **Contract Data - Employer** and **Contractor data - Contractor** addenda and such other pertinent documents as listed below shall form part of this **agreement**: 41.3 The dispute resolution body selected by the **parties** is: **THE ASSOCIATION OF SOUTH AFRICAN ARBITRATORS** 41.4 The **employer** shall provide a **Payment Guarantee** *(amount)* **N/A** 41.5 An annual building industry holiday period is applicable *(yes/no)* **YES** 41.6 Further provisions and information agreed by the parties: _____ _____ _____ _____
42.0	**42.0 CONTRACTUAL AGREEMENT** 42.1 This **agreement** is the entire (special conditions?) contract between the **parties** regarding the matters addressed herein. No representations, terms, conditions or warranties not contained in this **agreement** shall be binding on the **parties**. No agreement or addendum varying, adding to, deleting or terminating this **agreement** including this clause shall be effective unless reduced to writing and signed by the **parties.** 42.2 **Contracting Parties** (1) **Employer** : **THE INDEPENDENT DEVELOPMENT TRUST** Physical Address : North-West Regional Office 4071 Joule Street Industrial Site Mmabatho, 2735 Telephone : (018) 389 3027 Fax : (086) 656 4152 E-mail : permyk@idt.org.za TAX / Vat Registration no : 458 014 7876

Clause Number	Contract Agreement

(2) **Contractor** :

Physical Address :

Telephone :
Fax :
E-mail :

TAX / Vat Registration no :

42.3 The accepted contract sum (inclusive of tax)

(amount) ☐

(In words) _____

_____

_____

42.4 Signature of the contracting **parties**:

Thus done and signed at _____ on _____

_____ _____
Name of signatory For and on behalf of the **employer** who by signature hereof warrants authorisation hereto

_____ _____
Capacity of signatory As Witness (1)

Thus done and signed at _____ on _____

_____ _____
Name of signatory For and on behalf of the **contractor** who by signature hereof warrants authorisation hereto

_____ _____
Capacity of signatory As Witness (2)

Clause Number	Contract Agreement
	Details of Witness (1) Name: _____ Address: _____ _____ _____
	Details of Witness (2) Name: _____ Address: _____ _____ _____

C1.2.1 Special Conditions of Contract

INTRODUCTION

WHEREAS, the Independent Development Trust ("IDT") made an Offer of Appointment and the Contractor has accepted such appointment subject to the conditions stipulated in the aforesaid Offer of Appointment Letter, which conditions include signing of the JBCC Agreement, Edition 6.2 @ May 2018 (hereinafter referred to as "Main Agreement") and the Contract Data.

AND WHEREAS, this Special Condition of Contract shall form part of the Main Agreement between the Employer and the Contractor.

a) ADDITIONS TO THE MAIN AGREEMENT AND THE CONTRACT DATA

1.1 JOINT VENTURE AGREEMENT

1.1.1 Should the Joint Venture Agreement be dissolved or any of the JV partner pull out the JV Agreement for any reasons whatsoever, the Employer hereby reserve its right to terminate the contract with immediate effect.

1.1.2 Should one JV partner pull out of the JV agreement and the replacement JV partner does not meet the BBBEE threshold stipulated in clause 5.4 of the Special Condition of the Principal Contract, the IDT shall be entitled to cancel the contract with immediate effect.

1.1.3 Should the BBBEE status of the Joint Venture be changed to a lower rate than the bidding rate, based on legislation applicable at the time of tender closing, the IDT shall be entitled to cancel the contract.

b) SUBCONTRACTING

1.1 A service provider awarded the contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher BBBEE status level than the person (service provider) concerned, unless the contract is subcontracted to an exempted micro enterprise that has the capability and ability to execute the sub-contract.

1.2 Service provider awarded the project shall subcontract not less than 15% of the contract value to Black-owned local firms with preferably women, youth and people with disability

c) LOCAL ENTERPRISE

Service provider awarded the project shall purchase at least 5% of the materials locally where available.

d) TRAINING

Service provider awarded the project may train local labour on life skills, on the job and accredited certification in e.g. plumbing etc.

e) INSURANCES

The contractor shall be responsible for effecting and maintaining the contract works insurance for the full duration of the contract period. The insured amount for the full scope of works shall be 100% of the contract amount. The insured amount shall include for alterations and renovations to existing buildings and shall not reduce in any way despite sectional; completion being taken.

f) SITE AND ACCESS AND WORKING HOURS

Clauses 16.0, 16.1 and 16.6 amended to read as follows:

“the site of the works is live school environment within which the contractor shall have restricted access to the site on being given possession to fulfill his obligations. The contractor shall be briefed on the restrictions of movement, servitudes, access control, buildings in use, security requirements and security clearances, working hours due to the site being occupied and under the employers control at all times. The contractor shall not extend his operations into any restricted or undefined areas.

The contractor shall ensure that all personnel and subcontractors engaged on the contract and those visiting the site have the necessary security clearances prior to such persons being brought on to site. Any persons found to be non-compliant shall not be allowed entry to the site. All costs associated with the verification of personnel to meet this requirement shall be borne by the contractor.

The employer shall have unrestricted and continuous access to the works due to the statutory classification of the site and its operations. This arrangement shall be coordinated and agreed upon by all parties prior to the handover of the site to the contractor. A steering committee comprising representatives of the employer, the principal agent, the contractor and any other nominated or required party shall be set up to ensure that the contractors operations are unhindered.

Work shall be carried out during normal working hours. Any extended times or approval or overtime work shall be considered and approved by the steering committee.

The contractor shall comply with the employers’ rules for the control of delivery of materials and goods into the site and for the removal of such items from the site.”

g) PAYMENT OF PRELIMINARY & GENERAL COSTS (P&G)

In the event that the contractor, due to causes of his own making, fails to achieve the targets set out in his construction programme and his performance is not in accordance with the contract, payment of the time related p&g will be paid in proportion to the value of the monthly progress payment and not in accordance with the projected cash flow for this item. The principal agent shall review the status quo and revert to paying the contractor in

accordance with the contract once the contractor has demonstrated improvement of their performance and the principal agent is satisfied that the contractor is performing diligently.

Similarly the full amount of the fixed portion of the p&g will be paid only once the successful contractor has fully complied with deliverables under this section.

h) FINAL PAYMENT

The employer shall pay to the contractor the amount certified in final payment certificate within thirty (30) calendar days of the date of issue of the payment certificate or the contractors tax invoice whichever is the later date.

i) AMBIGUITY OR DISCREPANCY

If any ambiguity or discrepancy in any of the documents forming part of the contract is found, then the contract data and or amendments herein shall prevail in cases of conflict between any of the documents.

all risks insurance - especially with the current weather conditions - we need to ensure that all contracts are insured.

SIGNATURE OF THE PARTIES

Signed at Pretoria on this the …… day of.....**2023**

AS WITNESSES:

1. _____
_____

For and on behalf of the **Employer:**

……
in his/her capacity as Acting Regional General Manager

2. _____
_____

For and on behalf of the **Employer:**

……
in his/her capacity as the Programme Manager.

Signed at Pretoria on this the …… day of.....**2023**

AS WITNESSES:

1. _____

3. _____

For and on behalf of the **Service provider:**

……
in his/her capacity as Director, who hereby confirm that he/she is duly authorised hereto.

C1.3 FORM OF GUARANTEE

C1.3 FORM OF GUARANTEE

APPOINTMENT OF A CONTRACTOR FOR THE UPGRADES AND ADDITIONS AT IKANENG HIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009

Contract No.: ……..

WHEREAS **INDEPENDENT DEVELOPMENT TRUST** (hereinafter referred to as "the Employer") entered into, a Contract with _____ (hereinafter called "the Contractor") on the_____day of _____ 20____for the construction of_____at

_____

AND WHEREAS it is provided by such Contract that the Contractor shall provide the Employer with security byway of a guarantee for the due and faithful fulfilment of such Contract by the Contractor;

AND WHEREAS

_____

has/have at the request of the Contractor, agreed to give such guarantee;

NOW THEREFORE WE,

_____

do hereby guarantee and bind ourselves jointly and severally as Guarantor and Co-principal Debtors to the Employer under renunciation of the benefits of division and excussion for the due and faithful performance by the Contractor of all the terms and conditions of the said Contract, subject to the following conditions:

1. The Employer shall, without reference and/or notice to us, have complete liberty of action to act in any manner authorized and/or contemplated by the terms of the said Contract, and/or to agree to any modifications, variations, alterations, directions or extensions of the Completion Date of the Works under the said Contract, and that its rights under this guarantee shall in no way be prejudiced nor our liability hereunder be affected by reason of any steps which the Employer may take under such Contract, or of any modification, variation, alterations of the Completion Date which the Employer may make, give, concede or agree to under the said Contract.

2. This guarantee shall be limited to the payment of a sum of money

3. The Employer shall be entitled, without reference to us, to release any guarantee held by it, and to give time to or compound or make any other arrangement with the Contractor.

4. This guarantee shall remain in full force and effect until the issue of the Certificate of Completion in terms of the Contract, unless we are advised in writing by the Employer before the issue of the said

Certificate of his intention to institute claims, and the particulars thereof, in which event this guarantee shall remain in full force and effect until all such claims have been paid or liquidated.

5. Our total liability hereunder shall not exceed the sum of (not exceeding 10% of the Contract Sum) in

_____ (R_____)

The Guarantor reserves the right to withdraw from this guarantee by depositing the Guaranteed Sum with the beneficiary, whereupon the Guarantor's liability hereunder shall cease.

We hereby choose our address for the serving of all notices for all purposes arising here from as

_____

IN WITNESS WHEREOF this guarantee has been executed by us at

_____

on this_____day of_____20_____

As witnesses:

1. _____ Signature _____

2. _____ Signature _____

Duly authorized to sign on behalf of

_____

Address _____

_____

C1.4 ADJUDICATOR'S AGREEMENT

C1.4: Adjudicator's Agreement

This agreement is made on the.....day of .....…….....……..... 20.....between the Employer

(name of company / organisation) .....

of (*address)* .....

.... and the Contractor

(name of company / organisation) .....of

(address) .....

..... (hereinafter called **the Parties**)

and

(name) .....

of (address) .....

..... (hereinafter called **the Adjudicator**

Disputes or differences may arise/have arisen* between the Parties under a Contract No .....…….....

for *(contract title)* .....
and these disputes or differences shall be/have been* referred to adjudication in accordance with the CIDB Adjudication Procedure, (hereinafter called "**the Procedure**") and the Adjudicator may be or has been requested to act.
(Delete as necessary)*

IT IS NOW AGREED as follows:

1. The rights and obligations of the Adjudicator and the Parties shall be as set out in the Procedure.

2. The Adjudicator hereby accepts the appointment and agrees to conduct the adjudication in accordance with the Procedure.

3. The Parties bind themselves jointly and severally to pay the Adjudicator's fees and expenses in accordance with the Procedure as set out in the Contract Data.

4. The Parties and the Adjudicator shall at all times maintain the confidentiality of the adjudication and shall endeavour to ensure that anyone acting on their behalf or through them will do likewise, save with the consent of the other Parties which consent shall not be unreasonably refused.

5. The Adjudicator shall inform the Parties if he intends to destroy the documents which have been sent to him in relation to the adjudication and he shall retain documents for a further period at the request of

either Party.

6. **SIGNED by**:

(Signature): .....*(Signature):* ..... *(Signature):* .....

Name:.....**Name***:*..... ***Name****:* .....

who warrants that he/ she is duly authorized to sign for and on behalf of the **First Party** in and on behalf of the presence of

who warrants that he/ she is duly authorized to sign for and on behalf of the **Second Party** presence of

the **Adjudicator** in the presence of

Witness: **Witness:** **Witness:**

(Signature): .....*(Signature):* ..... *(Signature):* .....

Name:.....**Name***:*..... ***Name****:* .....

Address: .....Address*:* ..... Address*:* .....

....

Date:..... Date:..... Date:

C1.5: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993

Refer Overleaf:

C.1.5 AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT No 85 OF 1993

THIS AGREEMENT is made between Independent Development trust represented by the Supply Chain Management.
(hereinafter called the EMPLOYER) of the one part, herein represented by:

....

in his capacity as: ..... ;

AND: ....

(hereinafter called the CONTRACTOR) of the other part, herein represented by .....

....

in his capacity as: .....

duly authorised to sign on behalf of the Contractor.

WHEREAS the CONTRACTOR is the Mandatary of the EMPLOYER in consequence of an agreement between the CONTRACTOR and the EMPLOYER in respect of:

TENDER:

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF NEW TECHNICAL WORKSHOPS TO INSERT PROJECT NAMEHIGH SCHOOL FOR THE DEPARTMENT OF EDUCATION, NORTH WEST PROVINCE.– BID NUMBER: DOE14NWER009

at INSERT PROJECT NAMEHIGH SCHOOL

AND WHEREAS **the EMPLOYER and the CONTRACTOR have agreed to enter into an agreement in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act No 85 of 1993, as amended by OHSA Amendment Act No 181/1993 (hereinafter referred to as the ACT);**

NOW THEREFORE the parties agree as follows:

1. **The CONTRACTOR undertakes to acquaint the appropriate officials and employees of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof.**

2. The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such arrangements and procedures.

3. The CONTRACTOR hereby accepts sole liability for such due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures, if any, imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the EMPLOYER and the Employer's CONSULTING ENGINEERS from being obliged to comply with any of the aforesaid duties, obligations, prohibitions, arrangements and procedures in respect of the work included in the contract.

4. The CONTRACTOR agrees that any duly authorised officials of the EMPLOYER shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the CONTRACTOR has complied with his undertakings as more fully set out in paragraphs 1 and 2

above, which steps may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by the CONTRACTOR, or to take such steps the EMPLOYER may deem necessary to remedy the default of the CONTRACTOR at the cost of the CONTRACTOR.

5. The CONTRACTOR shall be obliged to report forthwith to the EMPLOYER any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the ACT and Regulations, pursuant to work performed in terms of this agreement, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

Thus signed at ..... for and on behalf of the **CONTRACTOR**

on this the …… day of ……..……..…… 20……

SIGNATURE: .....

NAME AND SURNAME: .....

CAPACITY: .....

WITNESSES: 1. .....

2. .....

Thus signed at .....for and on behalf of the **EMPLOYER** on this

the …….. day of ……..…… 20……

SIGNATURE: .....

NAME AND SURNAME: .....

CAPACITY: .....

WITNESSES: 1. .....

2. .....

C1.6 Waiver of Lien

Refer Overleaf:

Waiver of Contractor's Lien

for use with the JBCC Principal Building

or JBCC Minor Works Agreements

DEFINITIONS

Contractor_____

Employer_____

Agreement_____
(Principal Building Agreement or Minor Works Agreement)

Works *(description)*_____

Site

_____
(property title deed description)

AGREEMENT

The Contractor waives, in favour of the Employer, any lien or right of retention that is or may be held in respect of the Works to be executed on the Site

This waiver shall only come into effect on provision by the Employer of a Payment Guarantee for fulfilment of his obligations in terms of the identified Agreement

Thus done and signed at_____on

_____ _____
Name of signatory Capacity of signatory

_____ _____
As witness For and on behalf of the Contractor who by signature hereof warrants authorisation hereto

C2: PRICING DATA

C2.1 PRICING INSTRUCTIONS

C2: PRICING DATA

C2.1 Pricing Instructions

1 The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work (as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised)), 1999. Where applicable the:

a) Civil engineering work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardized Specifications for Civil Engineering Works.
b) Mechanical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Refrigeration, Air-Conditioning and Ventilation Installations, published by the South African Association of Quantity Surveyors, March 1990).
c) electrical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Electrical Work, published by the South African Association of Quantity Surveyors, (March, 2005).

2 The agreement is based on the JBCC Series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, **(Edition 6.2 Reprint May 2018) as amended in the IDT's SPECIAL CONDITIONS OF PRINCIPAL CONTRACT**. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables areas stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.

3 Preliminary and general requirements are based on the various parts of the JBCC Series 2000 Preliminaries as prepared by the Joint Building Contracts Committee, **(Edition 6.2 Reprint May 2018) as amended in the IDT's SPECIAL CONDITIONS OF PRINCIPAL CONTRACT**. The additions, deletions and alterations to the various parts of the JBCC Series 2000 Preliminaries as well as the contract specific variables are as stated in the Specification Data in the Scope of Work. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.

4 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. (Refer to www.stanza.org.za or www.iso.org for information on standards).

5 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.

6 The drawings listed in the Scope of Works used for the setting up of these Bills of Quantities are kept by the quantity surveyor and can be viewed at any time during office hours up until the completion of the works.

7 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.

8 The rates contained in the Bills of Quantities will apply irrespective of the final quantities of the different classes and kinds of work actually executed.

9 Rates for work of similar description occurring in different sections of the Bills of Quantities shall be identical.

10 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.

11 Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")

12 The Contract Data and the standard form of contract referenced therein must be studied for the fullextent and meaning of each and every clause set out in Section 1 (Preliminary and General) ofthe Bills of Quantities

13 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.

14 The amount of the Preliminary and General Section to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminary and General Section and any amount in respect of contract price adjustment provided for in the contract.

15 Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 14 but taking into account the revised period for completing the works.

16 The amount or items of the Preliminary and General Section shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:

a) an amount which is not to be varied, namely Fixed (F)
b) an amount which is to be varied in proportion to the contract value, namely Value Related (V); and
c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period excluding revisions to the construction period for which no adjustment to the contractor is not entitled to in terms of the contract, namely Time Related (T).

17 Where no provision is made in the Bills of Quantities to indicate which of the three categories in 12 apply or where no selection is made, the adjustments shall be based on the following breakdown:

a) 10 percent is Fixed;
b) 15 percent if Value Related
c) 75 percent is Time Related.

18 The adjustment of the Preliminary and General Section shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminary and General Section shall exclude any contingency sum, the amount

for the Preliminary and General Section and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.

19 Payment for items, which are designated to be constructed under labour-intensively, will not be made unless they are constructed using labor-intensive methods. Any unauthorized use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

20 The tenderer is to acquaint himself as to the specific requirements of this tender as contained in additional. clauses A1 to A6 to the JBCC Principal Agreement as incorporated in the Contract Data. These clauses may be priced under the relevant Preliminaries items in SECTION C: SPECIFIC PRELIMINARIES of the Preliminaries Bill. No claim will be entertained due to the failure of the tenderer to allow for these requirements

21 The contractor shall determine the contract skills participation goals, expressed in Rand, which shall not be less than the contract amount multiplied by a percentage factor given in Table 2 in the Standard for the applicable class of construction works. This is indicated by the percentage factor in the Final Tender Summary section. Minimum Contract Skills Development Goal (CSDG) sum = General Building GB (0.50%) x Subtotal of the tender amount

Table 2: Contract skills development goals for different classes of engineering and construction works contracts

Class of construction works as identified in terms of Regulation 25(3) of the Construction Industry Regulations 2004		Construction skills development goal (CSDG) (%)
Designation	Description	
CE	Civil engineering	0.25
CE and GB	Civil engineering and General Building	0.375
EE	Electrical Engineering works (buildings)	0.25
EP	Electrical Engineering works (Infrastructure)	0.25
GB	General Building	0.5
ME	Mechanical Engineering works	0.25
SB	Specialist	0.25

Example 1: The contract amount for an engineering and construction works contract in the GB class of construction works is R65,7m. The contract skills development goal in Rands is R65,7m x 0.5% = R328 500.

22 The Employer shall determine the amount to be paid to the Enterprise Development Co-Ordinator for the Contract Participation Goal (CPG) on the contract and this amount shall be stated under the section Enterprise Development as a Provisional Sum in the Preliminaries and Generals (P&G's).

The contractor shall be paid as follows: These are recommended rates, client may change depending on the location of the project, complexity etc.). These rates must be stated by the client in the P&Gs so that all tenderers have the same rate and not result in a tenderer being disadvantaged.

Needs analysis and enterprise development plan per Targeted Enterprise – R5 000.00 (Ten thousand rands) per targeted enterprise.

Mentoring and interim reporting per Targeted Enterprise - R20 000.00 (twenty thousand rands) per quarter; and

Project completion report per Targeted Enterprise - R5 000.00 (five thousand rands) per targeted enterprise.

23 Provisional sums are provided for some items in the Schedule of Quantities. Work done under these items will be at the written direction of the Employer. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

24 The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted in the “Amount” column of the Bill of Quantities and in the Summary of the Bill of Quantities unless ordered or authorized in writing by the Employer before closure of tenders. Any authorized changes made by the Tenderer to provisional items in the schedule, or to the provisional percentages and sums in the Summary of the Bill of Quantities, will be treated as arithmetical errors.

25 **Payment to the contractor to accommodate Part/Full Occupational qualification and Tradequalifications**

The employer shall include the following statement in the pricing assumptions:
The contractor shall apportion the learners in the different construction activities based on the scope of work.
The cost of accommodating learners will be determined by using Table 3 in theStandard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill ofQuantities/Pricing schedules/Activity schedule.

26 **Payment to the contractor for supervision and mentoring Part/Full Occupational qualification and Trade qualifications learners**

The employer shall make no provision for an additional payment item for the payment of the supervisor and/or mentors for the provision of training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule for the training of part/full time occupational learners and/or trade qualification learners.

C2.2 BILL OF QUANTITIES

Item No		Quantity	Rate	Amount	
	SECTION NO. 1 **BILL NO. 1** **PRELIMINARIES AND GENERAL** **MEANING OF TERMS "TENDER/TENDERER'** Any reference to the words “Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder" **BUILDING AGREEMENT AND PRELIMINARIES** The **JBCC** Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described The **JBCC** Principal Building Agreement **contract data for organs of state and other public sector bodies** form an integral part of this **agreement** The **JBCC** General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the **JBCC** Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these **bills of quantities/** lump sum document, amended as hereinafter described The **contractor** is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only Where any item is not relevant to this **agreement** such item is marked N/A signifying "not applicable"				
	Carried Forward		R		

	Brought Forward			R	
	Where standard clauses or alternatives are not entirely applicable to this **agreement** such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents				
	TENDERER'S SELECTIONS				
	Before submission of his tender the **contractor** is to complete the tenderer's selections in the **contract data for organs of state and other public sector bodies**				
	STRUCTURE OF THIS PRELIMINARIES BILL				
	Section A : A recital of the headings of the individual clauses in the aforementioned **JBCC** Principal Building Agreement				
	Section B: A recital of the headings of the individual clauses in the aforementioned **JBCC** General Preliminaries				
	Section C : Any special clauses to meet the particular circumstances of the project				
	PRICING OF PRELIMINARIES				
	Should the **contractor** select Option A in the **contract data for organs of state and other public sector bodies** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)				
	Carried Forward			R	

	Brought Forward		R	

PRICING OF BILLS OF QUANTITIES

The **contractor** is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this **agreement**.

Items left unpriced will be deemed to be covered in prices against other items throughout these **bills of quantities** and no claim for any extras arising out of the **contractor's** omission to price any item will be entertained

Prices for all **construction equipment**, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

VALUE ADDED TAX

Provision is made in the summary page of these **bills of quantities** / lump sum document for the inclusion of Value Added Tax (VAT)

	Carried Forward		R	

	Brought Forward		R	
	SECTION A: PRINCIPAL BUILDING AGREEMENT			
	INTERPRETATION			
1	**A1.0 DEFINITIONS AND INTERPRETATION**			
	Clause 1.0			
	The following definitions replace corresponding definitions or are added to the definitions in the JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018), whatever the case may be			
	ADVERSE WEATHER CONDITIONS: Adverse weather and inclement weather has the same meaning and used interchangeably and means any weather conditions i.e.: Rain, wind, snow, frost, temperature (cold or heat) that are not in the norm for the area where the construction takes place and during which no work is possible on site			
	AGREEMENT: The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representative or representatives of the parties			
	CONSTRUCTION PERIOD: The period commencing on the date of possession of the **site** by the **contractor** and ending on the date of **practical completion**			
	CONTRACT PERIOD: The period commencing on the date of the letter of acceptance and ending on the date of final completion			
	COST FLUCTUATION shall mean contract price adjustment provision (CPAP) for the adjustment of fluctuation in the cost of labour, plant, material and goods as stated in the schedule			
	DEFAULT INTEREST: No Clause			
	GUARANTEE FOR CONSTRUCTION: A security in terms of the DPWI's Guarantee for Construction form/s, obtained by the contractor from an institution approved by the employer [CD]			
	Carried Forward		R	

	Brought Forward		R	
	INTEREST: The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) as amended, calculated as simple interest, in respect of debts owing to the State, and will be the rate as published by the Minister of Justice and Correctional Services from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975) as amended, calculated as simple interest, in respect of debts owing by the State **LETTER OF ACCEPTANCE**: The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer **PAYMENT CERTIFICATE**: A certificate issued at regular agreed intervals [CD] by the principal agent to the parties certifying the amount due and payable in terms of Clause 25.3 **PRINCIPAL AGENT:** The person or entity appointed by the **employer** and named in the **contract data for organs of state and other public sector bodies.** In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by the employer's representative as named in the **contract data for organs of state and other public sector bodies** **TARGETED SUBCONTRACTORS:** Subcontractors that must be appointed to a total of 30% or more of the contract sum, by the contractor, projects with a contract sum of the amount determined by the Minister in terms of the latest Preferential Procurement regulations, as may be amended from time to time F:..... V:..... T:.....	Item		
2	**A2.0 - LAW, REGULATIONS AND NOTICES** F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
3	**A3.0 OFFER AND ACCEPTANCE** **Replace Clause 3.3 with the following:** This **agreement** shall come into force on the date of **letter of acceptance** and continue to be of force and effect until the end of the **latent defects** liability period [22.0] notwithstanding termination [29.0] or the certification of **final completion** [21.0] and final payment [25.0] F:..... V:..... T:.....	Item		
4	**A4.0 CESSION AND ASSIGNMENT** Ref Clause 6.7 [CD] - Clause 4.2 **Replace Clause 4.3 with the following:** Where a **contractor** cedes any right or any monies due to or to become due under this **agreement** as security in favour of a financial institution, the prior written consent of the **employer,** which consent shall not be unreasonably withheld, must be obtained F:..... V:..... T:.....	Item		
5	**A5.0 DOCUMENTS** **Replace last sentence of Clause 5.2 with the following**: The original signed **agreement** shall be held by the **Employer** **Replace Clause 5.4 with the following**: The Bills of Quantities shall not be used as a specification of material and goods or methods unless so instructed by the Principal Agent. The contractor may not use the Bills of Quantities for purpose of ordering material. All dimensions and quantities must be determined on site before ordering. In the event of discrepancy between the drawings and Bills of Quantity, the drawings shall take preference			
	Carried Forward		R	

	Brought Forward			R	
	Replace Clause 5.5 with the following: The parties may publish or disclose on any platform only the contract scope and contract amount F:..... V:..... T:.....		Item		
6	**A6.0 EMPLOYER'S AGENTS** **Replace Clause 6.5 with the following:** Where the principal agent and/or an agent fails to act or is unable to act or ceases to be the principal agent or an agent in terms of this agreement, the employer shall appoint another principal agent and/or an agent **Add the following as Clause 6.7**: In terms of the clauses listed hereunder, the employer has retained its authority and has not given a mandate to the principal agent, notwithstanding other provisions in the contract. The employer shall sign all documents in relation to clauses 4.2, 14.1.4, 14.4.1, 14.6, 15.1.4, 15.4.1, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 F:..... V:..... T:.....		Item		
7	**A7.0 DESIGN RESPONSIBILITY** Clause 7.0 - Design responsibility **Replace first sentence of Clause 7.2 with the following:** Any design responsibility undertaken by a subcontractor shall not devolve on the contractor except for items that require specific component design and or compatibility design and or shop drawings and or the assembly thereof F:..... V:..... T:.....		Item		
	Carried Forward			R	

	Brought Forward		R	
8	**A8.0 WORKS RISK** Clause 8.0 - **Works** risk **Replace Clause 8.4 with the following:** The **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary F:..... V:..... T:.....	Item		
9	**A9.0 INDEMNITIES** Clause 9.0 **Add the following to the end of the first sentence of Clause 9.2.7:** "…. due to no fault of the **contractor** 9.2.9 No Clause 9.2.10 No Clause **Add the following as clause 9.3:** The employer's rights to claim damages for the contractor's omissions and actions will not be affected. F:..... V:..... T:.....	Item		
10	**A10.0 INSURANCES** **Replace Clause 10.1 with the following:** The party responsible shall effect and keep the respective insurances [CD] in force, in favour of the employer as beneficiary , from the date of possession of the site until the issue of the certificate of practical completion and with an extension to cover the contractors obligations after the date of practical completion [8.2.2]			
	Carried Forward		R	

	Brought Forward			R	
	Add the following as Clause 10.1.5.1: **Hi Risk Insurance** In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply **Add the following as Clause 10.1.5.1.1 Damage to the works** The contractor shall, from the date of possession of the **site** until the date of the **certificate of practical completion**, bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **contractor's** own costs **10.1.5.1.2 Injury to persons or loss of or damage to property** The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the **site,** whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract				
	Carried Forward			R	

	Brought Forward			R	
	10.1.5.1.3 Replace Clause with the following: It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days of the date of letter of acceptance**, but before commencement of the **works**, submit to the **employer** proof of such insurance policy. **10.1.5.1.4 Replace Clause with the following:** The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole **10.2 Replace Clause with the following:** Where practical completion in sections is required [20.0), or where the works is for alterations and additions, the contractor shall effect and keep in force contract works insurance [10.1.1], supplementary insurance [10.1.2], public liability insurance [10.1.3] and where applicable, removal of lateral support insurance [10.1.4] and other insurances [10.1.5) in favour of the employer as beneficiary 10.6 No Clause **Add the following as Clause 10.11** In the event that an insurer dispute the amount of the claim to be paid to the employer, the contractor shall be liable to the employer for the difference between the claim (as determined by the employers QS appointed on the project) made by the employer and the amount that the insurer is willing to pay F:..... V:..... T:.....		Item		
	Carried Forward			R	

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11	**A11.0 SECURITIES**			
	Add the following as to the relevant related Clauses as follows:			
	Add the following to Clause 11.1:			
	In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT).			
	In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of C 1.0 Securities, as stated in the schedule. Such security shall be provided to the employer within fifteen (15) working days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within fifteen (15) working days from commencement date, the security in terms of C 1.0 Option C shall be deemed to have been selected.			
	The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5			
	11.1.1 No Clause			
	11.1.2 No Clause			
	11.2.2 No Clause			
	11.3 No Clause			
	Replace Clause 11.4.1 with the following:			
	Hand over the site to the contractor and withhold an amount equal to ten per cent (10%) of each interim payment certificate until practical completion is achieved. The value certified shall be subject to the adjustments in terms of 25.12.6 to 25.12.10.			
	11.5 No Clause			
	11.6 No Clause			
	11.7 No Clause			
	Carried Forward		R	

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	11.8 No Clause				
	11.9 No Clause				
	11.10 No Clause **Add the following as Clause 11.11:** Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:				
	Add the following as Clause 11.11.1: The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to furnish the employer with a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.				
	Add the following as Clause 11.11.2: The employer shall be entitled to recover expense and loss from the cash deposit in terms of Clause 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.				
	Add the following as Clause 11.11.3: Within fifteen (15) working days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT) and refund the balance to the contractor				
	Add the following as Clause 11.11.4: Within fifteen (15) working days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor.				
	Add the following as Clause 11.11.5: On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor.				
	Add the following as Clause 11.11.6: The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party.				
	Carried Forward		R		

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	Add the following as Clause 11.12: Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:				
	Add the following as Clause 11.12.1: The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within fifteen (15) working days after issuance of the letter of acceptance. Failure to submit an acceptable variable construction guarantee within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.				
	Add the following as Clause 11.12.2: The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender.				
	Add the following as Clause 11.12.3: The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring.				
	Add the following as Clause 11.12.4: Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall issue a written demand in terms of the variable construction guarantee.				
	Add the following as Clause 11.13: Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:				
	Add the following as Clause 11.13.1: The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT).				
	Add the following as Clause 11.13.2: The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion.				
	Add the following as Clause 11.13.3: The employer shall return the fixed construction				
	Carried Forward			R	

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	guarantee to the contractor within fourteen (14) calendar days of it expiring. **Add the following as Clause 11.13.4:** The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5. **Add the following as Clause 11.13.5:** Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or from both. **Add the following as Clause 11.14.1:** Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected: **Add the following as Clause 11.14.2:** The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to submit a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis. **Add the following as Clause 11.14.3:** Within fifteen (15) working days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor. **Add the following as Clause 11.14.4:** The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5. **Add the following as Clause 11.14.5:** Where the employer has a right of recovery against the contractor in terms of 27, the employer may recover from the payment reduction or cash deposit or from both. **Add the following as Clause 11.15:** Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected.				
	Carried Forward			R	

	Brought Forward			R	
	Add the following as Clause 11.15.1: The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.6 to 25.12.10. **Add the following as Clause 11.15.2:** The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor. **Add the following as Clause 11.16:** Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement. **Add the following as Clause 11.17:** Should the contractor fail to furnish the security in terms of 11.2 the employer, in his sole discretion, and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT). F:..... V:..... T:.....		Item		
	EXECUTION				
12	**A12.0 OBLIGATIONS OF THE PARTIES**				
	Clause 12.0 12.1.1 No Clause **Replace Clause 12.1.5 with the following:** Give possession of the site to the contractor within ten (10) working days after approval of the Health and Safety Plan or the issue of a construction permit by the Department of Labour, if applicable, after the contractor complied with the terms of 12.2.22 12.1.6 No Clause 12.1.8 No Clause				
	Carried Forward			R	

	Brought Forward			R	
	Replace Clause 12.2.2 with the following: The priced Bills must be submitted to the Employer within fourteen (14) calendar days from date of request. Where the priced document contains errors or discrepancies and/or prices considered by the employer or principal agent to be imbalanced or unreasonable the employer or principal agent and the contractor shall adjust such prices without any change to the contract sum				
	Replace Clause 12.2.5 with the following : Effect and keep in force insurances in favour of the employer as beneficiary where the contractor is responsible for providing insurances [10.0) [CD]				
	Replace Clause 12.2.13 with the following: Designate a competent person full time on site to continuously administer and control the works on site and to receive and implement notices and contract instructions on behalf of the contractor				
	Add the following as Clause 12.2.22: Within fourteen (14) working days of the date of the letter of acceptance submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)				
	Add the following as Clause 12.2.23: The contractor shall within reasonable time inform the agents regarding inspection of the works before covering / closing [B 12.0]				
	Offices The **contractor** shall provide, maintain and remove on completion of the **works** an office for the exclusive use of the **principal agent**, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times [12.2.18]				
	F:..... V:.....T:.....		Item		
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	Main notice board The **contractor** shall provide, erect where directed, maintain and remove on completion of the **works** a notice board size 3 x 3m as per the Principal Agent guidance, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering [12.2.18] F:..... V:.....T:.....		Item		
13	**A13.0 SETTING OUT** F:..... V:..... T:.....		Item		
14	**A14.0 NOMINATED SUBCONTRACTORS** Clause 14.0 Ref Clause 6.7 [CD] - Clause 14.1.4 14.1.5 No Clause Replace “principal agent ” with “employer” [6.7 [CD]] in Clause 14.4.1 Ref Clause 6.7 [CD] - Clause 14.6 F:..... V:..... T:.....		Item		
	Carried Forward			R	

			R	
	Brought Forward			
15	**A15.0 SELECTED SUBCONTRACTORS** Clause 15.0 Ref Clause 6.7 [CD] - Clause 15.1.4 & Clause 15.5 15.1.5 No Clause **Replace Clause 15.1.2 with the following:** The principal agent shall call for tenders from a list of tenderers agreed between the contractor and the employer Replace "principal agent " with "employer" [6.7 [CD]] in Clause 15.4.1 F:..... V:..... T:.....	Item		
16	**A16.0 DIRECT CONTRACTORS** F:..... V:..... T:.....	Item		
17	A17.0 **CONTRACT INSTRUCTIONS** **Replace Clause 17.4 with the following:** The contractor shall comply with and duly execute all contract instructions except any contract instruction for additional work issued after the date of practical completion other than making good physical loss and repairing damage to the works in terms of 8.0 and 21 **Add the following clause as Clause 17.6:** Minutes of meetings shall not constitute a site instruction unless reduced to a written contract instruction issued by the principal agent in terms of this contract / agreement. F:..... V:..... T:.....	Item		
	<u>COMPLETION</u>			
18	**A18.0 INTERIM COMPLETION** F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
19	**A19.0 PRACTICAL COMPLETION**			
	Replace Clause 19.5 with the following: On issue of the only or last certificate of practical completion the employer shall be entitled to possession of the works and the site. On issue of the certificate of practical completion for a section, the employer shall be entitled to possession of such section			
	Add the following as Clause 19.8: **WORKS COMPLETION** (1) Within seven (7) calendar days of the date of practical completion the principal agent shall issue to the contractor a works completion list defining the outstanding work and defects apparent at the date of practical completion to be completed or rectified to achieve works completion.			
	(2) Where, in the opinion of the contractor, the works completion list has been completed the contractor shall notify the principal agent who shall inspect within seven (7) calendar days of receipt of such a notice. Where, in the opinion of the principal agent, the Works Completion list:			
	(2)(a) Has been satisfactorily completed, the principal agent shall forthwith issue a certificate of Works Completion to the contractor with a copy to the employer			
	(2)(b) Has not been satisfactorily completed, the principal agent shall forthwith identify the works completion list items that are not yet complete and inform the contractor thereof. The contractor shall repeat the procedure in terms of 19.8(2)			
	(3) Should the principal agent not issue a works completion list, in terms of 19.8 (1) or 19.8 (2)(b), within seven (7) calendar days from the end of the inspection period, the contractor shall notify the employer and principal agent. Should the principal agent not issue such Works Completion list within seven (7) calendar days of receipt of such notice, the employer may within seven (7) calendar days issue to the contractor a Works Completion list. Should the employer:			
	(3)(a) Not issue such works completion list within			
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	seven (7) calendar days, then the certificate of Works Completion shall be deemed to have been issued on the date of expiry of the initial notice period and works completion shall be deemed to have been achieved on such date (3b) Issue a works completion list and the work on Works Completion list not have been completed or where further defects have become apparent, the employer shall forthwith identify such items on the updated works completion list and notify the contractor. The contractor shall repeat the procedure in terms of 19.8(2)(b) until such items have been completed to the satisfaction of the employer (4) Should the works completion list not be completed to the satisfaction of the employer within a period of twenty one (21) working days of the issue first works completion list the contractor shall be liable to a daily penalty as described in B12.0 (5) The defects liability period in terms of 21.1 shall commence with the issue or deemed issue of the certificate of Works Completion in terms of 19.8(2)(a) or 19.8(3) F:..... V:..... T:.....		Item		
20	**A20.0 COMPLETION IN SECTIONS** **Add the following as Clause 20.2.1.A** A certificate of Works Completion [19.8] F:..... V:..... T:.....		Item		
21	**A21.0 DEFECTS LIABILITY PERIOD AND FINAL COMPLETION** **Replace Clause 21.1 with the following:** The defects liability period for the works shall commence on the calendar day following the date of works completion and end at midnight (00:00) ninety (90) calendar days from the date of works completion [CD] or when work on the list for completion has been satisfactorily attended to [21.6), whichever is the later (if				
	Carried Forward			R	

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	we use works completion) **Replace Clause 21.6 with the following:** On the expiry of the ninety (90) calendar days defects liability period [21.1] for items not indicated as items with an extended liability as indicated in B14 and on receipt of the contractor's notice to the principal agent And/or On the expiry of the defects liability period as indicated in B14, for items indicated in B14 and on receipt of the contractor's notice to the principal agent, the principal agent shall: (1) inspect the works And within ten (10) working days either issue a list for final completion detailing all outstanding work or defects that must be attended to, or rectified to achieve final completion or (2) issue the certificate of final completion to the contractor with a copy to the employer for that part of the works where defects liability period has expired 21.6.1 Omit Clause 21.6.2 Omit Clause **Add the following as Clause 21.13:** The ninety (90) calendar days defects liability period for the works [21.1] is replaced with an extended defects liability period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements in B14 **Add the following as Clause 21.14:** Penalties will be applied if the items on the completion list have not been attended to within a period of ninety (90) calendar days [21.1]. If additional defect items have being added to the list during this period, then the Principal Agent and Contractor will agree on a revised completion date. Failing in achieving the revised date will result in penalties being applied.[B12.0] F:..... V:..... T:.....		Item		
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22	**A22.0 LATENT DEFECTS LIABILITY PERIOD** F:..... V:..... T:.....		Item		
23	**A23.0 REVISION OF THE DATE FOR PRACTICAL COMPLETION** Clause 23.0 Ref Clause 6.7 [CD] – Clause 23.1 Ref Clause 6.7 [CD] – Clause 23.2 23.2.13 No Clause **Replace Clause 23.3 with the following:** Further circumstances that delays practical completion due to any other cause beyond the contractor's reasonable control that could not have reasonably been anticipated and provided for which the contractor may be entitled to a revision of the date for practical completion, with or without an adjustment of the contract value as determined by the Employer [6.7 CD] Ref Clause 6.7 [CD] - Clause 23.7 Ref Clause 6.7 [CD] - Clause 23.8 F:..... V:..... T:.....		Item		
24	**A24.0 PENALTY FOR LATE OR NON-COMPLETION** **Replace Clause 24.1 with the following:** Where the contractor fails to bring the works, or a section thereof, to practical-, works-, or final- completion by the applicable completion date [CD], or the revised applicable completion date, the contractor shall be liable to the employer for the penalty [CD] Intended date of practical completion and penalty per calender day for the works as whole: **R 9 975.00** Contract duration: 18 months including national builder's break				
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	Replace Clause 24.2 with the following: Where the employer elects to levy such penalty the employer, or the principal agent on instruction from the employer, shall give notice thereof to the contractor. The principal agent shall determine the penalty due from the later of the date for practical- works-, or final- completion [CD], or the revised date for practical- works-, or final-completion, up to and including the earlier of:				
	Replace Clause 24.2.1 with the following: The actual or deemed date of practical- works-, or final-completion, of the works, or a section thereof [23.7.1]				
	F:..... V:..... T:.....		Item		
	PAYMENT				
25	**A25.0 PAYMENT**				
	Replace Clause 25.2 with the following: The principal agent shall issue at regular agreed intervals [CD] payment certificates, to the contractor with a copy to the employer, up to and including practical completion. Interim Payment certificates may be issued to the contractor between practical completion and the final payment certificate. A payment certificate may be for a nil or negative amount				
	Replace Clause 25.3 with the following:				
	Add the following to Clause 25.3:				
	25.3.12 Monthly Local content report,				
	25.3.13 EPWP / NYS payment register, labour reports and certified ID document of EPWP/ NYS beneficiaries, Contract between Contractor and EPWP/ NYS beneficiaries, attendance register. (if applicable)				
	25.3.14 Tax Invoice				
	25.3.15 Labour intensive report				
	25.3.16 Contract participation goal reports				
	25.5 No Clause				
	Replace Clause 25.6 with the following: Materials and goods will only be certified and paid for				
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	upon providing proof of full payment to the supplier and proof of transfer of ownership from the supplier to the contractor by the contractor. Once paid, material and goods shall become the property of the employer and shall not be removed from site without the written authority of the Employer. 25.7.5 No clause. **Replace Clause 25.10 with the following:** The employer shall pay the contractor the amount stipulated in an issued payment certificate, correct in all material respects, within thirty (30) calendar days from the date of receiving the payment certificate, invoice and all other substantiating documentation for items certified in the payment certificate **Replace Clause 25.3.4 with the following:** The Contract Price Adjustment will only be applicable/applied to **works** executed after 12 months of the construction duration. **Replace Clauses 25.12 to 25.12.3 with the following:** The value certified shall be subject to the following percentage adjustments : **(Clauses 25.12.1 to 25.12.5 shall be applicable to a contract sum up to R1 million. In the event of a contract sum more than R1 million for Options D & E (C 1.0 Securities [11.0])** **Clauses 25.12.1 to 25.12.5 shall be applicable)** 25.12.1 Where a security is selected in terms of C 1.0 Securities [11.0], the value of the works in terms of 25.1 and of the materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 25.12.2 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion 25.12.3 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion 25.12.4 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date				
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	of final completion and up to but excluding the final payment certificate in terms of 26				
	25.12.5 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate.				
	(Clauses 25.12.6 to 25.12.10 shall be applicable to a contract sum more than R1 million for Option C (C 1.0 Securities [11.0])				
	25.12.6 Where security is a payment reduction in term of C 1.0 Option C, value of the works in terms of 25.1 and materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:				
	25.12.7 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion				
	25.12.8 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion				
	25.12.9 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 26				
	25.12.10 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except were the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate				
	F:..... V:..... T:.....		Item		
	Carried Forward			R	

Section No. 1
PRELIMINARIES
Bill No. 1
Preliminaries and General

	Brought Forward		R	
26	**A26.0 ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT** Ref Clause 6.7 [CD] – Clause 26.1 Omit Clause 26.4.3 Ref Clause 6.7 [CD] – Clause 26.7 **Replace Clause 26.10 with the following:** The principal agent shall prepare the final account in consultation with the employer and issue the final account, to the contractor within sixty (60) working days of the date of practical completion Ref Clause 6.7 [CD] – Clause 26.12 F:..... V:..... T:.....	Item		
27	**A27.0 RECOVERY OF EXPENSE AND/OR LOSS** **Replace Clause 27.1.2 with the following:** Interest due to late payment only **Replace Clause 27.1.4 with the following:** Interest due to late payment only 27.1.5 No Clause **Replace Clause 27.5 with the following:** Where the employer decides to recover an amount due in terms of 27.2 from a construction guarantee, cash deposit or retention money held as security, the employer shall issue a written demand to the contractor before recovering the amount. Should such amount not be paid to the employer within fourteen (14) calendar days of the date-of notice by the employer, the employer may recover such an amount from the security			
	Carried Forward		R	

	Brought Forward			R	
28	**Add the following as Clause 27.6:** Where a provisional sequestration or provisional liquidation order has been granted or where an order has been granted which commences sequestration, liquidation, bankruptcy, receivership, winding-up or any similar effect, against the contractor or this agreement is cancelled in terms of 29, the employer may issue a demand to the guarantor in terms of the construction guarantee or advance payment guarantee held as security F:..... V:..... T:.....		Item		
	SUSPENSION AND TERMINATION				
29	**A28.0 SUSPENSION BY THE CONTRACTOR** 28 No Clause 28.1 No Clause 28.1.1 No Clause 28.1.2 No Clause 28.1.3 No Clause 28.1.4 No Clause 28.1.5 No Clause 28.2 No Clause 28.3 No Clause 28.4 No Clause F:..... V:..... T:.....		Item		
30	**A29.0 TERMINATION** **Add the following as Clause 29.1.4:** The contractor's estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa **Add the following as Clause 29.1.5:** The contractor has engaged in corrupt or fraudulent practices in competing for or in executing the contract **Add the following as Clause 29.1.6:** Honour his obligations in terms of Clauses 10.1.5.1.3, 11.4.1 and 12.2. sub Clauses 5, 6, 8, 9, 10, 11, 12, 13, 15, 16, 19, 20, 22.				
	Carried Forward			R	

	Brought Forward		R		
	Replace Clause 29.7 with the following: The employer, on notice to the contractor, may recover damages from the contractor from the date of termination including, but not limited to, additional costs incurred in the completion, consultant cost, rental of alternative accommodation, invitation of completion tenders, salaries of officials and safeguarding the site, of the remaining work [25.3.7; 27.1.3]				
	Replace Clause 29.9 with the following: The employer has the right of recovery against the contractor, where applicable, [CD] from: The guarantee for construction (variable) until the final payment has been made; or The guarantee for construction (fixed) until the date of practical completion; or The payment reduction until the final payment is made; or The cash deposit made as security until the final payment is made 29.14.1 No Clause 29.14.3 No Clause 29.14.4 No Clause 29.14.5 No Clause 29.14.6 No Clause 29.14.7 No Clause 29.15 No Clause 29.16 No Clause 29.17.3 No Clause 29.17.6 No Clause 29.21.5 No Clause				
	Carried Forward		R		

	Brought Forward			R	
	29.22 No Clause				
	29.23 No Clause				
	29.25.3 No Clause				
	29.25.4 No Clause 29.27 No Clause				
	F:..... V:..... T:.....		Item		
	DISPUTE RESOLUTION				
31	**A30.0 DISPUTE RESOLUTION**				
	Replace Clause 30.2 with the following: Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be submitted to Mediation as a first method of dispute resolution failing which the parties will resort to Litigation				
	30.3 to 30.7.7 No Clauses				
	Replace Clause 30.8 with the following: The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event:				
	Replace Clause 30.2 with the following: Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be submitted to Mediation as a first method of dispute resolution failing which the parties will resort to Litigation				
	30.3 to 30.7.7 No Clauses				
	Replace Clause 30.8 with the following: The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event:				
	Carried Forward			R	

	Brought Forward		R	
	30.8.1 No Clause			
	Replace Clause 30.8.2 with the following: The appointment of a mediator, the procedure, and the status of the outcome shall be agreed between the parties			
	Replace Clause 30.8.3 with the following: Regardless of the outcome of a mediation the parties shall bear their own costs concerning the Mediation and equally share the costs of the mediator and related expenses			
	Replace Clause 30.9 with the following: Institution of Litigation shall be commenced and process served within three (3) year from the date of existence of the dispute, failing which the dispute shall lapse			
	30.10 No Clause			
	30.12 No Clause			
	F:..... V:..... T:.....	Item		
	SECTION B: GENERAL PRELIMINARIES			
	Definitions and interpretation (B1)			
32	Clause 1.1 - Definitions			
	F:..... V:..... T:.....	Item		
33	Clause 1.2 - Interpretation			
	F:..... V:..... T:.....	Item		
	Documents (B2)			
34	Clause 2.1 - Checking of documents			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
35	Clause 2.2 - **Provisional bills of quantities**			
	F:..... V:..... T:.....	Item		**N/A**
36	Clause 2.3 - Availability of **construction information**			
	F:..... V:..... T:.....	Item		
37	Clause 2.4 - Ordering of **materials and goods**			
	F:..... V:..... T:.....	Item		
	Previous work and adjoining properties (B3)			
38	Clause 3.1 - Previous work - dimensional accuracy			
	F:..... V:..... T:.....	Item		
39	Clause 3.2 - Previous work - **defects**			
	F:..... V:..... T:.....	Item		
40	Clause 3.3 - Inspection of adjoining properties			
	F:..... V:..... T:.....	Item		
	The site (B4)			
41	Clause 4.1 - Handover of **site** in stages			
	F:..... V:..... T:.....	Item		
42	Clause 4.2 - Enclosure of the **works**			
	F:..... V:..... T:.....	Item		
43	Clause 4.3 - Geotechnical and other investigations			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
44	Clause 4.4 - Encroachments F:..... V:..... T:.....	Item		
45	Clause 4.5 - Existing premises occupied The **contractor** is to ensure that all **works** to existing buildings or blocks must be planned or programmed during school holidays, weekends, and/or after alternative accommodation is provided so that schools' activities are not disrupted by the **works**. F:..... V:..... T:.....	Item		
46	Clause 4.6 - Services - known F:..... V:..... T:.....	Item		
	<u>Management of contract (B5)</u>			
47	Clause 5.1 - Management of the **works** F:..... V:..... T:.....	Item		
48	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
49	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
	Samples, shop drawings and manufacturer's instructions (B6)			
50	Clause 6.1 - Samples of materials The **Contractor** at no additional cost to the **employer** shall provide samples of material when requested or instructed by the **Principal Agents** or agents for approval F:..... V:..... T:.....	Item		
51	Clause 6.2 - Workmanship samples The **Contractor** at no additional cost to the **employer** shall prepare samples of workmanship when requested or instructed by the **Principal Agents** or agents for approval F:..... V:..... T:.....	Item		
52	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item		
53	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	Deposits and fees (B7)			
54	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item		
	Temporary services (B8)			
55	Clause 8.1 - Water F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
56	Clause 8.2 - Electricity F:..... V:..... T:.....	Item		
57	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item		
58	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B9)</u>			
59	Clause 9.1 - Responsibility for **prime cost amounts** F:..... V:..... T:.....	Item		
	<u>Attendance on subcontractors (B10)</u>			
60	Clause 10.1 - General attendance			
61	The **contractor** shall at his own expense provide the following general attendance on the **subcontractors**: Access to the **site** and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the **contractor** The provision of water and lighting and single-phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel, and power for commissioning of any installation			
	Carried Forward		R	

	Brought Forward		R	
62	The provision of an area for the **subcontractor** to establish temporary office accommodation and workshops and for the storage of plant and materials The use of erected scaffolding belonging to the **contractor**, in common with others having the like right, while it remains erected on the **site** The use, at reasonable times by arrangement of the **contractor's** erected hoisting equipment F:..... V:..... T:.....	Item		
63	Clause 10.2 - Special attendance F:..... V:..... T:.....	Item		
	General (B11)			
64	Clause 11.1 - Protection of the **works** F:..... V:..... T:.....	Item		
65	Clause 11.2 - Protection/isolation of existing **works** and **works** occupied in **sections** F:..... V:..... T:.....	Item		
66	Clause 11.3 - Security of the **works** F:..... V:..... T:.....	Item		
67	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item		
68	Clause 11.5 - Disturbance			
	Carried Forward		R	

			R	
	Brought Forward			
	Disturbance			
	The **contractor** shall keep the **site**, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the **works** all necessary temporary dust screens all to the satisfaction of the **principal agent**			
	F:..... V:.....T:.....	Item		
69	Clause 11.6 - Environmental disturbance			
	F:..... V:..... T:.....	Item		
70	Clause 11.7 - **Works** cleaning and clearing			
	F:..... V:..... T:.....	Item		
71	Clause 11.8 - Vermin			
	F:..... V:..... T:.....	Item		
72	Clause 11.9 - Overhand work			
	F:..... V:..... T:.....	Item		
73	Clause 11.10 - Tenant installations			
	F:..... V:..... T:.....	Item		
74	Clause 11.11 - Advertising			
	F:..... V:..... T:.....	Item		
	SECTION C: SPECIFIC PRELIMINARIES			
75	**Section C** contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item			
	Carried Forward		R	

	Brought Forward		R	
76	**CONTRACT DRAWINGS** A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **employer** and/or **principal agent** F:..... V:..... T:.....	Item		
77	**TRADE NAMES** Wherever a trade name for any product has been described in the **bills of quantities** document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for F:..... V:.....T:.....	Item		
78	**IMPORTED MATERIALS AND EQUIPMENT** Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable) F:..... V:.....T:.....	Item		
	Carried Forward		R	

	Brought Forward			R	
79	**COMMENCEMENT OF WORKS IN SECURITY AREAS** As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractor's** account F:..... V:.....T:.....	Item			
80	**ENTRANCE PERMITS TO SECURITY AREAS** As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer F:..... V:.....T:.....	Item			
81	**SECURITY CHECK OF PERSONNEL** The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works** F:..... V:..... T:.....	Item			
	Carried Forward			R	

	Brought Forward			R	
82	**PROHIBITION ON TAKING OF PHOTOGRAPHS** In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959 F:..... V:..... T:.....	Item			
	HIV/AIDS AWARENESS It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities** / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A 25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including **interest**, due to such delay of payment				
	Carried Forward			R	

	Brought Forward		R	
83	**AWARENESS CHAMPION** Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification F:..... V:..... T:.....	Item		
84	**AWARENESS WORKSHOPS** Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification F:..... V:.....T:.....	Item		
85	**POSTERS, BOOKLETS, VIDEOS, ETC.** Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification F:..... V:..... T:.....	Item		
86	**ACCESS TO CONDOMS** Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification F:..... V:.....T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
87	**MONITORING** Monitoring HIV/AIDS awareness of workers, providing the **principal agent** with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the **construction period** and close out, all in accordance with the HIV/AIDS Specification F:..... V:.....T:.....	Item		
88	**OCCUPATIONAL HEALTH AND SAFETY ACT** The **contractor** shall comply with all the requirements as set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities** / lump sum document The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including **interest**, due to such delay of payment Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained F:..... V:.....T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
89	**COVID-19 GUIDELINES** The **contractor** shall comply with all the requirements for Covid - 19 regulations F:..... V:..... T:.....	Item		
90	**COMMUNITY DEVELOPMENT** IDT' has taken a strategic decision to promote community development in line with its SCM Policy. Based on the above tenderer must promote Supplier Development through involving Small Business Enterprises residing within the municipal ward. Special reference is made to the Contract Data section in terms of sub-contracting F:..... V:..... T:.....	Item		
91	**CONTRACT PARTICIPATION GOALS (CPG)** Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional Amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained. F:..... V:..... T:.....	Item		
92	**CPG EXECUTION** Provision is made for a minimum of 0.5% of the project value in the execution of this project as described in the C3.1 project Specifications. The price is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.			
	Carried Forward		R	

	Brought Forward		R	
93	The Employer shall determine the amount to be paid to the Enterprise Development Co-Ordinator for the Contract Participation Goal (CPG) on the contract and this amount shall be stated under the section Enterprise Development	Item		
94	**CPG PAYMENTS** The contractor shall be paid as follows: These are recommended rates, client may change depending on the location of the project, complexity etc.	Item		
95	**Needs analysis** Needs analysis and enterprise development plan per Targeted Enterprise F:..... V:..... T:.....	Item		
96	**Mentoring and interim reporting** Mentoring and interim reporting per Targeted Enterprise F:..... V:..... T:.....	Item		
97	**Project completion report** Project completion report per Targeted Enterprise F:..... V:..... T:.....	Item		
	Carried to Final Summary		R	

Section No. 1
PRELIMINARIES
Bill No. 1
Preliminaries and General

Item No		Quantity	Rate	Amount	
	SECTION NO. 2 **BILL NO. 1** **DECANTING** **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. Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the project manager The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing. *All occupants of the existing school must be removed into the decanted site before the works commence.* **Transportation of units** Transportation of the units and any other associated materials to provide a fully functional structure will be at the cost of the contractor factored into the cost per unit. Contractor to factor in the consequences of inflation into costs.				
	Carried Forward		R		

	Brought Forward			R	
	Delivery Period Delivery period of the units needs to accommodate the removal of the occupants of the existing school to the decanting site. Contractors programme needs to reflect the sequence of the removal of occupants and furniture into the mobile units. **Positioning and Site Requirements** a) The site is required to be level with a slope not exceeding 200mm over the full length of each building b)The positioning of the units will be as per Architectural drawings **Access to Site** Contractor is to ensure that delivery trucks/trailers for the units have access to the site for delivery. **Warranty** Contractor to ensure all necessary warranties and insurances for the units are in place and handed over to the Project Manager upon evacuation of the units. Warranties are to also include all equipment and appliances. **Re-usable Materials** Contractor to ensure materials earmarked to be re used for the new structures once decanting site has been evacuated to be kept safe and in good condition **De-stablishment** Contractor to de-establish the whole decanting site upon completion and arrange for the transportation of the units to a destination selected by the Client				
	Carried Forward			R	

	Brought Forward		R		
	SUPPLEMENTARY PREAMBLES				
	Notes				
	Tenderers are advised to inspect the site and to acquaint themselves with the site conditions and it's surroundings.				
	The items as referenced in this BOQ and the drawing are INDICATIVE and for reference/identification only.				
	It shall be the tenderer's responsibility in it's entirety to identify all items (even if not identified in this BOQ or on the drawings).				
	Municipal Regulations				
	The tenderer is to allow for the disconnecting of all existing services (i.e. electrical, water and sewer) and to obtain the necessary permits in this regard				
	The whole of the works shall be carried out in accordance with municipal regulations and to the entire satisfaction of the Municipal Authorities				
	The contractor is to take it upon himself to be in possession of, at all times, all permits and municipal certificates, etc. and to fully understand all local authority rules and regulations for the duration of their contract.				
	Contractors are to include for all documentation, licences, regulations, etc.				
	Hoarding				
	The Contractor shall provide a safety plan and protection/site hoarding plan for approval by the Principal Agent, ensuring public safety.				
	Carried Forward		R		

	Brought Forward		R		
	Disturbances The Contractor shall carry out the whole of the work with as little mess and noise possible with a minimum disturbance to adjoining premises and their occupants. He shall keep the site, structures and materials well watered during operations to prevent dust and shall provide, erect and maintain all temporary tarpaulins, dust and weather-proof screens, barriers and temporary plumbing that may be necessary during the progress of the work, all to the satisfaction of the Principal Agent and the Municipal Authorities, and remove when directed. **Notice to Adjoining Owners** At the commencement of the work the Contractor shall give notice to the adjoining owners, to whose premises any services such as water, telephone, electric power, etc. are carried, via, or supported by the buildings to be demolished and shall ensure that such services are maintained without interruption. **PROJECT SPECIFICATION** This Bills of Quantities is to be read in conjunction with detailed design drawings as issued by **Agents** and work is to be executed to the full satisfaction of the consultants and principal agent. The descriptions contained in these Bills of Quantities are to be read in conjunction with the drawings and are intended as a means of identifying the various facets of the work. Tenderers shall allow for all costs in connection with the various items taking full cognizance of the drawings, schedules of finishes, and Bills of Quantities descriptions. **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.				
	Carried Forward		R		

	Brought Forward		R		
	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 are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves as to 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 shall notify the **employer** and/or **Principal Agent** in writing of any discrepancies encountered upon which clarification will be given by the **employer** and/or **Principal Agent** in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard				
	Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.				
	Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.				
	Where specifications and descriptions in these Bills of Quantities are in conflict with previous specifications (Preambles), then the specifications or descriptions in these Bills of Quantities shall take preference.				
	Descriptions as referred to in these Bills of Quantities are intended for REFERENCE PURPOSES ONLY and where discrepancies between the Bill items and the drawings occur, the drawings shall take preference. Such discrepancies shall be qualified by the tenderers and failure to do so shall indemnify the Employer and/or his agents against any additional costs, etc. resulting from such discrepancies.				
	Carried Forward		R		

Section No. 2
BUILDER'S WORK
Bill No. 1
Decanting

	Brought Forward		R	
	Tenderers will be required to have sufficient teams on site, at all times, as to ensure that the programme dates are met. Tenderers are to allow for this in their tenders as no claim for additional teams or workmen will be entertained at a later stage. Tenderers are advised that no site accommodation will be provided for their use. As such tenderers are to allow for this item in their submitted rates, or under the items provided for in the Preliminary & General sections. Final measurement of the works shall be made from the construction drawings and priced in accordance with the rates contained herein. The contractor shall identify and expose, where relevant, all underground services on site. He should liaise with all relevant authorities for the location and protection of these services. Tenderers are to note that all existing services located on interleading roads or adjacent to the site must not be damaged or disrupted. All costs due to damage to these services will be to the tenderers account. Tenderers are to note that all the rates to be priced in this document are deemed to be inclusive of all the necessary items required to complete the works including all transport and logistics. No claim in this regard will be entertained at a later stage The contractor will be required to use labour intensive methods for the items which have bee marked with the letters "LI" as described in the scope of work.			
	GENERAL			
1	**Protection from damage** Contractor to ensure that all units are rigged into place off the ground to eliminate any damage	Item		
	Carried Forward		R	

				R	
	Brought Forward				
	SITE PREPARATION				
	Site clearance				
2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	946		
	Compaction of surfaces				
3	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	946		
	Protection against termites, ants, etc				
4	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	946		
	6mm clean crushed stone dressing				
5	80mm thick including approved geotextile weed guard membrane	m2	946		
	MOBILE UNITS				
	NB: Pricing of units to include fabrication (if/where necessary, installation/jointing where required and rigging of units into place) Units to accommodate all internal Electrical Installations including DB Boards, Light Fittings, Switches, Plugs, Air-conditioning Units where required. Plumbing requirements including fittings for ablutions all complete.				
	Classroom Units				
6	Provide mobile classroom unit approximate size 8727mm x 5000mm placed on top of concrete pads (400mm x 400mm) concrete pads. The classrooms to include 2 x pin up board size (2.4m x 1.2m high), 2x White Non - magnetic board size (2.4m x 1.2m high) with vinyl sheeting installed in the to floors.				
	All windows and doors to include burglar bars	No	4		
	Carried Forward			R	

				R	
	Brought Forward				
	Vehicular Steel Gates				
7	Galvanised sliding gate 7700 x 2400mm high overall in two leaves, each leaf formed of 50mm diameter x 2,8mm thick pipe framing all round with one 50mm diameter x 2,8mm thick pipe diagonal brace all neatly mitred and welded at intersections with covering all as for fence strained and securely fixed to framing complete with two pairs of hinge bolts, two heavy duty barrel bolts and purpose made locking device. Including galvanised razor sharp comb welded to the gate	No	1		
	Temporary Fencing				
8	1.8m high perimeter wire mesh fence made up of wire with aperture size 76.2 x 12.7mm c/c. Panel reinforced with 4 x 50mm deep "V" formation horizontal recessed bands including 2 x 70 degree along top and toe, including 85 x 85mm taper locking steel posts @ 3.39m intervals (LI)	m	164		
	RELOCATION				
	Removal of Furniture				
9	Contractor to ensure that all furniture is carefully removed and transported to the decanting units where required or stored securely per class and moved back to classrooms after the works are completed	No	4		
	De-establishment Costs				
10	Provision for the de-establishment of the decanting site (Including dismantling and site clearance) of the area where the units were positioned		Item		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 1
Decanting

Item No		Quantity	Rate	Amount	

SECTION NO. 2

BILL NO. 2

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

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

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.

Carried Forward R

	Brought Forward			R	
	Disposal of debris				
	The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work which removal is deemed to be included in the rates unless otherwise stated.				
	Rates for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing				
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
	Temporary support to openings through existing walls				
	Making openings, altering openings in existing walls and removing lintels above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling, strutting, turning pieces, etc. to walls openings is deemed to be included in the contractor's rates.				
	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				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	TEMPORARY BARRIERS, SCREENS, ETC.				
	Temporary barriers, screens, etc. including removal				
1	1800mm high fence including visibility blocking sheet, (Colour: TBC) including pole, foundation pads, etc all in accordance to the architect's approval	m	250		
	Carried Forward			R	

				R	
	Brought Forward				
	REMOVAL OF EXISTING WORK				
	Demolitions of existing structures all complete				
2	Single storey brick and mortar blocks with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses including all foundations and termination of services	m2	176		
3	Carports with mass concrete, steel columns corrugated roof covering on steel beams and purlins	m2	130		
	Breaking up and removing mass concrete				
4	100mm Thick aprons	m2	120		
5	150mm Thick surface bed	m2	909		
	Breaking up and removing reinforced concrete including cutting off and removing reinforcement				
6	Reinforced Concrete	m3	55		
	Breaking down and removing brickwork etc				
7	Air brick and vents	No	16		
	Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good face brickwork on one side and cement plaster on other side (making good paintwork elsewhere)				
8	Timber single door and frame 813 x 2032mm high	No	10		
	Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)				
9	Timber single door, size 813mm x 2032mm high	No	10		
10	Timber double door, size 1500 x 2100mm high	No	3		
11	Timber folding door, size 6400 x 2100mm high	No	1		
	Carried Forward			R	

				R	
	Brought Forward				
	Taking out and removing ironmongery				
12	Remove green chalk board size 4880mm x 1260mm high and make good plaster	No	4		
13	Remove pinning boards size 1500mm x 600mm high and make good	No	4		
14	Remove brass sliding stays, peg stay, handles window ironmongery	No	24		
15	Remove mortice lock set including locks to timber doors	No	4		
	Taking out and removing sundry joinery work				
16	Timber skirting from brickwork	m	295		
17	Fascia and bardge boards, etc	m	130		
18	Steel gutters	m	65		
19	Galvanised rainwater goods downpipes and fittings	m	48		
20	Security gate with framing 813 x 2023mm high bolted to brickwork and making good mortar joints between face brickwork	No	4		
21	Security gate with framing 500 x 2100mm high bolted to brickwork and making good mortar joints between face brickwork	No	1		
	Repairing cracks				
22	On plastered brick walls to engineer's approval	m2	766		
	Taking down and removing roofs, floors, panelling, ceilings, partitions, tc				
23	Gypsum plasterboard ceilings including cornices, timber brandering, etc	m2	548		
24	Fibre cement ceilings including cornices, timber brandering, etc	m2	160		
25	Corrugated iron roof covering and timber purlins	m2	909		
	Carried Forward			R	

				R	
	Brought Forward				
26	Timber beam	m	43		
	Hacking up/off and removing floor tile and wall finishes, including removing mortar bed or backing from concrete or brickwork and preparing surfaces for new finishes, etc				
27	300 x 300mm porcelain Tiles to floors	m2	12		
28	300 x 300mm ceramic Tiles to walls	m2	20		
	Taking out and removing glass and mirrors				
29	Glass from steel windows including cleaning out rebates and preparing for new glass	m2	99		
	BUILDING UP OPENINGS				
	Brickwork in NFP bricks in class II mortar in building up openings				
30	One brick walls	m2	36		
	Sundries				
31	Cutting toothings and bonding new brickwork to existing	m2	47		
	PREPARATORY WORK TO EXISTING SURFACES				
32	Cutting out joints of existing brickwork to receive plaster	m2	50		
	MAKING GOOD OF FINISHES ETC				
	Making good internal cement plaster				
33	Walls in patches	m2	418		
34	Window cills	m2	43		
	Carried Forward			R	

				R	
	Brought Forward				
	Cleaning of existing floor finish. Apply one coat M-Chem Multi Purpose Cleaner mixed to the ratio of 1 part M-Chem Multi Purpose Cleaner: 3 parts hot or warm water into grout lines, using a spray bottle or sponge. Allow 5 minute contact reaction time and scrub grout lines with scouring pad or scrubbing brush. Clean grout lines using clean fresh water to prevent residue forming (Code: MCMPC.25), all in accordance with manufacturer's recommendations.				
35	Deep clean paving/ walkways	m2	144		
	Making good existing carpots				
36	Make good existing carports including roof coverings, paving, steel posts, all complete in accordance with architect's approval	m2	160		
	Making good existing security gates				
37	Metal security gates	m2	14		
	Altering openings				
	Cleaning of metal				
38	Cleaning of MS columns not exceeding 3.5m high (paint measured elsewhere)	No	13		
	BUDGETARY ALLOWANCES				
39	Provide the amount as indicated for builders work in connection with alteration sundries		Item		350 000.00
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 2
Demolitions and Alterations

Item No		Quantity	Rate	Amount	

SECTION NO. 2

BILL NO. 3

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

				R	
	Brought Forward				
	SITE CLEARANCE ETC				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	2 242		
2	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m2	2 242		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	611		
4	Holes	m3	24		
5	Bulk excavations	m3	123		
6	Reduced levels under floors	m3	1 236		
	Extra over excavations in earth to trenches and holes for				
7	Excavation in soft rock	m3	76		
8	Excavation in hard rock	m3	35		
	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.				
9	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	1 644		
	Carried Forward			R	

				R	
	Brought Forward				
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
10	Trenches and holes	m2	2 151		
	KEEPING EXCAVATIONS FREE FROM WATER				
11	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				
12	Backfilling to trenches, holes, etc	m3	239		
13	Under floors, steps, pavings, etc	m3	336		
	Imported filling (G5) compacted to 98% Mod AASHTO density in layers not exceeding 150mm thick				
14	Under floors, steps, pavings, etc	m3	344		
	Imported filling (G7) compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick				
15	Under floors, steps, pavings, etc	m3	345		
	COMPACTION OF SURFACES				
16	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 30% modified AASHTO density	m2	3 230		
	TESTS				
	Prescribed tests to determine degree of compaction or other properties of ground or filling				
17	Modified AASHTO Density test for all compactions		Item		
	Carried Forward			R	

				R	
	Brought Forward				
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
18	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	3 196		
19	To bottom and sides of excavated trenches, Holes, etc.	m2	2 956		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 3
Earthworks

Item No		Quantity	Rate	Amount

SECTION NO. 2

BILL NO. 4

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)

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Carried Forward 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, stripfootings, 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		

	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				
	10Mpa/19mm concrete				
1	Blinding	m3	43		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
2	Strip footings	m3	199		
3	Ground beams	m3	11		
	30MPa/19mm concrete				
4	Bases	m3	14		
5	Concrete base	m2	34		
	REINFORCED CONCRETE CAST IN FORMWORK				
	25MPa/19mm concrete				
6	Concrete Apron cast to fall etc,	m3	95		
	25MPa/19mm Concrete				
7	Surface beds cast in panels	m3	236		
8	Ramps	m3	16		
9	Walls	m3	25		
10	Slabs	m3	17		
11	Steps	m3	31		
	Carried Forward			R	

				R	
	Brought Forward				
12	Plinth	m3	2		
	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)				
13	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	157		
	SUNDRIES TO CONCRETE				
	Finishing top surfaces of concrete smooth with a wood float				
14	Bases	m2	32		
15	Concrete apron	m2	950		
16	Surface beds, slabs, etc to falls	m2	2 452		
17	Sloping ramps	m2	53		
18	Steps	m2	73		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
19	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1 791		
20	Walls with total height not exceeding 3,5m above bearing level	m2	42		
21	Sloping and stepped outer edges of ramps not exceeding 300mm high extreme	m	64		
	Carried Forward			R	

				R	
	Brought Forward				
	Rough formwork to sides and soffits				
22	Slabs not exceeding 250mm thick with total height not exceeding 3,5m high	m2	227		
	MOVEMENTS JOINTS ETC,				
	Isolation joints of between vertical concrete and brickwork surfaces				
23	10mm Thick isolation joints of closed off expanded polyethylene filler with tear off strip at top, not exceeding 300mm high/wide	m	105		
	Saw cuts Joints				
24	3 x 30mm In saw cut joints in floors	m	2 034		
	Expansion joints				
25	10mm soft board or similar approved between concrete and brick wall	m	767		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
26	All diameter bars	t	32		
	Fabric reinforcement:				
27	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	2 242		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 4
Concrete,Formwork and Reinforcement

Item No		Quantity	Rate	Amount

SECTION NO. 2

BILL NO. 5

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

				R	
	Brought Forward				
	Pointing				
	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 FBS in Class II mortar, laid in stretcher bond with 10mm flush joints				
1	One brick wall	m2	215		
2	270mm cavity walls of two half brick skins	m2	313		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of FBS brick in class II mortar laid in stretcher bond with 10mm flush joints				
3	Half brick wall	m2	405		
4	Half brick wall, in beamfilling	m2	151		
5	One brick wall	m2	1 442		
6	270mm cavity walls of two half brick skins including weep holes at 1150mm c/c at DPC level including galvanised wire ties	m2	980		
	Mass brickwork in regular piers of FBS brick in class II mortar laid in stretcher bond				
7	330 x 330mm Brick Piers	m3	6		
8	440 x 440mm Brick Piers	m3	2		
9	660 x 660mm Brick Piers	m3	3		
	Carried Forward			R	

				R	
	Brought Forward				
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Face bricks Type 1 (Colour: TBC) with PC sum amount of R 5 500.00 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 square recessed 6mm joints in both directions				
10	Extra over brickwork for face brickwork in superstructure	m2	4 040		
11	Extra over brickwork for face brickwork in foundations	m2	888		
12	Extra over brickwork for face brickwork to piers	m2	25		
	Brick-on-edge header course, one coarse high copings, sills, lintels etc of face bricks (PC R7000/1000), pointed with recessed joints on all exposed faces				
13	230mm Wide coping	m	231		
14	Cut external window sill 175mm wide set sloping and slightly projecting in cement mortar and including all necessary fair cutting to facings under and fair and fitted ends	m	303		
15	Extra over brickwork for brick-on-edge header course lintel	m	295		
16	Extra over brickwork special bricks	m	66		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
17	75mm Wide reinforcement built in horizontally	m	10 244		
18	150mm Wide reinforcement built in horizontally.	m	4 209		
	Precast concrete prestressed fabricated lintels				
19	100 x 70mm Lintels in lengths not exceeding 3m	m	544		
	Carried Forward			R	

				R	
	Brought Forward				
20	175 x 70mm Lintels in lengths not exceeding 3m	m	133		
	Cavity sundries				
21	Splayed mortar fillets one course high in 50mm cavities	m	1 542		
22	Closing 50mm cavities of hollow walls vertically with one course of brickwork	m	640		
23	Closing 50mm cavity of hollow wall horizontally with one course of brickwork	m	397		
	Turning pieces				
24	110mm Wide turning piece to flat brick lintels	m	320		
	Air bricks etc				
25	Set of 2x 240 x 155mm vermin proof Terracota air bricks, installed as per manufacturer's recommendations	No	20		
	Fair cutting to face brickwork				
26	Fair raking cutting at gables	m	221		
	Roof ties				
27	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	382		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
28	10mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	25		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 5
Masonry

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 6				
	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				
1	Under walls	m2	414		
2	Under cills, etc.	m2	99		
	One layer of 250 micron "USB Green" or similar approved damp proof membrane sealed at laps with PVC self -adhesive tape				
3	Under surface beds.	m2	3 312		
	WATERPROOFING TO ROOFS, BASEMENTS, ETC				
	4mm "Derbigum SP" waterproofing				
4	On shower floors	m2	24		
	Carried Forward			R	

				R	
	Brought Forward				
5	On shower walls	m2	70		
	PROTECTIVE ROOFING PAINT				
	Two coats Silvakote or similar approved bituminous aluminium paint				
6	On roof	m2	210		
7	Inside gutters 100 x 100 x 100mm U shaped gutters	m	134		
	JOINTS SEALANTS, ETC.				
	"Sikaflex" or similar approved joint sealant including raking out of joints filler as necessary				
8	3 x 30mm In saw cut joints in floors	m	2 034		
9	10mm Isolation Joints between surface bed concrete and brick wall	m	748		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 6
Waterproofing

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 7				
	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				
	0.8mm Precoated "chromadek" Klip lok sheet metal (Colour: TBC) on 50 x 76mm SAP battens at max. 800mm centres on 114 x 38mm centres tied down 4mm steel wires anchored brick courses deep on 114 x 38mm tiber wall plates with 235 x 19mm fibre cement fascias to all edges or similar approved as per manufacturer's specification and requirements				
1	Roof covering with pitches not exceeding 25 degrees	m2	3 858		
	FLASHINGS				
	Approved				
	0.58mm thick flashing galvanised flashing factory finished one side with "Chromadek - fixed as per manufacturer's specification and requirements				
2	375mm girth Headwall flashing, 2 times bent and notched on site to suit roof profile	m	106		
	Carried Forward			R	

				R	
	Brought Forward				
3	185mm girth Counter flashing, 2 times bent	m	115		
4	Zincal AZ150 coated steel ridge capping 550mm girth	m	251		
5	Zincal AZ150 coated steel side wall flashings 550mm girth	m	98		
6	Zincal AZ150 coated steel raking hip closures 550mm girth	m	106		
7	Narrow and broad flute closers to match roof sheeting	m	62		
8	Moulded narrow and broad rib polyethylene filler blocks	m	252		
9	Close cut and mitred valley including soakers, etc	m	76		
10	Gable end trim 370mm girth	m	82		
	ROOF AND WALL INSULATION				
	Approved				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
11	135mm thick Insulation laid over purlins, fixed concurrent with sheeting with and including galvanised steel accessories, as per manufacturer's requirements	m2	3 858		
	ROOF VENTILATORS				
	"Everite" or similar approved				
12	Fibre-cement plain wing continuous ridge ventilator to 25 degrees angle and with base wing 1.83m long fixed through chromadek roof sheeting to steel purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	m	15		
13	Closed end piece to plain wing continuous ridge ventilator	No	6		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 7
Roof Coverings

Item No		Quantity	Rate	Amount	
	SECTION NO. 2 **BILL NO. 8** **CARPENTRY AND JOINERY** **CPAP WORK GROUP** **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** 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				
	Carried Forward		R		

	Brought Forward		R		
	Decorative laminate finish Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish Timber All softwood to be South African Pine Descriptions Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described. 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 items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.				
	Carried Forward		R		

	Brought Forward			R	
	Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.				
	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				
1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing all in accordance with architectural drawings and specifications, etc (measured on plan)	m2	4 134		
	Sawn softwood				
2	38 x 114mm Wall plates	m	1 111		
	Carried Forward			R	

				R	
	Brought Forward				
	Sundries				
3	Two coats creosote on sawn timbers	m2	169		
	Fascia and badge boards				
4	19 x 255mm chromadek fibre cement fascia boards, fixed to supports and roof timbers with one brass screw, including standard aluminium half round cover strips at all joints, as per manufacturer specification or similar approved	m	458		
5	15 x 80 x 300mm fibre cement barge board	m	221		
	Laminated timber				
6	75 x 250mm Beams, pergola beams, etc bolted	m	43		
	DOORS ETC				
	44mm thick Semi-solid core flush panel doors with concealed hardwood edges all round hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule				
7	813 x 2125mm single door with a 600 x 600mm safety glass viewing panel - D13: AD-L	No	6		
	44m thick Solid flush panel door with concealed with hardwood edges hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule				
8	813 x 2032mm high single door - D01,D04:TB-L	No	24		
9	1050 x 2032mm high single door - D02,D03:TB-L & S-L	No	2		
10	1050 x 2125mm high single door - D12: AD-L	No	4		
11	1500 x 2125mm high single door - D10: AD-L	No	2		
12	813 x 2125mm high single door - D04: NC-L	No	14		
13	915 x 2125mm high single door - D08: AD-L	No	4		
14	800 x 2125mm high single door - D20: GH-L	No	2		
	Carried Forward			R	

				R	
	Brought Forward				
15	1505 x 2125mm high double door - D16: NC-L	No	1		
	44mm thick solid external quality flush doors with concealed with hardwood edges hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule				
16	900 x 2125mm high single door - D03: S-L	No	4		
	44mm thick Solid core flush panel doors with horizontal slates on both sides hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule				
17	915 x 2125mm high single door - D05: AD-L	No	33		
18	915 x 2125mm high single door - D18: GH-L	No	2		
19	813x 2125mm high single door - D5: AD-L	No	19		
	44m thick solid flush panel door with hardboard both sides hung and two concealed edges hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule				
20	745 x 2125mm single door with a 350 x 600mm safety glass viewing panel - D11: AD-L	No	5		
21	1050 x 2125mm single door - D12: AD-L	No	1		
	40m thick solid flush panel door with hardboard to GDE Detail DT30 on both sides, 170mm undercut, hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule				
22	762 x 1970mm high single door - D09:TB-L & S-L	No	26		
23	815 x 2032mm high single door - D09: AD-L	No	27		
	Carried Forward			R	

				R	
	Brought Forward				
	SKIRTINGS				
	Wrought meranti				
24	19 x 76mm Skirting or similarly approved plugged including 19mm quadrant bead nailed	m	929		
	NOTICE BOARDS, KEYBOARDS, DUCKBOARDS, ETC				
25	2400 x 1200mm Magnetic white board mounted to wall complete with integrated pen tray	No	20		
26	2400 x 1200mm Carpet pinning board mounted to wall complete with pen tray and fixing components included with round plastic corners according to manufacturer	No	20		
	Swing type Green Chalkboard to comply with CKS-36-1980 or equivalent code of practice, complete with chalk rail as one unit strictly in accordance to manufacturers instructions				
27	Overall size 4000 wide x 1250mm high consisting of one chalkboard 1800mm wide, two chalkboards 900mm wide and 2000 x 1250mm high two swing type chalkboards, fixed 900mm high from finished floor level	No	4		
	FITTINGS				
	Kitchen cupboards etc with 22mm thick rustenburg black top, grey duco floor units , ashton handles and telescopic drawer slides				
	All complete as per drawing and approval by architect: S100 AD-L 104				
28	L-shaped floor counter 3995 x 600 wide x 900mm high with floor units in white duco to approved sample by architect	No	1		
29	U-shaped floor counter 14905 x 600 wide x 900mm high with floor units in white duco to approved sample by architect	No	1		
	Carried Forward			R	

				R	
	Brought Forward				
	Processing room worktop acrylic counter				
30	Acrylic counter 3700 x 600 wide x 900mm high to approved sample by architect	m	8		
	Office built-in cupboards etc with grey duco sprayed doors , ashton handles,door to be lockable				
	All complete as per drawing and approval by architect : S100 AD-L 104				
31	Office built-in cupboard 1200 x 600 x 1200mm high with top, sides, bottom, division, shelves, etc	No	8		
	Trophies cabinet etc with 6mm clear safety glass, lockable doors of 16 x 40mm timber frame stained to match silgna timber				
	All complete as per drawing and approval by architect : S100 AD-L 104				
32	Trophies cabinet 3000 x 600 x 2600 mm high with top, sides, bottom, division, shelves, etc	No	3		
	Medicine cabinet etc with standard white built-in type, complete with mirrors on door shelves approved sample by the architect.				
33	Medicine cabinet 380 x 610 mm high with top, sides, bottom, division, shelves, etc	No	2		
	Timber bench etc with 22 x 45mm siligna timber strips and 20 x 38mm rectangular steel tube painted black bolted on the wall				
	All complete as per drawing and approval by architect : S100 AD-L 105				
34	Timber bench of size 3300 x 418mm wide x 433mm high	No	6		
	Carried Forward			R	

				R	
	Brought Forward				
	Girls and girls benches etc with 20 x 45mm meranti strips with waterproof varnish and 20 x 38mm rectangular steel tube painted black bolted on the wall				
	All complete as per drawing and approval by architect : S100 S-L-103				
35	3580 x 480mm wide x 450mm high	No	1		
36	480mm wide x 450mm high	m	4		
37	L-shaped benches of size 5685 x 480mm wide x 455mm high	No	1		
	Shelving units with all its components to architect specification.				
	All complete as per drawing and approval by architect : S100 AD-L 105				
38	Shelving units 2600 x 400 wide x 2200mm high with division etc	No	43		
39	Bookshelves 2600 x 600 x 2400mm high with top, sides, bottom, division, shelves, etc	No	24		
	20mm Seligna worktop				
	All complete as per drawing and approval by architect : S100 NC-L-105				
40	Seligna worktop 7005 x 600 wide x 1050mm high	No	17		
	22mm Thick Rustenburg stone granite worktop all complete as per drawing and approval by architect				
41	Seligna worktop 7005 x 600 wide x 1050mm high	No	8		
	Lab Desk including all supports, frame, fixing etc.				
	All complete as per drawing and approval by architect : S100 NC-L-105				
42	Lab desk 3005 x 600 wide x 535mm high	No	11		
	Carried Forward to Summary of Section No.			R	

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 9				
	FLOOR COVERINGS, WALL LININGS, ETC				
	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.				
	FLOOR COVERINGS				
	2,0mm thick, PUR vinyl sheeting (PC allowance of R 350.00/m2 excludes V.A.T. but includes delivery to site) on screed and self levelling screed (measured elsewhere) fixed with adhesive as per manufacturer specifications				
1	On floors	m2	529		
	2,0mm thick, SD vinyl sheeting (PC allowance of R 300.00/m2 excludes V.A.T. but includes delivery to site) on screed and self levelling screed (measured elsewhere) fixed with adhesive as per manufacturer specifications				
2	On floors	m2	684		
	Carried Forward			R	

				R	
	Brought Forward				
	2,0mm thick, Safety vinyl sheeting (PC allowance of R 320.00/m2 excludes V.A.T. but includes delivery to site) on screed and self levelling screed (measured elsewhere) fixed with adhesive as per manufacturer specifications				
3	On floors	m2	171		
	POLISH, SEALERS, ETC.				
	Two coats of strip and seal as recommended by the manufacturer of the vinyl flooring				
4	On vinyl tiles	m2	1 385		
	ATTIC STOCK				
5	2,0mm thick, PUR vinyl sheeting (PC allowance of R 350.00/m2 excludes V.A.T. but includes delivery to site)	m2	53		
6	2,0mm thick, SD vinyl sheeting (PC allowance of R 300.00/m2 excludes V.A.T. but includes delivery to site)	m2	68		
7	2,0mm thick, Safety vinyl sheeting (PC allowance of R 320.00/m2 excludes V.A.T. but includes delivery to site)	m2	17		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 9
Floor Coverings,Plastic Lining etc.

Item No		Quantity	Rate	Amount	

SECTION NO. 2

BILL NO. 10

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

	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.				
	SUPPLEMENTARY PREAMBLES				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	HINGES, BOLTS, ETC				
	Dorma or Buchel or similar approved				
1	Hinges- DBB-SS-009 1 & half pair	Pairs	99		
2	Ball bearing hinges	Pairs	69		
3	Brass barrel bolt	No	3		
	Carried Forward			R	

				R	
	Brought Forward				
	LOCKS				
	Dorma or Buchel or similar approved				
4	Lock + cylinder- DMWC-SS-008	No	37		
5	Lock + cylinder- KC056501 65mm SN	No	58		
6	4 Lever security lockset	No	3		
	To architect approval				
7	WC Indicator Bolt & Thumb Turn, With Coin Release, Square, Stainless Steel	No	15		
	HANDLES				
	Dorma or Buchel or similar approved				
8	Handle-DWC-006	No	31		
9	Pull handle SKU 1212348	No	10		
10	D02625 Handle -CB lever 30 handle	No	41		
	To architect approval				
11	105mm Satin-chromed handles	No	3		
	PUSH PLATES AND KICKING PLATES				
	Dorma or Buchel or similar approved				
12	200 x 300mm Thick anodised aluminium push plate	No	12		
	DOOR CLOSERS				
	Dorma or Buchel or similar approved				
13	TS83 D C delay closer	No	31		
	Carried Forward			R	

				R	
	Brought Forward				
	LETTERS, NAMEPLATES, ETC				
	Dorma or Buchel or similar approved				
14	150 x 150mm DSS-133 Signage	No	45		
15	150 x150mm Signage	No	25		
	CATCHES, CABIN HOOKS, ETC				
16	40mm Robehook chrome (code: 3016)	No	27		
17	40mm Aluminium robehook (Code: 8485)	No	10		
18	40mm Chrome plated single coat hook	No	38		
	SUNDRIES				
	To architect approval				
19	DDS-SS-017 Door stop	No	22		
	BATHROOM FITTINGS				
	To architect approval				
20	Rail set shower hansgrohe raindance(HG-26620000)	No	1		
21	670 x 32mm Cistern rail	No	3		
22	600 x 32mm Straight rail	No	3		
23	600 x 32mm Grab rail	No	3		
	STEEL LOCKERS				
	"Greenfield" steel lockers with standard baked enamel finish or similar approved				
24	Steel locker 300 x 450 x 2600mm high	No	28		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 BUILDER'S WORK Bill No. 10 Ironmongery				

Item No		Quantity	Rate	Amount

SECTION NO. 2

BILL NO. 11

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.

NOTES

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

	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.				
	SUSPENDED CEILINGS				
	1200 x 600 x 15mm thick acoustic lay in ceiling tiles laid on 125mm thick aerolite insulation and including tee suspension system, main and cross tees, necessary hangers, grids, etc etc. all strictly in accordance with the manufacturer's instructions.				
1	Suspended ceilings not exceeding 1m below timber trusses	m2	1 088		
	600 x 1200mm x 12.5mm thick, Gypsum white vinyl gypsum ceiling tiles laid on 125mm thick aerolite insulation and including tee suspension system, main and cross tees, necessary hangers, grids, etc etc. all strictly in accordance with the manufacturer's instructions				
2	Suspended ceilings not exceeding 1m below timber trusses	m2	55		
	Carried Forward			R	

				R	
	Brought Forward				
	1200 x 600 x 15mm thick acoustic fibre-cement boards laminated to 125mm thick aerolite insulation and including tee suspension system, main and cross tees, necessary hangers, grids, etc etc. all strictly in accordance with the manufacturer's instructions.				
3	Suspended ceilings not exceeding 1m below timber trusses	m2	33		
	NAILED UP CEILINGS				
	1200 x 600 x15mm fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
4	Fibre cement ceilings not exceeding 1m below timber truses	m2	303		
	PLASTER BOARD CEILINGS				
	6.4mm Gypsum plasterboard ceiling, fixed at same roof on 38 x 38mm saw brandering at 400mm centers, including all necessary hangers, braces, etc. fixed with staples or nails, finished with a 9.5mm thick gypsum plasterboard panels including wire lathing at all joints between ceiling panels and a coat of "Rhinolite" plaster, trowelled smooth to receive decoration by others, complete as per Architects Ceilings Specification.				
5	Plasterboard Ceiling not exceeding 1m below timber trusses	m2	720		
6	Soffit and side of horizontal bulkheads, size 650 x 250mm wide	m	6		
	CORNICES				
	Wrought Softwood				
7	19 x 50mm cornice fixed on flat to brandering (Fibre Cement boards)	m	216		
	Carried Forward			R	

				R	
	Brought Forward				
	"Shadowline" cornices				
8	SM 25mm shadow line pre-painted cornice plugged to suspended ceiling (Gypsum suspended and Acoustic)	m	813		
	"Rhino" plasterboard cornice				
9	75mm Coved cornice, plugged to brickwork	m	187		
	SUNDRIES				
	Extra over for Trap Doors				
10	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	14		
	CEILING INSULATION				
	125mm aerolite ceiling insulation laid according laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications				
11	On Ceilings	m2	2 144		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 11
Ceilings,Partitions and Access Flooring

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 12				
	STRUCTURAL STEELWORK				
	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.				
	STEEL COLUMNS AND BEAMS				
	Welded columns in single lengths with 300mm cast in concrete base, with top, bearer and connection plates bolted to concrete or paving				
1	125 x 125 x 12.7kg/m SHS columns	t	1.01		
2	203 x 133 x 25kg/m I Column	t	3.15		
3	203 x 133 x 25kg/m I Beam	t	4.80		
4	150 x 150mm x 26.16kg/m SHS columns	t	0.78		
5	150 x 150mm x 26.16kg/m SHS beams	t	0.78		
	PURLINS, GIRTS, BRACING, ETC				
	Purlins and girts bolted to steel				
6	Lipped channel section purlins	t	1.58		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 12
Structural Steelwork

Item No		Quantity	Rate	Amount	
	SECTION NO. 2 **BILL NO. 13** **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		

	Brought Forward		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.			
	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.			
	Installation All measurements to be checked on site prior to ordering and manufacturing. Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing. Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.			
	Profiles Tenderers to provide typical details of proposed aluminium section to be used in the design.			
	Structural Silicone Tenderers to allow a 10 year guarantee on all powdercoating.			
	Preliminary and Shop Drawings: The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.			
	Carried Forward		R	

	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		

				R	
	Brought Forward				
	WELDED SCREENS, GATES, ETC.				
	Frame:50 x 50 x 3mm angle iron frame with 50 x 50mm lugs welded on at 450mm c/c and bolted to reveal with 10mm ø rawl bolts, provide opening for deadbolt, Leaf: 60 x 40 x 2mm mild steel rectangular tube gate surround with 20mm mild steel rods @ 110mm c/c and 40 x 6mm horizontal Supports with 20mm holes for vertical rods. All ironmongery shall be heavy duty use, 25 x 3 x 200mm long lug welded to angle iron. 5 pin upright double throw security mortice deadlock in 3mm steel plate housing closed on all sides. Back of lock housing to be welded to steel rod with 25mm ø x 80mm long pin hinge and 40 x 6mm continuous flat steel bar stop welded to gate.				
1	Steel gate, size 813 x 2067mm high - D2, D5, D17:EC-L, TB-L, S-L, NC-L	No	25		
2	Steel gate, size 813 x 2067mm high - D38: AD-L	No	5		
3	Steel gate, size 915 x 2125mm high - D17: NC-L	No	10		
4	Steel gate, size 915 x 2125mm high - D18:GH-L	No	2		
5	Steel gate, size 1550 x 2125mm high - D-21:AD-L	No	2		
6	Sliding steel gate, size 8000 x 1950mm high - D-22:AD-L	No	2		
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for cavity walls brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
7	725 x 2125mm single door-D11: AD-L	No	2		
8	813 x 2032mm single door-D4: TB-L	No	15		
9	915 x 2032mm single door-D18: GH-L	No	2		
10	1505 x 2125mm double door-D1, D16	No	1		
	Carried Forward			R	

				R	
	Brought Forward				
	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				
11	813 x 2032mm single door-D1: TB-L	No	19		
12	813 x 2125mm single door- D2,D5,D37: AD-L	No	19		
13	915 x 2032mm single door-D5: AD-L	No	37		
14	1050 x 2032mm single door-D12: AD-L	No	2		
15	1050 x 2125mm single door-D2: S-L	No	4		
16	Class B fire resistant single door for 745 x 2125mm high opening- D11:NC-L	No	2		
	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				
17	762 x 1970mm single door- D9: NC-L	No	26		
18	813 x 2125mm single door-D5,D5B,D5C,D9,D13	No	6		
19	815 x 2125mm single door-D9: TB-L	No	27		
20	800 x 2125mm single door-D20	No	2		
21	900 x 2032mm single door- D2: S-L	No	4		
22	Class B fire resistant single door for 745 x 2125mm high opening-D11	No	6		
23	1500 x 2100mm double door-D10:AD-L	No	2		
	1.6mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
24	813 x 2032mm single door-D4	No	3		
	Carried Forward			R	

				R	
	Brought Forward				
	STRONG ROOM DOORS ETC, SUITABLE FOR 220MM WALLS FIXED TO BRICKWORK AND CONCRETE				
	DS-70mm SABS Category 2 ADM strong room door, 190mm thick and steel frame, 813 x 2032mm including 8 bolts of 40 diameter-4 front and 4 back, 2x7- lever security keylock, non-detriorating insulation material, rust proof undercoat for final painting by contractors, weight- 630 kg				
25	813 x 2125mm single door- D7	No	6		
	ROLLER SHUTTER DOORS				
	"Approved" roll-up garage type door mild steel crank operated 75 x 0.6mm thick slated curtain roller shutter with standing bottom rail with overhead box, with 75mm guides, extruded aluminium t rubber seal, powder coated ancillary components including 4.5mm thick end plates, guide rails, eyc fixed to brickwork or concrete, complete with ironmongery, fittings etc as per manufacturer's recommendations				
26	Roller shutter door size 3196 x 2550mm high - D6: S-L	No	2		
27	Roller shutter door size 3250 x 2125mm high - D31:AD-L	No	2		
28	Roller shutter door size 2150 x 2125mm high - D32:AD-L	No	2		
	WINDOWS FRAMES, etc.				
	Standard Cottage section mild steel type with top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 20mm wide x 4mm thick mild steel flat bars welded to frames, all as per architect's specification.				
29	Window size 535 x 655mm high - W01: TB-L, NC-L, ,S-L, AD-L & GH-L	No	55		
30	Window size 1145 x 855mm high - W02-2TH: AD-L TB-L & NC-L	No	10		
	Carried Forward			R	

				R	
	Brought Forward				
31	Window size 1145 x 855mm high - W02: TB-L, NC-L, S-L, & AD-L	No	76		
32	Window size 1500 x 1250mm high - W02: EC-L	No	2		
33	Window size 2665 x 1645mm high - W03: AD-L	No	16		
34	Window size 1020 x 2655mm high - W16: NC-L	No	3		
35	Window size 1020 x 1250mm high - W04: NC-L	No	16		
36	Window size 1665 x 735mm high - W18: GH-L	No	3		
	Standard Cottage section mild steel type with top & bottom-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 20mm wide x 4mm thick mild steel flat bars welded to frames, all as per architect's specification.				
37	Window size 2665 x 1640mm high - W14: NC-L	No	10		
	Standard mild steel type with side & top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 20mm wide x 4mm thick mild steel flat bars welded to frames, all as per architect's specification.				
38	Window size 535 x 655mm high - W01: S-L	No	13		
39	Window size 1020 x 1250mm high - W04: N-L	No	2		
40	Window size 1020 x 950mm high - W05: N-L	No	3		
41	Window size 890 x 950mm high - W05: N-L	No	21		
	Standard mild steel type with bottom-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 20mm wide x 4mm thick mild steel flat bars welded to frames, all as per architect's specification.				
42	Window size 1143 x 854mm high - W02: S-L	No	4		
	Carried Forward			R	

				R	
	Brought Forward				
	STEEL BULLET PROOF WINDOWS				
	Standard mild steel school type Top-hung open out bullet proof window frame (with brass fittings) including glass, 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 or similar approved				
43	Window size 1145 x 855mm high-W02: GH-L	No	3		
	STEEL LOUVRE PANELS				
	GALVANIZED STEEL LOUVRE PANELS				
	Louvre panels screwed into steel window frames				
44	Panel 650 x 650mm high-W4: S-L	No	2		
	STEEL DOORS, etc				
	Purpose made steel doors with glass panels, hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule				
45	813 x 2032mm high single door - D02: N-L	No	7		
46	1500 x 2100mm high double door - D01: N-L	No	3		
	STEEL COMBINATION DOORS AND FRAMES				
	Purpose made steel doors with steel panels, hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule				
47	1780 x 2350mm high double door - D22: R-L	No	1		
	Carried Forward			R	

				R	
	Brought Forward				
	ALUMINIUM WINDOWS, DOORS, ETC				
	Black powercoated aluminium windows glazed with 6mm frosted/obscured glass and plugged to brickwork or concrete With burglar bars to opening and fixed sections, consisting of 20mm wide x 4mm thick mild steel flat bars welded to frames, all as per architect's specification.				
48	Window 2000 x 975mm high (drawing No S100 AD-L-102)	No	2		
	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 Architects approval and as per Architects drawings and specifications				
	Refer to drawing : S100 AD-L-102				
49	Aluminium door size: 1655 x 2125mm high - D02 :AD-L	No	1		
50	Aluminium door size: 1505 x 2125mm high - D03 :AD-L	No	7		
51	Aluminium door size: 1505 x 2125mm high - D16: NC-L	No	1		
	Carried Forward			R	

	Brought Forward			R	
	SHOPFRONTS				
	Powdercoated aluminium shopfronts, finished Matt (Colour: TBC with solar E plus grey TSG glazing (SG02) as per glazing specification, plugged to brickwork, concrete or partitions etc, including installation of ironmongery, actuators, smoke seal around door frame and all necessary framework, doors, spandrel panels, sealants, closure pieces, gaskets etc, all complete to Architects approval and as per Architects drawings and specifications				
	Refer to drawing : 113_BLK L_wd.008				
52	Aluminium shopfront size: 3105 x 2125mm high - D01: AD-L	No	2		
	BALUSTRADES, HANDRAILS ETC.				
	Welded balustrading 1200mm high extreme, of handrail comprising 50 x 75 x 3mm thick hollow section at 1600mm centres, 50 x 50 x 3mm hollow section top and bottom rails, 19 x 19mm square vetical uprights at 100mm centres, 150 x 150 x 6mm baseplate with 4 holes for M16 x 100mm expansion bolts fixed to concrete slab				
	Refer to drawing: S-L				
53	Raking balustrade	m	64		
54	Horizontal balustrade	m	9		
55	Extra over for rounded closed end	No	2		
56	Extra over for T-intersection	No	4		
57	Extra over for bend	No	2		
	Carried Forward			R	

				R	
	Brought Forward				
	Welded balustrading 1050mm high extreme, of handrail comprising 70 x 70 x 2,5mm thick hollow section at 1600mm centres, 40 x 40 x 2,smm hollow section top and bottom rails, 10mm diameter vetical uprights at 100mm centres, 150 x 150 x 6mm baseplate with 4 holes for M16 x 100mm expansion bolts fixed to concrete slab				
	Refer to drawing:TB-L				
58	Horizontal balustrade	m	25		
59	Handrails fixed to walls	m	22		
60	Extra over for rounded closed end	No	8		
61	Extra over for mitred L-intersection	No	12		
62	Extra over for T-intersection	No	12		
63	Extra over for bend	No	8		
	NATURAL ANODISED LOUVRE UNITS				
	Purpose made mild steel Louvre units fixed to brickwork including steel frame as per Architects drawings and specifications				
64	Louvre unit for 648 x 648mm high - W04:S-L	No	2		
65	Louvre unit for 650 x 650mm high - W04: AD-L	No	4		
	Mild steel fully louvred standard transformer door to receive paint as per Architects drawings and specifications				
	Refer to drawing S100 AD-L-102				
66	Size 1500mm x 2125mm high	No	2		
	Carried Forward			R	

				R	
	Brought Forward				
	FLAG POST				
67	2 x 12m high zinc galvanised flag poles bolted to steel channel (211mm x 100mm) & channel to be anchored in concrete bases .		Item		
	SUNDRY METAL WORK				
	Sheeting, wire mesh, screening, expanded metal, gratings etc.				
68	Provide the amount as indicated for builders work in connection with metalwork sundry items		Item		100 000.00
	Yellow passivated witdoring security walls spikes				
69	2mm x 1480mm Spikes for walls	m	52		
70	40 x 4.5mm mentis grating	m2	3		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 13
Metalwork

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 14				
	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				
	Screed master self levelling screed, or similar approved, screed to floors that receive vinyl sheeting/tile as per manufacturers recommendations and architects approval				
1	4mm thick on floors and landing	m2	1 385		
	1:3 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
2	30mm Thick on floors and landings	m2	1 972		
	Granolithic screed on concrete, worked down to a true and even surface with a wood trowel				
3	30mm Thick on floors	m2	160		
	Carried Forward			R	

				R	
	Brought Forward				
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
4	On brick walls	m2	4 170		
5	On narrow widths	m2	46		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
6	40mm aluminium transition strip fixed to floor screeds between vinyl sheeting and porcelain tiles	m	928		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 14
Plastering

Item No		Quantity	Rate	Amount	

SECTION NO. 2

BILL NO. 15

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: Supply, cutting, handling, labour, adhesive etc.

Fixing

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.

Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.

Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.

Carried Forward R

				R	
	Brought Forward				
	Wastage				
	Tile wastage is deemed to be included in the rates.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note				
	All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	WALL TILING				
	120 x 330mm glossy ceramic tiles (PC allowance of R 150.00/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				
1	Plastered walls	m2	1 031		
2	On narrow widths	m2	52		
3	Splash backs	m2	32		
	200 x 200mm Tile in gloss finish (PC allowance of R 350.00/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	Plastered walls	m2	53		
5	On narrow widths	m2	32		
	Carried Forward			R	

				R	
	Brought Forward				
	FLOOR TILING				
	500 x 500mm anti-slip porcelain tiles (P.C allowance of R 350.00/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	On floors	m2	508		
7	100mm high skirting	m	126		
	500 x 500mm Heavy traffic porcelain tiles (P.C allowance of R 350.00/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	On floors	m2	73		
9	100mm high skirting	m	76		
	300 x 300mm Alaska resin mosaic (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				
10	On floors	m2	7		
11	100mm high skirting	m	31		
	ATTIC STOCK				
12	120 x 330mm glossy ceramic tiles(PC allowance of R 150.00/m2 excludes V.A.T. but includes delivery to site)	m2	50		
13	500 x 500mm anti-slip porcelain tiles (P.C allowance of R 300.00/m2 excludes V.A.T. but includes delivery to site)	m2	51		
14	500 x 500mm Heavy traffic porcelain tiles (P.C allowance of R 300.00/m2 excludes V.A.T. but includes delivery to site)	m2	73		
	Carried Forward			R	

				R	
	Brought Forward				
15	300 x 300mm Alaska resin mosaic (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	m2	7		
	SUNDRIES				
	10mm aluminium corner protector, stair nosings, expansion joint strips, etc				
16	Tile-in corner protector	m	65		
	10mm aluminium angle				
17	25 x 25mm Angle to edge of concrete or similarly approved	m	126		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 15
Tiling

Item No		Quantity	Rate	Amount
	SECTION NO. 2 **BILL NO. 16** **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	

				R	
	Brought Forward				
	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				
	Approved				
	Gutters				
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	458		
2	Extra over eaves gutter for stopped end	No	42		
3	Extra over eaves gutter for corner	No	38		
4	Extra over eaves gutter for outlet	No	45		
	Rainwater downpipes				
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	156		
6	Extra over downpipe for offset	No	90		
7	Extra over downpipe for shoe	No	45		
	Carried Forward			R	

				R	
	Brought Forward				
	SANITARY FITTINGS				
	WASH HAND BASINS				
	"Cobra Watertech or similar approved"				
8	Basin wall-Hun Duravit D code(Code: DUR-0705360008)	No	5		
	To be approved by Architect				
9	1200 x 600 x800mm Steel sink for central laboratory bench steel	No	11		
10	Oriza 480 x 400 x 215mm U/mount basin (Code: TR-S006)	No	4		
11	750 x 450mm wide tiffany bathroom vanity cabinet (Colour : white)	No	26		
12	1200 x 600 x 800mm high Cabinet and double basin free standing silhouette white	No	2		
	"Vaal or similar approved"				
13	475 x 370mm Hibiscus basin(Code: 702603)	No	4		
	SINKS, etc.				
	"Franke or similar approved"				
14	Sink sit-On stainless steel franke trendline 711 single bowl 800 x 460mm (Code: FRA-1030001)	No	5		
15	1200 x 535 wide Franke, trendline drop-on DEB	No	1		
16	Commercial double bowl sink size, 1700mm x 535mm wide overall	No	2		
17	1200 x 500 x 157mm Genesis double sink(Code: GSX621-120)	No	1		
18	340mm Kitchen sink franke rondo(Code: 702603)	No	1		
	Carried Forward			R	

				R	
	Brought Forward				
	WATER CLOSET				
	"Vaal or similar approved"				
19	360 x 555mm Standard white porcelain WC(Code: 439500)	No	27		
20	445 x 360mm White timber gloss coat ED single flap seat	No	27		
21	Energy wall hugh water closet pan(Code: 439500)	No	1		
	TOILET ROLL HOLDER				
	To be approved by Architect				
22	3 Roll toilet paper holder (Code: B-4288)	No	55		
	HAND TOWEL				
	To be approved by Architect				
23	265mm Hand towel holder(Code:7300)	No	31		
	SOAP DISPENSER				
	To be approved by Architect				
24	Soap dispenser (code B-2111)	No	69		
	WASTE BIN				
	To be approved by Architect				
25	21L Wenko swing waste bin	No	17		
26	21L Stainless foot pedal sanitary she bin	No	12		
	URINALS				
	Similar Approved				
27	420 x 290 x 300mm Urinal solo Cayman top entry white(MAC-201098)	No	13		
	Carried Forward			R	

				R	
	Brought Forward				
	SHOWER HEAD				
	Similar Approved				
28	Shower rose vandal master shower head (Code 30799)	No	6		
29	450 x 310mm wide Wall mounted shower seat(Code: XS)	No	1		
30	1500mm Long hand shower	No	1		
	WASH THROUGH				
	"Franke or similar approved"				
31	Franke economy ET101 single S/S (540 x 455mm)	No	1		
	WASTE UNIONS ETC				
32	32mm Basin waste pop up plug(Code: 302)	No	52		
33	Tourbillon square waste(Code: WRW005)	No	6		
34	Plastic black 40lt wash-trough C/W waste and bracket set	No	1		
35	90mm Waste plug including heavy duty securing chain	No	9		
	TRAPS ETC				
	Approved				
36	32mm "P" trap black	No	75		
37	32mm Shower trap including stainless steel grating	No	6		
	TAPS, VALVES, ETC				
	"Cobra Watertech or similar approved"				
38	Basin mixer singe lever relish chrome (Code: 51-wt-11D)	No	9		
39	Splashworks flair deck type P spout sink mixer	No	3		
	Carried Forward			R	

				R	
	Brought Forward				
40	Low pressure flush master valve	No	27		
41	Refuse area tap	No	14		
42	ITD black katiki sink mixer tap	No	13		
43	Fountain tap	No	2		
44	Mixer hansgrohe vernis chrome(code: HG-71649670)	No	6		
45	Sink mixer wall type single lever relish matt black(Code: 2067)	No	1		
46	Elbow action basin mixer (Code: LA-95)	No	4		
47	Garden tap brass 1/2" x 3/4"	No	2		
48	Elbow action basin mixer (Code: NM-502-218)	No	2		
	"Franke or similar approved"				
49	Shower/ bath diverter mixer franke aspera round chrome(Code: FRA-2150023)	No	1		
50	Franke serenus basin mixer (Code: sku:1188)	No	30		
51	Franke highrise swivel sink mixer, matt black	No	1		
52	Flair swivel mixer (Code: 303249)	No	1		
	FLOOR DRAIN				
	Floor Drain				
53	450 x 450 Cast iron rain drain grate	No	14		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 16
Plumbing and Drainage

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 17				
	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				
	4mm clear floated glass fixed glazing putty				
1	Panes not exceeding 0.1m2	m2	61		
2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	114		
3	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	104		
	4mm Frosted/obscure floated glass fixed glazing putty				
4	Panes not exceeding 0.1m2	m2	20		
	Carried Forward			R	

				R	
	Brought Forward				
	clear floated glass fixed glazing putty				
5	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	87		
	6mm Frosted/obscure floated glass fixed glazing putty				
6	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	60		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm "GG" quality polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
7	Mirror 450 x 600mm high	No	16		
8	Mirror 4750 x 800mm high	No	2		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 17
Glazing

Item No			Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 18				
	PAINTWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK TO PREVIOUS PAINTED				
	FLOATED PLASTER				
	Prepare and apply one coat universal undercoat and one coats acrylic PVA paint with matt finish or similar approved (Colour: to be confirmed by Architect)				
1	On internal walls	m2	821		
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA paint with matt finish or similar approved (Colour: to be confirmed by Architect)				
2	On fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	136		
	Carried Forward			R	

				R	
	Brought Forward				
	Prepare and apply one coat alkali resistant sealer and two coats matt enamel paint (Colour: to be confirmed by Architect)				
3	On fibre cement window sill not exceeding 300mm high or wide	m	129		
	METAL SURFACES				
	Prepare and apply one coat zinc chromate primer and two coats gloss enamel paint (Colour: to be confirmed by Architect)				
4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	37		
5	On window frames	m2	909		
6	On downpipes	m	136		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA (Colour: to be confirmed by Architect)				
7	On door	m2	46		
	Prepare and paint three coats clear varnish				
8	On door	m2	54		
	PAINTWORK ETC TO NEW WORK				
	FLOATED PLASTER				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA paint with matt finish or similar approved (Colour: to be confirmed by Architect)				
9	On internal walls	m2	2 879		
	Carried Forward			R	

				R	
	Brought Forward				
	SMOOTH CONCRETE				
	One coat solvent-based alkali resistant primer and two coats enamel paint (Colour: to be confirmed by Architect)				
10	On precast window surrounds	m2	164		
11	On concrete soffits and beams	m2	210		
	PLASTERBOARD				
	Prepare and apply one coat universal undercoat and two coats eggshell paint with matt finish or similar approved (Colour: to be confirmed by Architect)				
12	On internal ceilings and cornices	m2	725		
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA paint with matt finish or similar approved (Colour: to be confirmed by Architect)				
13	On internal ceilings and cornices	m2	303		
14	On fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	678		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint (Colour: to be confirmed by Architect)				
15	On fibre cement window sill not exceeding 300mm high or wide	m	186		
	METAL SURFACES				
	Prepare and apply one coat zinc chromate primer, and two coats gloss enamel paint (Colour: to be confirmed by Architect)				
16	On gates, grilles, burglar screens, balustrades, etc	m2	117		
17	On window frames	m2	500		
	Carried Forward			R	

				R	
	Brought Forward				
18	On doors	m2	19		
19	On door frames	m2	414		
20	On gutters	m	458		
21	On downpipes	m	160		
	Prepare and apply two coats of anti-corrosive paint and two coats enamel paint (Colour: to be confirmed by Architect)				
22	On mild steel columns, beams, etc	m2	888		
23	Structural steel members	m2	542		
	WOOD				
	One coat primer and one coat approved PVA emulsion paint				
24	On door	m2	410		
	Two coats clear eggshell polyurethane varnish				
25	On meranti skirting	m	929		
	One coat universal undercoat and two coats enamel paint (Colour: to be confirmed by Architect)				
26	On meranti cornice	m	216		
	Carried Forward to Summary of Section No.			R	

Section No. 2
BUILDER'S WORK
Bill No. 18
Paintwork

SECTION SUMMARY

Bill No		Page No		Amount
1	Decanting	51		
2	Demolitions and Alterations	57		
3	Earthworks	61		
4	Concrete,Formwork and Reinforcement	66		
5	Masonry	70		
6	Waterproofing	72		
7	Roof Coverings	74		
8	Carpentry and Joinery	82		
9	Floor Coverings,Plastic Lining etc.	84		
10	Ironmongery	88		
11	Ceilings,Partitions and Access Flooring	92		
12	Structural Steelwork	93		
13	Metalwork	105		
14	Plastering	107		
15	Tiling	111		
16	Plumbing and Drainage	117		
17	Glazing	119		
18	Paintwork	123		
	Carried to Final Summary		R	

Section No. 2
BUILDER'S WORK

Item No		Quantity	Rate	Amount	

SECTION NO. 3

BILL NO. 1

BUDGETARY ALLOWANCES

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Provisional Sums are to be expended/utilized only upon:

·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.

Cash discount

The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion

Carried Forward R

	Brought Forward		R	
	Profit			
	Where stated, the contractor may allow for profit if required			
	General attendance on nominated/selected subcontractors			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	Builder's work			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	SUNDRY BUILDER'S WORK			
1	Provide the sum of R500 000.00 (Five Hundred Thousand) for external sundry builder's work in connection with services	Item		500 000.00
	DETECTION OF EXISTING SERVICES			
2	Provide the sum of R85 000.00 (Eighty Five Thousand) for detection of existing services	Item		85 000.00
	PLAN SCRUTINY FEES			
3	Provide the sum of R20 000.00 (Twenty Thousand) for plan scrutiny fees	Item		20 000.00
	TRANSPORTATION COSTS			
4	Provide the sum of R15 000.00 (Fifteen Thousand) for plan scrutiny fees	Item		15 000.00
	Carried Forward to Summary of Section No.		R	
	Section No. 3 BUDGETARY ALLOWANCES, PROVISIONAL SUMS Bill No. 1 Budgetary Allowance			

Item No		Quantity	Rate	Amount	
	SECTION NO. 3 **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				
	Carried Forward		R		

	Brought Forward		R	
	Profit			
	Where stated, the contractor may allow for profit if required			
	General attendance on nominated/selected subcontractors			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	Builder's work			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	Signage Installation			
1	Allow an amount of R25 000.00 (Twenty Five Thousand) for provision of signage	Item		25 000.00
2	Attendance		%	
3	Profit		%	
	Landscaping			
4	Allow an amount of R318 000.00 (Three Hundred and Eighteen Thousand) for provision of landscaping	Item		318 000.00
5	Attendance		%	
6	Profit		%	
	Covered parking and walkways			
7	Allow an amount of R1 997 000.00 (One Million Nine Hundred and Ninety Seven Thousand) for provision of covered parking and structured walkways	Item		1 997 000.00
8	Attendance		%	
9	Profit		%	
	Carried Forward		R	

	Brought Forward		R	
	Combi courts, soccer field, etc			
10	Allow an amount of R2 326 000.00 (Two Million Three Hundred and Twenty Six Thousand) for provision of combi courts, soccer fields, etc	Item		2 326 000.00
11	Attendance		%	
12	Profit		%	
	Community Liaison Officer			
13	Allow an amount of R216 000.00 (Two Hundred and Sixteen Thousand) for provision of CLO	Item		216 000.00
14	Attendance		%	
15	Profit		%	
	Project Steering Committee Allowance			
16	Allow an amount of R57 600.00 (Fifty Seven Thousand Six Hundred) for provision of Project Steering Committee allowance	Item		57 600.00
17	Attendance		%	
18	Profit		%	
	CONTRACT PARTICIPATION GOALS			
	Needs analysis and enterprise development			
19	Allow an amount of R22 500.00 (Twenty Two Thousand Five Hundred) for the provision of needs analysis and enterprise development plan (R 5000.00 per targeted enterprise)	Item		22 500.00
20	Attendance		%	
21	Profit		%	
	Carried Forward		R	

	Brought Forward		R	
	Monitoring and interim reporting			
22	Allow an amount of R120 000.00 (One Hundred and Twenty Thousand) for the provision of monitoring and interim reporting (R 20 000.00 per targeted enterprise per quarter)	Item		120 000.00
23	Attendance		%	
24	Profit		%	
	Project completion report			
25	Allow an amount of R22 500.00 (Twenty Two Thousand Five Hundred) for the provision of project completion report (R 5000.00 per targeted enterprise)	Item		22 500.00
26	Attendance		%	
27	Profit		%	
	Carried Forward to Summary of Section No.		R	

Section No. 3
BUDGETARY ALLOWANCES, PROVISIONAL SUMS
Bill No. 2
Provisional Sums

SECTION SUMMARY

Bill No		Page No		Amount
1	Budgetary Allowance	126		
2	Provisional Sums	129		
	Carried to Final Summary		R	

Section No. 3
BUDGETARY ALLOWANCES, PROVISIONAL SUMS

PART B
CIVIL WORK

SCHEDULE A IKANENG PRIMARY SCHOOL WATER SUPPLY SECTION E

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 C	**SECTION E: SITE CLEARANCE: PIPELINE**				
E1	8.2.1 SDC8-1	Clear and grub vegetation and trees including grubbing up roots, backfilling holes and consolidating for trees of girth 1m				
E1.1		Strips, 3m wide (water) (Provisional)	m	2 130		
E6		**Finishings**				
E6.1 LIC	8.3.10	Topsoiling	m²	2130	-	
		TOTAL SECTION E : Carried to Summary			**R**	

SCHEDULE A IKANENG PRIMARY SCHOOL WATER SUPPLY SECTION F

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 C	**SECTION F: EARTHWORKS: ELEVATED TANK SITE**				
F1	8.3.3	**Restricted excavation**				
F1.1	8.3.5	Excavate for working space for chambers and drainage boxes exceeding 1,5 and not exceeding 3 m deep to allow for the placing and removal of formwork to side of concrete wall, the face of excavation 450 mm away from the face of the concrete wall, including returning, filling in and compacting excavated material	m²	50		
	SANS 1200 DB	**Pipe Trenches (CLOSE TO TANK)**				
F2	8.3.2 SDDB8-1	Excavation in all materials for trenches, backfill, compact and dispose of surplus material for all pipes up to 300mm nominal dia for depths:				
		Over and Up to				
F2.1		0,0 m 2,0 m	m	20		
F3		Extra over Items F2 for hard rock excavation (Prov)	m³	1		
F6	1200 LB	**Bedding**				
	8.2.1 SDLB8-1	**Provision of bedding from trench excavations:**				
F6.1	8.2.2.1	Compacted Selected Fill	m³	2		
	8.2.2.3	**From commercial sources: (Prov)**				
F6.2	8.2.2.1	Selected granular material	m³	3		
F6.3	8.2.3	Trench Backfill Compacted to 90% MOD AASHTO	m³	5		
F7	1200 D	**Grassing** (SDD5-8)				
F7.1	8.3.11	Hydroseeding in accordance with the	m²	10		
F8	1200D	**Disposal of surplus excavated material**				

SCHEDULE A IKANENG PRIMARY SCHOOL WATER SUPPLY SECTION F

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
F8.1		Extra over all excavations for carting surplus material to a dump site located by the Contractor inclusing for loading and transport	m^3	4		
F9		**Topsoiling**				
F9.1		Topsoil from spoil stockpile on site including depositing, spreading, grading to falls, slopes, curves and contours, 200mm thick and lightly compacting	m^2	5		
		TOTAL SECTION F: Carried to Summary			**R**	

SCHEDULE A IKANENG PRIMARY SCHOOL WATER SUPPLY SECTION G

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION G : MAIN PIPELINE				
	SANS 1200 DB	**Pipe Trenches**				
G1	8.3.2	Hand Excavation in all materials for trenches, backfill, compact and dispose of surplus material for all pipes up to 110mm nominal dia for depths:				
		Over and Up to				
G1.1		0,0 m 1,5 m	m	710		
G3	8.3.2	**Extra over Items G1 and G2 above for:**				
G3.1		Intermediate excavation	m³	70		
G3.2		Hard rock excavation (provisional)	m³	30		
G4	1200 LB	**Bedding**				
	8.2.1	**Provision of bedding from trench excavations (Class C):**				
G4.2	8.2.1	Selected fill material	m³	178		
	8.2.2.3	**From commercial sources: (Prov)**				
G4.3	8.2.2.3	Selected granular material (river sand)	m³	89		
G4.4	8.2.2.3	Selected fill material	m³	71		
G5.5		**Disposal of surplus excavated material**				
G5.5.1		Extra over all excavations for carting surplus material to a dump site located by the Contractor including for loading and transport	m³	169		
G6	SANS 1200 L	**Medium pressure pipelines**				
		Supply, lay, joint, bed class C and test the following pipes complete:				
G6.1		**HDPE pipes**				
G6.1.1		DN 50 mm Class 10 HDPE pipes	m	710		
G6.3		HDPE bends:				

SCHEDULE A IKANENG PRIMARY SCHOOL WATER SUPPLY SECTION G

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Supply and deliver to site, lay and bed the following long radius (3D) bends (including one coupling where applicable):				
		DN 50 mm HDPE:				
		Over and Up to:				
G6.3.4		67,5º 90º	No	9		
		Thrust blocks				
G6.4		Excavate in all materials beyond the limits of pipe trenches for thrust/anchor blocks where ordered by the Engineer				
G6.4.2		1.0 m to 2.0 m	m^3	9		
G6.5		Construct the following standard horizontal thrust blocks using class 15/19 Concrete				
		DN 50:				
		Over and Up to:				
G6.5.4		45º 90º	No	9		
G6.5.5		Isolating Valves for HDPE pipes	No	7		
		Valve Chambers				
		- Isolation Valves	No	7		
		TOTAL SECTION G: Carried to Summary			**R**	

SCHEDULE A IKANENG PRIMARY SCHOOL WATER SUPPLY SECTION H

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION H: ELEVATED WATER TANK				
H1	SANS 1200 G 8.4.3	**Supply, Delivery, Installation and Commissioning of 14,527l ELEVATED WATER TOWER** - 10m High Steel Structure to support Elevated Tank	Sum	1		
H2.1		Concrete base foundation for Elevated Steel Tank @ 25 MPa	Sum	1		
		TOTAL SECTION J: Carried to Summary				

SCHEDULE A IKANENG PRIMARY WATER SUPPLY SECTION I

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION I: WATER TREATMENT				
I1	8.2.1	Installation of Reverse Osmosis Equipment	Sum	1		
		TOTAL SECTION J: Carried to Summary				

SCHEDULE A IKANENG PRIMARY SCHOOL WATER SUPPLY SECTION J

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
J2		**PUMP**				
J2.1		**BOREHOLE PUMP 0.35 l/s @ 75 m**	Sum	2		
		TOTAL SECTION D: Carried to Summary			**R**	

SCHEDULE A: IKANENG PRIMARY SCHOOL WATER SUPPLY

SECTION CLAUSE	DESCRIPTION	TENDER TOTAL
SECTION E	SITE CLEARANCE: PIPELINE	
SECTION F	EARTHWORKS: ELEVATED TANK SITE	
SECTION G	MAIN PIPELINE	
SECTION H	ELEVATED WATER TANK	
SECTION I	WATER TREATMENT	
TOTAL OF SCHEDULE OF QUANTITIES CARRIED TO CALCULATION OF TENDER SUM		

SCHEDULE A IKANENG PRIMARY SCHOOL SEWER RETICULATION SECTION E

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 C	**SECTION E: SITE CLEARANCE: PIPELINE**				
E1	8.2.1 SDC8-1	Clear and grub vegetation and trees including grubbing up roots, backfilling holes and consolidating for trees of girth 1m				
E1.1		Strips, 3m wide (water) (Provisional)	m	468		
E6		**Finishings**				
E6.1 LIC	8.3.10	Topsoiling	m²	1400	-	
		Carried forward / …				

SCHEDULE A IKANENG PRIMARY SCHOOL SEWER RETICULATION SECTION F

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 C	**SECTION F: EARTHWORKS: SEPTIC TANK**				
F1	8.3.3	**Restricted excavation**				
F1.1	8.3.5	Excavate for working space for chambers and drainage boxes exceeding 1,5 and not exceeding 3 m deep to allow for the placing and removal of formwork to side of concrete wall, the face of excavation 450 mm away from the face of the concrete wall, including returning, filling in and compacting excavated material	m²	60		
F7	1200 D	**Grassing** (SDD5-8)				
F7.1	8.3.11	Hydroseeding in accordance with the	m²	1 400		
F9		**Topsoiling**				
F9.1		Topsoil from spoil stockpile on site including depositing, spreading, grading to falls, slopes, curves and contours, 200mm thick and lightly compacting	m²	1 400		
		TOTAL SECTION F: Carried to Summary			**R**	

SCHEDULE A IKANENG PRIMARY SCHOOL SEWER RETICULATION SECTION G

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		SECTION G : MAIN PIPELINE				
	SANS 1200 DB	**Pipe Trenches**				
G1	8.3.2	Hand Excavation in all materials for trenches, backfill, compact and dispose of surplus material for all pipes up to 110mm nominal dia for depths:				
		Over and Up to				
G3	8.3.2	**Extra over Items G1 and G2 above for:**				
G3.1		Intermediate excavation	m³	311		
	8.2.1	**Provision of bedding from trench excavations (Class C):**				
	8.2.2.3	**From commercial sources: (Prov)**				
G4.3	8.2.2.3	Selected granular material (river sand)	m³	164		
G4.4	8.2.2.3	Selected fill material	m³	131		
G4.8		Excavate and dispose of unsuitable material from trench bottom (Provisional)	m³	311		
G5.5		**Disposal of surplus excavated material**				
G5.5.1		Extra over all excavations for carting surplus material to a dump site located by the Contractor including for loading and transport	m³	140		
G6	SANS 1200 L	**Non-Pressurized Sewer Pipelines**				
		Supply, lay, joint, bed class C and test the following pipes complete:				
G6.1		**PVC pipes**				
G6.1.1		DN 110 mm PVC pipes	m	419		
G6.1.2		DN 160 mm PVC pipes	m	54		
		Over and Up to:				
G6.5.4		45º 90º	No	9		
G6.5.5		Manholes (Shaft Sections & Slabs - SANS 1294) Ave Depth = 1,9m	No	7		
		TOTAL SECTION G: Carried to Summary			**R**	

SCHEDULE A IKANENG PRIMARY SCHOOL SEWER RETICULATION SECTION H

ITEM NO	PAYMENT CLAUSE	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
H1	SANS 1200 G 8.4.3	**SECTION H: SEPTIC TANK** Construction of 86m3 Septic Tank	Sum	1		
		TOTAL SECTION J: Carried to Summary				

SCHEDULE A: IKANENG PRIMARY SCHOOL SEWER RETICULATION

SECTION CLAUSE	DESCRIPTION	TENDER TOTAL
SECTION E	SITE CLEARANCE: PIPELINE	
SECTION F	EARTHWORKS: ELEVATED TANK SITE	
SECTION G	MAIN PIPELINE	
SECTION H	SEPTIC TANK	

Item	Description	Unit	Qty	Rate	Amount
1700	**CLEARING AND GRUBBING**				
17.01	Clearing and grubbing	m2	652,00		R -
					R -
2300	**CONCRETE KERBING & CHANNELLING**				
23.01	Concrete kerbing (a)Fig 7 kerb(SABS 927) as shown on drawing	m	130,00		R -
					R -
3300	**MASS EARTHWORKS**				
33.04	Cut to spoil including free-haul up to 0 5km. Material obtained from:				
32.05	(a) Soft Excavation	m^3	196,00		R -
32.06	(b) Intermediate excavation	m^3	196,00		R -
33.14	In situ treatment of roadbed				
32.07	(a) In situ treatment by ripping	m^3	66,00		R -
33./1602	Overhaul of material hauled in excess of 0.5km	m^3-km			R -
					R -

Item	Description	Unit	Qty	Rate	Amount
3400	**PAVEMENT LAYERS OF GRAVEL MATERIAL**				
34.01	Pavement layers constructed from gravel taken from cut or borrow including free-haul up to 1.0km:				
	(a) Gravel selected layer compacted to:				
	(i) 90% of modified AASHTO density (G9 150mm thick layer)	m³	98,00		R -
	(c) Gravel subbase (Unstabilised gravel) compacted to:				
	(i) 93% of modified AASHTO density (G6 150mm thick layer)	m³	98,00		
	(c) Gravel subbase (Unstabilised gravel) compacted to:				
	(i) 95% of modified AASHTO density (G4 150mm thick layer)	m³	98,00		R -
	(f) Gravel base (chemically stabilised gravel) compacted to:				
	(ii) 86% apparent density (C3 150mm thick layer)	m³	98,00		R -
					R -
7300	**CONCRETE BLOCK PAVING FOR ROADS**				
73.01	Concrete block paving:				
	(b) 25MPa type S-A 80mm thick interlocking paving (Rate Includes 25mm sand bedding)	m²	652,00		R -
73.02	Cast in situ concrete edge and intermediate beams	m³	10,00		R -
73,03	Provision of approved hehicide and ant poison:				
	(a) Provision of materials	Prime Cost	1,00		R -
	(b) Contractor's charges and profit added to the prime cost sum	%		10%	R -
					R -
8100	**TESTING MATERIALS AND WORKMANSHIP**				
81.02	Other special tests requested by the Engineer:	PC Sum	1,00		R -
	(a) Cost of testing	%		10%	R -
					R -

PART C
ELECTRICAL WORK

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELECTRICAL INSTALLATION				
	Bill No. 1: Electricity Connection and Bulk Contribution				
	(Complete installation: Reticulation; electrical, telephone, intercom and bell system) NOTE: Tenderers are advised to study the specification before pricing the bill. Only conduit and draw wires for intercom systems must be provided				
1	Connection fee	Item	1	150 000,00	150 000,00
2	Bulk contribution	Item	1	50 000,00	50 000,00
3	Deposit payable to Supply Authority	Item	1	30 000,00	30 000,00
4	Attendance, profit and incidental costs for contractor in terms of the above items 1 to 3	%		230 000,00	
	CARRIED TO SUMMARY				
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 2: Electrical Distribution Boards				
	Distribution Board DB-ADM (Admin Block)				
5	Supply and install surface mounted distribution board complete with frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
6	6 Ampere S.P. 6 kA	No	1		
7	16 Ampere S.P. 6 kA	No	8		
8	20 Ampere S.P. 6 kA	No	19		
9	20 Ampere D.P. 6 kA	No	2		
10	32 Ampere D.P. 6 kA	No	4		
11	32 Ampere T.P. 6 kA	No	1		
12	40 Ampere D.P. 6 kA	No	1		
13	63 Ampere D.P. 6 kA	No	10		
	Earth Leakage Unit				
14	63 Ampere single phase 6 kA 30 mA	No	3		
	Contactor				
15	32A 3-Pole	No	1		
	Moulded Case circuit breakers				
16	80 Ampere T.P. 10 kA	No	1		
17	63 Ampere T.P. 6 kA	No	5		
	Class 1 Surge Arrestor				
18	Imax 15kA Surge Arrestor	No	1		
	Labels				
19	Danger sign and labels as specified	No	1		
	Distribution Board DB-E (Computer & Science Lab Block)				
20	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
21	16 Ampere S.P. 6 kA	No	3		
22	20 Ampere S.P. 6 kA	No	16		
23	32 Ampere S.P. 6 kA	No	1		
24	63 Ampere D.P. 6 kA	No	2		
	Earth Leakage Unit				
25	63 Ampere single phase 6 kA 30 mA	No	2		
	Moulded Case circuit breakers				
26	63 Ampere T.P. 6 kA	No	1		
	Class 1 Surge Arrestor				
27	Imax 6kA Surge Arrestor	No	1		
	Labels				
28	Danger sign and labels as specified	No	1		

	Distribution Board DB-L (Library & Multipurpose Block)				
29	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
30	16 Ampere S.P. 6 kA	No	3		
31	20 Ampere S.P. 6 kA	No	4		
32	63 Ampere D.P. 6 kA	No	1		
	Earth Leakage Unit				
33	63 Ampere single phase 6 kA 30 mA	No	1		
	Moulded Case circuit breakers				
34	63 Ampere T.P. 6 kA	No	1		
	Class 1 Surge Arrestor				
35	Imax 6kA Surge Arrestor	No	1		
	Labels				
36	Danger sign and labels as specified	No	1		
	Distribution Board DB-N (Nutrition Block)				
37	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
38	16 Ampere S.P. 6 kA	No	4		
39	20 Ampere S.P. 6 kA	No	4		
40	20 Ampere D.P. 6 kA	No	1		
41	32 Ampere D.P. 6 kA	No	1		
42	40 Ampere D.P. 6 kA	No	1		
43	63 Ampere D.P. 6 kA	No	1		
	Earth Leakage Unit				
44	63 Ampere single phase 6 kA 30 mA	No	1		
	Moulded Case circuit breakers				
45	63 Ampere T.P. 6 kA	No	1		
	Class 1 Surge Arrestor				
46	Imax 6kA Surge Arrestor	No	1		
	Labels				
47	Danger sign and labels as specified	No	1		
	Distribution Board DB-I (Sport Facility)				
48	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
49	16 Ampere S.P. 6 kA	No	3		
50	20 Ampere S.P. 6 kA	No	3		
51	32 Ampere D.P. 6 kA	No	2		
52	63 Ampere D.P. 6 kA	No	1		
	Earth Leakage Unit				
53	63 Ampere single phase 6 kA 30 mA	No	1		
	Moulded Case circuit breakers				
54	63 Ampere T.P. 6 kA	No	1		
	Class 1 Surge Arrestor				
55	Imax 6kA Surge Arrestor	No	1		
	Labels				
56	Danger sign and labels as specified	No	1		
	Distribution Board DB-T (Toilet Block)				
57	Supply and install flush mounted weatherproof distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				

58	16 Ampere S.P. 6 kA	No	3		
59	63 Ampere D.P. 6 kA	No	1		
	Class 1 Surge Arrestor				
60	Imax 6kA Surge Arrestot	No	1		
	Labels				
61	Danger sign and labels as specified	No	1		
	Distribution Board DB-GH (Guard House)				
62	Supply and install flush mounted weatherproof distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
63	16 Ampere S.P. 6 kA	No	2		
64	20 Ampere S.P. 6 kA	No	3		
65	20 Ampere D.P. 6 kA	No	1		
66	63 Ampere D.P. 6 kA	No	2		
	Earth Leakage Unit				
67	63 Ampere single phase 6 kA 30 mA	No	1		
	Class 1 Surge Arrestor				
68	Imax 6kA Surge Arrestot	No	1		
	Labels				
69	Danger sign and labels as specified	No	1		
	Distribution Board DB-J (Refuse Yard)				
70	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
71	16 Ampere S.P. 6 kA	No	1		
72	20 Ampere S.P. 6 kA	No	1		
73	63 Ampere D.P. 6 kA	No	2		
	Earth Leakage Unit				
74	63 Ampere single phase 6 kA 30 mA	No	1		
	Class 1 Surge Arrestor				
75	Imax 6kA Surge Arrestot	No	1		
	Labels				
76	Danger sign and labels as specified	No	1		
	Distribution Board DB-A (Existing Block A)				
77	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
78	16 Ampere S.P. 6 kA	No.	3		
79	20 Ampere S.P. 6 kA	No.	3		
80	63 Ampere D.P. 6 kA	No	2		
	Earth Leakage Units				
81	60 Ampere single phase 6 kA 30 mA	No.	1		
	Class 1 Surge Arrestor				
82	Imax 6kA Surge Arrestot	No	1		
	Labels				
83	Danger sign and labels as specified	No	1		
	Distribution Board DB-B (Existing Block B)				
84	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
85	16 Ampere S.P. 6 kA	No.	2		
86	20 Ampere S.P. 6 kA	No.	3		
87	63 Ampere D.P. 6 kA	No	2		

	Earth Leakage Units				
88	60 Ampere single phase 6 kA 30 mA	No.	1		
	Class 1 Surge Arrestor				
89	Imax 6kA Surge Arrestot	No	1		
	Labels				
90	Danger sign and labels as specified	No	1		
	Distribution Board DB-C (Existing Block C)				
91	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
92	16 Ampere S.P. 6 kA	No.	2		
93	20 Ampere S.P. 6 kA	No.	3		
94	63 Ampere D.P. 6 kA	No	2		
	Earth Leakage Units				
95	60 Ampere single phase 6 kA 30 mA	No.	1		
	Class 1 Surge Arrestor				
96	Imax 6kA Surge Arrestot	No	1		
	Labels				
97	Danger sign and labels as specified	No	1		
	Distribution Board DB-D (Existing Block D)				
98	Supply and install flush mounted distribution board complete with doors, frames, sub-frames, chassis, fixtures, fittings, terminations, busbars and wiring with spare space as per specification as well as security detail. Material and labour excluding the items listed hereunder	No	1		
	Equipment provided in Distribution Board				
99	16 Ampere S.P. 6 kA	No.	3		
100	20 Ampere S.P. 6 kA	No.	3		
101	63 Ampere D.P. 6 kA	No	2		
	Earth Leakage Units				
102	60 Ampere single phase 6 kA 30 mA	No.	1		
	Class 1 Surge Arrestor				
103	Imax 6kA Surge Arrestot	No	1		
	Labels				
104	Danger sign and labels as specified	No	1		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 3: Low Voltage Reticulation				
	Low Voltage Cables				
	600/1000V grade PVC/PVC/SWA/PVC				
	stranded copper conductor cable (termina-				
	tions and earth conductors elsewhere				
	measured)				
	Cable laid in trenching (excavations elsewhere				
	measured)				
105	25mm² x 4-core	m	330		
106	16mm² x 4-core	m	360		
107	16mm² x 2-core	m	590		
108	10mm² x 2-core	m	200		
109	4mm² x 4-core	m	300		
	Cable Terminations complete including				
	glands, shrouds, lugs, connections and				
	commissioning				
110	25mm² x 4-core	No.	4		
111	16mm² x 4-core	No.	6		
112	16mm² x 2-core	No.	10		
113	10mm² x 2-core	No.	4		
114	4mm² x 4-core	No.	12		
	Bare Stranded Copper Earth Wire strapped to				
	Cables (terminations elsewhere measured)				
115	16mm²	m	330		

116	10mm²	m	950		
117	6mm²	m	200		
118	2.5mm²	m	300		
	Bare Stranded Copper Earth Wire				
	Terminations complete including drilling,				
	bolting, lugs, connections and commissioning				
119	16mm²	No.	4		
120	10mm²	No.	16		
121	6mm²	No.	4		
122	2.5mm²	No.	12		
	EXCAVATIONS				
	All excavations, back filling and compaction				
	must be done manually using local labour				
	Excavate for cable and sleeve trench including				
	temporary support of sides, keeping				
	excavations dry, backfilling and compacting to				
	the Engineer's specification				
123	Pickable Soil	m³	190		
124	For Soft Rock	m³	40		
125	For Hard Rock	m³	20		
126	Bedding under and filling around cables comprising sifted sand	m³	60		
	CABLE MARKERS				
127	PVC warning marking tape	m	1000		
	MANHOLES				
128	600 x 600 x 800 mm	No.	9		
	SLEEVES				
129	110mm dia	m	600		
130	50mm dia	m	300		
131	32mm dia	m	500		
	DRAW WIRE				
132	Galvanised 1,6mm dia. draw wire	m	2000		
	Wall boxes as specified placed in				
	position for casting into concrete, building or				
	chased into brickwork including locknuts and				
	bushes				
133	Draw box with tamper proof cover	No.	9		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 4: Bells and Small Power Installation				
	BELLS AND SMALL POWER				
	Conduit and accessories as specified				
	Conduit placed in position for casting into				
	concrete or screed, for building or chased into				
	concrete brickwork and for surface mounted in				
	ceiling void including bending, threading,				
	jointing, short lengths, draw boxes, couplings,				
	bends, tees and saddles				
134	20mm	m	300		
	Round conduit box as specified				
	placed in position for casting into concrete,				
	building or chased into brickwork or surface				
	mounted including locknuts and bushes				
135	60mm deep	No.	1		
	Wall boxes as specified placed in				
	position for casting into concrete, building or				
	chased into brickwork including locknuts and				
	bushes				
136	100 x 100 x 50mm	No.	3		
	Blank cover				
137	100 x 100 x 50mm	No.	3		
	Expansion joint boxes as specified				
	placed in position for casting into concrete,				

	building or chased into brickwork including locknuts, bushes and sliding conduit stubs				
138	100 x 100mm	No.	1		
	CONDUCTORS				
	600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
139	4,0mm²	No.	300		
	Bare stranded copper earth conductors drawn into conduits				
140	2,5mm²	No.	150		
	APPLIANCES				
	Appliances complete with cover plates fixed in flush boxes (boxes elsewhere measured)				
	Bell Switch				
141	16 Ampere 250V grade	No.	1		
	Surface mounted appliance complete				
142	20 Ampere 2P Isolator with weatherproof box	No.	3		
143	200mm dia 250V grade Bell	No.	3		
	CARRIED TO SUMMARY				

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 5: Area Lighting				
	AREA LIGHTS				
	Installed and mounted on poles, including poles, excavation to install poles, lamps, 5A circuit breaker and 2 x 2.5mm² PVC conductors from circuit breaker to luminaire on top of pole.				
	Type S				
144	55W LED post top streetlight fitting complete with 4m steel pole, lamp, driver and all accessories	No.	12		
	CARRIED TO SUMMARY				

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 6: Admin Block Small Power and Lighting				
	ADMINISTRATION BLOCK				
	Tenderers are advised to study the specification before pricing the bill.				
	(Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
145	20mm	m	2000		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
146	60mm deep	No.	115		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				

147	100 x 50mm	No.	32		
148	100 x 100mm	No.	50		
	Conductors				
	600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
149	2,5mm²	m	1400		
150	4,0mm²	m	1200		
151	6,0mm²	m	640		
	Bare stranded copper earth conductors drawn into conduits				
152	2,5mm²	m	1000		
153	2,5mm² (Insulated)	m	300		
154	4,0mm²	m	320		
	POWER OUTLETS				
	Complete with cover plate fixed in flush boxes (boxes elsewhere measured)				
	Socket Outlets				
	16 Ampere round 3-pin 250V grade				
155	Single switched socket outlet with 3-pin euro socket	No.	38		
156	Single switched socket outlet (weatherproof)	No.	1		
157	5 Ampere unswitched socket outlet	No.	37		
	Supply and install socket outlets 16 Ampere round 3-pin 250V grade in power skirting				
158	Single switched socket outlet with 3-pin euro socket	No.	17		
159	Single dedicated switched socket outlet	No.	5		
160	20A single pole Isolator	No.	3		
161	20A double pole Isolator	No.	2		
162	32A double pole Isolator	No.	4		
163	40A double pole Isolator	No.	1		
	Light Switches				
164	16 Ampere 250V grade single lever one way	No.	26		
165	16 Ampere 250V grade double lever one way	No.	1		
166	16 Ampere 250V grade single lever two way	No.	4		
	WIREWAYS AND LUMINAIRES				
	Conduit & accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles				
167	25mm	m	400		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
168	100 x 100mm	No.	18		
	Blank Covers				
169	100 x 100mm	No.	18		
170	power skirting telephone/data outlets	No.	21		
	DRAW WIRE				
171	Galvanised 1,6mm draw wire	m	500		
	APPLIANCES				
	Surface mounted appliance complete				
172	16 Ampere photo cell in an empty luminaire	No.	1		
	LUMINAIRES				
	Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors,				

	connections and lamps Type C				
173	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65 Type F2	No	32		
174	2x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamps. Type F3	No	5		
175	60W, 1200x600mm recessed LED panel luminaire complete with prismatic clear diffuser and cool white lamps. Type V	No	37		
176	2x22W T8 LED, 1500mm surface mounted luminaire complete with vapourproof diffuser and cool white lamps. Type R	No	2		
177	LED Strobe light	No	1		
	POWER SKIRTING				
	Supply and install 2-compartment powerskirting complete with deviders, covers and accessories, mounted along straight wall				
178	2-compartment powerskirting	m	42		
179	90º Bends	No	4		
180	End Cap	No	12		
	TELEPHONE DISTRIBUTION BOARD				
	Flush mounted telephone distribution board size 450 x 450 x 180mm flush mounted complete with doors, frames, sub-frames,				
181	fixtures and 20mm thick soft board	No.	1		
	TESTING AND COMMISSIONING				
182	Test and commission of the complete electrical installation	Item	1		
	CARRIED TO SUMMARY				

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 7: Nutrition Centre Small Power and Lighting				
	NEW NUTRITION CENTRE				
	NOTE: Tenderers are advised to study the specification before pricing the bill. (Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
183	20mm	m	400		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
184	60mm deep	No.	27		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				

185	100 x 50mm	No.	9		
186	100 x 100mm	No.	14		
	Expansion joint boxes as specified in placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.				
187	300 x 300mm	No.	1		
	CONDUCTORS				
	600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
188	2,5mm²	m	450		
189	4,0mm²	m	300		
190	6,0mm²	m	40		
	Bare stranded copper earth conductors drawn into conduits				
191	2,5mm²	m	375		
192	4,0mm²	m	20		
	POWER OUTLETS				
	Complete with cover plate fixed in flush boxes (boxes elsewhere measured)				
	Socket Outlets				
	16 Ampere round 3-pin 250V grade				
193	Double switched socket outlet	No.	9		
194	Single switched socket outlet with 3-pin euro socket	No.	2		
195	20A double pole Isolator	No.	1		
196	32A double pole Isolator	No.	1		
197	40A double pole Isolator	No.	1		
	Light Switches				
198	16 Ampere 250V grade single lever one way	No.	6		
199	16 Ampere 250V grade double lever one way	No.	1		
200	16 Ampere 250V grade single lever two way	No.	2		
	WIREWAYS AND LUMINAIRES				
	APPLIANCES				
	Surface mounted appliance complete				
201	16 Ampere photo cell in an empty luminaire	No.	1		
	LUMINAIRES				
	Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps				
	Type C				
202	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65	No	10		
	Type F2				
203	2x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamps.	No	13		
	Type V				
204	2x22W T8 LED, 1500mm surface mounted luminaire complete with vapourproof diffuser and cool white lamps.	No	3		
	TESTING AND COMMISSIONING				
	Test and commission of the complete				
205	electrical installation	Item	1		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 8: Computer and Science Lab Power and Lighting				
	NEW COMPUTER AND SCIENCE LAB				
	Tenderers are advised to study the specification before pricing the bill. (Complete installation : Internal Electrical Installation)				

	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
206	20mm	m	1500		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
207	60mm deep	No.	20		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
208	100 x 50mm	No.	5		
209	100 x 100mm	No.	30		
	Conductors 600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
210	2,5mm²	m	1000		
211	4,0mm²	m	2000		
212	6,0mm²	m	100		
	Bare stranded copper earth conductors drawn into conduits				
213	2,5mm²	m	700		
214	2,5mm² (Insulated)	m	800		
215	4,0mm²	m	50		
	POWER OUTLETS Complete with cover plate fixed in flush boxes (boxes elsewhere measured) Socket Outlets 16 Ampere round 3-pin 250V grade				
216	Single switched socket outlet with 3-pin euro socket	No.	18		
217	5 Ampere unswitched socket outlet	No.	18		
	Supply and install socket outlets 16 Ampere round 3-pin 250V grade in power skirting				
218	Single switched socket outlet with 3-pin euro socket	No.	21		
219	Single dedicated switched socket outlet	No.	40		
220	32A double pole Isolator	No.	2		
	Light Switches				
221	16 Ampere 250V grade single lever one way	No.	5		
	WIREWAYS AND LUMINAIRES Conduit & accessories as specified Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles				
222	25mm	m	500		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are				

	encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
223	100 x 100mm	No.	4		
	Blank Covers				
224	100 x 100mm	No.	4		
225	power skirting telephone/data outlets	No.	40		
	DRAW WIRE				
226	Galvanised 1,6mm draw wire	m	1500		
	APPLIANCES				
	Surface mounted appliance complete				
227	16 Ampere photo cell in an empty luminaire	No.	1		
	LUMINAIRES				
	Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps				
	Type C				
228	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65	No	11		
	Type F2				
229	2x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamps.	No	2		
	Type F3				
230	60W, 1200x600mm recessed LED panel luminaire complete with prismatic clear diffuser and cool white lamps.	No	18		
	POWER SKIRTING				
	Supply and install 2-compartment powerskirting complete with deviders, covers and accessories, mounted along straight wall				
231	2-compartment powerskirting	m	108		
232	90º Bends	No	22		
233	End Cap	No	22		
	TELEPHONE DISTRIBUTION BOARD				
	Flush mounted telephone distribution board size 450 x 450 x 180mm flush mounted complete with doors, frames, sub-frames,				
234	fixtures and 20mm thick soft board	No.	1		
	TESTING AND COMMISSIONING				
	Test and commission of the complete				
235	electrical installation	Item	1		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 9: Library and Multipurpose Block Power and Lighting				
	NEW LIBRARY AND MULTIPURPOSE BLOCK				
	Tenderers are advised to study the specification before pricing the bill.				
	(Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
236	20mm	m	600		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
237	60mm deep	No.	51		

	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
238	100 x 50mm	No.	5		
239	100 x 100mm	No.	27		
	Conductors 600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
240	2,5mm²	m	650		
241	4,0mm²	m	650		
	Bare stranded copper earth conductors drawn into conduits				
242	2,5mm²	m	650		
	POWER OUTLETS Complete with cover plate fixed in flush boxes (boxes elsewhere measured) Socket Outlets 16 Ampere round 3-pin 250V grade				
243	Single switched socket outlet with 3-pin euro socket	No.	27		
244	5 Ampere unswitched socket outlet	No.	18		
	Light Switches				
245	16 Ampere 250V grade single lever one way	No.	3		
246	16 Ampere 250V grade single lever two way	No.	2		
	WIREWAYS AND LUMINAIRES Conduit & accessories as specified Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles				
247	25mm	m	300		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
248	100 x 100mm	No.	4		
	Blank Covers				
249	100 x 100mm	No.	4		
	DRAW WIRE				
250	Galvanised 1,6mm draw wire	m	1000		
	APPLIANCES Surface mounted appliance complete				
251	16 Ampere photo cell in an empty luminaire	No.	1		
	LUMINAIRES Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps Type C				
252	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65 Type F2	No	12		
253	2x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamps.	No	2		

	Type F3				
254	60W, 1200x600mm recessed LED panel luminaire complete with prismatic clear diffuser and cool white lamps.	No	18		
	TESTING AND COMMISSIONING				
255	Test and commission of the complete electrical installation	Item	1		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 10: Sport Facility Small Power and Lighting				
	NEW SPORT FACILITY				
	Tenderers are advised to study the specification before pricing the bill.				
	(Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
256	20mm	m	400		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
257	60mm deep	No.	42		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
258	100 x 50mm	No.	8		
259	100 x 100mm	No.	5		
	Conductors				
	600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
260	2,5mm²	m	520		
261	4,0mm²	m	120		
262	6,0mm²	m	120		
	Bare stranded copper earth conductors drawn into conduits				
263	2,5mm²	m	320		
264	4,0mm²	m	60		
	POWER OUTLETS				
	Complete with cover plate fixed in flush boxes (boxes elsewhere measured)				
	Socket Outlets				
	16 Ampere round 3-pin 250V grade				
265	Single switched socket outlet with 3-pin euro socket	No.	1		
266	Double switched socket outlet (weatherproof)	No.	2		
267	32A double pole Isolator	No.	2		
	Light Switches				
268	16 Ampere 250V grade single lever one way	No.	7		
269	16 Ampere 250V grade single lever one way (weatherproof)	No.	1		
	WIREWAYS AND LUMINAIRES				
	Conduit & accessories as specified				

	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles				
270	25mm	m	100		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
271	100 x 100mm	No.	1		
	Blank Covers				
272	100 x 100mm	No.	1		
	DRAW WIRE				
273	Galvanised 1,6mm draw wire	m	200		
	APPLIANCES				
	Surface mounted appliance complete				
274	16 Ampere photo cell in an empty luminaire	No.	1		
	LUMINAIRES				
	Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps				
	Type C				
275	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65	No	38		
	Type F2				
276	2x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamps.	No	2		
	TESTING AND COMMISSIONING				
	Test and commission of the complete				
277	electrical installation	Item	1		
	CARRIED TO SUMMARY				

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 11: Guard House Small Power and Lighting				
	NEW GUARD HOUSE				
	Tenderers are advised to study the specification before pricing the bill.				
	(Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
278	20mm	m	150		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
279	60mm deep	No.	10		
	Wall boxes as specified placed in position for casting into concrete, building or				

	chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
280	100 x 50mm	No.	2		
281	100 x 100mm	No.	6		
	Conductors 600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
282	2,5mm²	m	180		
283	4,0mm²	m	100		
	Bare stranded copper earth conductors drawn into conduits				
284	2,5mm²	m	140		
	POWER OUTLETS Complete with cover plate fixed in flush boxes (boxes elsewhere measured) Socket Outlets 16 Ampere round 3-pin 250V grade				
285	Single switched socket outlet with 3-pin euro socket	No.	1		
286	Double switched socket outlet	No.	4		
287	20A double pole Isolator (weatherproof)	No.	1		
	Light Switches				
288	16 Ampere 250V grade single lever one way	No.	1		
289	16 Ampere 250V grade double lever one way	No.	1		
	WIREWAYS AND LUMINAIRES Conduit & accessories as specified Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles				
290	25mm	m	100		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
291	100 x 100mm	No.	1		
	Blank Covers				
292	100 x 100mm	No.	1		
	DRAW WIRE				
293	Galvanised 1,6mm draw wire	m	200		
	APPLIANCES Surface mounted appliance complete				
294	16 Ampere photo cell in an empty luminaire	No.	1		
	LUMINAIRES Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps Type C				
295	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65 Type F2	No	8		
296	2x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamps.	No	1		

297	TESTING AND COMMISSIONING Test and commission of the complete electrical installation	Item	1		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 12: Refuse Yard Small Power and Lighting				
	NEW REFUSE YARD				
	Tenderers are advised to study the specification before pricing the bill.				
	(Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
298	20mm	m	70		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
299	60mm deep	No.	6		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
300	100 x 100mm	No.	1		
	Conductors				
	600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
301	2,5mm²	m	120		
302	4,0mm²	m	40		
	Bare stranded copper earth conductors drawn into conduits				
303	2,5mm²	m	80		
	POWER OUTLETS				
	Complete with cover plate fixed in flush boxes (boxes elsewhere measured)				
	Socket Outlets				
	16 Ampere round 3-pin 250V grade				
304	Double switched socket outlet (weatherproof)	No.	1		
	DRAW WIRE				
305	Galvanised 1,6mm draw wire	m	100		
	APPLIANCES				
	Surface mounted appliance complete				
306	16 Ampere photo cell in an empty luminaire	No.	1		
	LUMINAIRES				
	Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps				
	Type C				
307	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65	No	4		

	Type V				
308	2x22W T8 LED, 1500mm surface mounted luminaire complete with vapourproof diffuser and cool white lamps.	No	1		
	TESTING AND COMMISSIONING				
309	Test and commission of the complete electrical installation	Item	1		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 13: Existing Block A and D Small Power and Lighting				
	NOTE:				
	Tenderers are advised to study the specification before pricing the bill.				
	(Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
310	20mm	m	400		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
311	60mm deep	No.	46		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
312	100 x 50mm	No.	6		
313	100 x 100mm	No.	10		
	Expansion joint boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.				
314	300 x 300mm	No.	2		
	CONDUCTORS				
	600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
315	2,5mm²	m	500		
316	4,0mm²	m	300		
	Bare stranded copper earth conductors drawn into conduits				
317	2,5mm²	m	400		
	POWER OUTLETS				
	Complete with cover plate fixed in flush boxes (boxes elsewhere measured)				
	Socket Outlets				
	16 Ampere round 3-pin 250V grade				
	Single switched socket outlet with 3-pin euro socket	No.	6		
318	Double switched socket outlet	No.	4		
	Light Switches				
319	16 Ampere 250V grade single lever one way	No.	6		

	WIREWAYS AND LUMINAIRES				
	Conduit & accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles				
320	25mm	m	200		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
321	100 x 100mm	No.	4		
	Blank Covers				
322	100 x 100mm	No.	4		
	DRAW WIRE				
323	Galvanised 1,6mm draw wire	m	400		
	APPLIANCES				
	Surface mounted appliance complete				
324	16 Ampere photo cell in an empty luminaire	No.	2		
	LUMINAIRES				
	Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps				
	Type C				
325	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65	No	16		
	Type F2				
326	2x18W T8 LED, 1200mm surface mounted open channel luminaire complete with cool white lamps.	No	4		
	Type F4				
327	2x22W T8 LED, 1500mm surface mounted open channel luminaire complete with cool white lamps.	No	24		
	TESTING AND COMMISSIONING				
328	Test and commission of the complete electrical installation	Item	2		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 14: Existing Block B and C Small Power and Lighting				
	NOTE:				
	Tenderers are advised to study the specification before pricing the bill.				
	(Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
329	20mm	m	400		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface				

	mounted including locknuts and bushes				
330	60mm deep	No.	38		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
331	100 x 50mm	No.	4		
332	100 x 100mm	No.	8		
	Expansion joint boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts, bushes and sliding conduit stubs.				
333	300 x 300mm	No.	2		
	CONDUCTORS				
	600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
334	2,5mm²	m	800		
335	4,0mm²	m	400		
	Bare stranded copper earth conductors drawn into conduits				
336	2,5mm²	m	600		
	POWER OUTLETS				
	Complete with cover plate fixed in flush boxes (boxes elsewhere measured)				
	Socket Outlets				
	16 Ampere round 3-pin 250V grade				
	Single switched socket outlet with 3-pin euro socket	No.	4		
337	Double switched socket outlet	No.	4		
	Light Switches				
338	16 Ampere 250V grade single lever one way	No.	4		
	WIREWAYS AND LUMINAIRES				
	Conduit & accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles				
339	25mm	m	100		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
340	100 x 100mm	No.	4		
	Blank Covers				
341	100 x 100mm	No.	4		
	DRAW WIRE				
342	Galvanised 1,6mm draw wire	m	200		
	APPLIANCES				
	Surface mounted appliance complete				
343	16 Ampere photo cell in an empty luminaire	No.	2		
	LUMINAIRES				
	Installed and mounted to round boxes in brickwork or ceiling including all fixings,				

	brackets, supports, connectors, connections and lamps				
	Type C				
344	15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65	No	12		
	Type F4				
345	2x22W T8 LED, 1500mm surface mounted open channel luminaire complete with cool white lamps.	No	24		
	TESTING AND COMMISSIONING				
346	Test and commission of the complete electrical installation	Item	2		
	CARRIED TO SUMMARY				

	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 15: New Toilet Block Lighting				
	NOTE: Tenderers are advised to study the specification before pricing the bill. (Complete installation : Internal Electrical Installation)				
	SMALL POWER AND LIGHTING				
	Conduit and accessories as specified				
	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles.				
347	20mm	m	200		
	Round conduit box as specified placed in position for casting into concrete, building or chased into brickwork or surface mounted including locknuts and bushes				
348	60mm deep	No.	38		
	Wall boxes as specified placed in position for casting into concrete, building or chased into brickwork including locknuts and bushes				
	Where cavity walls or face brick walls are encountered tenderers must allow to install deep back to back (one end closed) wall boxes				
349	100 x 50mm	No.	3		
	CONDUCTORS				
	600/1000V grade PVC insulated stranded copper conductors drawn into conduit				
350	2,5mm²	m	400		
	Bare stranded copper earth conductors drawn into conduits				
351	2,5mm²	m	200		
	Light Switches				
352	16 Ampere 250V grade single lever one way	No.	3		
	WIREWAYS AND LUMINAIRES				
	APPLIANCES				
	Surface mounted appliance complete				
353	16 Ampere photo cell in an empty luminaire	No.	1		
	LUMINAIRES				
	Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps				

354	Type C 15W LED, round bulkhead luminaire complete with polycarbonate diffuser and cool white lamp. IP65	No	37		
	TESTING AND COMMISSIONING				
355	Test and commission of the complete electrical installation	Item	1		
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 16: Provisional Sums				
356	Earthing and Lightning Protection System	Sum			120 000,00
357	Add profit & attendance for above item: ...%	Sum			
358	Data and Telephone System	Sum			250 000,00
359	Add profit & attendance for above item: ...%	Sum			
360	Intercom System	Sum			60 000,00
361	Add profit & attendance for above item: ...%	Sum			
362	Alarm System	Sum			80 000,00
363	Add profit & attendance for above item: ...%	Sum			
364	CCTV System	Sum			200 000,00
365	Add profit & attendance for above item: ...%	Sum			
366	Gate Motor	Sum			25 000,00
367	Add profit & attendance for above item: ...%	Sum			
368	Power to HVAC Equipment	Sum			20 000,00
369	Add profit & attendance for above item: ...%	Sum			
370	60KVA Standby Diesel Generator	Sum			300 000,00
371	Add profit & attendance for above item: ...%	Sum			
372	Pump Room Electrical Services	Sum			60 000,00
373	Add profit & attendance for above item: ...%	Sum			
	CARRIED TO SUMMARY				

PROPOSED ADDITIONS AND REFURBISHMENT AT IKANENG SECONDARY SCHOOL

SUMMARY - BILLS OF QUANTITIES

ELECTRICAL INSTALLATION

BILL NO.	DESCRIPTION	AMOUNT
1	Bill No. 1: Electricity Connection and Bulk Contribution	
2	Bill No. 2: Electrical Distribution Boards	
3	Bill No. 3: Low Voltage Reticulation	
4	Bill No. 4: Bells and Small Power Installation	
5	Bill No. 5: Area Lighting	
6	Bill No. 6: Admin Block Small Power and Lighting	
7	Bill No. 7: Nutrition Centre Small Power and Lighting	
8	Bill No. 8: Computer and Science Lab Power and Lighting	
9	Bill No. 9: Library and Multipurpose Block Power and Lighting	
10	Bill No. 10: Sport Facility Small Power and Lighting	
11	Bill No. 11: Guard House Small Power and Lighting	
12	Bill No. 12: Refuse Yard Small Power and Lighting	
13	Bill No. 13: Existing Block A and D Small Power and Lighting	
14	Bill No. 14: Existing Block B and C Small Power and Lighting	
15	Bill No. 15: New Toilet Block Lighting	
	Sub-Total 1	
	Add P&Gs at ...%	
	Sub-Total 2	
16	Bill No. 16: Provisional Sums	
16,1	Earthing and Lightning Protection System	
16,2	Data and Telephone System	
16,3	Intercom System	
16,4	Alarm System	
16,5	CCTV System	
16,6	Gate Motor	
16,7	Power to HVAC Equipment	
16,8	60KVA Standby Diesel Generator	
16,9	Pump Room Electrical Services	
	Sub-Total 3	
	Total (Sub-total 2 + Sub-total 3) Excluding VAT	

EXCLUSIONS:

1) CONTRACTORS PROFIT AND MARK UP
2) ESCALATION, BASED ON CURRENT DAY RATES
3) PROFESSIONAL FEES AND DISBURSEMENTS
4) BUILDERS WORK

NOTE: ALL RATES AND PRICES EXCLUDE 15% VAT.
VAT WILL BE ADDED IN THE FINAL SUMMARY OF BILLS OF QUANTITIES -

PART D
MECHANICAL WORK

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PLUMBING & DRAINAGE				
	HOT & COLD WATER RETICULATION INSTALLATION - LIBRARY BLOCK				
	All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.				
1	**HOT & COLD WATER PIPING**				
	Supply and install Pex-Al-Pex mulatilayer pipes				
1,1	Ø32mm pipe	m	20		
1,2	Ø20mm pipe	m	50		
1,3	Ø16mm pipe	m	100		
2	**FITTNGS**				
2,1	Supply and install Pex-Al-Pex mulatilayer pipes Fittings				
2,2	Ø32mm Equal T-piece	No	2		
2,3	Ø32mm Ø16mm Ø32mm Un-Equal T-piece	No	5		
2,4	Ø32mm Ø20mm Ø32mm Un-Equal T-piece	No	5		
2,5	Ø20mm Ø16mm Ø20mm Un-Equal T-piece	No	10		
2,6	Ø16mm Ø16mm Ø16mm Equal T-piece	No	20		
2,7	Threaded Ø32mm Elbow: 90°	No	10		
2,8	Threaded Ø20mm Elbow: 90°	No	15		
2,9	Threaded Ø16mm Elbow: 90°	No	30		
2,9	Reducer: Ø32mm x Ø20mm	No	5		
2,10	Reducer: Ø20mm x Ø16mm	No	5		
2,11	Pipe clamps and hangers	Sum	1		
3	**THREADED VALVES**				
3,1	Supply and Install Ø32mm isolating gate valve on cold water main pipes	No	2		
3,2	Supply and Install Ø25mm isolating gate valve on cold water main pipes	No	2		
3,3	Supply and Install Ø25mm isolating ball valve with lever on cold and hot water main pipes	No	10		
3,4	Supply and Install Ø15mm isolating ball valve with lever on cold and hot water main pipes	No	25		
3,5	Flexible connector to sanitay fittings	No	25		
3,6	Supply and Install 15mm diameter stopcock/angle valve on cold and hot water pipe to sanitary appliance or sink	No	25		
	TOTAL CARRIED FORWARD TO SUMMARY				

	HOT & COLD WATER RETICULATION INSTALLATION - SPORT BLOCK				
	All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.				
	HOT & COLD WATER PIPING				
4	Supply and install Pex-Al-Pex mulatilayer pipes				
4,1	Ø32mm pipe	m	15		
4,2	Ø20mm pipe	m	40		
4,3	Ø16mm pipe	m	100		
5	**FITTNGS**				
5,1	Supply and install Pex-Al-Pex mulatilayer pipes Fittings				
5,2	Ø32mm Equal T-piece	No	1		
5,3	Ø20mm Ø16mm Ø20mm Un-Equal T-piece	No	10		
5,4	Ø20mm Ø20mm Ø20mm Equal T-piece	No	10		
5,5	Ø16mm Ø16mm Ø16mm Equal T-piece	No	10		
5,6	Ø32mm Elbow: 90°	No	3		
5,7	Threaded Ø20mm Elbow: 90°	No	90		
5,8	Reducer: Ø32mm x Ø25mm	No	5		
5,9	Reducer: Ø25mm x Ø20mm	No	5		
5,9	Ø20mm Famale couplings	No	76		
5,10	Pipe clamps and hangers	Sum	1		
5,11	25mm thick Hot water Pipe Insulation	Sum	1		
6	**THREADED VALVES**				
6,1	Ø32mm isolating gate valve on cold water main pipes	No	1		
6,2	Ø25mm isolating gate valve on cold water main pipes	No	8		
6,3	Ø20mm isolating ball valve with lever on cold and hot water main pipes	No	76		
6,4	Flexible connector to sanitay fittings	No	59		
6,5	15mm diameter stopcock/angle valve on cold and hot water pipe to sanitary appliance or sink	No	76		
7	**ELECTRIC WATER GEYSER & PRE-HEATER SOLAR GEYSER**				
7,1	Supply and install a vertical electric water geyser, mounted in ceiling void, complete with copper piping, pressure control valves, draincock, vaccum breakers, thermostat, expansion relief valve, strainers, lever ball valves, drip tray, hot water pipe insulation, mixing valve and all neccesary accesories and fttings, as indicated on the Tender drawings. Capacity: 150 litres Element Rating: 3 kW	No	2		
7,2	Supply ans install a Pre-heater solar geyser to comply with the SANS 1307,mounted on the roof complete with copper piping,pressure valves,draincock,vaccum breakers,thermostat,expansion relief valve,strainers,lever ball valves,drip tray,hot water pipe insulation,mixing valve,and all accesories and fittings,solar absorption unit must be flat pannels and tank heat exchangers should be of jacket type.No electric backup.	No	2		
	TOTAL CARRIED FORWARD TO SUMMARY				

	HOT & COLD WATER RETICULATION INSTALLATION - ABLUTION BLOCK				
	All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.				
	HOT & COLD WATER PIPING				
8	Supply and install Pex-Al-Pex mulatilayer pipes				
8,1	Ø32mm pipe	m	15		
8,2	Ø20mm pipe	m	40		
8,3	Ø16mm pipe	m	100		
9	**FITTNGS**				
9,1	Supply and install Pex-Al-Pex mulatilayer pipes Fittings				
9,2	Ø32mm Equal T-piece	No	1		
9,3	Ø20mm Ø16mm Ø20mm Un-Equal T-piece	No	10		
9,4	Ø20mm Ø20mm Ø20mm Equal T-piece	No	10		
9,5	Ø16mm Ø16mm Ø16mm Equal T-piece	No	10		
9,6	Ø32mm Elbow: 90°	No	3		
9,7	Threaded Ø20mm Elbow: 90°	No	90		
9,8	Reducer: Ø32mm x Ø25mm	No	5		
9,9	Reducer: Ø25mm x Ø20mm	No	5		
9,9	Ø20mm Famale couplings	No	70		
9,10	Pipe clamps and hangers	Sum	1		
9,11	25mm thick Hot water Pipe Insulation	Sum	1		
	THREADED VALVES				
10	Ø32mm isolating gate valve on cold water main pipes	No	1		
10,1	Ø25mm isolating gate valve on cold water main pipes	No	2		
10,2	Ø20mm isolating ball valve with lever on cold and hot water main pipes	No	4		
10,3	Flexible connector to sanitay fittings	No	35		
10,4	15mm diameter stopcock/angle valve on cold and hot water pipe to sanitary appliance or sink	No	35		
	TOTAL CARRIED FORWARD TO SUMMARY				

	FIRE & DOMESTIC WATER PUMPS & STORAGE TANKS INSTALLATION - PLANT ROOM				
11	All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of domestic and and fire protection water pipes up to and including roof height. All pipes shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, pupmps and water storage tanks as specified and drawings, piping to include piping between pumps and water storage shall be medium grade galvanized mildsteeland takns.				
11,1	20 000L Jojo Tanks	item	4		
11,2	Domestic - Hydro Multi-S 2 CR 10-6 (2.5L/S @ 4 Bar per pump)	item	1		
11,3	Domestic - 200L Pressure Vessel	day	1		
11,4	Domestic - Pipework/Valves & Fittings	item	1		
11,5	Fire - Grundfos NK50-160/177 & Jockey CR 3-8 (20L/sec @ 4 Bar Hydrand) (1L/S @ 3.1 Bar Jockey) Fire Hose Reels & Hydrand	item	1		
11,6	Fire - 200L Pressure Vessel	item	1		
11,7	Fire - Pipework/Valves/Fittings	item	1		
11,8	Consumables	item	1		
11,9	Labour/Installation	days	7		
11,9	Commissioning	units	2		
	TOTAL CARRIED FORWARD TO SUMMARY				

	SANITARY DRAINAGE INSTALLATION - ADMINISTRATION				
	These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.				
	SANITARY DRAINAGE PIPING				
	Polyvinyl Chloride (PVC) pipe, as 'Marley Pipe Systems' or equal approved, including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004				
12	**PIPING**				
12,1	Ø50mm uPVC pipe	m	50		
12,2	Ø110mm uPVC pipe	m	60		
	PIPE FITTINGS				
12,3	Ø50mm fitting; 90°elbow	No	12		
12,4	Ø110mm fitting; 45°elbow	No	12		
12,5	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	5		
12,6	Ø110mm fitting; 95°elbow, plain	No	10		
12,7	Ø50mm x Ø50mm x Ø50mm fitting; 90° Equal T-Piece	No	5		
12,8	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	12		
12,9	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	10		
12,10	Ø110mm x Ø50mm fitting; concentric reducer	No	5		
12,10	Ø110mm straight pan collars/connector	No	6		
12,10	Ø50mm vent one way valve	No	6		
	WASTE TRAPS				
12,10	40mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	12		
12,11	Supply and install chromium plated 'Cobra' Bottle Trap with 40mm female inlet x 50mm outlet for PVC tube connection	No	6		
12,12	110mm Floor Drain complete a trap.	No	5		
	TOTAL CARRIED FORWARD TO SUMMARY				

	SANITARY DRAINAGE INSTALLATION - GUARD HOUSE,NUTRITION & REFUSE BLOCK				
	These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.				
	SANITARY DRAINAGE PIPING				
	Polyvinyl Chloride (PVC) pipe, as 'Marley Pipe Systems' or equal approved, including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004				
13	**PIPING**				
13,1	Ø50mm uPVC pipe	m	12		
13,2	Ø110mm uPVC pipe	m	20		
	PIPE FITTINGS				
13,3	Ø50mm fitting; 90°elbow	No	12		
13,4	Ø110mm fitting; 45°elbow	No	12		
13,5	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	12		
13,6	Ø110mm fitting; 95°elbow, plain	No	12		
13,7	Ø50mm x Ø50mm x Ø50mm fitting; 90° Equal T-Piece	No	6		
13,8	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	6		
13,9	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	6		
13,10	Ø110mm x Ø50mm fitting; concentric reducer	No	1		
13,12	ø110mm straight pan collars/connector	No	3		
13,13	Ø50mm vent one way valve	No	6		
	WASTE TRAPS				
13,14	40mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	6		
13,15	Supply and install chromium plated 'Cobra' Bottle Trap with 40mm female inlet x 50mm outlet for PVC tube connection	No	6		
13,16	110mm Floor Drain complete a trap.	No	3		
	TOTAL CARRIED FORWARD TO SUMMARY				

	SANITARY DRAINAGE INSTALLATION - LIBRRAY BLOCK				
	These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.				
	SCIENCE LAB DRAINAGE PIPING				
	Vulcathene pipe system' or equal approved, including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004				
14	**PIPING**				
14,1	Ø50mm Vulcathene pipe	m	20		
14,2	Ø75mm Vulcathene pipe	m	80		
	PIPE FITTINGS				
14,3	Ø50mm fitting; 90°elbow	No	16		
14,4	Ø50mm fitting; 45°elbow	No	16		
14,5	Ø75mm fitting; 90°elbow	No	8		
14,6	Ø75mm fitting; 45°elbow	No	8		
14,7	Ø50mm vent one way valve	No	2		
14,8	Ø75mm x Ø50mm x Ø75mm fitting; 90° branch fitting; 87.5° swept entry, lateral branch junction	No	16		
	WASTE TRAPS				
14,9	Vulcathene a' Bottle Trap complete with coupling clamps.	No	16		
14,10	Vulcathene 10L Dilution Trap complete with coupling clamps.	No	2		
	TOTAL CARRIED FORWARD TO SUMMARY				

	SANITARY DRAINAGE INSTALLATION - SPORT BLOCK				
	These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.				
	SANITARY DRAINAGE PIPING				
	Polyvinyl Chloride (PVC) pipe, as 'Marley Pipe Systems' or equal approved, including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004				
15	**PIPING**				
	Ø50mm uPVC pipe	m	20		
15,1	Ø50mm uPVC pipe	m	20		
15,2	Ø110mm uPVC pipe	m	100		
	PIPE FITTINGS				
15,3	Ø50mm fitting; 90°elbow	No	25		
15,4	Ø110mm fitting; 45°elbow	No	25		
15,5	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	40		
15,6	Ø110mm fitting; 95°elbow, plain	No	20		
15,7	Ø50mm x Ø50mm x Ø50mm fitting; 90° Equal T-Piece	No	10		
15,8	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	20		
15,9	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	20		
15,1	Ø110mm x Ø50mm fitting; concentric reducer	No	20		
15,2	Ø110mm straight pan collars/connector	No	20		
15,3	Ø50mm vent one way valve	No	1		
	WASTE TRAPS				
15,4	40mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	14		
15,5	Supply and install chromium plated 'Cobra' Bottle Trap with 40mm female inlet x 50mm outlet for PVC tube connection	No	3		
15,6	110mm Floor Drain complete a trap.	No	2		

	SANITARY DRAINAGE INSTALLATION - ABLUTION BLOCK				
	These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.				
	SANITARY DRAINAGE PIPING				
	Polyvinyl Chloride (PVC) pipe, as 'Marley Pipe Systems' or equal approved, including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004				
16	**PIPING**				
16,1	Ø50mm uPVC pipe	m	30		
16,2	Ø110mm uPVC pipe	m	80		
	PIPE FITTINGS				
16,3	Ø50mm fitting; 90°elbow	No	30		
16,4	Ø110mm fitting; 45°elbow	No	30		
16,5	Ø110mm fitting; 95°elbow, with Ø50mm vent horn inspection	No	16		
16,6	Ø110mm fitting; 95°elbow, plain	No	20		
16,7	Ø50mm x Ø50mm x Ø50mm fitting; 90° Equal T-Piece	No	15		
16,8	Ø110mm x Ø110mm x Ø50mm branch fitting; 87.5° swept entry, lateral branch junction	No	2		
16,9	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	30		
16,1	Ø110mm x Ø50mm fitting; concentric reducer	No	2		
16,2	Ø110mm straight pan collars/connector	No	14		
16,3	Ø50mm vent one way valve	No	2		
	WASTE TRAPS				
16,4	40mm 'Dutton' flexi rubber "P" trap complete with coupling clamps.	No	14		
16,5	Supply and install chromium plated 'Cobra' Bottle Trap with 40mm female inlet x 50mm outlet for PVC tube connection	No	7		
16,6	110mm Floor Drain complete a trap.	No	2		

Item	Description	Unit	Qty	Rate	Price
	Bill No. 1				
	ADMINISTRATION & LIBRARY BLOCK- HVAC SYSTEMS				
1	**Air Conditioning Split Units**				
	Supply,and Install Split A/C Units inclusive of Refrigerant pipes, ducting, hangers, flanges, gaskets, clamps, fasteners, drain pipes, galvenized and Pvc trunking, etc.				
1,1	**5.2 kW Midwall Split Unit AC 01;** R410A Inveter Type, complete with refregirent piping and insullation,	No	1		
1,1	**11,66 kW**Under Ceiling **Split Unit AC 01;** R410A Inveter Type, complete with refregirent piping and insullation,	No	2		
2	**Supply, Install and Commission Fresh air system,inclusive of fans ,ducting, hangers, flanges, gaskets, clamps, fasteners, etc.**				
2,1	**FA 01: ICT Room : 60l/s** TD Silent fresh air fan c/w with accessories,	No	1		
2,2	Ø 150 Spiral Duct	m	6		
2,3	Fresh air intake weather lourve 200 x 200mm and washable air filter	No	1		
2,4	Ø 150 Spiral Duct un- insulated	No	1		
2,5	90 ° Bend	No	1		
2,6	Any other items required for complete operation *Specify:*				
3	**Supply, Install and Commission air extraction system,inclusive of fans ,ducting, hangers, flanges, gaskets, clamps, fasteners, etc.**				
3,1	**EF 01: ICT Room : 60l/s** TD Silent fresh air fan c/w with accessories,	No	1		
3,2	Ø 150 Spiral Duct un- insulated	m	6		
3,2	Extract air weather lourve 200 x 200mm and washable air filter	No	1		
3,3	Ø 150 Disc Valve	No	1		
3,3	90 ° Bend	No	1		
3,6	Any other items required for complete operation *Specify:*				
TOTAL CARRIED FORWARD TO SUMMARY					

Item	Description	Unit	Qty	Rate	Price
	Bill No.2 **KITCHEN EXTRACTION & VENTILATION SYSTEMS -NUTRITION BLOCK** **Supply, Install and Commissionkitchen extraction systems ventilation system,completewith, frames gaskets, clamps, fasteners, etc.**				
1	**NUTRITION BLOCK KITCHEN** TUCK SHOP CANOPY: 1 only box canopy at 1600 x 1200 x 600mm MATERIAL FOR CANOPY: Stainless steel FILTERS: 3 1 light fitting FAN: 1 x 500mm, 0.75kW motor, 1440 rpm, 380 volt, 3 phase Complete with D.O.L. Starter DUCTING: 2 meters straight 1 transition 1 square to round 2 bends 1 weather cap 2 silencers MATERIAL FOR DUCTING: Galvanized iron	Sum	2		
2	Supply and install 240mm Diameter Whirlyvent Turbine-Whirlyvent complete with accessories and fittings including roof sealing.	No	6		
TOTAL CARRIED FORWARD TO SUMMARY					

Item	Description	Unit	Qty	Rate	Price
	Bill No. 3				
	PROVISIONAL SUMS				
1	**Allow the amount for any other items deemed required for completion of electrical installation and wiring, complete for air conditioning units & fans as well as for adjustment of Mechanical engineering services to be used at the discretion of the principal agent and deducted in whole or in part if not required:**	Sum	1	R 15 000,00	R 15 000,00
2	**LP GAS SYSTEMS INSTALLATIONS - LIBRARY & NUTRITION BLOCK**				
2,1	Allow the amount for supply and installation of LP Gas Systems complete including accessories of to be used at the discretion of the principal agent and deducted in whole or in part if not required.	Sum	1	R 350 000,00	R 350 000,00
TOTAL CARRIED FORWARD TO SUMMARY					**R 365 000,00**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 1				
1	**FIRE AND DIRECTIONAL SIGNAGE**				
	Photoluminescent fire and directional signage in multiples of 190 x 190mm as SANS 1186 - 1&5 photoluminescent, installed in accordance with SANS 10400 and framed with standard aluminium moulding and mounted with concealed screws to brickwork or concrete.				
1.1	Directional signage type E1.	No.	2		
1.2	Directional signage type E2.	No.	2		
1.3	Directional signage type E3.	No.	35		
1.4	Directional signage type E6	No.	2		
1.5	Fire signage type F4.	No.	10		
1.6	Fire signage type F30.	No.	10		
1.7	Fire signage type F49.	No.	1		
2	**FIRE APPLIANCES ETC.**				
	"Chubb" hose reel complete with control valve, 30m length of 20mm red reinforced hose, nozzlecock and bracket, all mounted on strongly constructed wall bracket complete with bolts grouted in and including mortices in wall and joint to steel pipes	No.	10		
2.1	"Chubb" 4.5kg DCP fire extinguisher on and including hardwood backboard plugged, screwed and plugged to wall.	No.	30		
2.2	"Chubb" 5kg CO2 fire extinguisher on and including hardwood backboard plugged, screwed and plugged to wall.	No.	1		
	Fire hydrant pedestals:				
2.3	65mm Instantaneous right-angle fire hydrant.	No.	7		
2.4	Booster connection				
2.5	Booster connection with non-return valve	No.	1		
	FIRE SUPPLIES				
	Fire reticulation shall be installed in accordance with SANS 1200 series of specifications, and pipe bedding shall be Class B SANS 1200 LB.				
3	Class 16 (SANS 966) uPVC pressure pipes:				
	Extra over uPVC pressure pipes for the following Class 16 uPVC pressure fittings:				
3.1	110mm pipe laid in ground	m	500		
3.2	75m pipe laid in ground	m	20		
3.3	65mm pipe laid in ground	m	12		
3.4	32mm pipe laid in ground	m	450		
3.5	110mm pipe fitings	Sum	1		
3.6	75mm pipe fitings	Sum	1		
3.7	65mm pipe fitings	Sum	1		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3.8	25mm pipe fitings	Sum	1		
3.9	Medium class galvanised mild steel pipe according to SANS 62-1 with threaded connections including straight sockets in running lengths:				
3.10	100mm pipe	m	10		
3.11	65mm pipe	m	20		
3.12	25mm pipe	m	120		
3.13	100mm pipe fitings	Sum	1		
3.14	65mm pipe fitings	Sum	1		
3.15	25mm pipe fitings	Sum	1		
3.16	Densyl Tape: Wrapping around 100mm pipe including fittings.	Sum	1		
TOTAL CARRIED FORWARD TO SUMMARY					**R 0,00**

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Bill No. 2				
1	**PROVISIONAL SUMS**				
1.1	Allow the amount for electrical installation and wiring, complete for fire protection equiptmentas well as for adjustment of Mechanical engineering services to be used at the discretion of the principal agent and deducted in whole or in part if not required.	Sum	1	R 25 000,00	R 25 000,00
1.2	Add profit & Attendance ...%	Sum			
TOTAL CARRIED FORWARD TO SUMMARY					**R 25 000,00**

ITEM	DESCRIPTION	AMOUNT
	SUMMARY	
1	**FIRE PROTECTION**	
2	**PROVISIONAL SUMS**	**R 25 000,00**
TOTAL CARRIED TO MAIN SUMMARY (EXCLUDING 15% VAT)		

FINAL SUMMARY

Section No		Page No		Amount
1	PRELIMINARIES	43		
2	BUILDER'S WORK	124		
3	BUDGETARY ALLOWANCES, PROVISIONAL SUMS	131		
	Sub Total		R	
	PART B _ CIVIL WORK	Item		
	PART C_ ELECTRICAL WORK	Item		
	PART D_ MECHANICAL WORK	Item		
	Sub- Total		R	
	PRICE ADJUSTMENT FOR INFLATION TO THE CONTRACT			
	Allow an amount of R3 800 000.00 (Three Million Eight Hundred Thousand) for price adjustment for inflation. Price adjustment allowance to be used in whole or in part, and will only be applicable/applied to **works** executed after 12 months of the construction duration	Item		
	CONTINGENCY ALLOWANCE TO THE CONTRACT			
	Allow a factor of 5% 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.		%	
	Sub Total		R	
	CONTRACT SKILLS DEVELOPMENT GOAL(CSDG)			
	Allow a minimum factor of 0.5% for Contract Skills Development Goal(CSDG sum = CE(0.5%) x subtotal of tender amount)		%	
	Carried Forward		R	

FINAL SUMMARY

Section No		Page No		Amount
	Brought Forward		R	
	Sub Total		R	
	VAT @ 15%		R	
	Carried to Form of Tender		R	

C3 SCOPE OF WORKS

C3.1 Scope of Work

1) DESCRIPTION OF THE WORKS

1.1 Employer's objectives

The scope of works is to undertake Construction of Technical Workshops at Insert project nameHigh School.

The employer may include the following statement in the tender documents should the employer wish to have specific training carried out as an objective of the project: One of the objectives of the project is to training ether of the following: (occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates)

The objective of the project is to provide for a minimum contract participation goal (CPG) of 5% of the total project value and to develop targeted enterprise by the main or lead partner contractors.

The Contractor shall:

- Subcontract a minimum of 5% of the total project value to targeted enterprises;
- Perform needs analysis on the targeted enterprise to identify developmental goals;
- Provide internal mentorship support to improve the targeted enterprise/s performance;
- Develop a project specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas to the CIDB Competence Standard for Contractors Gazette No. 41237, 10 November 2017
- Monitor and report the progress of the agreed development areas with the targeted enterprise/s
- Submit a project completion report to the Employer's representative for each targeted enterprise.

The Contractor shall provide opportunities to learners requiring structured workplace learning using one or a combination of any of the Skills Methods as agreed: accommodate Part/Full Occupational qualification (Method 1), Trade qualifications learners (Method 2),train Work Integrated Learners – P1 and P2 Learners (Method 3) and/or Professional Candidates (Method 4) as indicated in the cidb Standard and as agreed to by the Employer on this project (Employer to stipulate)

The Contractor may only place 33% employees employed by him/her or that of his/her subcontractor contributing to the CSDG.

The Contractor shall achieve the measurable CSDG by providing opportunities to learners requiring structured workplace learning using one or a combination of any of the Skills Methods as agreed: accommodate Part/Full Occupational qualification (Method 1), Trade qualifications learners (Method 2), Work Integrated Learners (Method 3) and/or Candidates (Method 4) as per the cidb Standard in relation to work directly related to the Contract as indicated under clause 4.2 and 4.3 in the cidb Standard. (Employer to stipulate).

The Contractor shall ensure that all beneficiaries of the Standard are registered with CIDB Skills Development Agency (SDA).

The Contractor shall be responsible for developing subcontractors in accordance with the cidb Standard for Indirect Targeting for Enterprise Development.

The Contractor shall be responsible for the appointment of the Enterprise Development Coordinator.

1.2 Overview of the works

1.2.1 The scope of works comprises refurbishing Existing Block A, B , C & D

1.2.2 New Administration Block

1.2.3 New Nutrition Block,

1.2.4 New Sports Block

1.2.5 New Refuse Block

1.2.6 New Computer & Science Block

1.2.7 New Library & Multipurpose

1.2.8 New Toilet Block

1.3 Labour-intensive works

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work

1.4 Extent of the works

The extent of the works shall comply with the Employer's requirements as outlined on the drawings listed on 2.4 below

1.5 Location of the works

Works will be executed in an approved stand/erf/portion as described in the tittle deed and delimited in the surveyor general diagram.INSERT PROJECT NAMEHIGH SCHOOL:

The project is located at **E1 Zone 5 Sutelong in Bojanala Local Municipality, North West Province. Site Coordinates: latitude S 25 9’ 18.72° longitude E 27 58’ 18.54°.**

1.6 Temporary works

The Contractor shall provide, erect, maintain and remove on completion of the works, a temporary office to be used by Principal Agent when they are onsite and project meetings which should include ablution, parking, eating area, etc. as may be deemed necessary for project use. The location of the Contractor's facilities shall be pre approved by the Principal Agent before site establishment. In his office there must be kept a copy of all working drawings suitably mounted, a copy of the contract documents in a good and orderly condition, the site instruction and site diary books and any specification referred to in the contract documents.

2) ENGINEERING

2.1 Design services

The design responsibility shall be allocate as follows:

Works designed by ..... Employer

Temporary works ……..... Contractor

Preparation of as-built drawings ..... Contractor

2.2 Employer's design

The Employer will be responsible for the design of the permanent works unless otherwise stated. The Contractor is responsible for the design of the temporary works and their compatibility with the permanent works.

2.3 Design brief

The Employer and the Employer's design agent will be responsible for the design of the permanent works unless otherwise stated. The Contractor will be required to submit as-built drawings.

- Construction breaks and the extent of individual concrete pours
- Routing of and junctions in all services
- Salient features for the operation and maintenance of services

and to be submitted to the following employer's required format and manner:

- A paper copy complete with approval signatures of the agent/agents bound into the operating instruction manuals
- Tiff format scanned versions of the approved paper copy
- Electronic version of approved drawings on CD in either Caddie.drw or Autocad.dwg formats

2.4 Drawings

The following drawings are applicable to the contract:

Drawing number	Title
Architectural	
AD-L-100	NEW ADMINISTRATION BLOCK FLOOR AND ROOF PLAN
AD-L-101	ADMINISTRATION BLOCK ELEVATIONS
AD-L-102	ADMINISTRATION BLOCK SECTIONS, DOOR & WINDOW SCHEDULES
AD-L-104	PRINCIPAL & VICE B.I.C STAFF KITCHEN SHOPFITTING TROPHIES CABINET
AD-L-105	STRONG/CLEANERD ROOM FIXED SHELVING RECEPTION, CLEANERS BENCH AND ADMIN/ACCOUNTING DESK DETAILS
CP-L-100	TYPICAL CARPORT DETAILS
EC-L-100	EXISTING CLASSROOMS PLANS, ELEVATIONS AND
EC-L-101	SECTION EXISTING CLASSROOMS FINISHES SCHEDULE
GH-L-100	NEW GUARD HOUSE PLANS, ELEVATIONS AND SECTION

GH-L-101	NEW GUARD HOUSE SHOPFITTING DRAWINGS, FLOOR FINISHES AND SCHEDULES
NC-L-100	NEW BLOCKS LABS, LIBRARY AND MULTIPURPOSE FLOOR PLANS
NC-L-101	NEW BLOCKS LABS, LIBRARY AND MULTIPURPOSE DETAIL, SECTION, DOOR AND WINDOW SCHEDULES
NC-L-102	NEW BLOCKS LABS, LIBRARY AND MULTIPURPOSE DETAIL AND ELEVATIONS
NC-L-103	NEW BLOCKS LABS, LIBRARY AND MULTIPURPOSE FINISHES SCHEDULES
NC-L-104	NEW BLOCKS LABS, LIBRARY AND MULTIPURPOSE ROOF PLAN AND DETAILS
NC-L-105	NEW BLOCKS LABS SHOPFITTING DETAIL
N-L-100	NEW NUTRITION BLOCK PLANS AND ELEVATIONS
N-L-101	NEW NUTRITION BLOCK SECTIONS DOOR AND WINDOW SCHEDULE
N-L-102	NEW NUTRITION BLOCK KITCHEN AND SCULLERY DETAILS
N-L-103	NEW NUTRITION BLOCK SHELVING AND GAS CAGE DETAILS
PR-L-100	NEW PUMP ROOM PLANS ELEVATIONS AND SECTION
R-L-100	NEW REFUSE BLOCK PLAN, ELEVATIONS, SECTIONS AND SCHEDULES
S-L-100	NEW SPORTS BLOCK, FLOOR AND ROOF PLAN
S-L-101	NEW SPORTS BLOCK, SECTIONS AND ELEVATIONS
S-L102	NEW SPORTS BLOCK, DOOR, AND WINDOW SCHEDULE
S-L-103	NEW SPORTS BLOCK, BENCH AND DRINKING FOUNTAIN DETAILS
S-L-104	NEW SPORTS BLOCK, VANITY DETAILS
S-L-106	NEW SPORTS BLOCK, DISABLED TOILETS
	UPS
TB-L-100	NEW TOILET BLOCK PLAN, ELEVATIONS, SECTION AND SCHEDULE
TB-L-101	NEW TOILET BLOCK PLAN, VANITY DETAILS AND DISABLED LAYOUT

Civil

ROAD AND WALKWAY DETAILS
SEWER GENERAL LAYOUT
STOTMWATER INTERNAL LAYOUT

Structural

ADMIN FOUNDATION LAYOUT
COMPUTER AND SCIENCE LAB FOUNDATION LAYOUT
LIBRARY AND MULTIPURPOSE CLASS FOUNDATION LAYOUT
GUARD HOUSE FOUNDATION LAYOUT
NEW NUTRITION CENTRE FOUNDATION LAYOUT
NEW TOILET BLOCK FOUNDATION LAYOUT
SPORT FACILITY BLOCK FOUNDATION LAYOUT
SEPTIC TANK FOUNDATION LAYOUT
ASSEMBLY COURTYARD STORMWATER LAYOUT
PARKING LAYOUT

Electrical

E – 01	SITE PLAN-SLEEVES AND RETICULATION LAYOUT HVAC & FIRE PROTECTION
E – 02	SITE PLAN- EXTERNAL LIGHTING LAYOUT HVAC & FIRE PROTECTION
E – 03	NEW ADMIN BLOCK- POWER AND LIGHTING LAYOUT
E – 04	NEW COMPUTER AND SCIENCE BLOCK- POWER AND LIGHTING LAYOUT
E – 05	NEW LIBRARY AND MULTIPURPOSE BLOCK- POWER AND LIGHTING LAYOUT
E– 06	NEW SPORTS FACILITY- POWER AND LIGHTING LAYOUT
E – 07	NEW GUARD HOUSE- POWER AND LIGHTING LAYOUT
E – 08	NEW REFUSE YARD- POWER AND LIGHTING LAYOUT
E – 09	NEW TOILET BLOCK- POWER AND LIGHTING LAYOUT
E – 10	EXISTING CLASSROMS- POWER AND LIGHTING LAYOUT
E – 11	ELECTRICAL DB SINGLE LINE DIAGRAMS

Mechanical

ME – 01	ADMIN & ABLUTION BLOCK SANITARY DRAINAGE LAYOUT HVAC & FIRE PROTECTION
ME – 02	GUARD HOUSE SANITARY DRAINAGE LAYOUT HVAC & FIRE PROTECTION
ME – 03	LIBRARY BLOCK SANITARY DRAINAGE LAYOUT HVAC & FIRE PROTECTION
ME – 04	NUTRITION BLOCK SANITARY DRAINAGE LAYOUT HVAC & FIRE PROTECTION
ME – 05	SPORTS BLOCK SANITARY DRAINAGE LAYOUT HVAC & FIRE PROTECTION
ME – 06	TOILET BLOCK SANITARY DRAINAGE LAYOUT HVAC & FIRE PROTECTION

3) PROCUREMENT

3.1 Subcontracting

3.1.1 Scope of mandatory subcontract work

As per the mandatory sub-contracting clause, the Contractor must not sub-contract more than 25%, 10% of which should be allocated to the IDT CDP contractors between 1GB and 4GB (list per cluster will be provided upon appointment).

The Contractor shall without delay enter into contracts with the Domestic Subcontractors as submitted on the returnable schedule and forward a copy of these agreements to the Principal Agent. The Contractor shall remain responsible for providing the subcontracted portion of the works as if the work had not been subcontracted.
The Contractor to take note of item 3.2.2 below

3.1.2 Preferred subcontractors / suppliers

3.1.3 Subcontracting procedures

See items 3.2.1 and 3.2.2 as well as BID data

3.1.4 Attendance on subcontractors

Attendance to Domestic Sub-contractors as stated above should be priced under the relevant items in the Preliminaries section of the bills of quantities. Attendance to nominated sub-contractors should be priced under the relevant items in the Provisional Sums section of the bills of quantities.

3.2 CIDB B.U.I.L.D. Programme

The contractor must comply with the Department of Public Works and Infrastructure General Notice 1779 of 2023 as per Construction Industry Development Board (CIDB) for achieving the standards for delivery skills for infrastructure contracts 31 March 2023.

4) CONSTRUCTION

4.1 Works specification

The works specifications that are applicable to the works are attached to the bid document as well as other recognized specifications obtainable on request from the Employer:

- Applicable SANS 2001 standards
- Applicable national and international standards
- Particular / generic specifications

5) MANAGEMENT

5.1 Management of the works

5.1.1 Planning and programming

The Contractor shall submit within the period stated in the Contract Data a suitable and realistic construction programme for the consideration of the Principal Agent.

5.1.2 Recording of weather

The Contractor shall erect an effective rainfall gauge on the site and record the daily rainfall figures in a book. Such book shall be handed to the employer's representative for his signature no later than 12 days after rain that is considered to justify an extension of time occurs.

5.1.3 Unauthorized persons

The Contractor shall keep unauthorized persons from the works at all times. Under no circumstances may any person except guards be allowed to sleep on the building site.

5.1.4 Key personnel

The Contractor shall submit an organogram indicating all key personnel involved in this contract as well as their telephone or cell phone numbers. This information should be available within 2 (two) weeks after the award of the contract.

5.1.5 Management meetings

The Employer's Representative and the Contractor shall hold meetings relating to the progress of the works at regular intervals and at other such times as may be necessary. The Contractor shall attend all site meetings and shall ensure that all persons under his jurisdiction are notified timeously of all site meetings should the Employer's Representative require their attendance at such meetings.

The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site instruction book, a complete set of contract working drawings and a copy of the procurement document and make these available at all reasonable times to all persons concerned with the contract.

5.1.6 Forms for contract administration

All contract administration forms must be in the manner prescribed by the JBCC as well as the scope of work

The Contractor shall be required to submit an updated contractor monthly report during site meetings, which will be used by the consultant to update the client.

5.1.7 Payment certificates

The Contractor to ensure that the VAT invoice required with each certificate is delivered timeously. The date of the certificate will be that of the date when the certificate is received by the consultant.

The Contractor to ensure timeous submission of all required documentation for the expedient processing of payment certificates, as required by the client, eg BAS entity forms, company registration details, VAT clearance certificates, etc. The Contractor is responsible for such documentation submission.

5.1.8 Daily records

The Contractor shall provide an A4 triplicate book to be used as a Daily Diary book for the duration of the contract. The Principal Agent shall retain the original sheet and the Contractor shall retain the first copy of each sheet. The second copy of each completed sheet shall be left in the Daily Diary Book. The diary shall be completed on a daily basis.

In addition to this the Contractor shall provide an A4 size triplicate book to act as a Site Instruction book. The Principal Agent shall retain the original and the Contractor shall retain the first copy of each sheet. The second copy of each completed sheet shall be left in the Site instruction book. Only the Principal Agent and/or delegated representative will have the authority to issue Site Instruction to the Contractor.

5.2 Contract Skills Development Goal (CSDG)

The successful contractor must keep site records regarding the part/full occupational qualification learners', trade qualification learners', work integrated learners' or candidates' (delete that which is not applicable) progress, site attendance, hours worked and other relevant information as required by the Standard.

The successful contractor shall provide the required number of appropriately qualified mentors to the maximum number of part/full occupational qualification learners, trade qualification learners, work integrated learners in the proportion as specified in the Standard.

The successful contractor shall provide a supervisor to manage the training of the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates (delete that which is not applicable).

The successful contractor shall submit to the employer's representative a baseline training plan in the specified format (Pro-forma A2) for the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates (delete that which is not applicable) within 30 days of start of the contract.

The successful contractor shall submit to the employer's representative project interim report in the specified format (Pro-forma A3) on the progress of each of part/full occupational qualification learner, trade qualification learner, work integrated learner, candidate (delete that which is not applicable) every three months.

The successful contractor shall submit to the employer's representative the names and particulars in the specified format (Pro-forma A4) of the supervisor, mentors for the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable) within 30 days of start of the contract.

The successful contractor shall keep a daily record of all the part/full occupational

qualification learners, trade qualification learners, work integrated learners, candidates on site and their daily activities and shall be made available to the employer's representative on request.

The successful contractor shall submit to the employer's representative the reports on the progress and status of the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable) with the monthly invoice for the payment certificate.

The successful contractor shall have health and safety inductions for all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable).

The successful contractor shall conduct entry and exit medical tests of all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable).

The successful contractor shall provide personal protective equipment (PPE) to all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates (delete that which is not applicable) at the start of their employment on site.

Annexes

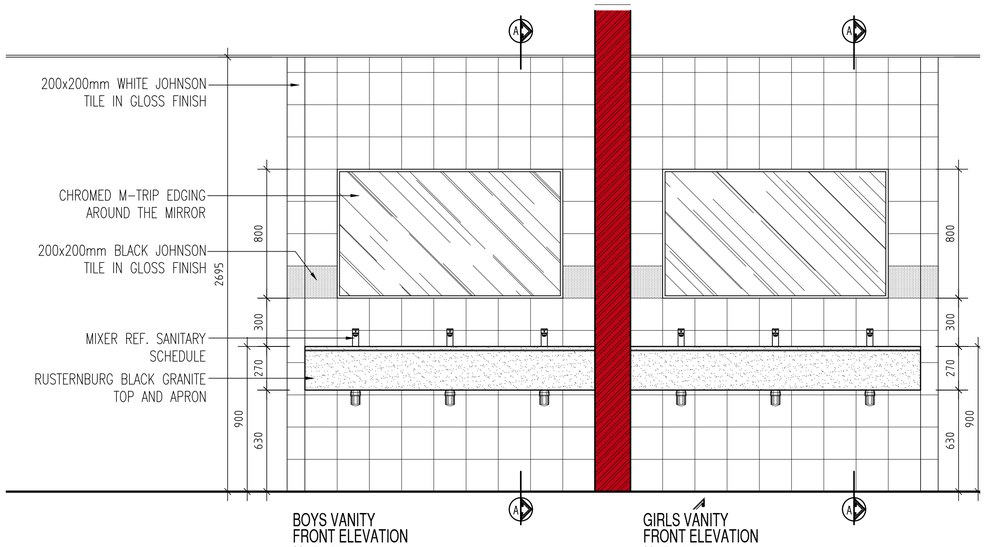
List by title

A1. List of cidb accredited SDAs
A2. Baseline training plan
A3. Project interim report
A4. Supervisor and / or mentor details
A5. Project completion report.

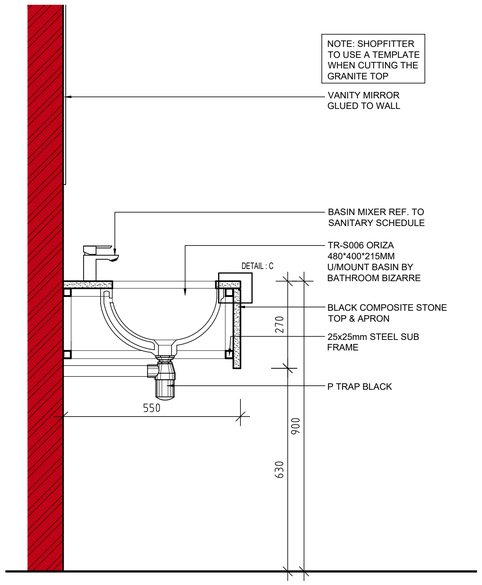
5.3 Annexures

ANNEXURE A

ARCHITECTURAL DRAWINGS



BOYS VANITY
FRONT ELEVATION
SCALE 1 : 20

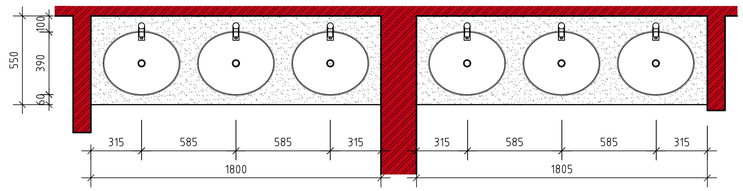


TYPICAL VANITY
SECTION A-A
SCALE 1 : 10



DETAIL : C
SCALE 1 : 5

GIRLS VANITY
FRONT ELEVATION
SCALE 1 : 20



BOYS VANITY
PLAN
SCALE 1 : 20

GIRLS VANITY
PLAN
SCALE 1 : 20

SPORTS BLOCK

			GIRLS CHANGE	BOYS CHANGE	DISABLED TOILET	DISABLED SHOWER	STORE ROOM	CARE TAKER ROOM	GEYSER ROOM	COVERED PASSAGE			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	◎	◎	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎	◎	◎	◎	◎	◎	2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES	◎	◎	◎	◎		◎			3.1	600x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	MOSAIC TILE SHOWER FLOOR	◎	◎							3.2	Mosaic Tile Porcelain Hilton L30cm x W30cm non slip by leroy All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	3.3	MERANTI SKIRTING BOARD									3.3	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	4	COMPACTED FILL	◎	◎	◎	◎	◎	◎	◎	◎	4	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	5	GRANOLITE					◎		◎	◎	5	SMOOTH GRANOLITE on screed free of dents and bumps. with clear seal	
	6	MOSAIC (SHOWER)	◎	◎		◎					6	Alaska Resin Mosaic - 300 x 300mm	
WALLS	7	PLASTER AND PAINT	◎	◎	◎	◎	◎	◎	◎	◎	7	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two final (washable)	color to architects approval
	8	GRANITE WORKTOP	◎	◎							8	22mm thick RUSTENBURG STONE, to be used in wet areas only.	
	9	WINDOW FINISH	◎	◎	◎	◎	◎	◎	◎	◎	9	Frosted glass on windows	
	10	WALL TILES (white)	◎	◎	◎	◎		◎	◎		10	200x200mm WHITE JOHNSON TILE IN GLOSS FINISH	
	11	WALL TILES (black)	◎	◎	◎	◎		◎	◎		11	200x200mm BLACK JOHNSON TILE IN GLOSS FINISH	
CEILINGS	12	CEILING INSULATION	◎	◎	◎	◎	◎	◎	◎	◎	12	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	13	FIBRE CEMENT CEILING BOARDS	◎	◎	◎	◎	◎	◎	◎	◎	13	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards painted in white acrylic paint	to architects approval
	14	CORNICE	◎	◎	◎	◎	◎	◎	◎	◎	14	ACRYLIC COVE CORNICE 55 x 55mm	

DRAWING No. S100 S-L-104 TYPE 004 REV

REVISIONS: DATE

001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-add finishes schedule	-22-06-2023
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS, OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD

GENERAL-NOTES

- ALL WORK TO COMPY WITH NATIONAL BUILDING REGULATIONS.
- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK
VANITY DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

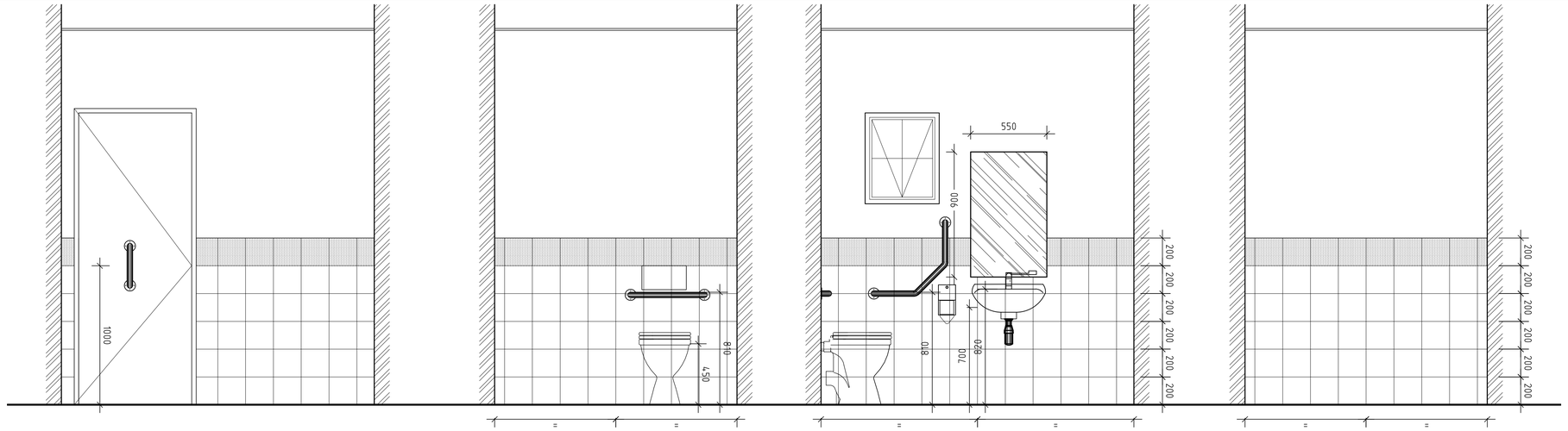
Figured dimensions are to be taken in preference to scale dimensions.
The designers are to be notified of any variations.
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Each contractor shall be responsible for ensuring the structural stability of all components of his work and ascertain that the main structure is capable of supporting all the loads applied thereto.

DRAWING No. S100 S-L-104 - 004 REV

FOR-TENDER

COMP REF: REFERENCE

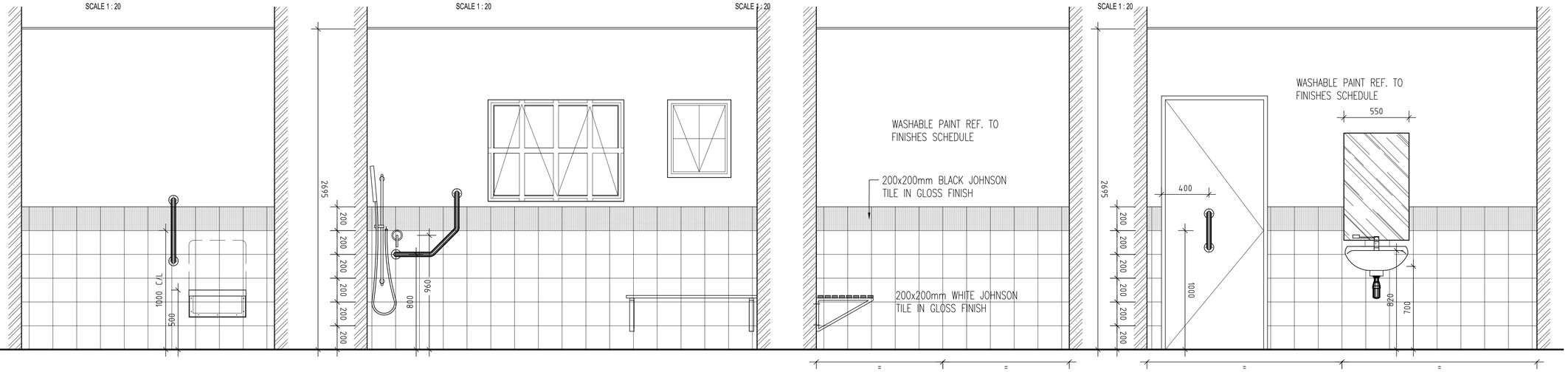


ELEVATION B-B
SCALE 1 : 20

ELEVATION A-A
SCALE 1 : 20

ELEVATION D-D
SCALE 1 : 20

ELEVATION C-C
SCALE 1 : 20

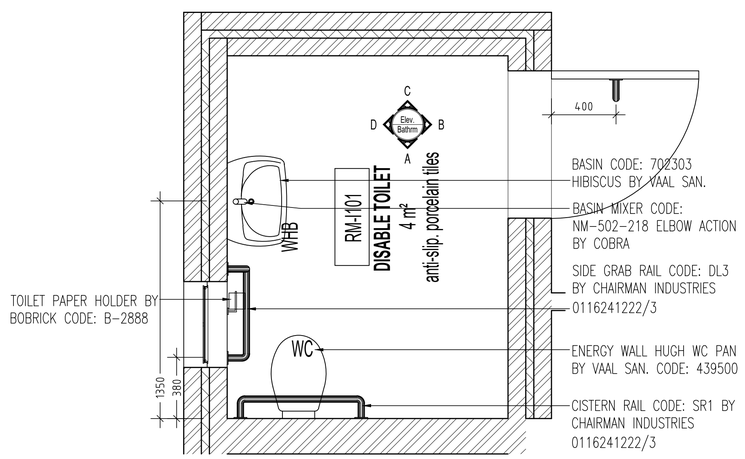


ELEVATION 4-4
SCALE 1 : 20

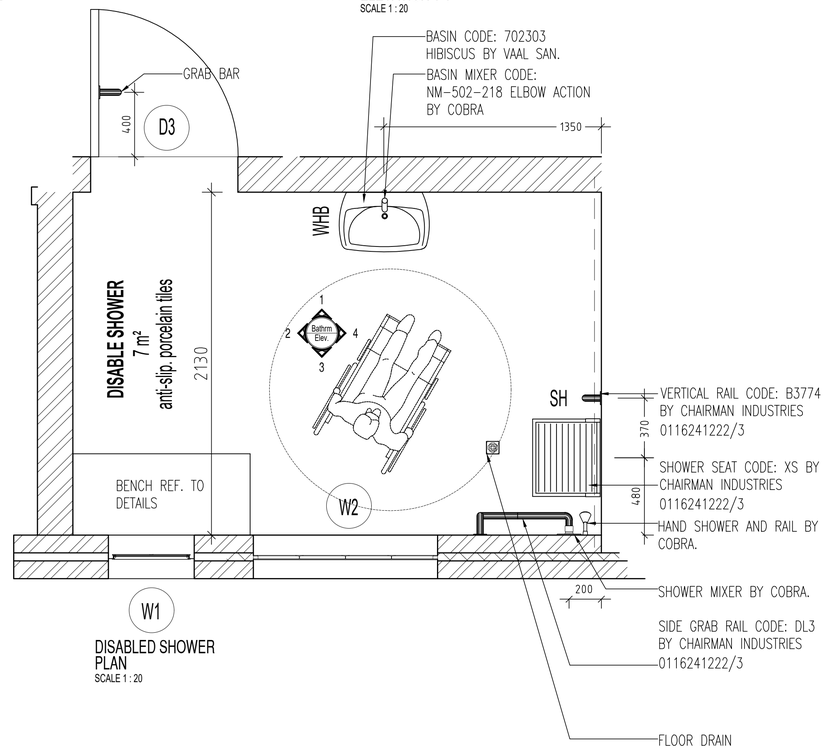
ELEVATION 3-3
SCALE 1 : 20

ELEVATION 2-2
SCALE 1 : 20

ELEVATION 1-1
SCALE 1 : 20



DISABLED TOILET PLAN
SCALE 1 : 20



DISABLED SHOWER PLAN
SCALE 1 : 20

DRAWING No. S100 S-L-106 TYPE — REV 002

REVISIONS: — DATE

001	-update title -issue for tender	-12-12-2022
002	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS, OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD

GENERAL-NOTES

- ALL WORK TO COMPY WITH NATIONAL BUILDING REGULATIONS.
- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK DISABLED TOILETS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

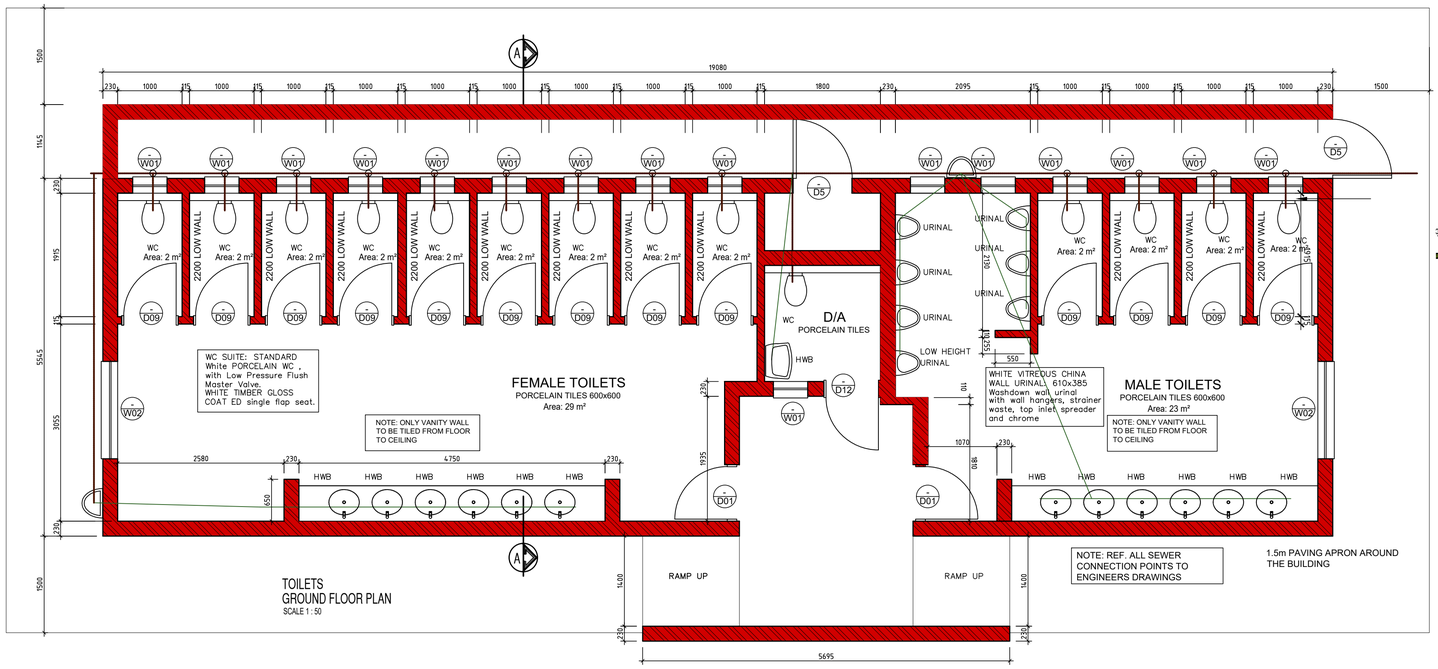
Figured dimensions are to be taken in preference to scale dimensions.
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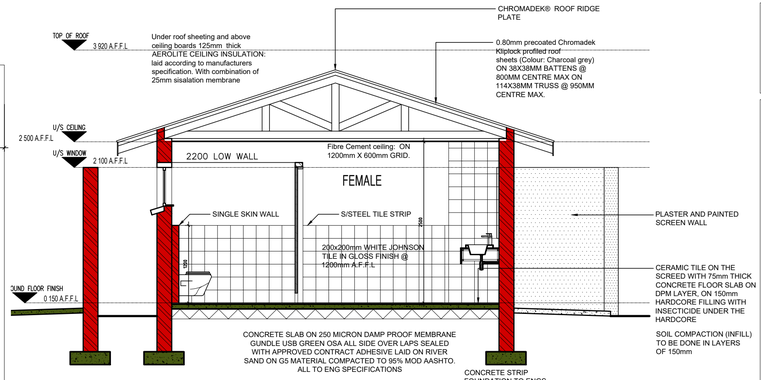
Each contractor shall be responsible for ensuring the structural stability of all components of his work and ascertain that the main structure is capable of supporting all the loads applied thereto.

DRAWING No. S100 S-L-106 - — REV 002

FOR-TENDER

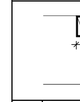
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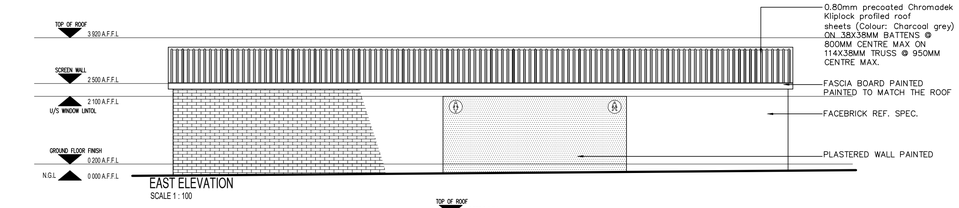


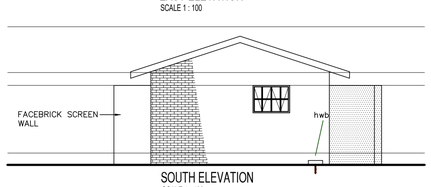


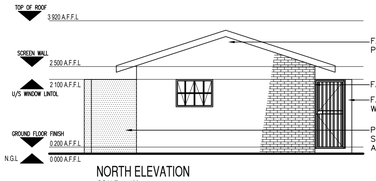
SECTION A-A
SCALE 1 : 50

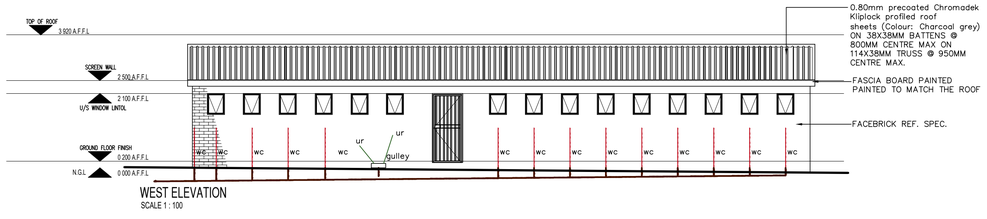
WINDOW SCHEDULE

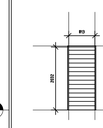
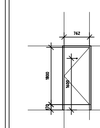
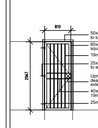
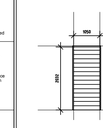
	W1	W-2-TH
		
ITEM	DESCRIPTION	DESCRIPTION
WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME
WINDOW FRAME PAINT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY: ARCHITECT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY: ARCHITECT
WINDOW LEAF		
GLAZING	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH APPROVED STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH APPROVED STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS
BURGLAR BARS	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME
LOCATION & QUANTITY	MALE TOILET 7 FEMALE TOILET 11 TOTAL ITEMS 18	MALE TOILET 1 FEMALE TOILET 1 TOTAL ITEMS 2
IRONMONGERY		IRONMONGERY
OVERALL WINDOW DESCRIPTION		OVERALL WINDOW DESCRIPTION









	F.FLOOR LEVEL				
					
		2125 u/s lintel 0.000 ffl 03	2125 u/s lintel 0.000 ffl 04	50x50x3mm angle iron frame welded to lug and built in. 60x40x3mm MS steel security mortice deadlock. 10mm Ø steel rods at 110 centres. 25x25x3mm Lug welded to angle iron and built in. Upright double throw security mortice deadlock in steel plate housing with extended cover plate. Welded horizontal supports with 10mm Øholes for vertical rods. 25mmØ x60mm Long pin hinge. NB: all DUCTS, steel gates to be fixed/welded with 6mm expanded steel mesh to the inside of the gate. 05	2125 u/s lintel 0.000 ffl 03
DOOR LOCATION	TOILET ENTRANCE	BOYS & GIRLS WC CUBICLE	AS SHOWN ON PLANS	DISABLE TOILET	
DOOR NUMBER	D1	D8	D5	D12	D9
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 110mm INTERNAL WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x50x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO GDE DETAIL DT30 FRAME TO ALLOW FOR 90° SWING	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	
FRAME SETTING OUT	CENTER OF WALL	CENTER OF WALL	OUTSIDE OF WALL	CENTER OF WALL	
DOOR FRAME FINISH	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	
ARCHITRAVE	NONE	NONE	NONE	NONE	
DOOR LEAF	STANDARD 3032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STANDARD 762mm x 2032mm x 40mm SOLID FLUSH PANEL DOOR WITH SANDBOARD BOTH SIDES	D EDE DETAIL DT30	STANDARD 3032 HIGH x 1000mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER AND ONE COAT APPROVED PVA PAINT	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	
GLAZING	NONE	NONE	NONE	NONE	
IRONMONGERY * REFER TO SPECIALISTS SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES 18mØ pair DOOR HANDLE HANDLE- 150mm PULL HANDLE & 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- Chrome Plated Single Coat Hook	BALL BEARING HINGES 18mØ pair BATHROOM PADCATCH THUMB LOCK + CYLINDER- ACCESSORIES- Chrome Plated Single Coat Hook	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.	BALL BEARING HINGES 18mØ pair DOOR HANDLE HANDLE- D/HC-30E, PULL HANDLE 865/ 121/234Ø, 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- Chrome Plated Single Coat Hook	
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	NONE	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	
QUANTITY	11	11	01	11	
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	

TOILET BLOCK

			FEMALE TOILET	MALE TOILET	DISABLED TOILET	ENTRY AND RAMPS			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎		1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎		2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES	◎	◎	◎		3.1	600x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	TILE SKIRTING	◎	◎	◎		3.2	100x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	3.3	MERANTI SKIRTING BOARD					3.3	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	4	COMPACTED FILL	◎	◎	◎		4	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	5	GRANOLITE				◎	5	SMOOTH GRANOLITE on screed free of dents and bumps. with clear seal	
WALLS	6	PLASTER AND PAINT	◎	◎	◎		6	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two final (washable)	color to architects approval
	7	GRANITE WORKTOP	◎	◎	◎		7	22mm thick RUSTENBURG STONE, to be used in wet areas only.	
	8	WINDOW FINISH	◎	◎	◎		8	Frosted glass on windows	
	9	WALL TILES (white)	◎	◎	◎		9	200x200mm WHITE JOHNSON TILE IN GLOSS FINISH	
	10	WALL TILES (black)	◎	◎	◎		10	200x200mm BLACK JOHNSON TILE IN GLOSS FINISH	
CEILINGS	11	CEILING INSULATION	◎	◎	◎		11	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	12	FIBRE CEMENT CEILING BOARDS	◎	◎	◎		12	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards painted in white acrylic paint	to architects approval
	13	CORNICE	◎	◎	◎		13	ACRYLIC COVE CORNICE 55 x 55mm	

DRAWING No. S100 TB-L-100 TYPE — REV 008

REVISIONS:		DATE
001	-UPDATE APRON SIZE	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update elevation ground slope	-20-08-2020
005	-update tilte -issue for tender	-20-08-2020
006	-UPDATE IRONMONGERY	-15-12-2022
007	-ADD FINISHES SCHEDULE	-20-06-2023
008	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
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- ALL NEW WORK TO MATCH EXISTING

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IKANENG HIGH SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW TOILET BLOCK
PLAN, ELEVATIONS, SECTION AND SCHEDULES

SCALE	DATE	DRAWN
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

Figured dimensions are to be taken in preference to scale dimensions.

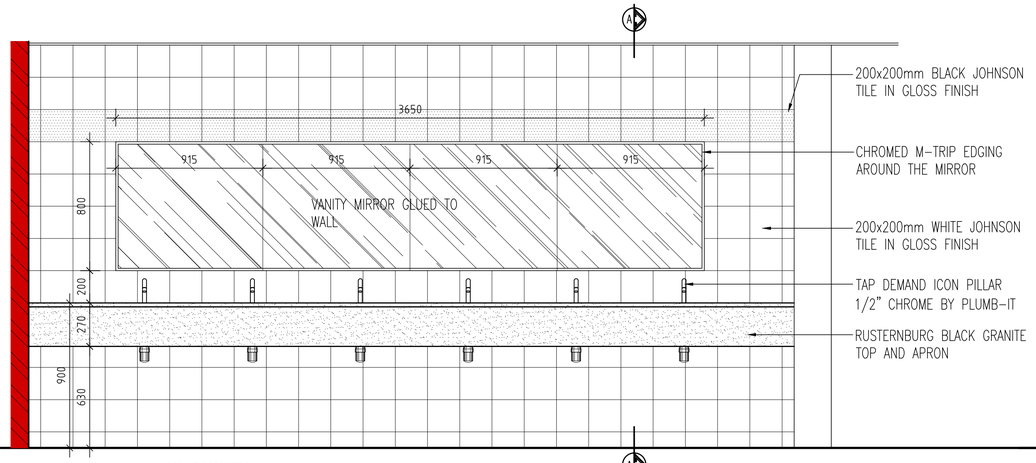
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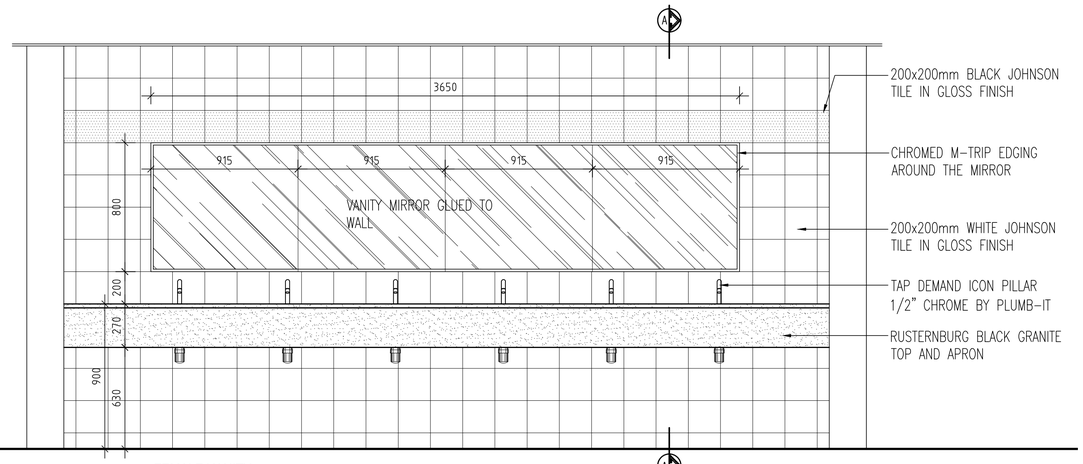
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DRAWING No. S100 TB-L-100 - REV 008

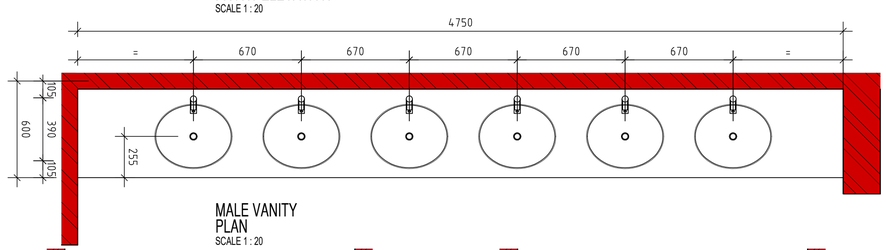
FOR-TENDER

COMP REF: REFERENCE



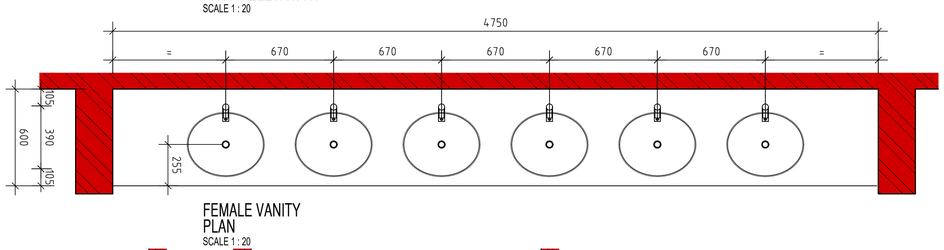


MALE VANITY FRONT ELEVATION
SCALE 1 : 20

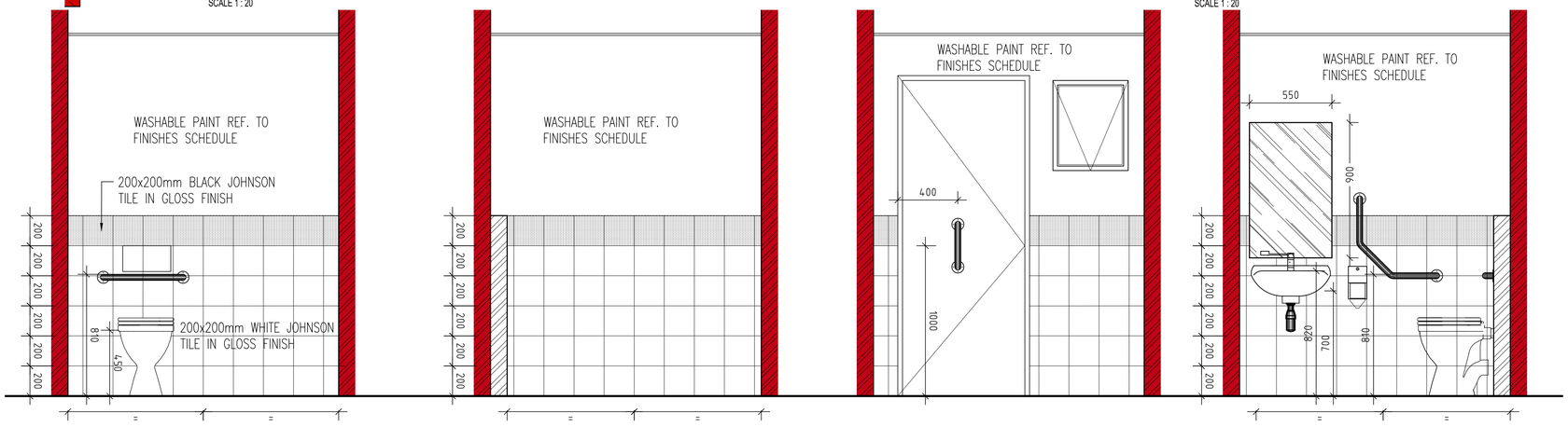


MALE VANITY PLAN
SCALE 1 : 20

FEMALE VANITY FRONT ELEVATION
SCALE 1 : 20



FEMALE VANITY PLAN
SCALE 1 : 20

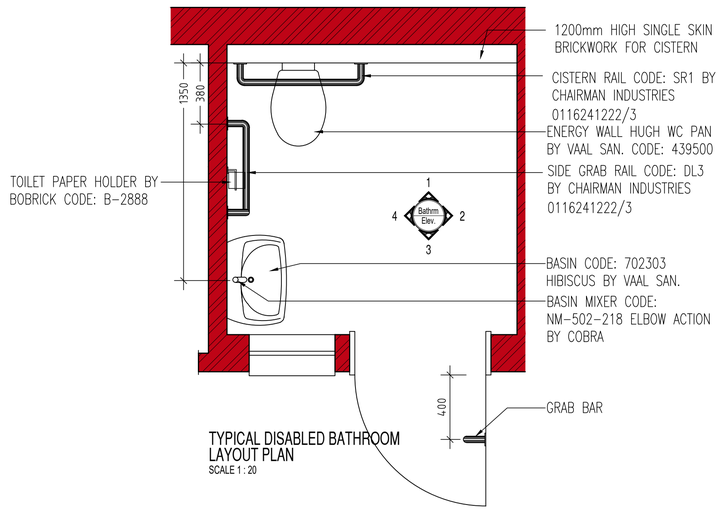


ELEVATION 1-1
SCALE 1 : 20

ELEVATION 2-2
SCALE 1 : 20

ELEVATION 3-3
SCALE 1 : 20

ELEVATION 4-4
SCALE 1 : 20



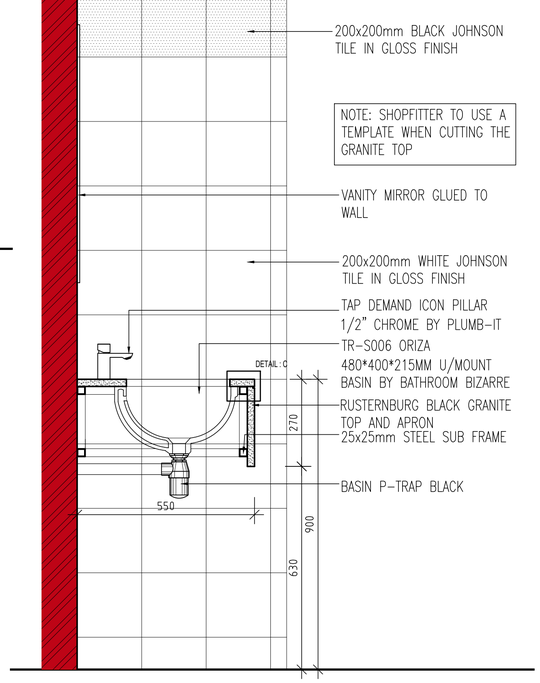
TYPICAL DISABLED BATHROOM LAYOUT PLAN
SCALE 1 : 20



DETAIL : C
SCALE 1 : 5



DETAIL : D
SCALE 1 : 5



TYPICAL VANITY SECTION A-A
SCALE 1 : 10

DRAWING No. S100 TB-L-101 TYPE 002 REV

REVISIONS: DATE

001	-UPDATE P TRAP SPEC	-22-06-2023
002	-issued for tender	-10-07-2023

PLUMBING-NOTES

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GENERAL-NOTES

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IKANENG HIGH SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW TOILET BLOCK VANITY DETAILS AND DISABLED LAYOUT

SCALE	DATE DRAWN	
AS_SHOWN	2022-12-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

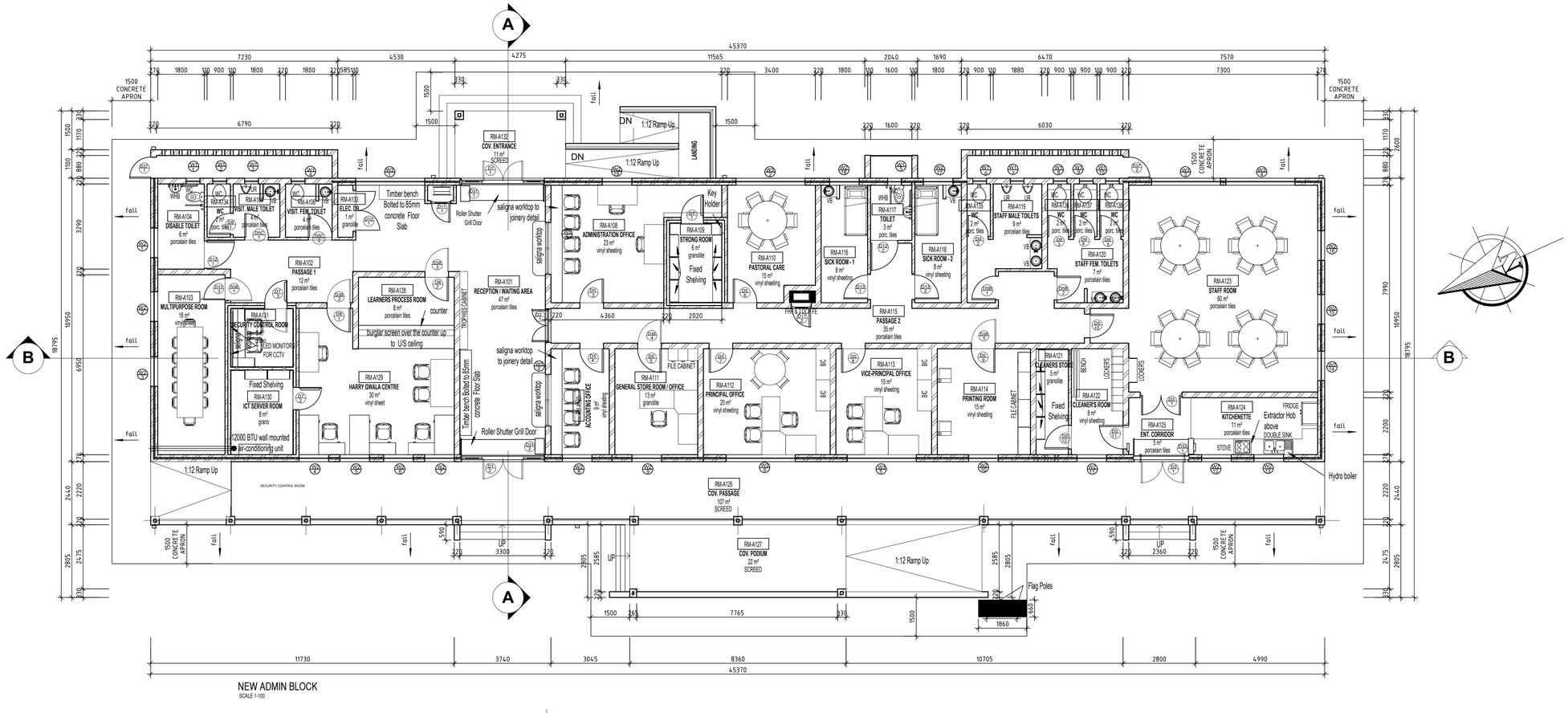
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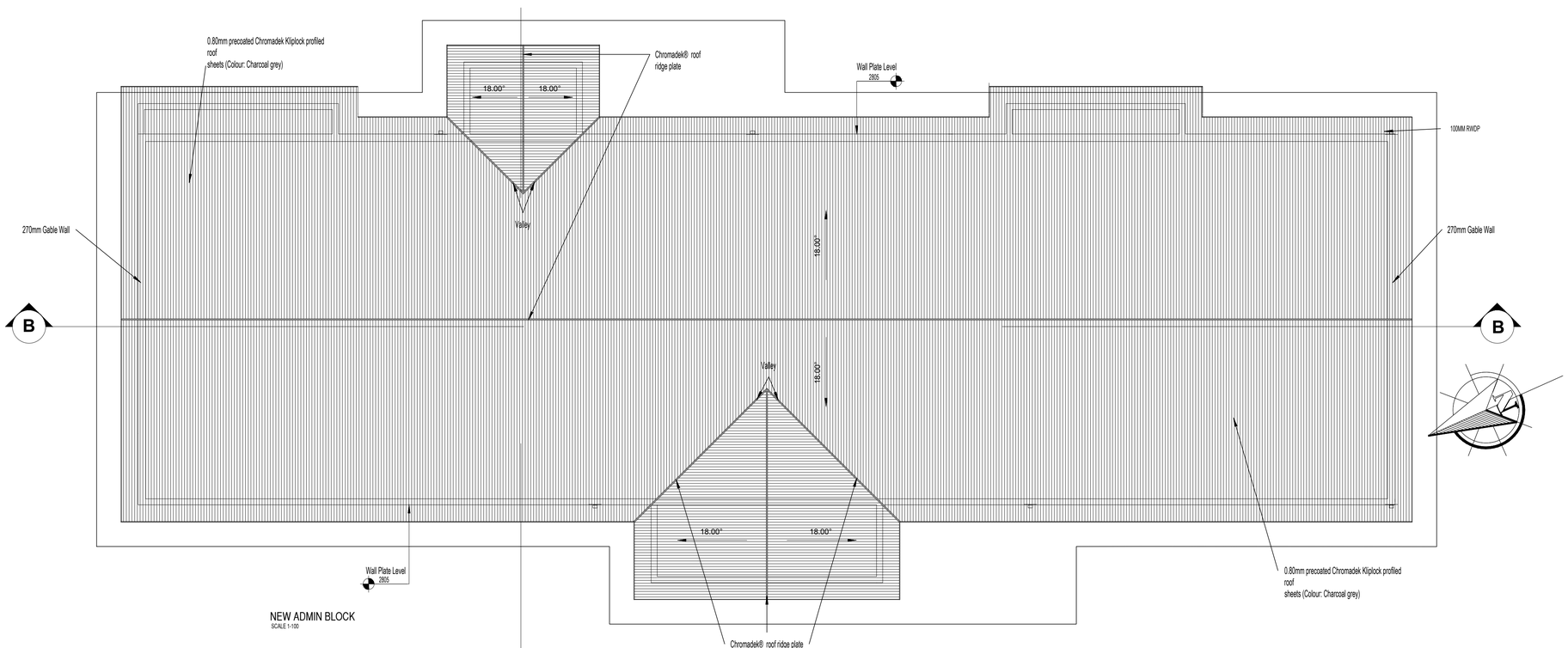
DRAWING No. S100 TB-L-101 - 002 REV

FOR-TENDER

COMP REF: REFERENCE



NEW ADMIN BLOCK
SCALE 1-100



NEW ADMIN BLOCK
SCALE 1-100

N

DRAWING No. S100 AD-L-100 TYPE — REV 006

REVISIONS:		DATE
001	-ADD CONCRETE APRON -OMIT GUTTERS	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update title -issue for tender	-11-09-2022
005	-update schedule numbers	-22-06-2023
006	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

ADMINSTRATION BLOCK FLOOR AND ROOF PLAN

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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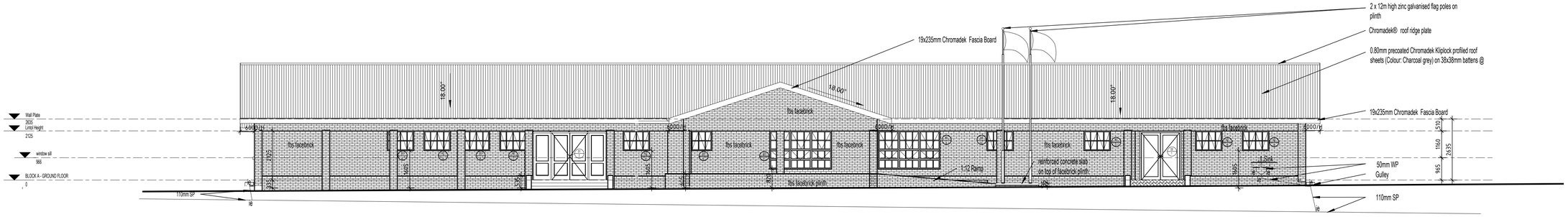
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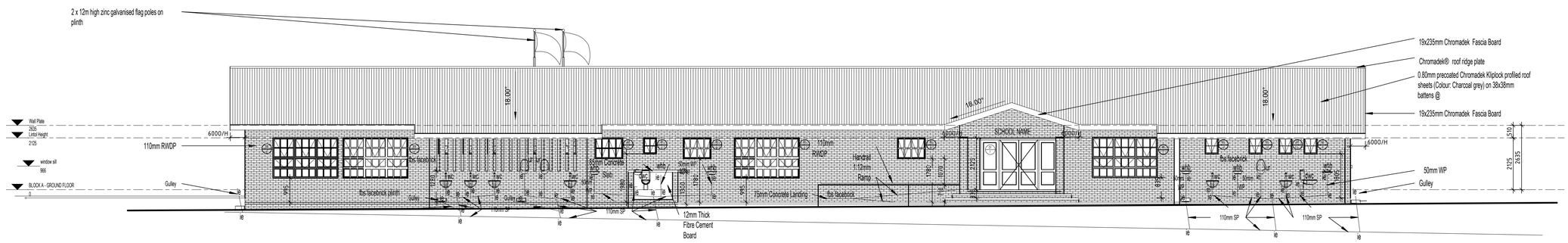
DRAWING No. S100 AD-L-100 - REV 006

FOR-TENDER

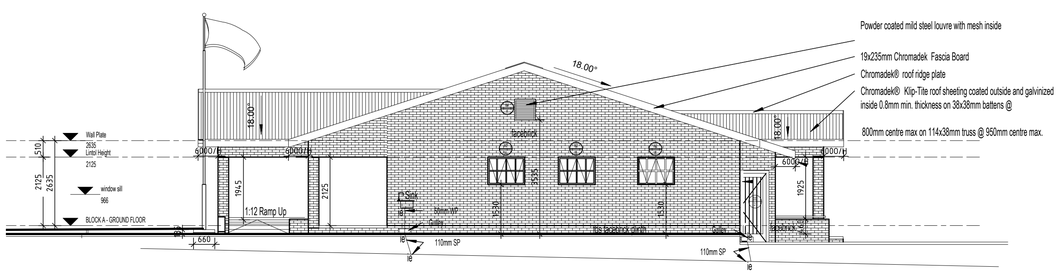
COMP REF: REFERENCE



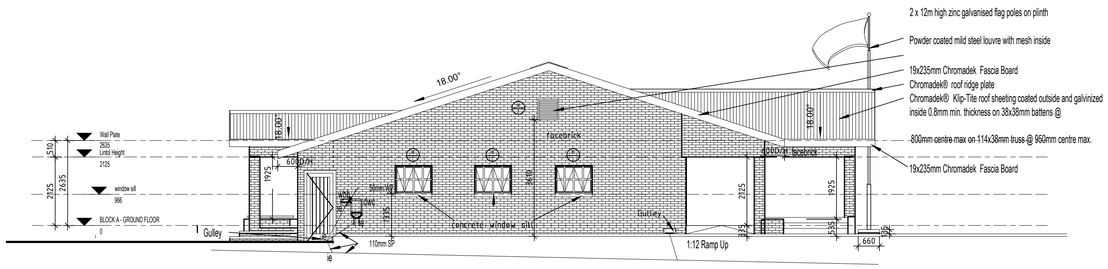
NORTH ELEVATION
SCALE 1-100



SOUTH ELEVATION
SCALE 1-100



EAST ELEVATION
SCALE 1-100



WEST ELEVATION
SCALE 1-100

DRAWING No. S100 AD-L-101 TYPE — REV 005

REVISIONS: — DATE

001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update elevations ground slope	-20-08-2020
004	-update title -issue for tender	-11-09-2022
005	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

ADMINSTRATION BLOCK ELEVATIONS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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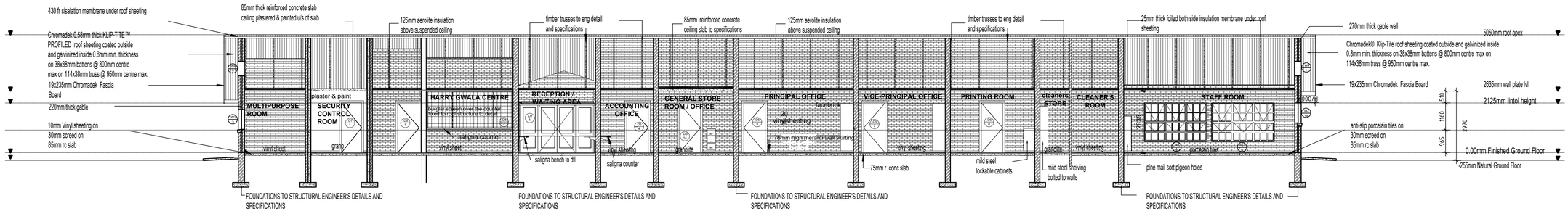
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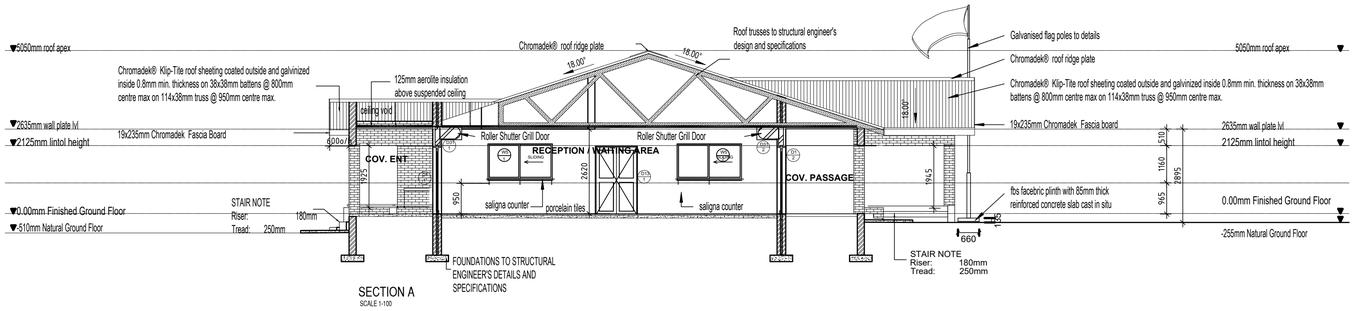
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DRAWING No. S100 AD-L-101 - REV 005

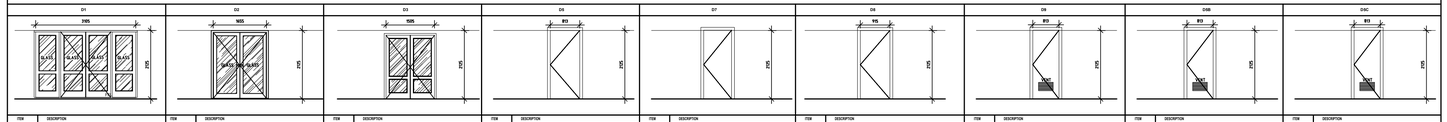
FOR-TENDER

COMP REF: REFERENCE



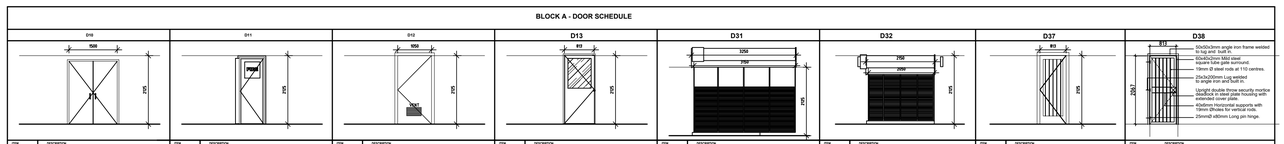


BLOCK A - DOOR SCHEDULE



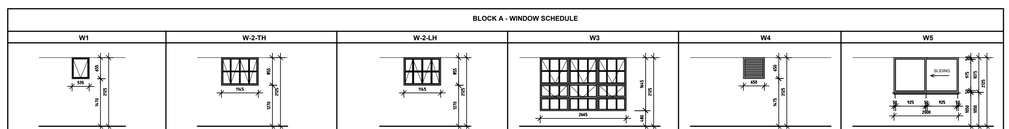
ITEM	D1	D2	D3	D5	D7	D8	D9	D4B	D4C
DOOR FRAME	ALUMINUM	ALUMINUM	ALUMINUM	STEEL FRAME	MANUFACTURER DETAIL	STEEL FRAME	STEEL FRAME	STEEL FRAME	STEEL FRAME
DOOR FRAME FINISH	MANUFACTURER DETAIL	MANUFACTURER DETAIL	MANUFACTURER DETAIL	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	MANUFACTURER DETAIL	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	PAINTED TO MATCH ALUMINIUM BRONZE COLOR
DOOR PANEL	MANUFACTURER DETAIL	MANUFACTURER DETAIL	MANUFACTURER DETAIL	SOLID CORE DOORS	MANUFACTURER DETAIL	SEMI SOLID TIMBER WITH STEEL BURGLAR GATE	SEMI SOLID TIMBER	SOLID CORE DOORS	SOLID CORE DOORS
DOOR FINISH	MANUFACTURER DETAIL	MANUFACTURER DETAIL	MANUFACTURER DETAIL	PAINTED TO DESIGNERS SPEC.	MANUFACTURER DETAIL	PAINTED TO DESIGNERS SPEC.	PAINTED TO DESIGNERS SPEC.	PAINTED TO DESIGNERS SPEC.	PAINTED TO DESIGNERS SPEC.
LOCATION & QUANTITY	RECEPTION/ WAITING AREA: 2 TOTAL ITEMS: 2	ENTRANCE CORRIDOR: 1 TOTAL ITEMS: 1	STAFF ROOM: 2 TOTAL ITEMS: 2	CLEANERS ROOM: 1 CLEANERS STOREROOM: 1 PRINTING ROOM: 1 PRINCIPAL OFFICE: 1 VICE-PRINCIPAL OFFICE: 1 GENERAL STORE/ROOM OFFICE: 1 ACCOUNTING OFFICE: 1 PASSAGE 2: 1 ADMINISTRATION OFFICE: 1 PASTORAL CARE: 1 TOTAL ITEMS: 12	STRONG ROOM: 1 SECURITY CONTROL ROOM: 1 ICT SERVER ROOM: 1 TOTAL ITEMS: 3	HARRY GWALA CENTRE: 1 LEARNERS PROCESS ROOM: 1 TOTAL ITEMS: 2	WC: 5 2 TOTAL ITEMS: 5 2	STAFF FEMALE TOILET: 3 STAFF MALE TOILET: 3 TOTAL ITEMS: 2	MALE VISIT. TOILET: 1 FEM. VISIT. TOILET: 1 TOTAL ITEMS: 2
ROMENCKERY	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- CB 32 bar handle ACCESSORIES- DDS-SS-017 door stop 2 OFF, DFB SC 180 BOLT	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- CB 32 handle ACCESSORIES- DDS-SS-017 door stop 2 OFF, DFB SC 180 BOLT	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- CB 32 handle ACCESSORIES- DDS-SS-017 door stop 2 OFF, DFB SC 180 BOLT	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- CB 32 handle ACCESSORIES- SIGNAGE AS PER SPECIALIST	MANUFACTURER DETAIL	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- CB 32 handle ACCESSORIES- DDS-SS-017 door stop + SIGNAGE	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- DMWC-SS-S08 HANDLE- CB 32 handle ACCESSORIES-MM1240 Chrome Plated Single Coat Hook	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- DWC-006, PULL HANDLE SKU 1212348, 200x300mm PUSH PLATE ACCESSORIES- DSS-133 signage, TS83 D C delay closer	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- DWC-006, PULL HANDLE SKU 1212348, 200x300mm PUSH PLATE ACCESSORIES- DSS-133 signage, TS83 D C delay closer
OVERALL DOOR DESCRIPTION									

BLOCK A - DOOR SCHEDULE



ITEM	D10	D11	D12	D13	D31	D32	D37	D38
DOOR FRAME	AS PER MANUFACTURES SPEC.	STEEL FRAME FOR 110MM INTERNAL WALL	STEEL FRAME FOR 220MM WALL	STEEL FRAME	AS PER MANUFACTURES SPEC.	AS PER MANUFACTURES SPEC.	STEEL FRAME FOR 220MM WALL	STEEL
DOOR FRAME FINISH	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	1 X COAT PRIMER & 1 X COAT APPROVED ENAMEL PAINT	MANUFACTURER DETAIL	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	PAINTED TO MATCH ALUMINIUM BRONZE COLOR	STEEL
DOOR PANEL	MANUFACTURER DETAIL	STEEL WITH HARDBOARD BOTH SIDES & GEORGIAN GLASS WITH SIGNAGE	MANUFACTURER DETAIL	SEMI SOLID DOOR WITH 600mm x 600mm VIEWING SLEAR SAFETY GLASS PANEL AT THE UPPER HALF OF THE DOOR	MANUFACTURER DETAIL	PAINTED BRONZE COLOR	SOLID TIMBER (EXTERIOR DOOR)	STEEL
DOOR FINISH	PAINTED TO DESIGNERS SPEC.	1 X COAT PRIMER & 1 X COAT APPROVED PLIA PAINT	MANUFACTURER DETAIL	PAINTED TO DESIGNERS SPEC.	PAINTED BRONZE COLOR	PAINTED BRONZE COLOR	VARNISHED	PAINTED
LOCATION & QUANTITY	ELECTRICAL OB: 1 TOTAL ITEMS: 1	RECEPTION/ WAITING AREA: 1 PASSAGE 2: 1 TOTAL ITEMS: 2	TOILET: 1 DISABLED TOILET: 1 TOTAL ITEMS: 2	SICK ROOM 1: 1 SICK ROOM 2: 1 MULTIPURPOSE ROOM: 1 TOTAL ITEMS: 3	RECEPTION/ WAITING AREA: 2 TOTAL ITEMS: 2	ENTRANCE CORRIDOR: 1 TOTAL ITEMS: 1	DUCTS: 2 TOTAL ITEMS: 2	DUCTS: 2 TOTAL ITEMS: 2
ROMENCKERY	SUPPLIER- domra / bushel HINGES-DBB-SS-009 3 pair LOCK + CYLINDER- DMWC-SS-S08 HANDLE- CB 32 handle ACCESSORIES- DDS-SS-017 door stop 2 OFF, DFB SC 180 BOLT	AS PER MANUFACTURES SPEC.	SUPPLIER- domra / bushel HINGES-DBB-SS-009 1&half pair LOCK + CYLINDER- DMWC-SS-S08 HANDLE- DWC-006, PULL HANDLE SKU 1212348, 200x300mm PUSH PLATE ACCESSORIES- DSS-133 signage, TS83 D C delay closer	SUPPLIER- domra / bushel HINGES-DBB-SS-009 1&half pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- CB 32 handle ACCESSORIES- DDS-SS-017 door stop + SIGNAGE	AS PER MANUFACTURES SPEC.	AS PER MANUFACTURES SPEC.	SUPPLIER- domra / bushel HINGES-DBB-SS-009 1&half pair LOCK + CYLINDER- KOS66501 65mm SN=D02625 HANDLE- CB 32 handle ACCESSORIES- SIGNAGE AS PER SPECIALIST	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE
OVERALL DOOR DESCRIPTION		Fire Hose Reels (FHR) closets to have a solid door with 600mm wide x 350mm high viewing clear safety glass panel in the upper portion of the door. The glass color signal red "FIRE" (Code 417) painted in the glass. These doors to be painted signal red with paint code A11 as well defined in the fire consultant technical documentation and in compliance with SANS 1091.		Doors at the Sick Bay Room, to have semisolid door with 600 x 600mm viewing clear safety glass panel at the upper half of the door. Doors to be painted to colour specified by the architect.				

BLOCK A - WINDOW SCHEDULE



ITEM	W1	W-2-TH	W-2-LH	W3	W4	W5
WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME	ALUMINIUM WINDOW FRAME
WINDOW FRAME FINISH	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY ARCHITECT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY ARCHITECT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY ARCHITECT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY ARCHITECT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY ARCHITECT	BLACK POWDER COATED
WINDOW LOAF						
GLAZING	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH STANDARD PUTTY IN ABLUTIONS/TOILETS CLEANERS ROOM AND STORE ROOMS	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS	LOUVERED PANELS	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME
BURGLAR BARS	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME	20mm WIDE BY 4mm THICK MILD ALUMINIUM FLAT BARS WELDED TO FRAME
LOCATION & QUANTITY	DISABLED TOILET: 1 MALE VISIT. TOILET: 2 FEM. VISIT. TOILET: 1 TOILET: 1 STAFF MALE TOILET: 2 STAFF FEMALE TOILET: 3 TOTAL ITEMS: 10	DISABLED TOILET: 1 SICK ROOM 1: 1 SICK ROOM 2: 1 MULTIPURPOSE ROOM: 2 STAFF ROOM: 3 ADMINISTRATION OFFICE: 1 TOTAL ITEMS: 9	HARRY GWALA CENTRE: 4 ACCOUNTING OFFICE: 1 GENERAL STORE/ROOM OFFICE: 1 PRINTING ROOM: 1 CLEANERS ROOM: 1 KITCHENETTE: 2 TOTAL ITEMS: 10	PRINCIPAL OFFICE: 1 VICE-PRINCIPAL OFFICE: 1 RECEPTION/ WAITING AREA: 1 PASTORAL CARE: 1 STAFF ROOM: 2 TOTAL ITEMS: 6	CEILING VOID: 2 TOTAL ITEMS: 2	ADMINISTRATION OFFICE: 1 ACCOUNTING OFFICE: 1 TOTAL ITEMS: 2
ROMENCKERY						
OVERALL WINDOW DESCRIPTION						

DRAWING No. S100 AD-L-102 TYPE — REV 006

REVISIONS:		DATE
001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update title -issue for tender	-11-09-2022
004	-add ironmongery	-13-12-2022
005	-update schedule numbers	-22-06-2023
006	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

- ALL WORK TO COMPY WITH NATIONAL BUILDING REGULATIONS.
- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL.
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

THIS DRAWING REMAINS COPYRIGHT OF THE DESIGNERS AND MAY NOT BE REPRODUCED WITHOUT PRIOR CONSENT

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

ADMINSTRATION BLOCK SECTIONS DOOR & WINDOW SCHEDULES

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

Figured dimensions are to be taken in preference to scale dimensions.
The designers are to be notified of any variations.
The design on this drawing is the copyright of the designers.

Each contractor shall be responsible for ensuring the structural stability of all components of his work and ascertain that the main structure is capable of supporting all the loads applied thereto.

DRAWING No. S100 AD-L-102 - REV 006

FOR-TENDER

COMP REF: REFERENCE

ADMINISTRATION BLOCK

			WAITING AREA/REC	PASSAGE 1	MULTIPURPOSE R/M	DISABLED TOILET	VISIT MALE TOILET	VISIT FEMALE TOILET	ACCOUNTING OFFICE	ADMIN OFFICE	STRONG ROOM	PASTORAL CARE	SECURITY CON ROOM	PRINCIPAL OFFICE	V PRINCIPAL OFFICE	PRINTING ROOM	PASSAGE 2	SICK ROOM 1	TOILET	SICK ROOM 2	STAFF MALE TOILETS	STAFF F/MALE TOILETS	CLEANER'S STORE	CLEANER'S ROOM	STAFF ROOM	KITCHENETTE	ENT. CORRIDOR	COVERED PASSAGE	COVERED PODIUM	LNRS PROCESS ROOM	HARRY GWALA	ICT SERVER ROOM	ARCHIVE ROOM	COVERED ENTRANCE			
			A101	A102	A103	A104	A105	A106	A107	A108	A109	A110	A111	A112	A113	A114	A115	A116	A117	A118	A119	A120	A121	A122	A123	A124	A125	A126	A127	A128	A129	A130	A131	A132			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	2.13 of specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎		◎	◎	◎	◎	◎	2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filing. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES				◎	◎	◎											◎		◎	◎													3.1	500x500mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	HEAVY TRAFFIC PORCELAIN TILES	◎	◎													◎										◎			◎					3.2	500x500mm HEAVY TRAFFIC PORCELAIN (P5) TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	4.1	PUR VINYL SHEETING			◎				◎	◎		◎	◎	◎	◎	◎		◎		◎				◎											4.1	2mm PUR VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	
	4.2	SD VINYL SHEETING																													◎	◎			4.2	2mm SD VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	
	5	TRANSITION STRIP	◎	◎								◎		◎				◎				◎						◎						◎	5	40mm Aluminium TRANSITION STRIP imbedded into screed between Vinyl Sheeting and Porcelain Floor Tiles.	
	6	MERANTI SKIRTING BOARD	◎	◎	◎		◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎				◎	◎	◎	◎	◎	◎			◎	◎	◎	◎		6	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	7	COMPACTED FILL	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	7	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	8	PRECAST CONC. PAVING BLOCKS																															◎	8	PRECAST CONCRETE PAVING BLOCKS: 65mm thick, pigmented interlocking paving	-
	9	GRANOLITE									◎												◎					◎	◎			◎			9	All STORE ROOMS and PLANT ROOMS: SMOOTH GRANOLITE on screed free of dents and bumps.	
WALLS	10	REINFORCED CONCRETE WALLS									◎																								10	REINFORCE CONCRETE: 110mm thick wall to inside 110mm brick wall, with plaster and paint.	
	11	9 BRICKCOURSES ABOVE FLOOR HEIGHT 765MM	◎	◎							◎		◎										◎	◎								◎	◎		11	9 brick courses above floor level, approximately 765mm in height.	
	12	PLASTER AND PAINT ABOVE 765MM BRICKWORK	◎	◎							◎		◎										◎	◎								◎	◎		12	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two	
	13	SPLASH BACK TILES																◎		◎						◎									13	750mm high SPLASHBACK TILING: Above sink, vanities and applicable counter tops.	
	14	GLOSSY CERAMIC WALL TILES 1500MM HIGH FROM FL/ LEVEL				◎	◎	◎											◎		◎	◎	◎	◎											14	GLOSSY CERAMIC TILES: 120mm x 330mm, with aluminum coping, 1500mm in height from floor level	
	15	PLASTER AND PAINT ABOVE 1500MM GLOSSY CERAMIC TILES				◎	◎	◎											◎		◎	◎	◎	◎											15	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two	
	16	BLOCKOUT ROLLER BLINDS			◎																														16		
	17	HORIZONTAL BLINDS							◎	◎		◎	◎	◎	◎	◎		◎		◎			◎	◎	◎	◎					◎				17		
	18	SELIGNA WORKTOP							◎				◎			◎										◎										18	Used in ALL areas NOT exposed to wet conditions.	
	19	GRANITE WORKTOP																								◎										19	32mm thick RUSTENBURG STONE, to be used in wet areas only.	
	20	STAND ALONE SHELVING																					◎	◎											20	powder coated mild steel stand alone shelving bolted to walls. 250mm above floor level	
CILLS	21	BOE CILL			◎	◎	◎	◎	◎	◎		◎		◎	◎	◎		◎	◎	◎	◎	◎			◎										21	BRICK ON EDGE WINDOW CILL:(internal) built in soldier course flush with dado wall. All joints to be flush half round pointed joints. BRICKS ON THE ENDS TO BE SOLID AND NOT HOLLOW	LINTELS to be mild steel double angle line welded to center of brickwork 6-10mm thickness, subject to span.
CEILINGS	22	GYPSUM SUSPENDED CEILING	◎	◎	◎				◎	◎		◎	◎	◎	◎	◎	◎	◎		◎			◎	◎	◎		◎			◎	◎	◎	◎		22	Gypsum suspended ceiling panels with vinyl coating/ sheeting (NOT TO BE USED IN WET AREAS).	
	23	FIBER CEMENT SUSPENDED CEILING				◎	◎	◎											◎		◎	◎				◎									23	Fibre Cement suspended ceiling: ON 1200mm X 600mm GRID. (ACOUSTIC SUSPENDED BOARDS TO BE USED IN CLASSROOMS AND SCHOOL HALL 15mm thick)	
	21	FIBRE CEMENT CEILING BOARDS																										◎	◎				◎		24	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards	All in compliance with Category of Occupancy A3 for Climate Zone 1
	25	CEILING INSULATION	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎		25	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	26	RE-INFORCED CONCRETE									◎																			◎	◎				26	110mm thick REINFORCED CONCRETE CEILING. Sofit to 85mm above ceiling level and plastered and painted	
FITTINGS	27	FIRE EXTINGUISHER																															◎		27	4.5kg CO2: dry powder chemical fire extinguisher with hook made of 120x20x2mm mild steel strip bent to form hook for extinguisher screwed	
	28	MEDICINE CABINET																◎		◎															28	MEDICINE CABINET: Standard white built in type. With lockable door. Size 380x610mm	
	29	SAFE							◎																										29	WALL SAFE: Aprox. size 280 x 310 x 230mm deep, bolted to wall with expansion bolts to inside of safe, with integrated security lock.	
	30	WHITE MAGNETIC BOARD	◎		◎																			◎						◎					30	2x(2400x1200mm) MAGNETIC WHITE BOARD: Markerboard surface, wall mounted, complete with intergrated pen tray.	
	31	PINNING BOARD	◎		◎				◎	◎	◎	◎	◎	◎	◎	◎		◎	◎	◎				◎	◎				◎						31	CARPET PINNING BOARDS: Aluminium Frame, Pen tray and fixing components Included with round plastic corners according to manufacturers	
	32	ROOF SHEETING																																	32	CHROMADEK ROOF SHEETING: 0.8mm thick and 1225mm wide with KLIP- Tite or Klip Lok clamping or similar	Acceptable colours: Gemsbok Sand, Kalahari Red, Aloe Green and Azure Blue.

DRAWING No. S100 AD-L-103 TYPE 004 REV

REVISIONS: DATE

001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update title -issue for tender	-11-09-2022
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

- ALL WORK TO COMPY WITH NATIONAL BUILDING REGULATIONS.
- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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PROJECT MANAGERS - QUANTITY SURVEYOR

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CLIENT · PROJECT

IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

ADMINSTRATION BLOCK
FINISHES SCHEDULE

SCALE	DATE	DRAWN
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

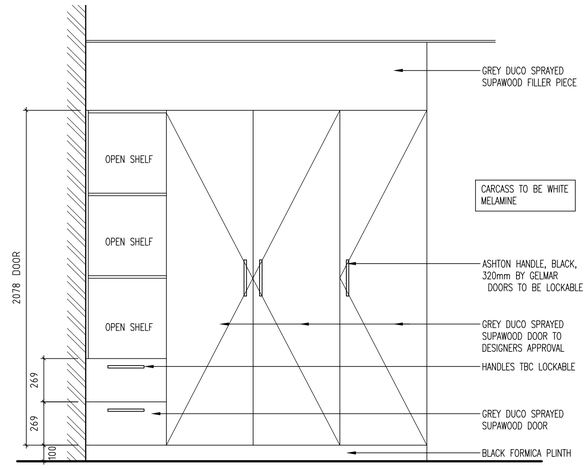
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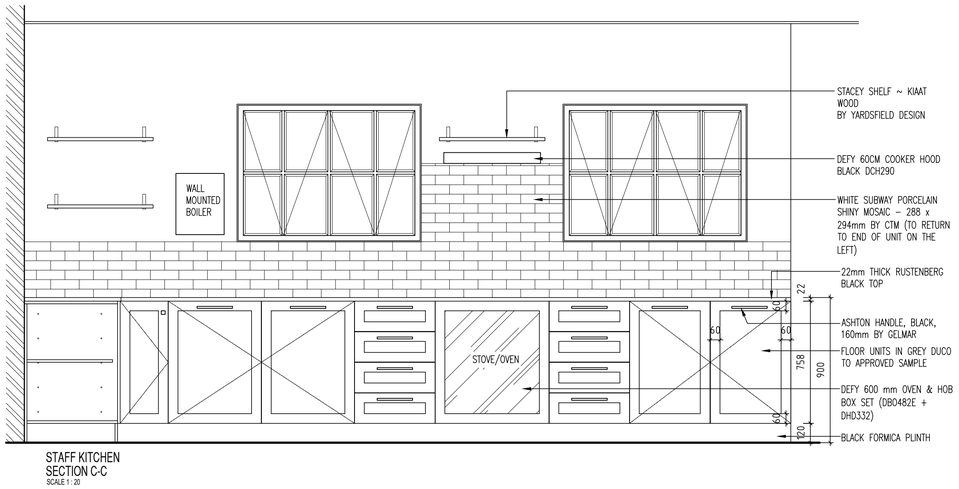
DRAWING No. S100 AD-L-103 - 004 REV

FOR-TENDER

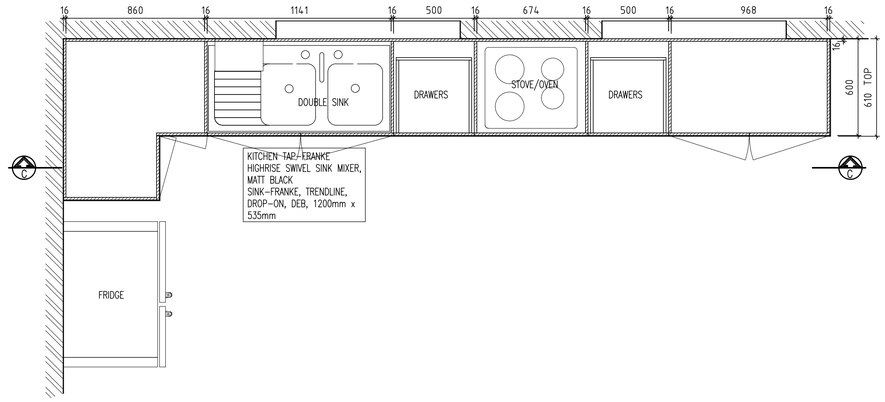
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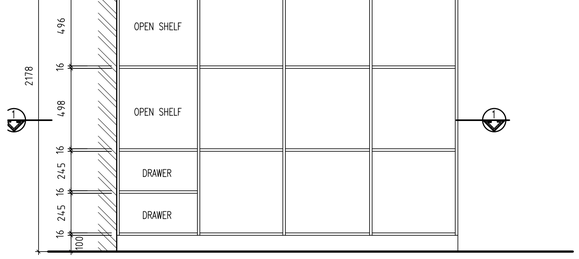


PRINCIPAL & VICE B.I.C
FRONT ELEVATION (WITH DOORS)
SCALE 1 : 20

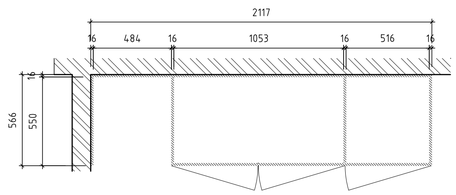


STAFF KITCHEN
SECTION C-C
SCALE 1 : 20

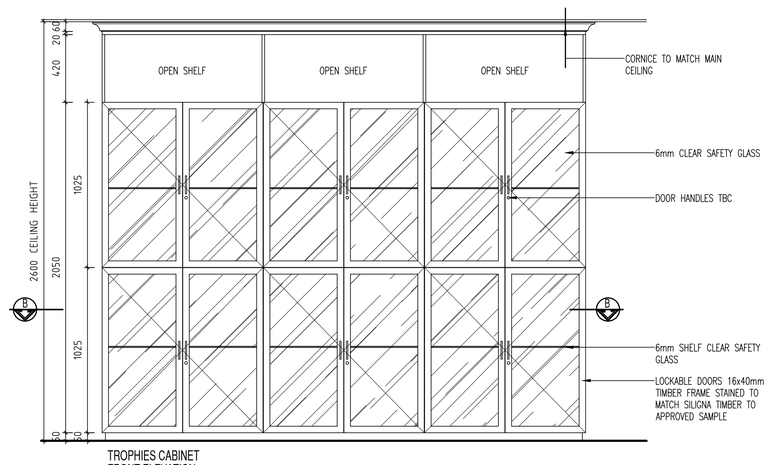




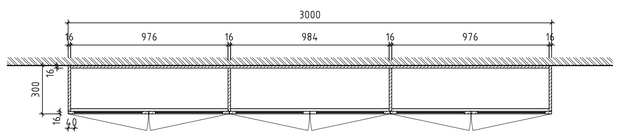
PRINCIPAL & VICE B.I.C
FRONT ELEVATION (WITHOUT DOORS)
SCALE 1 : 20



PRINCIPAL & VICE B.I.C
B.I.C SECTION 1-1
SCALE 1 : 20



TROPHIES CABINET
FRONT ELEVATION
SCALE 1 : 20



TROPHIES CABINET
SECTION B-B
SCALE 1 : 20

DRAWING No. S100 AD-L-104 TYPE — REV 001

REVISIONS: DATE

001 -issued for tender -10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

PRINCIPAL & VICE B.I.C
STAFF KITCHEN SHOPFITTING
TROPHIES CABINET

SCALE	DATE	DRAWN
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

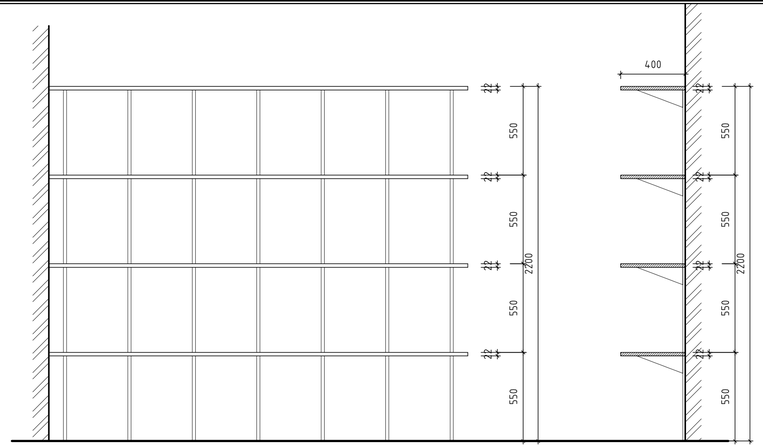
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DRAWING No. S100 AD-L-104 - REV 001

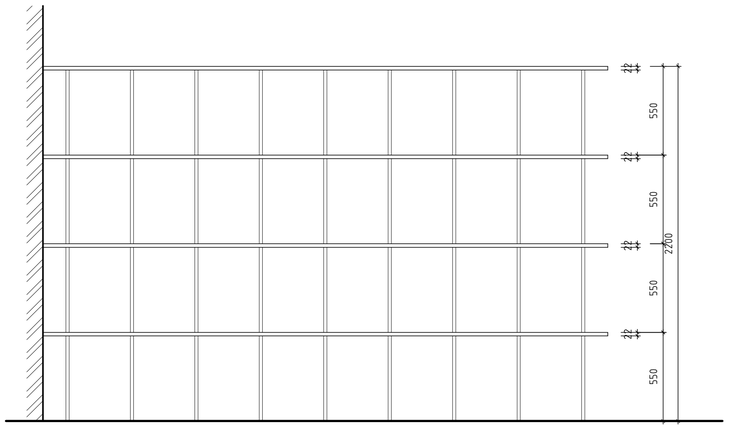
FOR-TENDER

COMP REF: REFERENCE

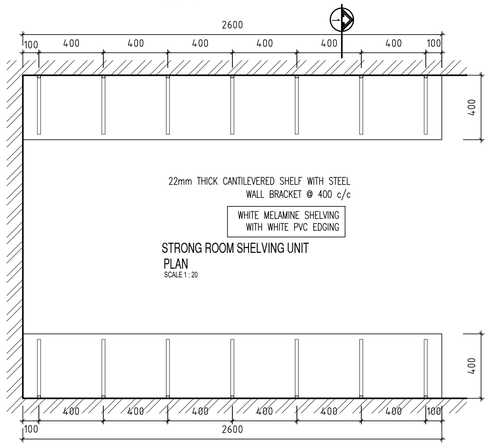


STRONG ROOM SHELVING UNIT
TYPICAL ELEVATION
SCALE 1 : 20

SHELVING UNIT
TYPICAL SECTION 1-1
SCALE 1 : 20



CLEANERS ROOM SHELVING UNIT
TYPICAL ELEVATION
SCALE 1 : 20



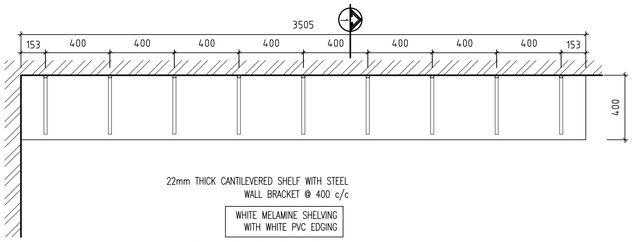
22mm THICK CANTILEVERED SHELF WITH STEEL
WALL BRACKET @ 400 c/c

WHITE MELAMINE SHELVING
WITH WHITE PVC EDGING

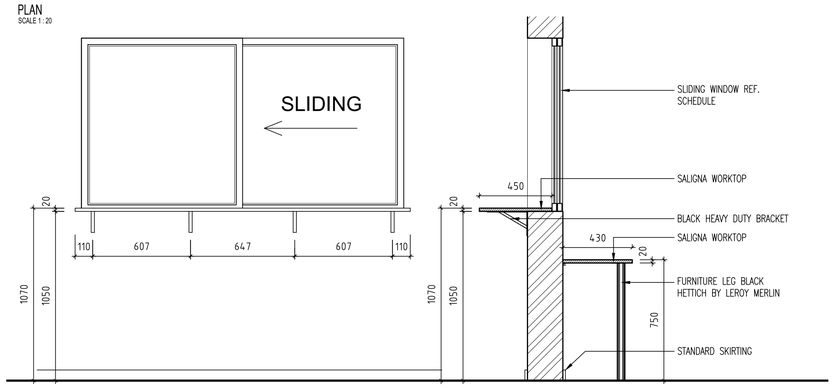
STRONG ROOM SHELVING UNIT
PLAN
SCALE 1 : 20

22mm THICK CANTILEVERED SHELF WITH STEEL
WALL BRACKET @ 400 c/c

WHITE MELAMINE SHELVING
WITH WHITE PVC EDGING

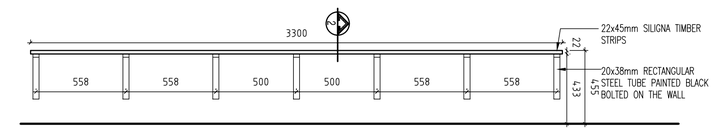


CLEANERS ROOM SHELVING UNIT
PLAN
SCALE 1 : 20

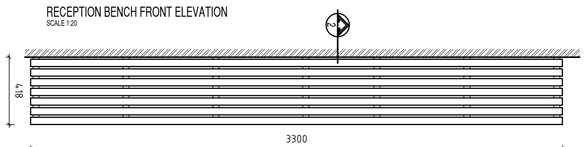


ADMIN/ ACCOUNTING OFFICE
TYPICAL ELEVATION
SCALE 1 : 20

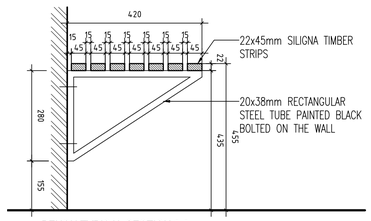
ADMIN/ ACCOUNTING OFFICE
TYPICAL SECTION 3-3
SCALE 1 : 20



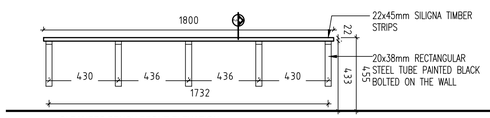
RECEPTION BENCH FRONT ELEVATION
SCALE 1:20



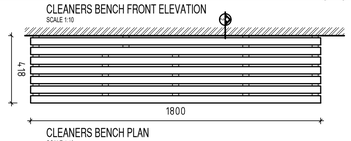
RECEPTION BENCH PLAN
SCALE 1:10



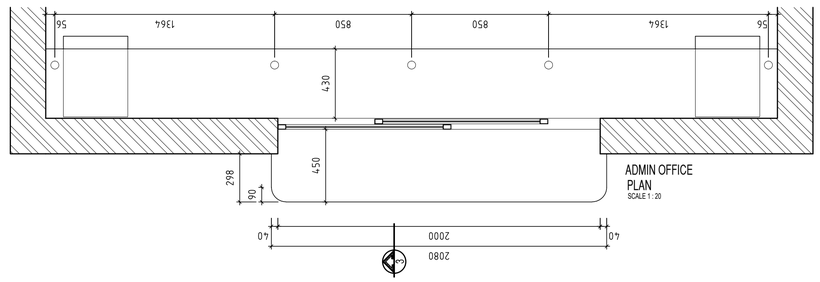
BENCH TYPICAL SECTION 2-2
SCALE 1:10



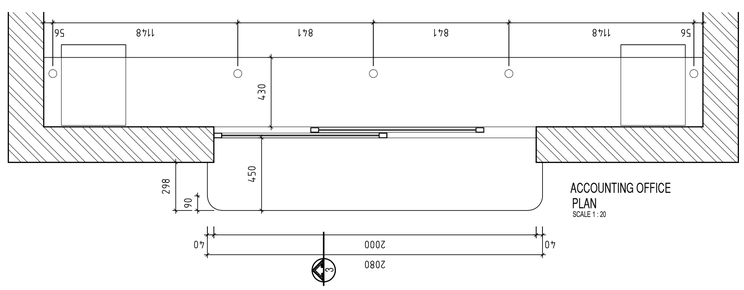
CLEANERS BENCH FRONT ELEVATION
SCALE 1:10



CLEANERS BENCH PLAN
SCALE 1:10



ADMIN OFFICE
PLAN
SCALE 1 : 20



ACCOUNTING OFFICE
PLAN
SCALE 1 : 20

DRAWING No. S100 AD-L-105 TYPE 001 REV

REVISIONS: DATE

001 -issued for tender -10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

STRONG/CLEANERD ROOM FIXED SHELVING
RECEPTION, CLEANERS BENCH AND
ADMIN/ACCOUNTING DESK DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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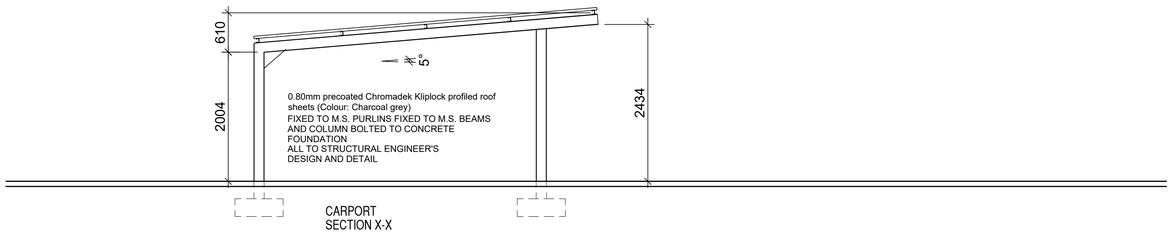
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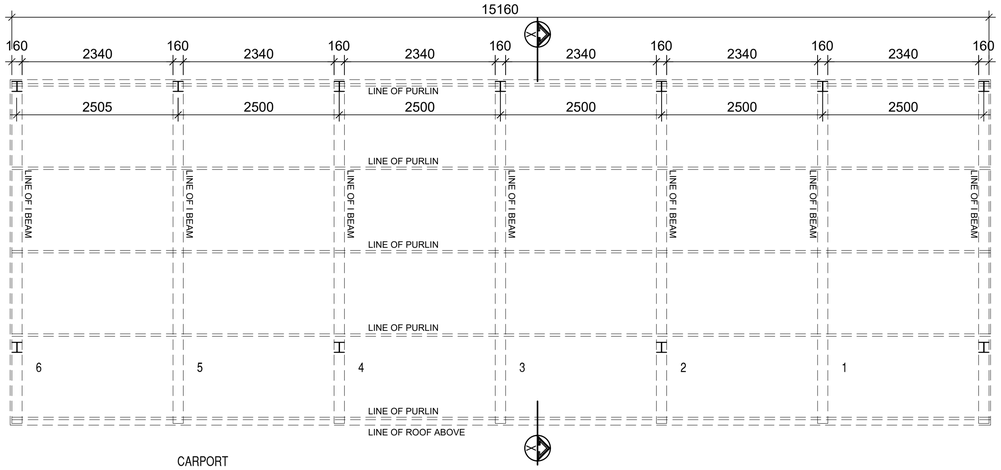
DRAWING No. S100 AD-L-105 - REV 001

FOR-TENDER

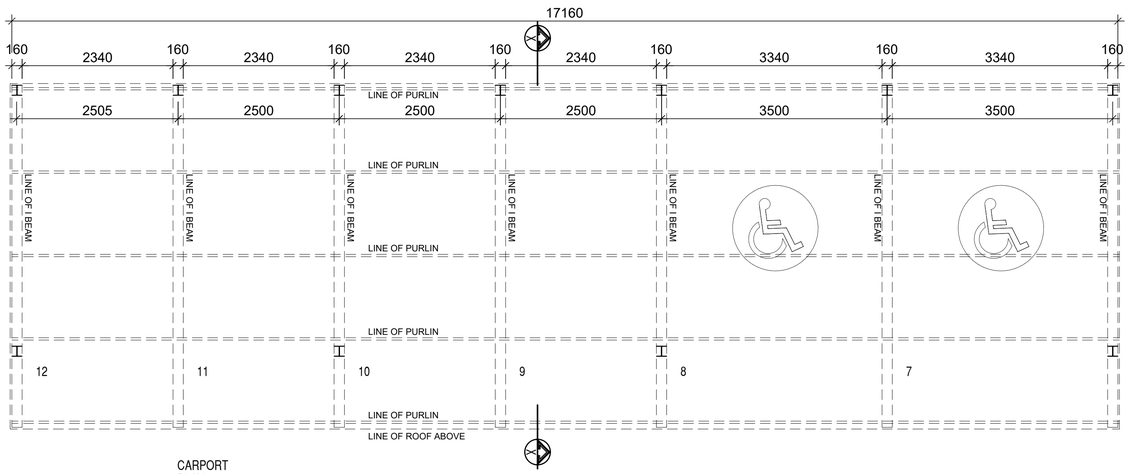
COMP REF: REFERENCE



CARPORT
SECTION X-X
SCALE 1:50



CARPORT
PLAN
SCALE 1:50



CARPORT
PLAN
SCALE 1:50

DRAWING No. REV
S100 CP-L-100 TYPE 002

REVISIONS: DATE

001	-update title -issue for tender	-09-11-2022
002	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

TYPICAL CARPORT DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2019-09-01	TT

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DRAWING No. REV
S100 CP-L-100 -
002

FOR-TENDER

COMP REF: REFERENCE

BALEBOGILE-TSHOLO CONSULTING

To: Prodev
Attention: Thabang

Drawing Register

architecture. Project managers and town
p.o. box 14005, lyttelton, 0140
2008/112387/23
cell: 0721888462
email: twalats@gmail.com

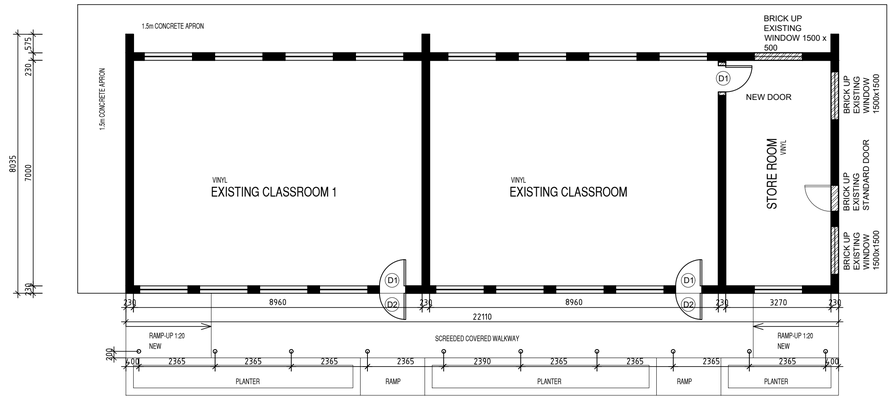
2023/06/20
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Project **S100** **IKANENG HIGH SCHOOL**

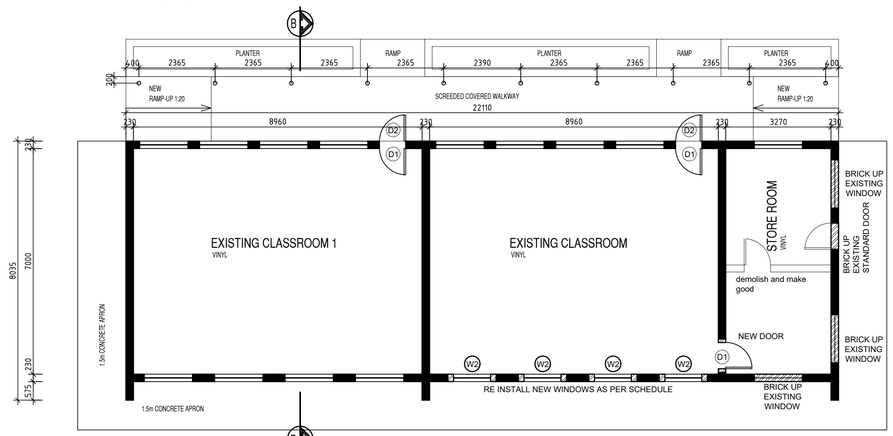
Doc No.	Rev	Size	Scale	Description	Dwg date
TB-L-100	8	A-1	A/S	NEW TOILET BLOCK PLAN, ELEVATION & SECTION	2023/06/20
TB-L-101	2	A-1	A/S	NEW TOILET BLOCK DISABLED & VANITY DETAILS	2023/06/20
NC-L-100	5	A-1	A/S	NEW BLOCKS FLOOR PLANS	2023/06/20
NC-L-101	6	A-1	A/S	NEW BLOCK SECTION AND DOOR / WINDOW SCH	2023/06/20
NC-L-102	4	A-1	A/S	NEW BLOCKS ELEVATIONS	2023/06/20
NC-L-103	3	A-1	A/S	NEW BLOCKS FINISHES SCHEDULE	2023/06/20
NC-L-104	4	A-1	A/S	NEW BLOCKS ROOF PLAN	2023/06/20
NC-L-105	3	A-1	A/S	NEW BLOCKS SHOPFITTING DETAILS	2023/06/20
N-L-100	7	A-1	A/S	NUTRITION PLANS & ELEVATIONS	2023/06/20
N-L-101	6	A-1	A/S	NUTRITION SECTIONS & SCHEDULES	2023/06/20
N-L-102	4	A-1	A/S	NUTRITION SHELFING DETAILS	2023/06/20
N-L-103	3	A-1	A/S	NUTRITION KITCHEN SHOPFITTINGS	2023/06/20
EC-L-100	4	A-1	A/S	EXISTING PLAN, SECTION, ELEVATIONS & SCHEDU	2023/06/20
EC-L-101	1	A-1	A/S	FINISHES SCHEDULE	2023/06/20
GH-L-100	6	A-1	A/S	GUARD HOUSE PLAN, SECTION, ELEVATIONS	2023/06/20
GH-L-101	5	A-1	A/S	GUARD HOUSE PLAN, SHOPFITTINGS, FLOOR FINI	2023/06/20
S-L-100	5	A-1	A/S	SPORTS BLOCK FLOOR & ROOF PLAN	2023/06/20
S-L-101	5	A-1	A/S	SPORTS BLOCK SECTION & ELEVATIONS	2023/06/20
S-L-102	5	A-1	A/S	SPORTS BLOCK SCHEDULES	2023/06/20
S-L-103	3	A-1	A/S	SPORTS BLOCK BENCH DETAIL	2023/06/20
S-L-104	4	A-1	A/S	SPORTS BLOCK VANITY DETAIL	2023/06/20
S-L-106	2	A-1	A/S	SPORTS BLOCK DISABLE DETAILS	2023/06/20
R-L-100	6	A-1	A/S	REFUSE BLOCK PLANS, ELEVATIONS, SCHEDULE	2023/06/20
AD-L-100	6	A-1	A/S	ADMIN FLOOR AND ROOF PLAN	2023/06/20
AD-L-101	5	A-1	A/S	ADMIN ELEVATIONS	2023/06/20
AD-L-102	6	A-1	A/S	ADMIN SECTIONS, DOOR & WINDOW SCHEDULE	2023/06/20
AD-L-103	4	A-1	A/S	ADMIN FINISHES SCHEDULE	2023/06/20
AD-L-104	1	A-1	A/S	ADMIN SHOPFITTING DETAILS	2023/06/20
AD-L-105	1	A-1	A/S	ADMIN SHOPFITTING DETAILS	2023/06/20
CP-L-100	2	A-1	A/S	CARPORT DETAILS	2023/06/20
SDP-L-100	5	A-1	A/S	SITE DEVELOPMENT PLAN	2023/06/20
PR-L-100	1	A-1	A/S	PUMP ROOM PLAN, SECTION, ELEVATIONS & SCH	2023/06/20
SC-L-100	3	A-4	A/S	SANITARY SCHEDULE	2023/06/20

ISSUED By: Thembelihle Twala

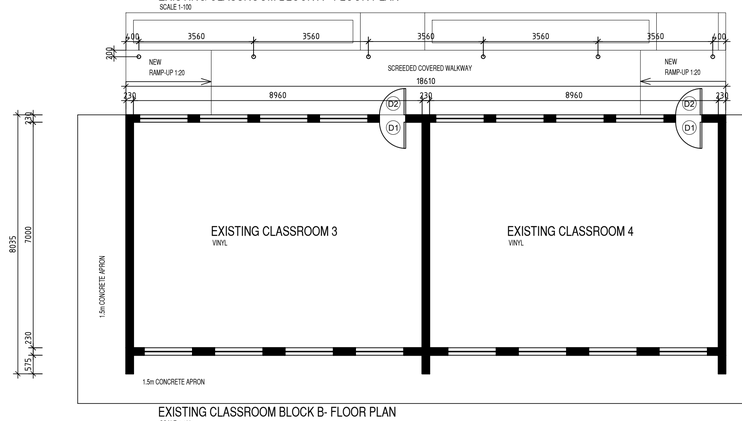
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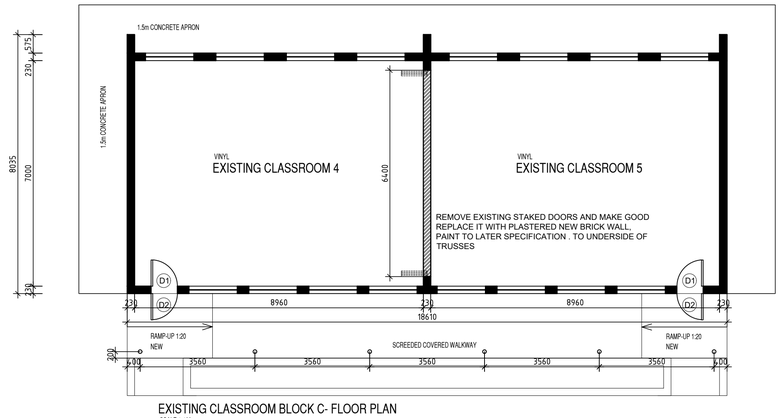
EXISTING CLASSROOM BLOCK D- FLOOR PLAN
SCALE 1-100



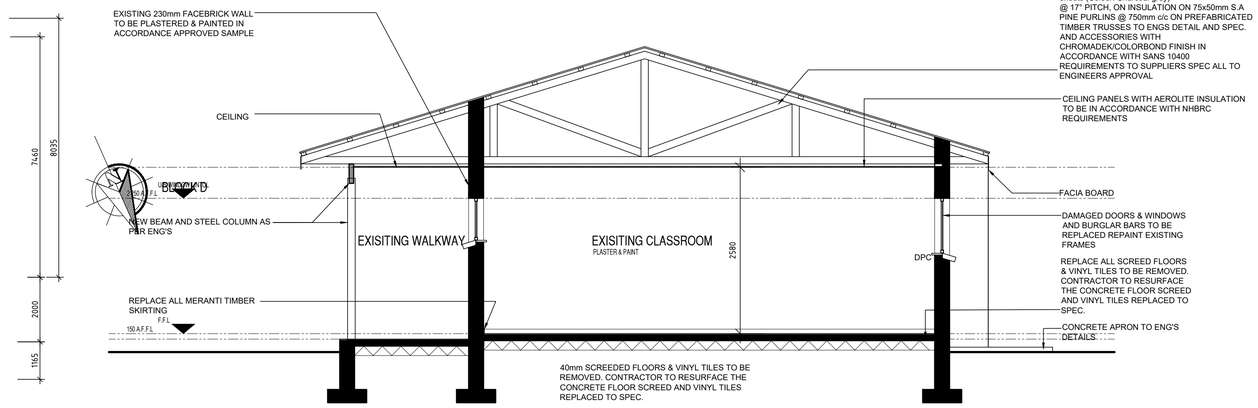
EXISTING CLASSROOM BLOCK A - FLOOR PLAN
SCALE 1-100



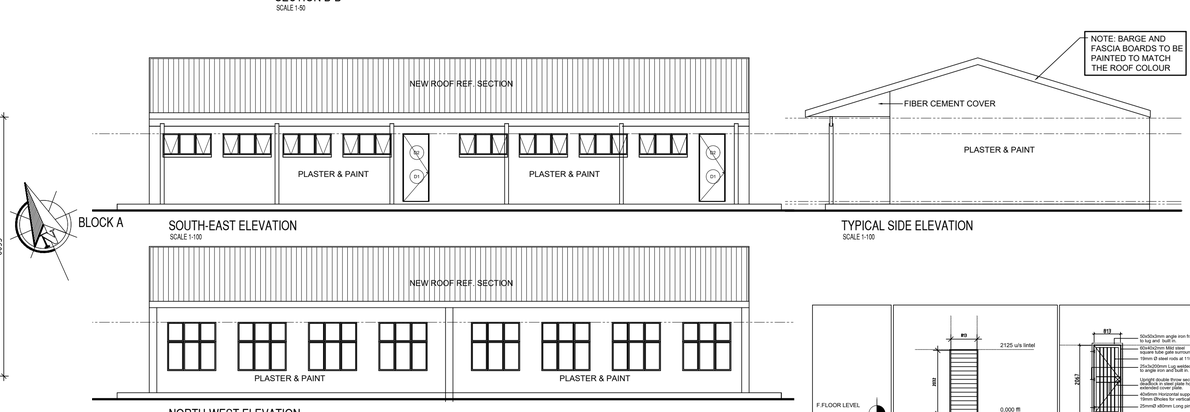
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SCALE 1-100

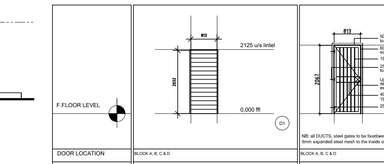


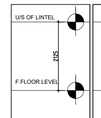
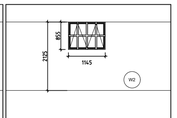
EXISTING CLASSROOM BLOCK C- FLOOR PLAN
SCALE 1-100

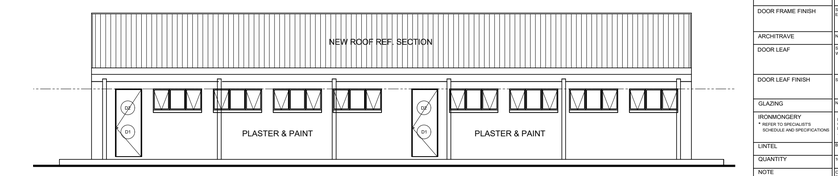


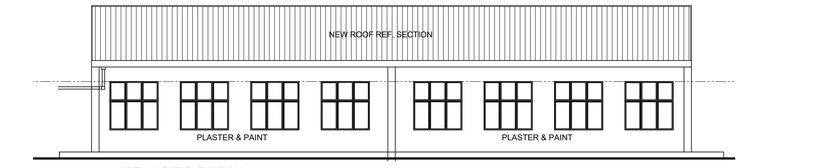
SECTION B-B
SCALE 1-50

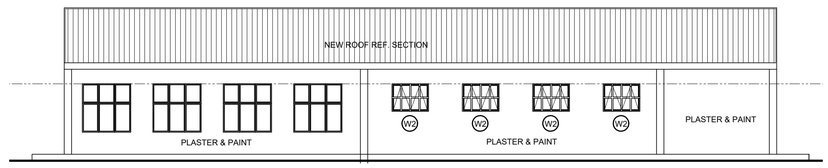


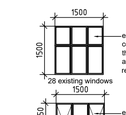
F.FLOOR LEVEL		
DOOR LOCATION	BLOCK A, B, C & D	BLOCK A, B, C & D
DOOR NUMBER	D1	D2
DOOR FRAME	NOTE: REPLACE IF ITS DAMAGED BEYOND REPAIR APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH: STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x50x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO SIDE DETAIL DT30 FRAME TO ALLOW FOR 90° SWING
FRAME SETTING OUT	CENTER OF WALL	OUTSIDE OF WALL
DOOR FRAME FINISH	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)
ARCHITRAVE	NONE	NONE
DOOR LEAF	STANDARD 2032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	TO SIDE DETAIL DT30
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)
GLAZING	NONE	NONE
IRONMONGERY * REFER TO SPECIALISTS SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES: 1&Half pair CYLINDER LOCK: 1 pair per door ACCESSORIES: signage, DOOR STOP	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	NONE
QUANTITY	10	08
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE

U/S OF LINTEL		
F.FLOOR LEVEL		
WINDOW LOCATION	AS SHOWN ON PLAN	
WINDOW NUMBER	W2	
WINDOW FRAME	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	
WINDOW FRAME FINISH	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECTS SPECIFICATIONS	
GLAZING	4mm CLEAR GLAZING	
IRONMONGERY * REFER TO SPECIALISTS SCHEDULE AND SPECIFICATIONS	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECTS APPROVAL HINGES: TO MANUFACTURER'S SPECS. SUBJECT TO ARCHITECTS APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECTS APPROVAL OTHER:	
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	
QUANTITY	4	
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	









EXISTING WINDOWS ELEVATION
SCALE 1-100

NOTES - ALL EXSITING FOUR BLOCKS OF EXISTING CLASSROOM

- EXISTING 230mm FACEBRICK WALL TO BE PLASTERED & PAINTED IN ACCORDANCE APPROVED SAMPLE
- REPLACE ALL MERANTI TIMBER SKIRTING
- REPLACE DAMAGED AIR BRICKS & VETS
- REPLACE ALL SCREED FLOORS & VINYL TILES TO BE REMOVED. CONTRACTOR TO RESURFACE THE CONCRETE FLOOR SCREED AND VINYL TILES REPLACED TO SPEC.
- ALL EXISTING DAMAGED COVERED WALKWAY CONCRETE PANELS TO BE REMOVED REINFORCED CONCRETE SLAB TO BE RECAST ON DPM, ON COMPACTED HARDCORE FILLING TO ENGS DETAIL
- EXTERNAL FIBRECEMENT CEILING TO BE REPLACE WITH NEW GYPSUM CEILING BOARD.
- REPLACE ALL CHALK BOARDS AND BACK BOARDS
- DAMAGED DOORS & WINDOWS AND BURGLAR BARS TO BE REPLACED.
- ALL WINDOW CILL TO REPAIRED.
- BUILD NEW 1M CONCRETE APRON AROUND BUILDING.
- ALL MISSING COLUMNS ON THE WALKWAY TO BE REPLACED. AND NEW BEAMS TO BE ADDED AS PER ENG'S SPEC.
- REPLACE ROOF SHEETS AND BRANDERINGS AS PER ENGINEERS DETAILS
- REPLACE CEILING BOARDS AND BRANDERINGS
- REPLACE CEILING LIGHTS, PLUGS AND SWITCHES

DRAWING No. S100 EC-L-100 TYPE — REV 004

REVISIONS:		DATE
001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update title -issue for tender	-11-09-2022
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

- ALL WORK TO COMPY WITH NATIONAL BUILDING REGULATIONS.
- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

EXISTING CLASSROOMS PLANS, ELEVATIONS, SECTION AND SCHEDULES

SCALE	DATE	DRAWN
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

Figured dimensions are to be taken in preference to scale dimensions.

The designers are to be notified of any variations.

The design on this drawing is the copyright of the designers.

Each contractor shall be responsible for ensuring the structural stability of all components of his work and ascertain that the main structure is capable of supporting all the loads applied thereto.

DRAWING No. S100 EC-L-100 - REV 004

FOR-TENDER

COMP REF: REFERENCE

EXISTING CLASSROOMS

			CLASS ROOM 1,2,3,4	STORE ROOMS	COVERED WALKWAY		
FLOOR & FLOOR FINISH	1	SCREED	◎	◎		75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	2	PAVING			◎	2mm PUR VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	NOTE: In Classrooms EXCLUDING THE GRADE R CLASSROOMS, all classrooms to have a combination OF 2mm SD VINYL FLOOR SHEETING, up to 2m in width from wall and the remainder of the classroom will be covered in 2mm PUR Vinyl Sheeting. Non-directional SD MUST be combined with non-directional PUR.
	3	SD VINYL SHEETING				2mm SD VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	VISA VERSA directional SD to be combined with directional PUR. DO NOT MIX non-directional and directional.
	4	SAFETY VINYL SHEETING	◎			2mm SAFETY VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	
	5	GRANOLITE		◎		All STORE ROOMS and PLANT ROOMS: SMOOTH GRANOLITE on screed free of dents and bumps.	
	6	TRANSITION STRIP		◎		40mm Aluminium TRANSITION STRIP embedded into screed between Vinyl Sheeting and granolite	
	7	MERANTI SKIRTING BOARD	◎	◎	◎	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. Finish with 2 coats clear eggshell	polyurethane varnish.
	8	PRECAST CONC. PAVING BLOCKS				PRECAST CONCRETE PAVING BLOCKS: 65mm thick, pigmented interlocking paving	
WALLS	9	PLASTER AND PAINT ABOVE 765MM BRICKWORK				PLASTER AND PAINT: 1 Coat plaster and 1 coat acrylic PVA suitable for washing with a mild detergent and with a mat finish. Apply at 10m	PLANT ROOM walls to be GREY in colour
	10	PLASTER AND PAINT (PVA)	◎	◎	◎	PLASTER AND PAINT: 1 Coat plaster and 1 coat acrylic PVA suitable for washing with a mild detergent and with a mat finish. Apply at 10m	
	11	BLOCKOUT ROLLER BLINDS					
CILLS	12	WINDOW CILL	◎	◎	◎	BRICK ON EDGE WINDOW CILL:(internal) built in soldier course flush with dado wall. All joints to be flush half round pointed joints. BRICKS ON THE ENDS TO BE SOLID AND NOT HOLLOW	LINTELS to be mild steel double angle line welded to center of brickwork 6-10mm thickness, subject to span.
CEILINGS	13	ACOUSTIC SUSPENDED CEILING	◎	◎	◎	15mm thick ACOUSTIC SUSPENDED ceiling on 1200mm x 600mm grid (ONLY USED IN SCHOOL HALL AND CLASSROOMS)	
	14	FIBER CEMENT CEILING BOARDS				FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards	
	15	CEILING INSULATION	◎	◎	◎	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid according to manufacturers specification. With combination of 25mm sisalation membrane	
FITTINGS	16	FIRE EXTINGUISHER				4.5kg DCP: dry powder chemical fire extinguisher with hook made of 120x20x2mm mild steel strip bent to form hook for extinguisher screwed	twice to 520x100x22 hardwood. Hardwood screwed and plugged with 6 screws and plugs. Positioned as shown on Site. Provide 190x190mm ABS plastic symbol safety signs - type FB2. Plugged and screwed to wall at all fire extinguishers.
	17	PINNING BOARD	◎	◎	◎	CARPET PINNING BOARDS: Aluminium Frame, Pen tray and fixing components Included with round plastic corners	according to manufacturers instructions. Overall size 1200 high x 2400mm Wide consisting of 1 Pinning Board
	18	MAGNETIC WHITE BOARD				2x(2400x1200mm) MAGNETIC WHITE BOARD: Markerboard surface, wall mounted, complete with intergrated pen tray.	
	19	ROOF SHEETING	◎	◎	◎	CHROMADEK ROOF SHEETING: 0.8mm thick and 1225mm wide with KLIP- Tite or Klip Lok clamping or similar	Acceptable colours: Gemsbok Sand, Kalahari Red, Aloe Green and Azure Blue.

DRAWING No. S100 EC-L-101 TYPE — REV 001

REVISIONS: — DATE

001 -issued for tender -10-07-2023

PLUMBING-NOTES

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GENERAL-NOTES

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- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

EXISTING CLASSROOMS
FINISHES SCHEDULE

SCALE DATE DRAWN

AS_SHOWN 2020-03-01 TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

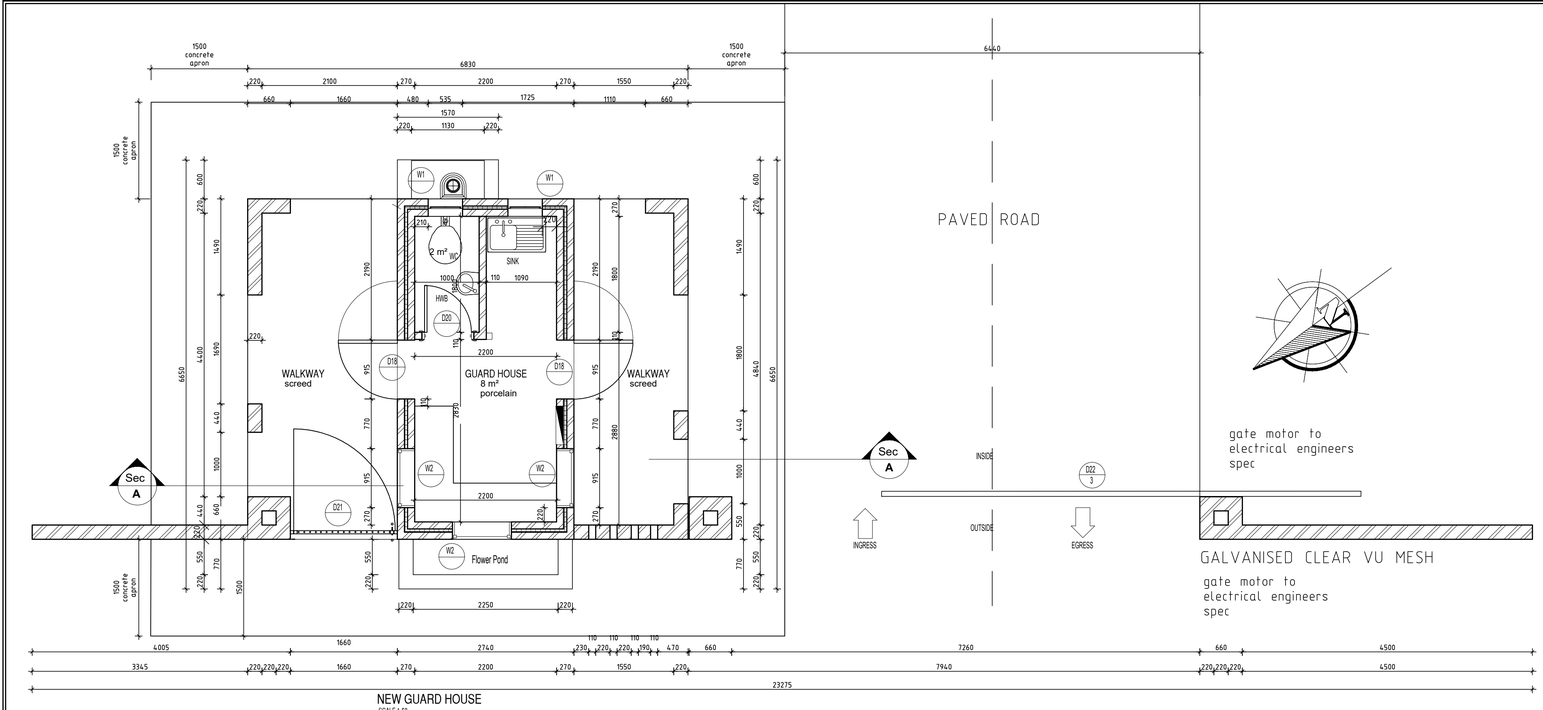
Figured dimensions are to be taken in preference to scale dimensions.
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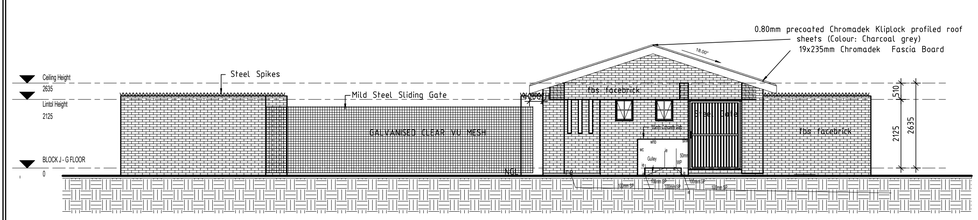
DRAWING No. S100 EC-L-101 - REV 001

FOR-TENDER

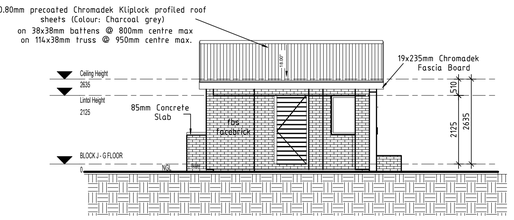
COMP REF: REFERENCE



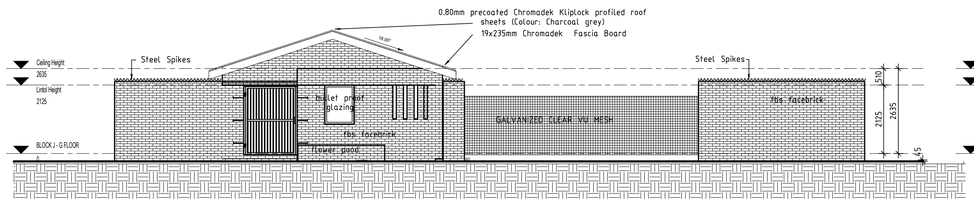
NEW GUARD HOUSE
SCALE 1-50



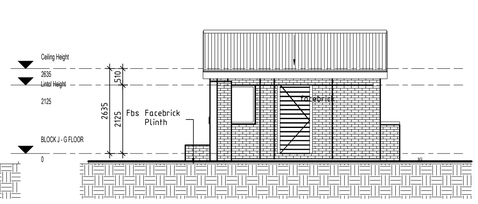
EAST ELEVATION
SCALE 1-100



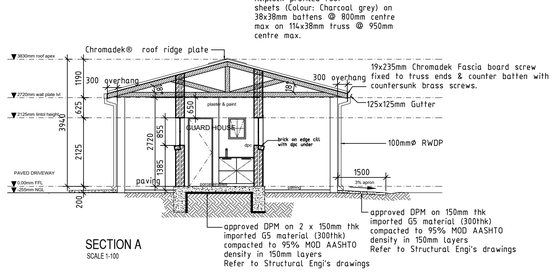
NORTH ELEVATION
SCALE 1-100



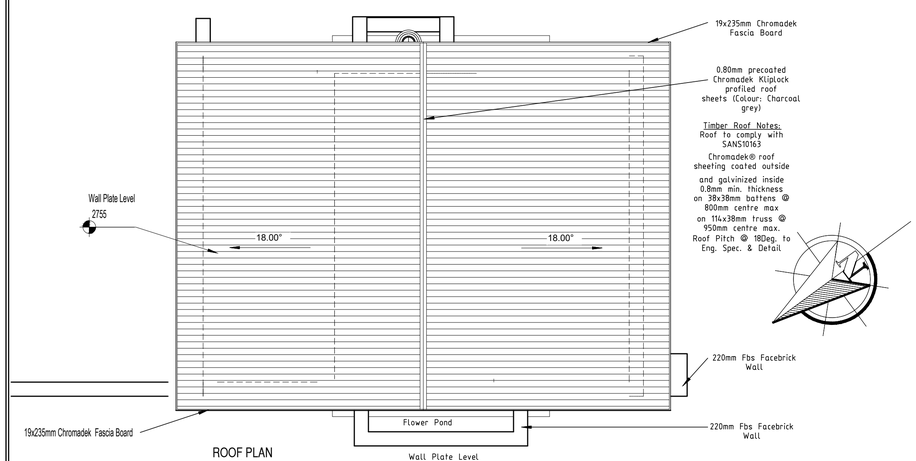
WEST ELEVATION
SCALE 1-100



SOUTH ELEVATION
SCALE 1-100



SECTION A
SCALE 1-100



ROOF PLAN
SCALE 1-50

GUARD HOUSE

			GUARD HOUSE	TOILET	COVERED OUTSIDE AREA			
			J101	J102	J103			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	2.13 of specification with 50mm sand over poison.
	2	COMPACTED FILL	◎	◎	◎	2	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	3.1	75MM CONCRETE SURFACE BED	◎	◎	◎	3	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS/A400), all side	
	4.1	ANTI-SLIP PORCELAIN TILES	◎	◎		4	300x300mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	5	MERANTI SKIRTING BOARD	◎			5	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	
	6	PRECAST CONC. PAVING BLOCKS			◎	6	PRECAST CONCRETE PAVING BLOCKS: 65mm thick, pigmented interlocking paving	
WALLS	7	9 BRICKCOURSES ABOVE FLOOR HEIGHT 765MM	◎			7	9 brick courses above floor level, approximately 765mm in height.	
	8	PLASTER AND PAINT ABOVE 765MM BRICKWORK	◎			8	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two	
	9	SPLASH BACK TILES	◎			9	750mm high SPLASHBACK TILING: Above sink, vanities and applicable counter tops.	
	10	GLOSSY CERAMIC WALL TILES 1500MM HIGH FROM FLOOR LEVEL		◎		10	GLOSSY CERAMIC TILES: 120mm x 200mm, with aluminium coping. 1500mm in height from floor level	
	11	PLASTER AND PAINT ABOVE 1500MM GLOSSY CERAMIC TILES		◎		11	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two	
	12	SELIGNA WORKTOP	◎			12		
CILLS	13	BOE CILL	◎	◎		13	BRICK ON EDGE WINDOW CILL (internal) built in soldier course flush with dado wall. All joints to be flush half round pointed joints. BRICKS ON THE ENDS TO BE SOLID AND NOT HOLLOW	LINTELS to be mild steel double angle line welded to center of brickwork. 6-10mm thickness, subject to span.
CEILINGS	14	GYPSUM SUSPENDED CEILING	◎			14	Gypsum suspended ceiling panels with vinyl coating/ sheeting (NOT TO BE USED IN WET AREAS).	
	15	FIBER CEMENT SUSPENDED CEILING		◎		15	Fibre Cement suspended ceiling: "ON 1200mm X 600mm GRID. [ACOUSTIC SUSPENDED BOARDS TO BE USED IN CLASSROOMS AND SCHOOL HALL 15mm thick)	
	16	FIBRE CEMENT CEILING BOARDS			◎	16	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards	
	17	CEILING INSULATION	◎			17	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid according to manufacturers specification. With combination of 25mm isolation membrane	All in compliance with Category of Occupancy A3 for Climate Zone 1
SANITARY FITTINGS	18	STANDARD WC		◎		18	REF. TO SCHEDULE	
	19	WHITE GLAZED PORCELAIN WHB		◎		19	REF. TO SCHEDULE	
	20	TOILET ROLL HOLDER		◎		20	REF. TO SCHEDULE	
	21	TOWEL RAIL		◎		21	REF. TO SCHEDULE	
	22	SOAP HOLDER WITH TRAY		◎		22	REF. TO SCHEDULE	
	23	GLASS MIRROR		◎		23	450x600x6mm "GO" QUALITY POLISHED GLASS MIRROR: Fix to wall position as shown on site with round nose chromium plated mirror screws.	
	24	ROOF SHEETING				24	CHROMADEK ROOF SHEETING: 0.8mm thick and 1225mm wide with KLIP- Tite or Klip Lok clamping or similar	Acceptable colours: Gemdock Sand, Kalahari Red, Aloe Green and Azure Blue.
	25	MILD STEEL MESH				25	Mild Steel Mesh to be placed infront of windows of Guard House, on the inside.	

DRAWING No. S100 GH-L-100 TYPE — REV 006

REVISIONS:		DATE
001	-add concrete apron	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update title -issue for tender	-11-09-2022
005	-update sanitary spec.	-20-12-2022
006	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW GUARD HOUSE
PLANS, ELEVATIONS
AND SECTION

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

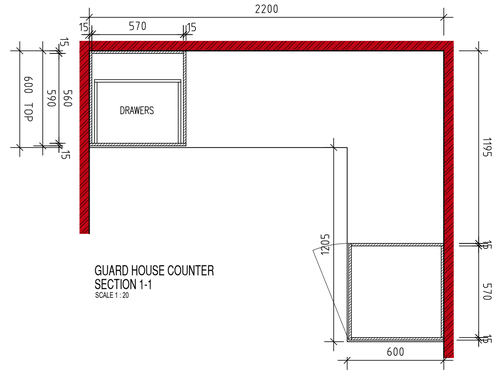
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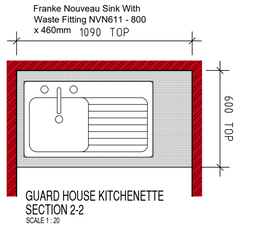
DRAWING No. S100 GH-L-100 - REV 006

FOR-TENDER

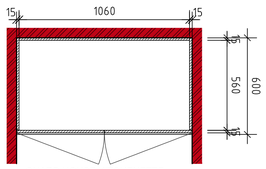
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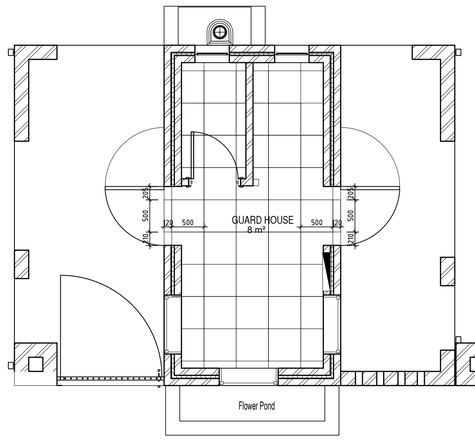
GUARD HOUSE COUNTER
SECTION 1-1
SCALE 1 : 20



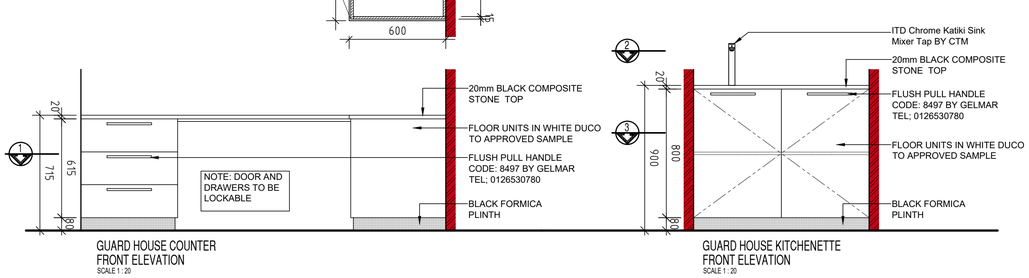
GUARD HOUSE KITCHENETTE
SECTION 2-2
SCALE 1 : 20



GUARD HOUSE KITCHENETTE
SECTION 3-3
SCALE 1 : 20

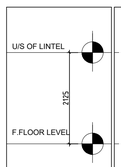


NEW GUARD HOUSE
FLOOR FINISHES
SCALE 1:50



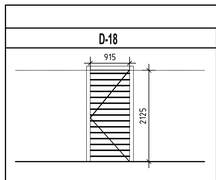
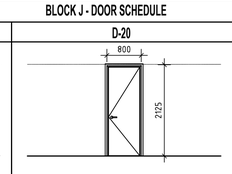
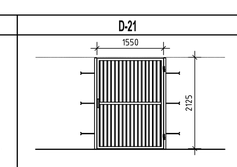
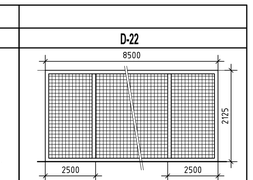
GUARD HOUSE COUNTER
FRONT ELEVATION
SCALE 1 : 20

GUARD HOUSE KITCHENETTE
FRONT ELEVATION
SCALE 1 : 20



WINDOW LOCATION	WC & KITCHEN	GUARD HOUSE
WINDOW NUMBER	W1	W2 BULLET PROOF
WINDOW FRAME	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	TO MANUFACTURERS DETAIL
WINDOW FRAME FINISH	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS	TO MANUFACTURERS DETAIL
GLAZING	4mm OBSCURE GLAZING	TO MANUFACTURERS DETAIL
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURERS' SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:	TO MANUFACTURERS DETAIL
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.
QUANTITY	2	3
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE

BLOCK J - DOOR SCHEDULE

D-18	D-20	D-21	D-22
			
915 2125	800 2125	1550 2125	8500 2125 2500 2500

ITEM	DESCRIPTION		ITEM	DESCRIPTION		ITEM	DESCRIPTION		ITEM	DESCRIPTION	
DOOR FRAME	STEEL FRAME		DOOR FRAME	STEEL FRAME		DOOR FRAME	MANUFACTURER DETAIL		DOOR FRAME	80x80mm S/S FRAME TO MATCH CLEAR/U FINISH	
DOOR FRAME FINISH	PAINTED COLOR T.B.C		DOOR FRAME FINISH	PAINTED COLOR T.B.C		DOOR FRAME FINISH	MANUFACTURER DETAIL		DOOR FRAME FINISH	CLEAR/U INSIDE S/S FRAME TO MATCH THE FENCE	
DOOR PANEL	SOLID TIMBER		DOOR PANEL	SEMI SOLID TIMBER		DOOR PANEL	MANUFACTURER DETAIL		DOOR PANEL	MANUFACTURER DETAIL	
DOOR FINISH	VARNISHED		DOOR FINISH	VARNISHED		DOOR FINISH	MANUFACTURER DETAIL		DOOR FINISH	MANUFACTURER DETAIL	
LOCATION & QUANTITY	GUARD HOUSE:	2	LOCATION & QUANTITY	GH-TOILET:	1	LOCATION & QUANTITY	COVERED VERANDA:	1	LOCATION & QUANTITY	COVERED VERANDA:	1
	TOTAL ITEMS:	2		TOTAL ITEMS:	1		TOTAL ITEMS	1		TOTAL ITEMS	1
IRONMONGERY	BALL BEARING HINGES 1&half pair LOCK + CYLINDER HANDLE- ACCESSORIES- door stop + SIGNAGE DOOR CLOSER- D C delay closer		IRONMONGERY	BALL BEARING HINGES 1&half pair BATHROOM INDICATOR THUMB LOCK + CYLINDER- ACCESSORIES- Chrome Plated Single Coat Hook		IRONMONGERY	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.		IRONMONGERY	HOOK LOCK WITH GATE MOTOR.	
OVERALL DOOR DESCRIPTION			OVERALL DOOR DESCRIPTION			OVERALL DOOR DESCRIPTION			OVERALL DOOR DESCRIPTION		

DRAWING No. S100 GH-L-101 TYPE — REV 005

REVISIONS: — DATE

001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-Add ironmongery	-13-12-2022
004	-Update ironmongery	-23-06-2023
005	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW GUARD HOUSE
SHOPFITTING DRAWINGS, FLOOR FINISHES AND SCHEDULES

SCALE DATE DRAWN

AS_SHOWN 2020-03-01 TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

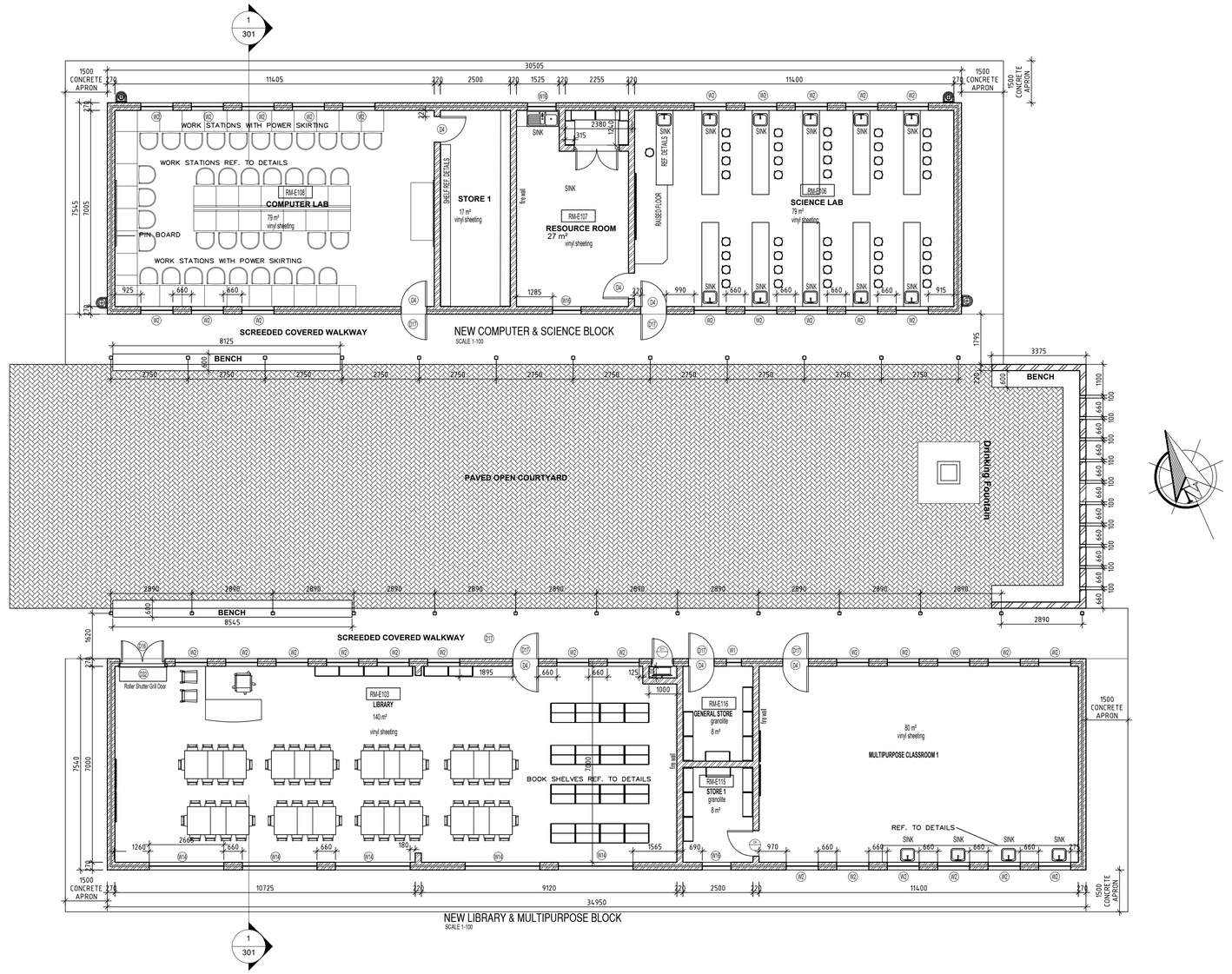
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DRAWING No. S100 GH-L-101 - REV 005

FOR-TENDER

COMP REF: REFERENCE



DRAWING No. REV

S100 NC-L-100 TYPE 005

REVISIONS: DATE

001	-UPDATE APRON	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update title -issue for tender	-11-09-2022
004	-update schedule	-22-06-2023
005	-issued for tender	-10-07-2023

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW BLOCKS LABS, LIBRARY AND MULTI PURPOSE FLOOR PLANS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

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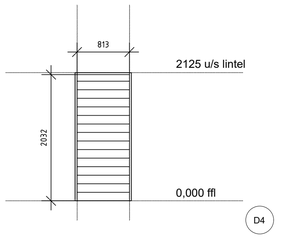
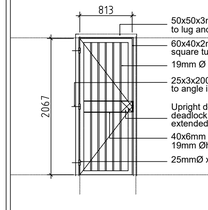
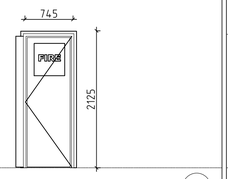
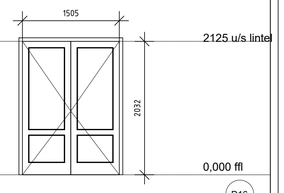
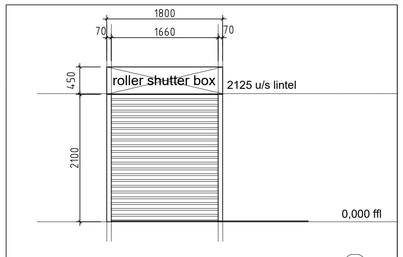
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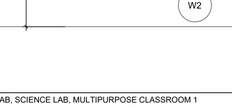
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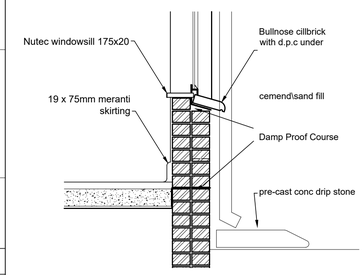
S100 NC-L-100 - 005

FOR-TENDER

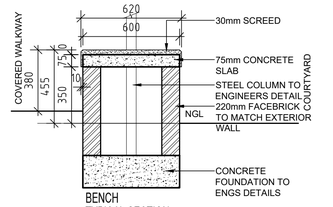
COMP REF: REFERENCE

F.FLOOR LEVEL	 D4	 D17 NB: all DUCTS, steel gates to be fixed(welded) with 6mm expanded steel mesh to the inside of the gate.	 D11 NB: all DUCTS, steel gates to be fixed(welded) with 6mm expanded steel mesh to the inside of the gate.	 D16	 D32
DOOR LOCATION	STORE 1, RESOURCE ROOM & STORE	AS SHOWN ON PLANS	AS SHOWN ON PLANS	LIBRARY	LIBRARY
DOOR NUMBER	D4	D17	D11	D16	D32
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x50x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO GDE DETAIL DT30 FRAME TO ALLOW FOR 90° SWING	STEEL FRAME FOR 110MM INTERNAL WALL	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	TO MANUFACTURER DETAIL
FRAME SETTING OUT	CENTER OF WALL	OUTSIDE OF WALL	OUTSIDE OF WALL	CENTER OF WALL	TO MANUFACTURER DETAIL
DOOR FRAME FINISH	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT- TO ARCHITECT'S SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	1 X COAT PRIMER & 1 X COAT APPROVED ENAMEL PAINT	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT- TO ARCHITECT'S SPECIFICATIONS	TO MANUFACTURER DETAIL
ARCHITRAVE	NONE	NONE	NONE	NONE	NONE
DOOR LEAF	STANDARD 2032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	TO GDE DETAIL DT30	STEEL WITH HARDBOARD BOTH SIDES & GEORGIAN GLASS WITH SIGNAGE Fire Hose Reels (FHR) closets to have a solid door with 600mm wide x 350mm high viewing clear safety glass panel with uppercased word in basic color signal red "FIRE" (Code A11) painted in the glass.	STANDARD 2032 HIGH x 1505mm(DOUBLE Door) WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	ROLL-UP GARAGE-TYPE DOOR GALVANISED MILD STEEL CRANK-OPERATED 75 x 0.6mm THICK SLATTED CURTAIN ROLLER SHUTTER FOR OPENING 3046 x 2125mm HIGH WITH STANDARD BOTTOM RAIL WITH OVERHEAD BOX, WITH 75MM WIDE GUIDES, WITH EXTRUDED ALUMINIUM T-BAR WITH RUBBER SEAL, POWDER COATED ANCILLARY COMPONENTS INCLUDING 4.5MM THICK END PLATES, GUIDE RAILS, ETC, AND WITH CENTRE LOCK, FIXED TO BRICKWORK AND CONCRETE TO ENGINEER'S DETAIL
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	1 X COAT PRIMER & 1 X COAT APPROVED PVA PAINT — These doors to be painted signal red with paint code A11 as well defined in the fire consultant technical documentation and in compliance with SANS 1091.	SAND DOWN TWO COATS APPROVED CLEAR exterior VARNISH.	1 x COAT PRIMER & 1 x COAT APPROVED PVA PAINT
GLAZING	NONE	NONE	NONE	NONE	NONE
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES 1&half pair CYLINDER LOCK- LEVEL HANDLE- ACCESSORIES- signage, DOOR STOP	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.	AS PER MANUFACTURES SPEC.	BALL BEARING HINGES 3 pair CYLINDER LOCK- LEVEL HANDLE- ACCESSORIES- DOOR BOLT ACCESSORIES- signage, DOOR STOP	AS PER MANUFACTURES SPEC.
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	NONE	NONE	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	NONE
QUANTITY	08	05	01	01	01
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE

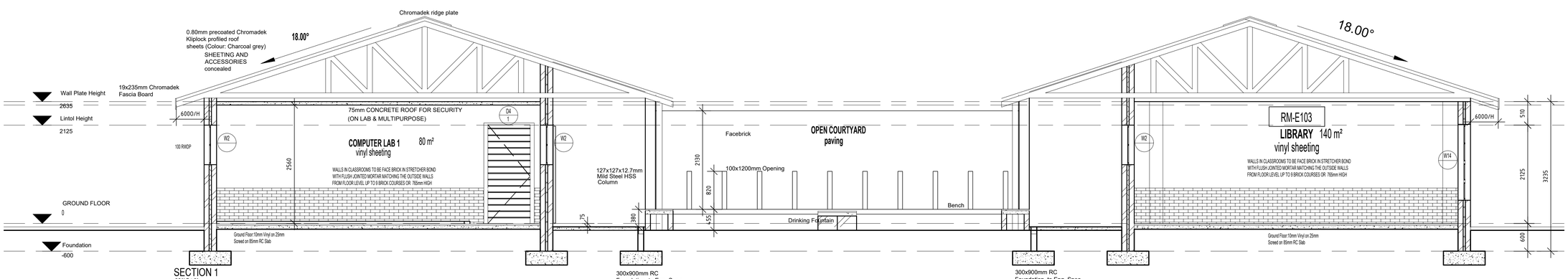
U/S OF LINTEL 2125 F.FLOOR LEVEL	 W1	 W2	 W14	 W16
	GENERAL STORE			RESOURCE ROOM
WINDOW LOCATION	GENERAL STORE	COMPUTER LAB, SCIENCE LAB, MULTIPURPOSE CLASSROOM 1 & LIBRARY	LIBRARY	STORE 1 & RESOURCE ROOM
WINDOW NUMBER	W1	W2	W14	W16
WINDOW FRAME	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.
WINDOW FRAME FINISH	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS
GLAZING	4mm OBSCURE GLAZING	4mm CLEAR GLAZING	4mm CLEAR GLAZING	4mm CLEAR GLAZING
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURER'S SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURER'S SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURER'S SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURER'S SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.
QUANTITY	1	37	5	37
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE



WINDOW CILL TYPICAL SECTION
SCALE 1 : 20



BENCH TYPICAL SECTION
SCALE 1 : 20



DRAWING No. S100 NC-L-101 - REV 006

REVISIONS:		DATE
001	-OMIT GUTTERS	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update title -issue for tender	-11-09-2022
005	-update schedule	-22-06-2023
006	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW BLOCKS LABS, LIBRARY AND MULTI PURPOSE DETAIL, SECTION, DOOR AND WINDOW SCHEDULES

SCALE	DATE	DRAWN
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

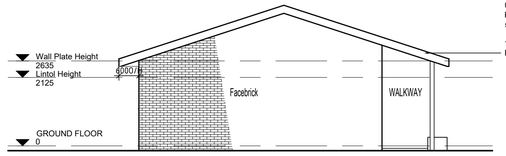
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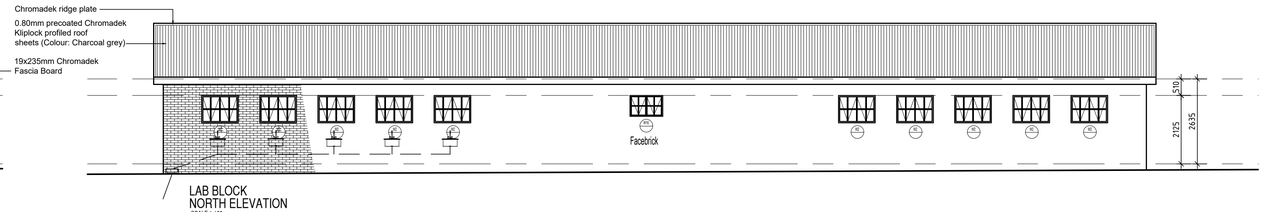
DRAWING No. S100 NC-L-101 - REV 006

FOR-TENDER

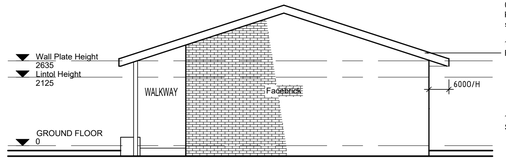
COMP REF: REFERENCE



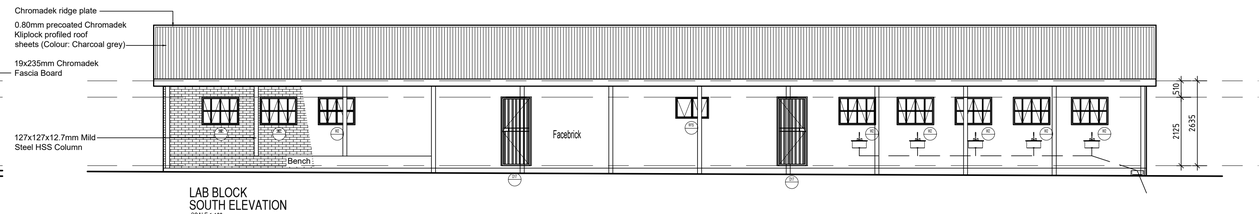
LAB BLOCK
WEST ELEVATION
SCALE 1:100



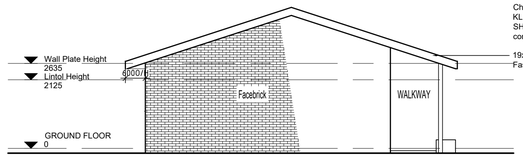
LAB BLOCK
NORTH ELEVATION
SCALE 1:100



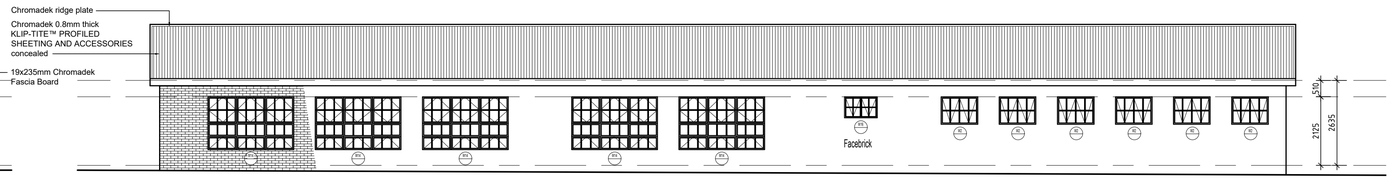
LAB BLOCK
EAST ELEVATION
SCALE 1:100



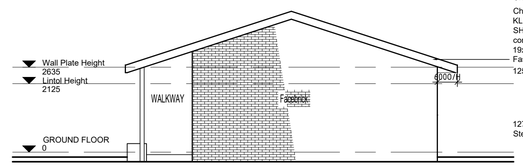
LAB BLOCK
SOUTH ELEVATION
SCALE 1:100



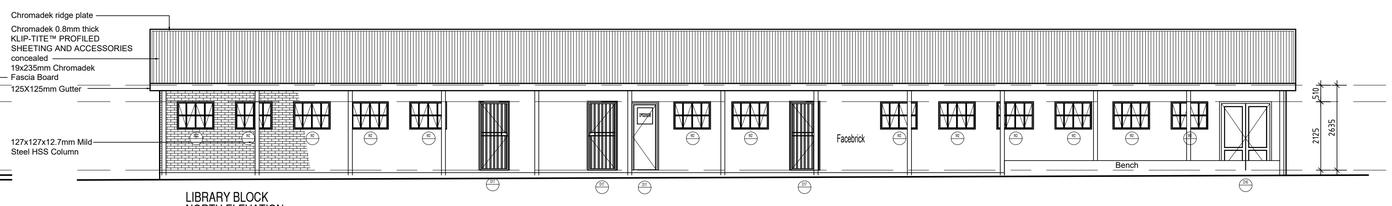
LIBRARY BLOCK
EAST ELEVATION
SCALE 1:100



LIBRARY BLOCK
SOUTH ELEVATION
SCALE 1:100



LIBRARY BLOCK
WEST ELEVATION
SCALE 1:100



LIBRARY BLOCK
NORTH ELEVATION
SCALE 1:100

DRAWING No. S100 NC-L-102 TYPE — REV 004

REVISIONS: — DATE

001	-update as per comments	-23-06-2020
002	-update elevations ground slope	-20-08-2020
003	-update title -issue for tender	-11-09-2022
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW BLOCKS
LABS, LIBRARY AND MULTI PURPOSE
ELEVATIONS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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DRAWING No. S100 NC-L-102 - — REV 004

FOR-TENDER

COMP REF: REFERENCE

LIBRARY AND LABS

			LIBRARY	SCIENCE LAB	RESOURCE ROOM	COMPUTER LAB	MULTIPURPOSE C/ROOM	STORE 1	GENERAL STORE	FHR 1	FHR 2	OPEN COURTYARD	COVERED WALKAYS			
			E103	E105	E106	E107	E109	E114	E115	E116						
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	2.13 of specification with 50mm sand over poison.
	2	COMPACTED FILL	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	2	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	3	75mm CONCRETE SURFACE BED	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	3	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	4	ANTI-SLIP PORCELAIN TILES												4	500x500mm ANTI-SLIP PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints	to manufacturers recommendations and instructions.
	5	PUR VINYL SHEETING	◎		◎									5	2mm PUR VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	NOTE: In Classrooms EXCLUDING THE GRADE R CLASSROOMS, all classrooms to have a combination OF 2mm SD VINYL FLOOR SHEETING, up to 2m in width from wall and the remainder of the classroom will be covered in 2mm PUR Vinyl Sheeting. Non-directional SD MUST be combined with non-directional PUR.
	6	SD VINYL SHEETING												6	2mm SD VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	VISA VERSA directional SD to be combined with directional PUR. DO NOT MIX non-directional and directional.
	7	SAFETY VINYL SHEETING		◎		◎	◎							7	2mm SAFETY VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	
	8	GRANOLITE						◎	◎	◎	◎		◎	8	All STORE ROOMS and PLANT ROOMS: SMOOTH GRANOLITE on screed free of dents and bumps.	
	9	TRANSITION STRIP		◎		◎	◎							9	40mm Aluminium TRANSITION STRIP embedded into screed between Vinyl Sheeting and Porcelain Floor Tiles.	
	10	MERANTI SKIRTING BOARD	◎	◎	◎	◎	◎	◎	◎					10	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. Finish with 2 coats clear eggshell	polyurethane varnish.
	11	PRECAST CONC. PAVING BLOCKS										◎		11	PRECAST CONCRETE PAVING BLOCKS: 65mm thick, pigmented interlocking paving	
WALLS	12	9 BRICKCOURSES ABOVE FLOOR HEIGHT 765MM	◎	◎	◎	◎	◎							12	9 brick courses above floor level, approximately 765mm in height.	
	13	PLASTER AND PAINT ABOVE 765MM BRICKWORK	◎	◎	◎	◎	◎							13	PLASTER AND PAINT: 1 Coat plaster and 1 coat acrylic PVA suitable for washing with a mild detergent and with a mat finish. Apply at 10m	PLANT ROOM walls to be GREY in colour
	14	PLASTER AND PAINT (PVA)						◎	◎	◎	◎			14	PLASTER AND PAINT: 1 Coat plaster and 1 coat acrylic PVA suitable for washing with a mild detergent and with a mat finish. Apply at 10m	
	15	GLOSSY CERAMIC WALL TILES 1500MM HIGH FROM FL/ LEVEL												15	GLOSSY CERAMIC TILES: 200mm x 200mm, with aluminum coping, 1500mm in height from floor level	
	16	PLASTER AND PAINT ABOVE 1500MM GLOSSY CERAMIC TILES												16	PLASTER AND PAINT: 1 Coat plaster and 1 coat acrylic PVA suitable for washing with a mild detergent and with a mat finish. Apply at 10m	
	17	BLOCKOUT ROLLER BLINDS		◎	◎	◎	◎							17		
	18	HORIZONTAL BLINDS	◎											18		
	19	SPLASH BACK TILES		◎	◎	◎	◎							19	SPLASHBACK TILING: Above sink, vanities and applicable counter tops.	
	20	SELIGNA WORKTOP		◎	◎	◎	◎							20		
CILLS	21	BOE CILL	◎	◎	◎	◎	◎	◎		◎				21	BRICK ON EDGE WINDOW CILL:(internal) built in soldier course flush with dado wall. All joints to be flush half round pointed joints. BRICKS ON THE ENDS TO BE SOLID AND NOT HOLLOW	LINTELS to be mild steel double angle line welded to center of brickwork 6-10mm thickness, subject to span.
CEILINGS	22	ACOUSTIC SUSPENDED CEILING	◎	◎	◎	◎	◎							22	15mm thick ACOUSTIC SUSPENDED ceiling on 1200mm x 600mm grid (ONLY USED IN SCHOOL HALL AND CLASSROOMS)	
	23	GYPSUM SUSPENDED CEILING						◎	◎	◎	◎			23	Gypsum suspended ceiling panels with vinyl coating/ sheeting (NOT TO BE USED IN WET AREAS).	
	24	FIBER CEMENT SUSPENDED CEILING												24	Fibre Cement suspended ceiling: ON 1200mm X 600mm GRID. (ACOUSTIC SUSPENDED BOARDS TO BE USED IN CLASSROOMS AND SCHOOL HALL 15mm thick)	
	25	FIBER CEMENT CEILING BOARDS											◎	25	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards	
	26	CEILING INSULATION	◎	◎	◎	◎	◎	◎	◎	◎	◎		◎	26	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid according to manufacturers specification. With combination of 25mm sisalation membrane	
FITTINGS	36	FIRE EXTINGUISHER								◎	◎				4.5kg DCP: dry powder chemical fire extinguisher with hook made of 120x20x2mm mild steel strip bent to form hook for extinguisher screwed	twice to 520x100x22 hardwood. Hardwood screwed and plugged with 6 screws and plugs. Positioned as shown on Site. Provide 190x190mm ABS plastic symbol safety signs - type FB2. Plugged and screwed to wall at all fire extinguishers.
	37	MEDICINE CABINET													MEDICINE CABINET: Standard white built in type. Complete with mirrors on doors shelves etc. All as approved. Size 380x610mm	
	38	SAFE													WALL SAFE: Aprox. size 280 x 310 x 230mm deep, bolted to wall with expansion bolts to inside of safe, with integrated security lock.	
	39	PINNING BOARD	◎	◎	◎	◎	◎								CARPET PINNING BOARDS: Aluminium Frame, Pen tray and fixing components Included with round plastic corners	according to manufacturers instructions. Overall size 1200 high x 2400mm Wide consisting of 1 Pinning Board
	40	MAGNETIC WHITE BOARD	◎	◎	◎	◎	◎								2x(2400x1200mm) MAGNETIC WHITE BOARD: Markerboard surface, wall mounted, complete with intergrated pen tray.	
	41	ROOF SHEETING													CHROMADEK ROOF SHEETING: 0.8mm thick and 1225mm wide with KLIP- Tite or Klip Lok clamping or similar	Acceptable colours: Gemsbok Sand, Kalahari Red, Aloe Green and Azure Blue.

DRAWING No. S100 NC-L-103 TYPE 003 REV

REVISIONS: DATE

001 -update as per comments -23-06-2020
002 -update title -11-09-2022
-issue for tender
003 -issued for tender -10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION
NEW BLOCKS
LABS, LIBRARY AND MULTI PURPOSE
FINISHES SCHEDULE

SCALE DATE DRAWN
AS_SHOWN 2020-03-01 TT

CONTRACTOR

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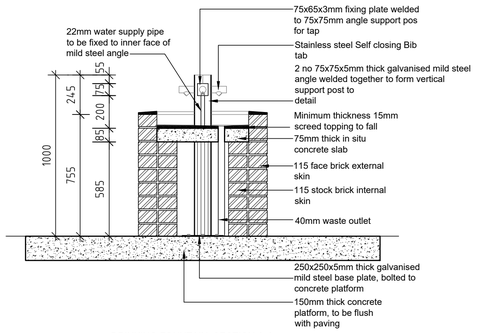
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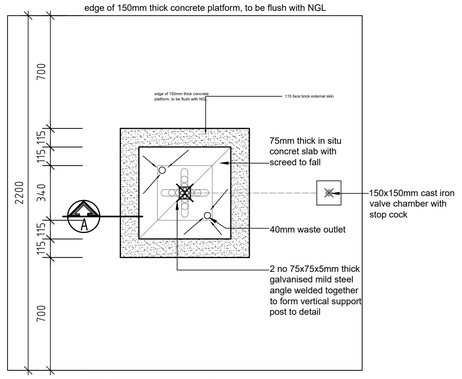
DRAWING No. S100 NC-L-103 - 003 REV

FOR-TENDER

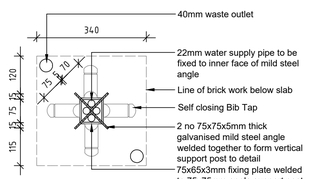
COMP REF: REFERENCE



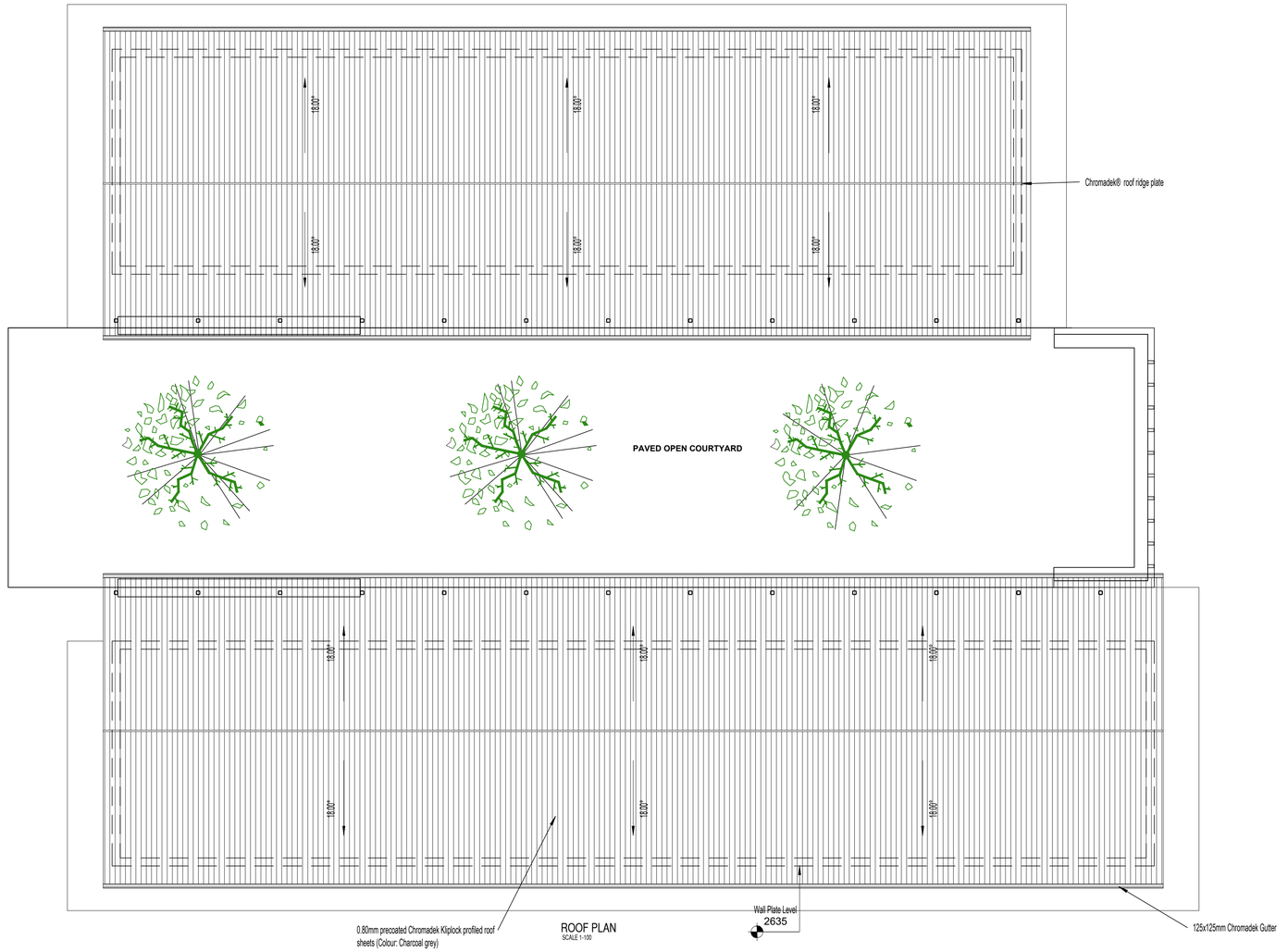
DRINKING FOUNTAIN: SECTION A-A
SCALE 1 : 20



DRINKING FOUNTAIN: PLAN
SCALE 1 : 20



DRINKING FOUNTAIN: DETAIL
SCALE 1 : 10



ROOF PLAN
SCALE 1:100

DRAWING No. S100 NC-L-104 TYPE — REV 004

REVISIONS: — DATE

001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update title -issue for tender	-11-09-2022
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

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GENERAL-NOTES

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- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL.
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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CLIENT · PROJECT

IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION
NEW BLOCKS
LABS, LIBRARY AND MULTI PURPOSE
ROOF PLAN & DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

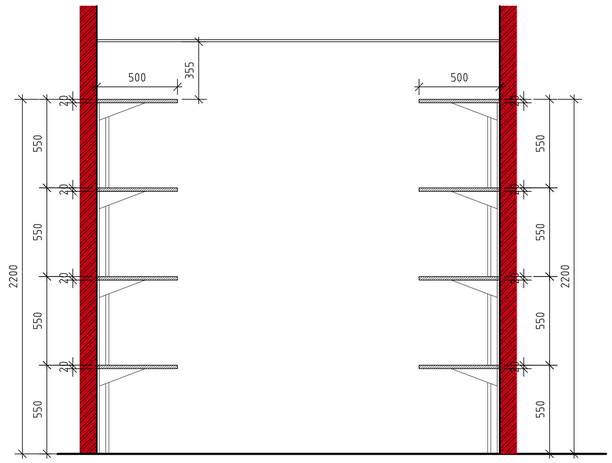
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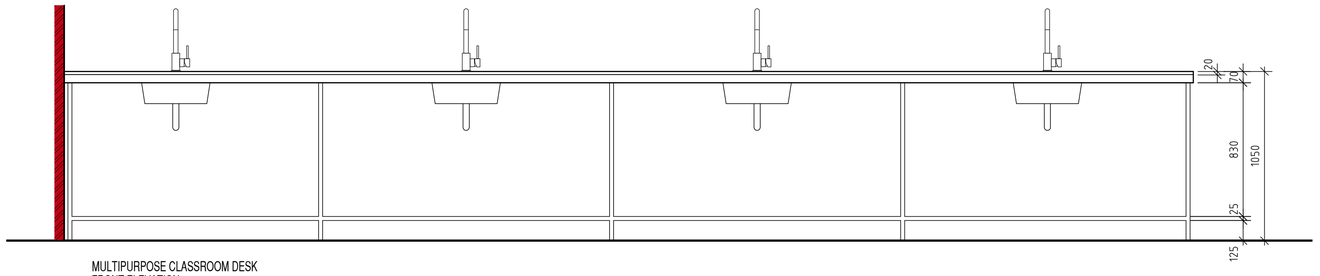
DRAWING No. S100 NC-L-104 - — REV 004

FOR-TENDER

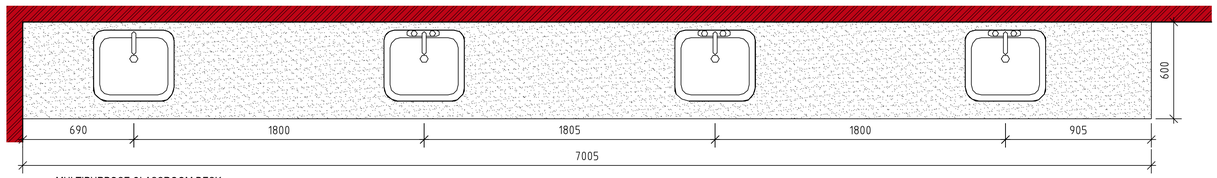
COMP REF: REFERENCE



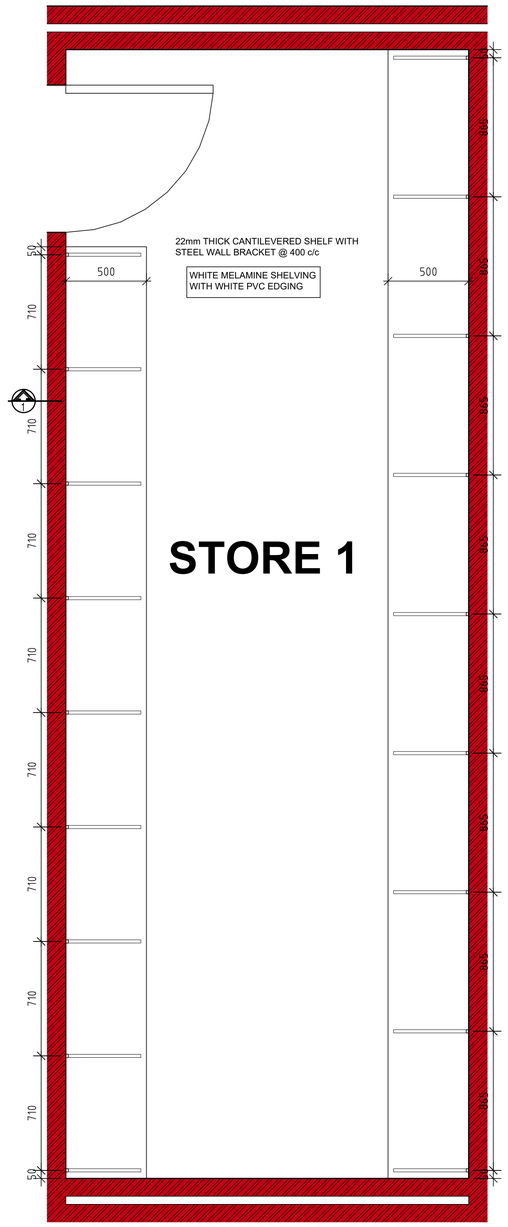
STORE-1
SECTION 1-1
SCALE 1 : 20

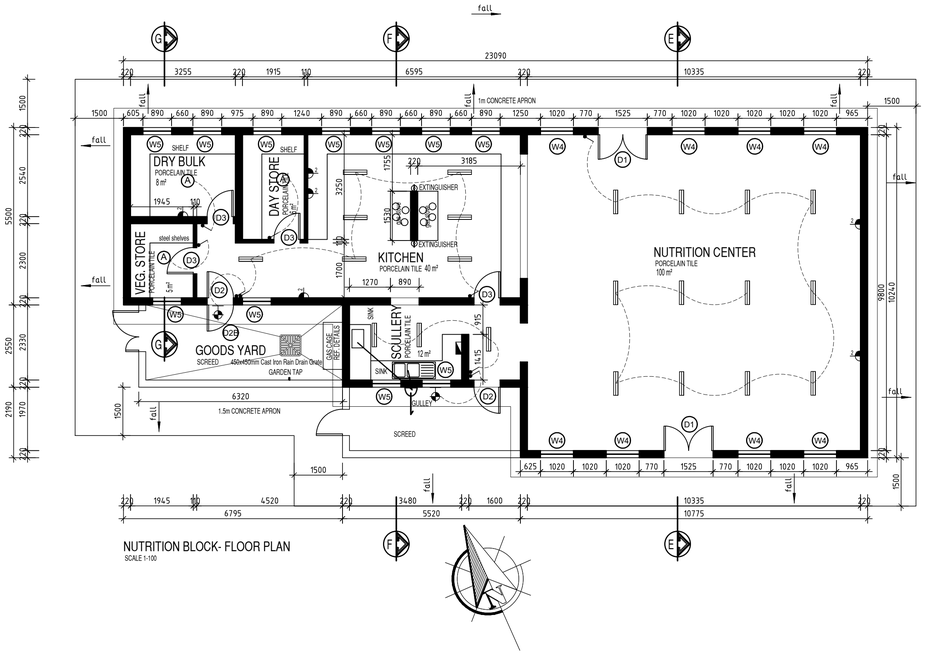


MULTIPURPOSE CLASSROOM DESK
FRONT ELEVATION
SCALE 1 : 20

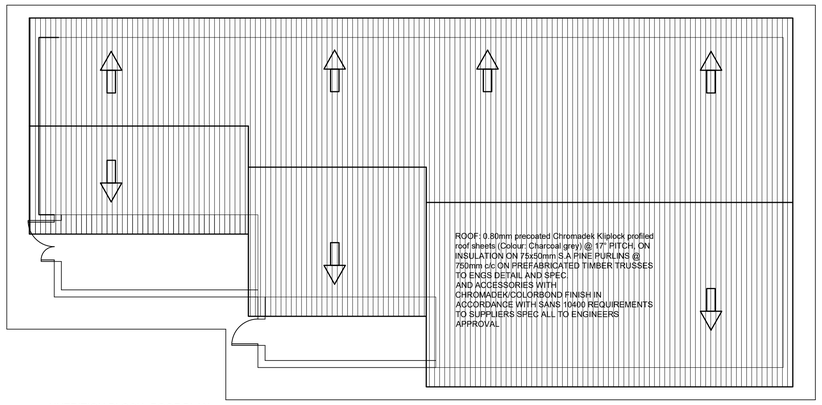


MULTIPURPOSE CLASSROOM DESK
SECTION A-A
SCALE 1 : 20

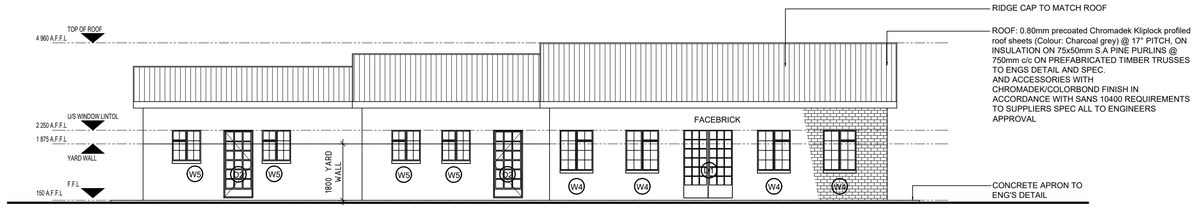

22mm THICK CANTILEVERED SHELF WITH
STEEL WALL BRACKET @ 400 c/c
WHITE MELAMINE SHELVING
WITH WHITE PVC EDGING
500
500
50
710
710
710



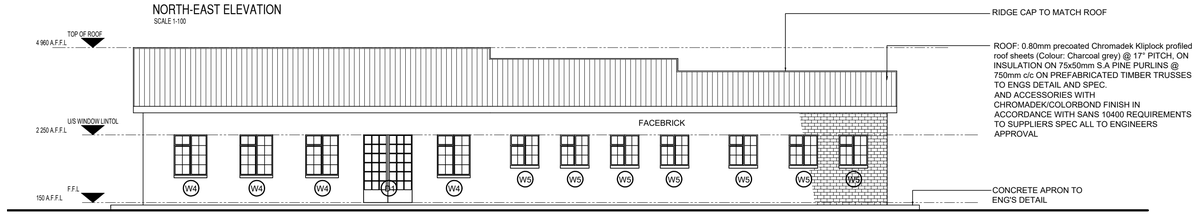
NUTRITION BLOCK- FLOOR PLAN
SCALE 1-100



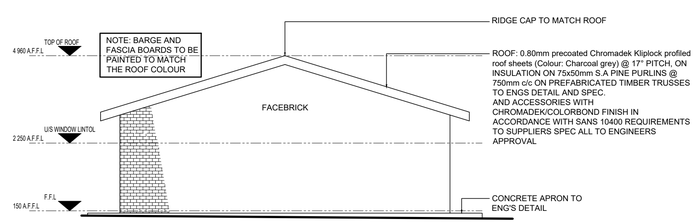
NUTRITION BLOCK- ROOF PLAN
SCALE 1-100



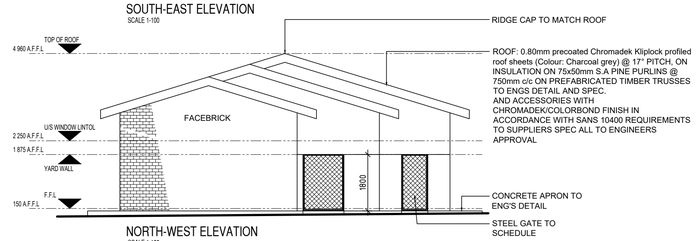
NORTH-EAST ELEVATION
SCALE 1-100



SOUTH-WEST ELEVATION
SCALE 1-100



SOUTH-EAST ELEVATION
SCALE 1-100



NORTH-WEST ELEVATION
SCALE 1-100

ELECTRICAL LEGEND

	CEILING LIGHT POINT
	LIGHT SWITCH
	WALL LIGHT
	FLOURESCENT LIGHT
	DB BOARD
	SINGLE PLUG
	DOUBLE PLUG
	OUT DOOR PLUG
	TV POINT
A	ENERGY SAVING DOWN LIGHTER
G	GEYSER POSITION

DRAWING No. S100 N-L-100 TYPE 007 REV

REVISIONS:		DATE
001	-UPDATE APRON SIZE	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update elevations ground slope	-24-06-2020
005	-update title -issue for tender	-11-09-2022
006	-update window number	-22-06-2023
007	-issued for tender	-10-07-2023

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CLIENT · PROJECT

IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW NUTRITION BLOCK PLANS AND ELEVATIONS

-

SCALE · DATE · DRAWN

AS_SHOWN 2019-09-01 TT

CONTRACTOR

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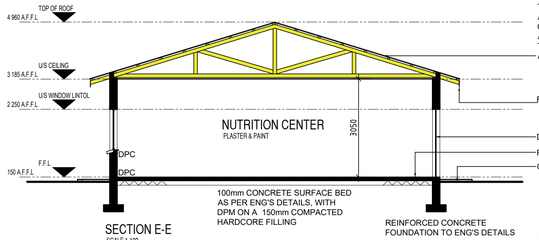
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DRAWING No. S100 N-L-100 - REV 007

FOR-TENDER

COMP REF: REFERENCE



SECTION E-E
SCALE 1-100

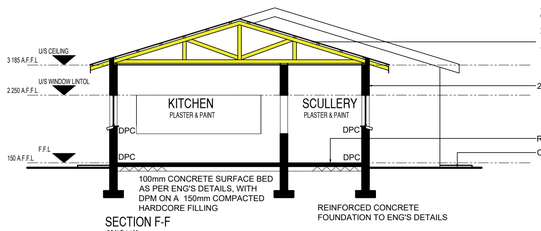
ROOF: 0.80mm precoated Chromadek Kliplock profiled roof sheets (Colour: Charcoal grey) @ 17° PITCH, ON INSULATION ON 75x50mm S.A PINE PURLINS @ 750mm c/c ON PREFABRICATED TIMBER TRUSSES TO ENGS DETAIL AND SPEC.
AND ACCESSORIES WITH CHROMADEK/COLORBOND FINISH IN ACCORDANCE WITH SANS 10400 REQUIREMENTS TO SUPPLIERS SPEC ALL TO ENGINEERS APPROVAL

FACIA BOARD

DOOR TO SCHEDULE

REINFORCED CONCRETE SLAB TO ENG'S DETAILS

CONCRETE APRON TO ENG'S DETAILS



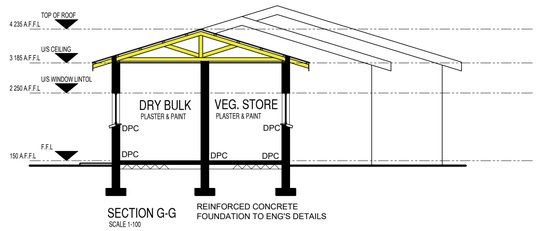
SECTION F-F
SCALE 1-100

ROOF: 0.80mm precoated Chromadek Kliplock profiled roof sheets (Colour: Charcoal grey) @ 17° PITCH, ON INSULATION ON 75x50mm S.A PINE PURLINS @ 750mm c/c ON PREFABRICATED TIMBER TRUSSES TO ENGS DETAIL AND SPEC.
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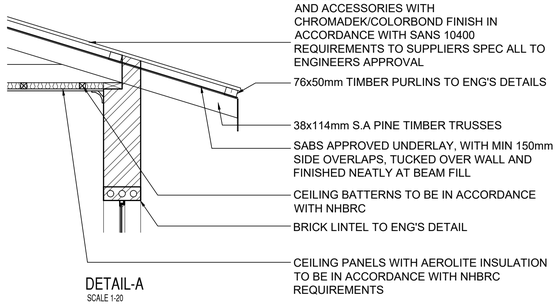
220mm BRICKWORK

REINFORCED CONCRETE SLAB TO ENG'S DETAILS

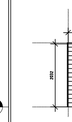
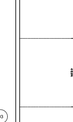
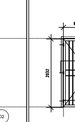
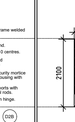
CONCRETE APRON TO ENG'S DETAILS



SECTION G-G
SCALE 1-100



DETAIL-A
SCALE 1-20

F.FLOOR LEVEL	 2125 u/s lintel; 0.000 ffl; 03	 02	 50x50x3mm angle iron frame welded to lug and built in; 60x40x2mm fabd steel square tube gate surround; 10mm Ø steel rods at 110 centres; 2x 40x20mm steel flat bar horizontal supports with 10mm Ø steel rod through; Upright double throw security mortice deadlock in steel plate housing with extended cover plate; 40x5mm horizontal supports with 10mm Ø steel rod through; 25mmØ x60mm Long pin hinge; NB: all DUCTS, steel gates to be fixed/welded/ with 6mm expanded steel mesh to the inside of the gate.; 02B	 1505; 2160; 01
DOOR LOCATION	KITCHEN & STORES	AS SHOWN ON PLANS	AS SHOWN ON PLANS	AS SHOWN ON PLANS
DOOR NUMBER	D3	D2	D2B	D1
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x40x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO GDE DETAIL D730 FRAME TO ALLOW FOR 90° SWING	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.
FRAME SETTING OUT	CENTER OF WALL	CENTER OF WALL	OUTSIDE OF WALL	CENTER OF WALL
DOOR FRAME FINISH	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECT'S SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)
ARCHITRAVE	NONE	NONE	NONE	NONE
DOOR LEAF	STANDARD 2032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STEEL WITH GLASS PANELS AS PER DRAWING	TO GDE DETAIL D730	STEEL WITH GLASS PANELS AS PER DRAWING
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)
GLAZING	NONE	YES	NONE	YES
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES 140x4f pair LOCK + CYLINDER DOOR HANDLES - HANDLE & 200x300mm PUSH PLATE DOOR CLOSER- 0-C delay 65mm ACCESSORIES: 150x150mm signage.	AS PER MANUFACTURERS SPEC. 4 LEVER SECURITY LOCKSET AND SATIN-CHROMED HANDLES ALL APPROVED	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.	AS PER MANUFACTURERS SPEC. 4 LEVER SECURITY LOCKSET AND SATIN-CHROMED HANDLES ALL APPROVED
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	NONE	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.
QUANTITY	04	02	01	02
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	

WINDOW SCHEDULE

	 1020; 1250	 890; 950
TYPE	.	.
POSITION	NUTRITION BLOCK	NUTRITION BLOCK
NUMBER	W04	W05
FRAME	MILD STEEL FRAME WINDOW	MILD STEEL FRAME WINDOW
GLASS	4mm CLEAR FLOAT GLASS WITH PUTTY	4mm CLEAR FLOAT GLASS WITH PUTTY
FITTINGS	STANDARD BRASS FITTING	STANDARD BRASS FITTING
BURGLAR BARS	FACTORY FITTED	FACTORY FITTED
FINISH	1 COAT PRIMER 1 COAT APPROVED ENAMEL PAINT TO MATCH THE ROOF	1 COAT PRIMER 1 COAT APPROVED ENAMEL PAINT TO MATCH THE ROOF

ELECTRICAL LEGEND

	CEILING LIGHT POINT
	LIGHT SWITCH
	WALL LIGHT
	FLOURESCENT LIGHT
	DB BOARD
	SINGLE PLUG
2	DOUBLE PLUG
20	OUT DOOR PLUG
	TV POINT
A	ENERGY SAVING DOWN LIGHTER
G	GEYSER POSITION

NUTRITION BLOCK

			NUTRITION CENTER	KITCHEN	SCULLERY	VEG. STORE	DRY BULK	DAY STORE			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎	◎	◎	◎	2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filing. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES	◎	◎	◎	◎	◎	◎	3.1	600x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	TILE SKIRTING							3.2	100x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	3.3	MERANTI SKIRTING BOARD	◎	◎	◎	◎	◎	◎	3.3	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	4	COMPACTED FILL	◎	◎	◎	◎	◎	◎	4	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	5	GRANOLITE							5	SMOOTH GRANOLITE on screed free of dents and bumps. with clear seal	
	6	MOSAIC (SHOWER)	◎	◎		◎			6	Alaska Resin Mosaic - 300 x 300mm	
	4.1	PUR VINYL SHEETING	◎	◎	◎	◎	◎	◎	7	2mm PUR VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	
WALLS	7	PLASTER AND PAINT	◎	◎	◎	◎	◎	◎	8	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two final (washable)	color to architects approval
	8	GRANITE WORKTOP		◎					9	22mm thick RUSTENBURG STONE, to be used in wet areas only.	
	9	WINDOW FINISH							10	Frosted glass on windows	
	10	WALL TILES (white)		◎	◎				11	200x200mm WHITE JOHNSON TILE IN GLOSS FINISH	
	11	WALL TILES (black)							12	200x200mm BLACK JOHNSON TILE IN GLOSS FINISH	
CEILINGS	12	CEILING INSULATION	◎	◎	◎	◎	◎	◎	13	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	13	FIBRE CEMENT CEILING BOARDS	◎	◎	◎	◎	◎	◎	14	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards painted in white acrylic paint	to architects approval
	14	CORNICE	◎	◎	◎	◎	◎	◎	15	ACRYLIC COVE CORNICE 55 x 55mm	

DRAWING No. S100 N-L-101 TYPE — REV 006

REVISIONS: — DATE

001	-OMIT GUTTERS	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update title -issue for tender	-11-09-2022
005	-update door schedule -add finishes schedule	-22-06-2023
006	-issued for tender	-10-07-2023

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CLIENT · PROJECT

IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW NUTRITION BLOCK
SECTIONS, DOOR AND WINDOW SCHEDULE

SCALE · DATE · DRAWN

AS_SHOWN 2019-09-01 TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

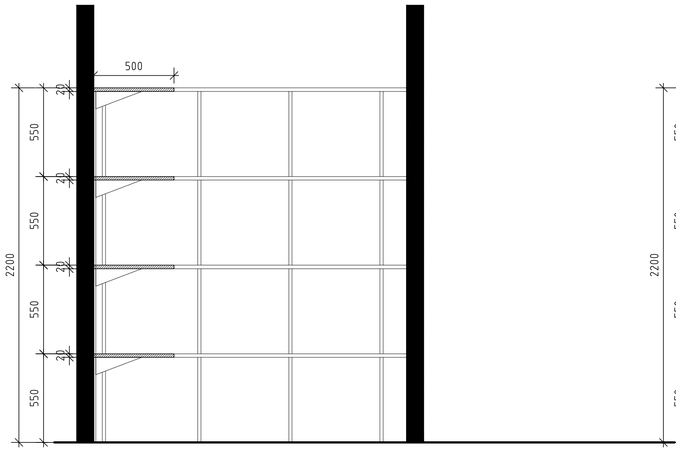
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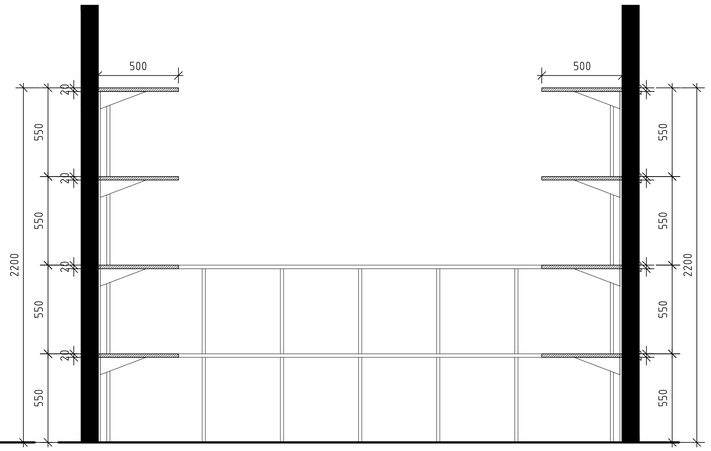
DRAWING No. S100 N-L-101 - REV 006

FOR-TENDER

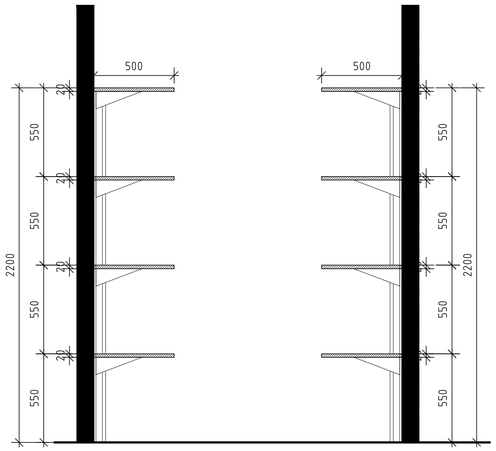
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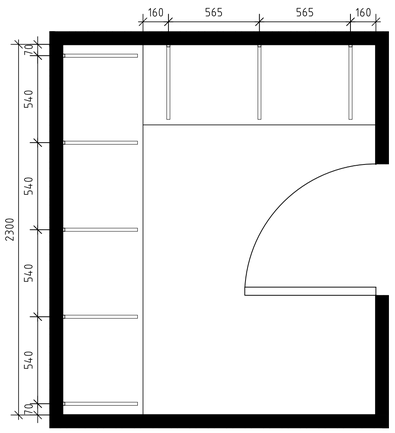
VEG. STORE
SECTION 1-1
SCALE 1 : 20



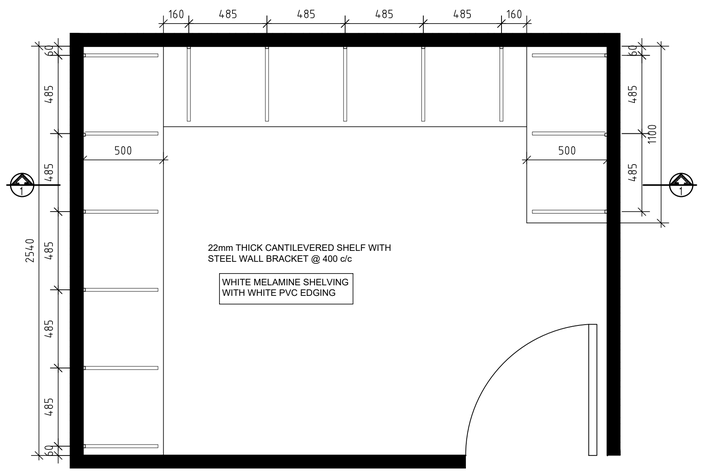
DRY BULK STORE
SECTION 1-1
SCALE 1 : 20



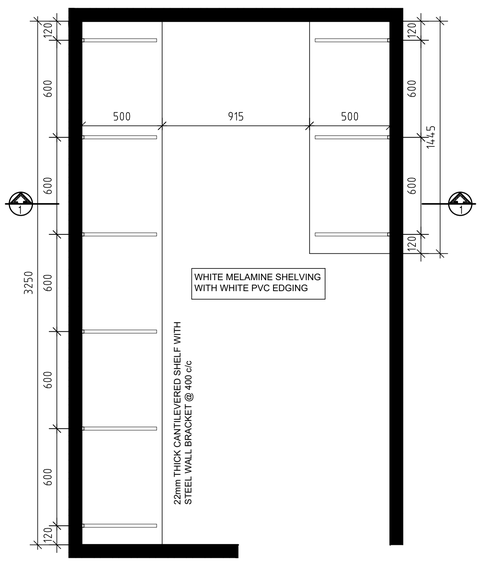
DAY STORE
SECTION 1-1
SCALE 1 : 20



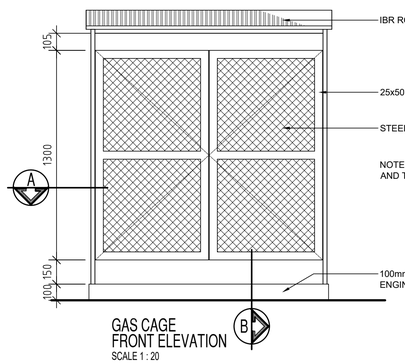
VEG. STORE
PLAN
SCALE 1 : 20



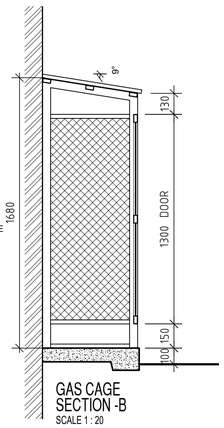
DRY BULK STORE
PLAN
SCALE 1 : 20



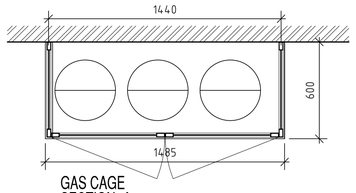
DAY STORE
PLAN
SCALE 1 : 20



GAS CAGE
FRONT ELEVATION
SCALE 1 : 20



GAS CAGE
SECTION -B
SCALE 1 : 20



GAS CAGE
SECTION -A
SCALE 1 : 20

DRAWING No. S100 N-L-102 TYPE

REV 004

REVISIONS: DATE

001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-update shelving	-22-06-2023
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW NUTRITION BLOCK SHELVING & GAS CAGE DETAILS

SCALE · DATE · DRAWN

AS_SHOWN 2019-09-01 TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

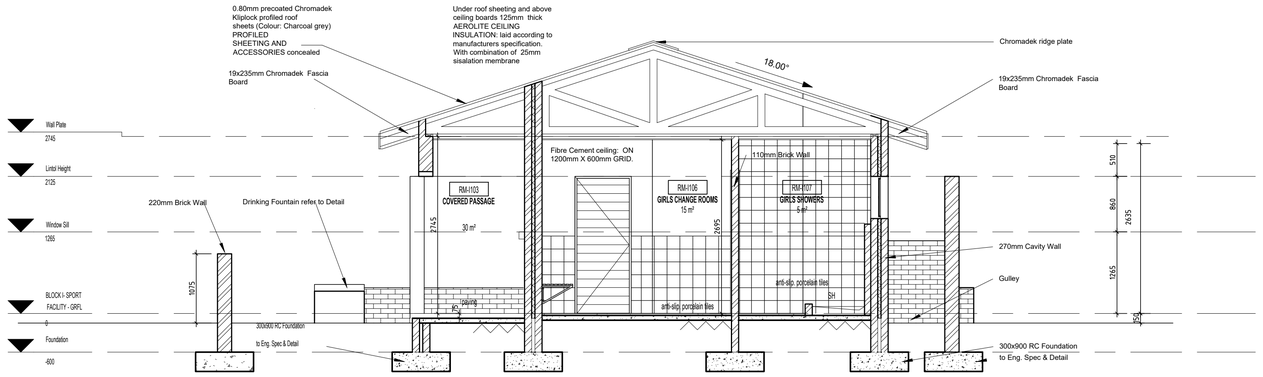
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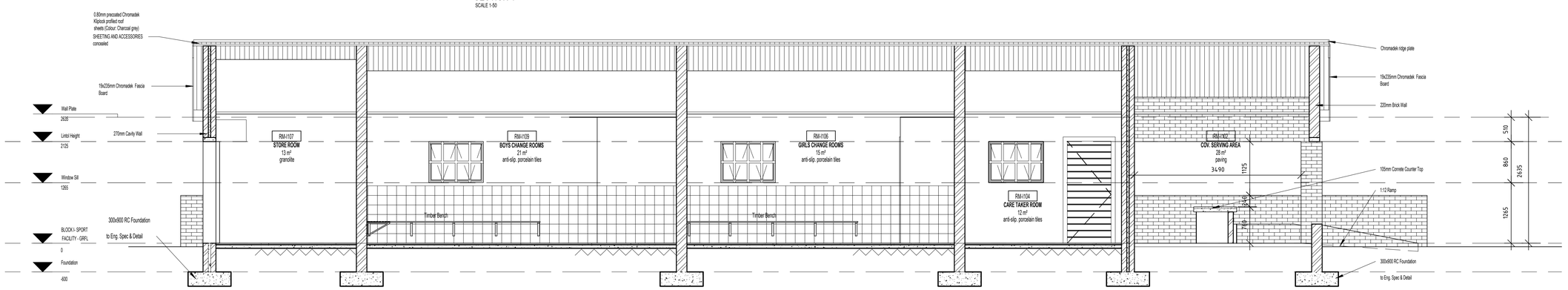
DRAWING No. S100 N-L-102 - REV 004

FOR-TENDER

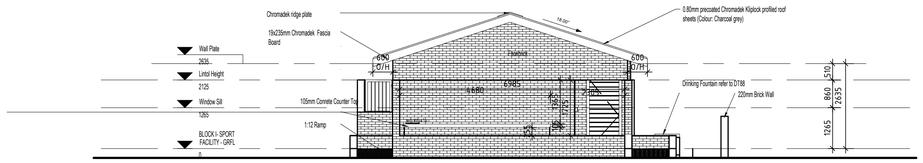
COMP REF: REFERENCE



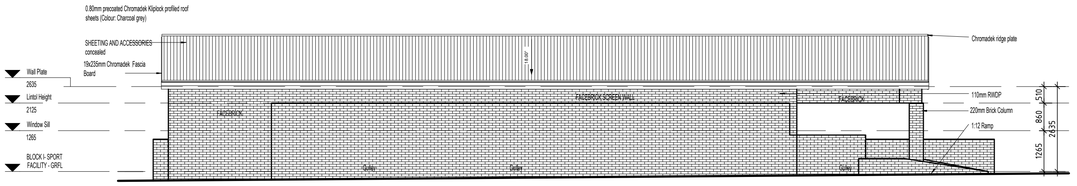
SECTION-1
SCALE 1-50



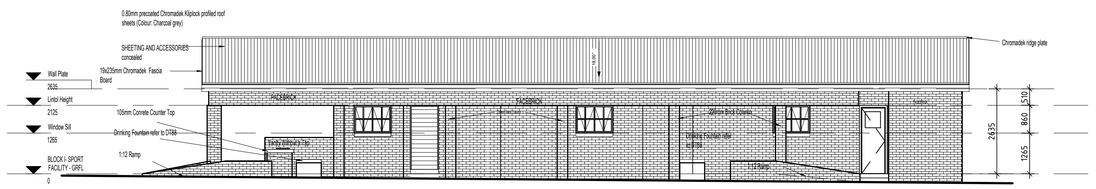
SECTION-2
SCALE 1-50



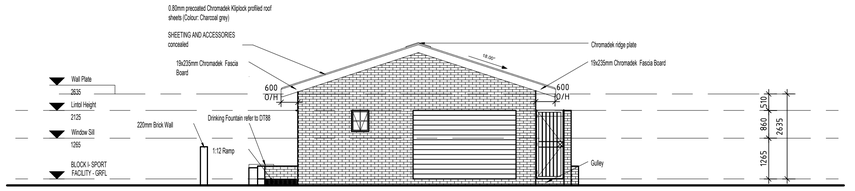
SOUTH ELEVATION
SCALE 1-100



WEST ELEVATION
SCALE 1-100



EAST ELEVATION
SCALE 1-100



NORTH ELEVATION
SCALE 1-100

FLOOR FINISH NOTE:
Refer to finishing schedules for floor finish specifications

FACEBRICK NOTES:
Corobrik® (or similar approved) 40-50MPa clay face brick, size 222 x106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-3.
Tie spacing to be 600mm vertical, 660 mm horizontal, staggered. Tie spacing around openings and construction joints: <300 mm vertical. All wall ties specifications to comply with SANS 10164.
All masonry/brick joints to be raked and flushed off. Wall construction to comply with Part K of SANS 10400.
Provision of airbricks or louvres in gable walls for ceiling void cross ventilation.

INSULATION:
In ceiling void: under roof sheeting 25mm thick membrane and above ceiling boards min 120mm thick aerolite insulation (all in compliance with Category of Occupancy A3 for Climate Zone1).

Insulation on External Walls: 50mm cavity on external walls up to the lintel height level with polystyrene panels (EPS - 600 x 1200 x 50mm panels) in between wall ties.

All smart classrooms (including Library, Multi-purpose Centre, Laboratories & Home Economics) and ICT support rooms to be protected in ceiling voids (between purlins & trusses) with mild steel mesh (32 x 32 openings, 08mm thick).

ROOF SHEETS:
Chromadek® klip tite roof sheeting coated outside and galvinized inside 0.58mm min.thickness on 38x38mm battens @ 800mm centre max on 114x38mm truss @950mm centre max.
Sheets shall 1225mm width to full extent of the roof from the ridge plate down to the edge of overhang. No joints between sheets are allowed in the middle of the roof pitch.

TRUSSES:
timber patent & approved pre-fabricated system at 950mm c/c max. purlins 50 x 76mm sa pine at 800mm c/c max. Wall plate 114 x 38mm SA pine to be creosote treated before fixing
Certificate & Guarantee for design & erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position. truss to be secured to walls at wallplate with 2,5mm galv. steel wire ties, built into walls min 6 brick courses.

FASCIA BOARD NOTES
Everite (or similar approved) medium density timber grain Nutec fascia boards, size 225 x 9mm thick, fixed to 38 x 38mm tilter batten and 38 x38mm support battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.

SEWERS AND GRAVITY DRAINAGE SYSTEMS (SANS 1936-3)
All manholes shall be watertight and shall be tested for water tightness (zero leakage) during construction.
Sewers and gravity drainage systems, inclusive of pipes, sleeves or conduits shall be subjected to hydraulic pipeline testing, after installation, in accordance with SANS 2001-DP2 for the selected pipe type, irrespective of application.
Connections from multiple adjoining toilets or washbasins shall be made above ground and shall feed into a single downpipe draining into the subsurface system.
Toilet pans shall be provided with an external flexible connection at the junction point to the subsurface sewer system.
The type, size and pressure rating of the pipe to be used shall be specified by the competent person (geo-professional or engineer). The preferred pipe types and other requirements for subsurface sewers and gravity drainage systems are given in table 5 of SANS 1936-3.\

STORMWATER DRAINAGE (FROM DOWNPIPES)
All stormwater from downpipes and gutters from buildings and structures shall discharge onto concrete-lined channels which, in turn, shall discharge the water at least 1,5 m away from structures onto areas permitting surface drainage away from buildings and structures.
Joints between any open channel drains and buildings shall be suitably sealed.

Small diameter stormwater drainage pipes shall not be placed parallel to buildings unless they are at least 5 m (if stand size allows) from the structure.

If this is not practical, a rational design shall be performed by a competent person (engineer).

Note: The Site is dolomite therefore gravel is to be laid on top of a concrete surface bed with drainage

1500mm concrete apron to be provided arounf the peremeter of the building

DRAWING No. S100 S-L-101 TYPE — REV 005

REVISIONS: — DATE

001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update elevations ground slope	-24-06-2020
004	-update title -issue for tender	-11-09-2022
005	-issued for tender	-10-07-2023

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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK SECTIONS AND ELEVATIONS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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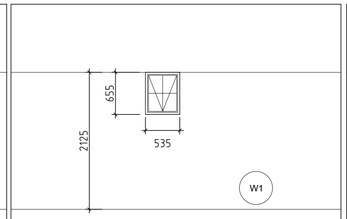
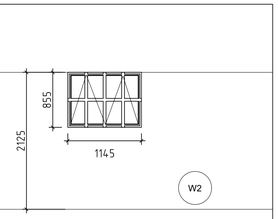
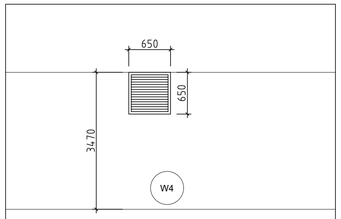
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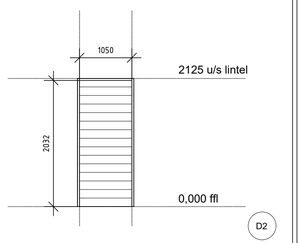
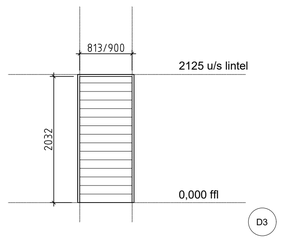
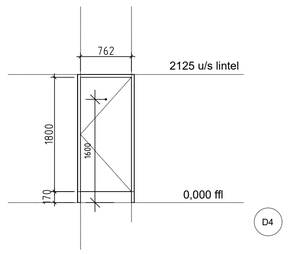
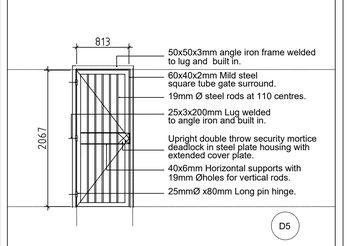
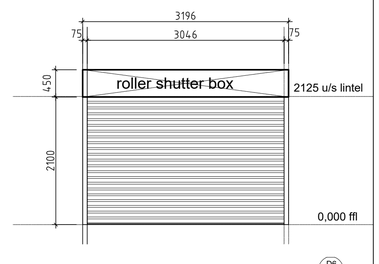
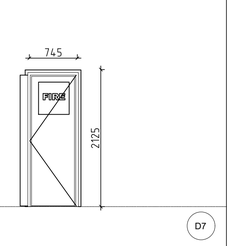
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DRAWING No. S100 S-L-101 - REV 005

FOR-TENDER

COMP REF: REFERENCE

U/S OF LINTEL 2125 F.FLOOR LEVEL			
WINDOW LOCATION	BOYS CHANGE ROOMS, GIRLS CHANGE ROOMS, DISABLED TOILET	CARETAKER ROOM, BOYS CHANGE ROOMS, GIRLS CHANGE ROOMS, DISABLED TOILET	NORTH GABLE
WINDOW NUMBER	W1	W2	W4
WINDOW FRAME	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	648x648 COTTAGE SECTION STANDARD. STEEL WINDOW FRAME
WINDOW FRAME FINISH	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS
GLAZING	4mm OBSCURE GLAZING	4mm CLEAR GLAZING	STEEL FIXED LOUVRES
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURER'S SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURER'S SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:	NOT APPLICABLE INSECT MESH GUARD
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.
QUANTITY	13	04	01
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE

F.FLOOR LEVEL				 NB: all DUCTS, steel gates to be fixed(welded) with 6mm expanded steel mesh to the inside of the gate.		 NB: all DUCTS, steel gates to be fixed(welded) with 6mm expanded steel mesh to the inside of the gate.
DOOR LOCATION	DISABLE TOILET & SHOWER	CARETAKER ROOM, BOYS CHANGE ROOMS, GIRLS CHANGE ROOMS, (DISABLED TOILET & SHOWER TO BE 900mm WIDE)	BOYS CHANGE ROOMS WC & SHOWERS, GIRLS CHANGE ROOMS WC & SHOWERS	AS SHOWN ON PLANS	AS SHOWN ON PLANS	AS SHOWN ON PLANS
DOOR NUMBER	D2	D3	D4	D5	D6	D7
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 110mm INTERNAL WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x50x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO GDE DETAIL DT30 FRAME TO ALLOW FOR 90° SWING	TO MANUFACTURER DETAIL	STEEL FRAME FOR 110MM INTERNAL WALL
FRAME SETTING OUT	CENTER OF WALL	CENTER OF WALL	CENTER OF WALL	OUTSIDE OF WALL	TO MANUFACTURER DETAIL	OUTSIDE OF WALL
DOOR FRAME FINISH	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT- TO ARCHITECT'S SPECIFICATIONS	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT- TO ARCHITECT'S SPECIFICATIONS	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT- TO ARCHITECT'S SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	TO MANUFACTURER DETAIL	1 X COAT PRIMER & 1 X COAT APPROVED ENAMEL PAINT
ARCHITRAVE	NONE	NONE	NONE	NONE	NONE	NONE
DOOR LEAF	STANDARD 2032 HIGH x 1050mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STANDARD 2032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STANDARD 762mm x 2032mm x 40mm SOLID FLUSH PANEL DOOR WITH HARDBOARD BOTH SIDES	TO GDE DETAIL DT30	ROLL-UP GARAGE-TYPE DOOR GALVANISED MILD STEEL CRANK-OPERATED 75 x 0.6mm THICK SLATTED CURTAIN ROLLER SHUTTER FOR OPENING 3046 x 2125mm HIGH WITH STANDARD BOTTOM RAIL WITH OVERHEAD BOX, WITH 75MM WIDE GUIDES, WITH EXTRUDED ALUMINIUM T-BAR WITH RUBBER SEAL. POWDER COATED ANCILLARY COMPONENTS INCLUDING 4.5MM THICK END PLATES, GUIDE RAILS, ETC, AND WITH CENTRE LOCK, FIXED TO BRICKWORK AND CONCRETE TO ENGINEER'S DETAIL	STEEL WITH HARDBOARD BOTH SIDES & GEORGIAN GLASS WITH SIGNAGE Fire Hose Reels (FHR) closets to have a solid door with 600mm wide x 350mm high viewing clear safety glass panel with uppercased word in basic color signal red "FIRE" (Code A11) painted in the glass.
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER AND ONE COAT APPROVED PVA PAINT	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	1 x COAT PRIMER & 1 x COAT APPROVED PVA PAINT	1 X COAT PRIMER & 1 X COAT APPROVED PVA PAINT — These doors to be painted signal red with paint code A11 as well defined in the fire consultant technical documentation and in compliance with SANS 1091.
GLAZING	NONE	NONE	NONE	NONE	NONE	NONE
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES 1&half pair LOCK + CYLINDER- DMWC-SS-008 HANDLE- DWC-006, PULL HANDLE SKU 1212348, 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- 150x150mm signage,	BALL BEARING HINGES 1&half pair LOCK + CYLINDER- HANDLE- 150mm PULL HANDLE & 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- 150x150mm signage,	BALL BEARING HINGES 1&half pair BATHROOM INDICATOR THUMB LOCK + CYLINDER- ACCESSORIES- Chrome Plated Single Coat Hook	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.	AS PER MANUFACTURES SPEC.	AS PER MANUFACTURES SPEC.
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	NONE	NONE	NONE
QUANTITY	02	03	05	02	01	01
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE

500mm

DOOR LATCHES:
Door retaining latches to be built in the floor of all classroom doors.
DOOR NAME TAGS:
Provide 3mm thick x 32mm high clear perspex name tags with white paint and countersunk holed and tap screwed to door frame.
DOOR NUMBER TAGS:
Provide perspex tags as above but with door numbers as per site plan drawings. note that tags for security gates are to be 60mm wide max with lettering to suit and screwed to gate surround.
DOOR GLAZING:
To comply to SABS 0400 Part N

DRAWING No. S100 S-L-102 TYPE — REV 005

REVISIONS:		DATE
001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-UPDATE IRONMONGERY	-23-12-2022
004	-UPDATE SCHEDULE	-23-12-2022
005	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK DOOR & WINDOW SCHEDULE

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

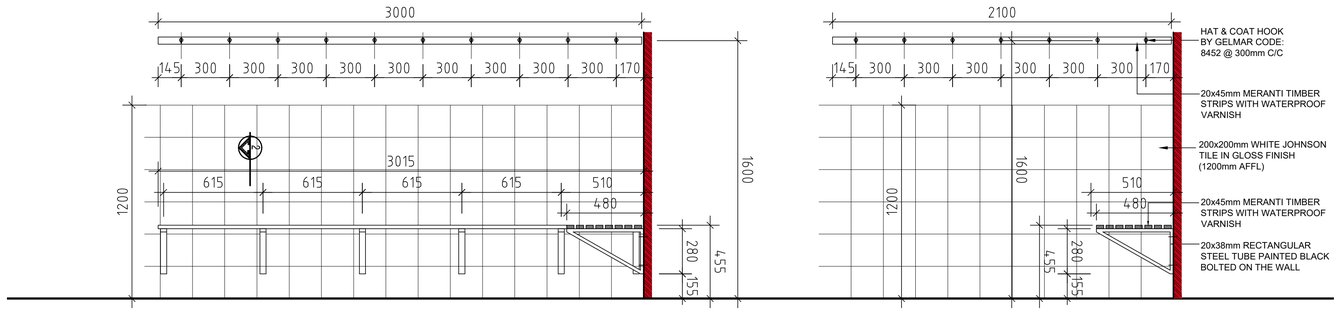
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DRAWING No. S100 S-L-102 - REV 005

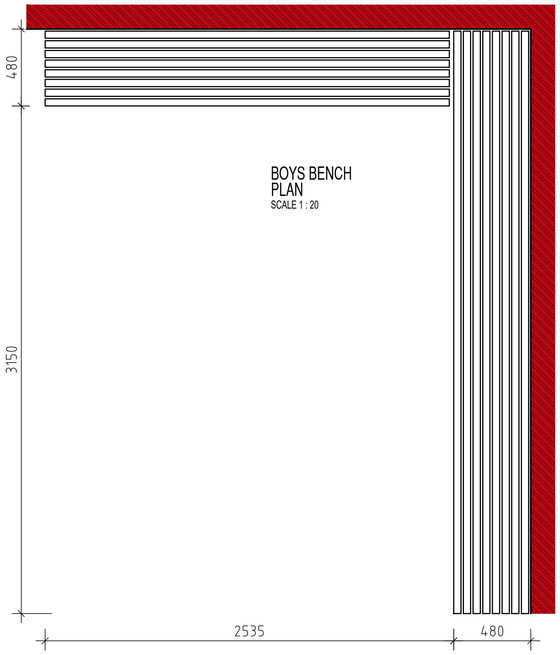
FOR-TENDER

COMP REF: REFERENCE



BOYS BENCH
FRONT ELEVATION
SCALE 1 : 20

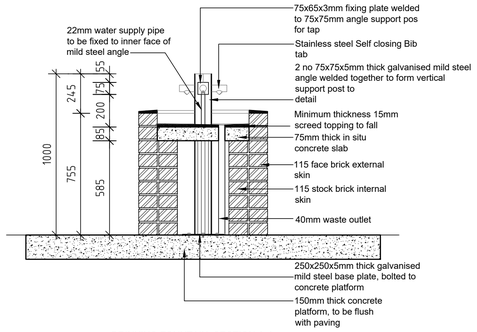
GIRLS BENCH
FRONT ELEVATION
SCALE 1 : 20



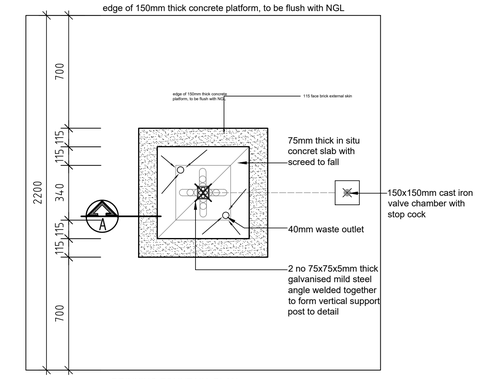
BOYS BENCH
PLAN
SCALE 1 : 20



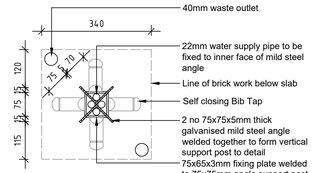
GIRLS BENCH
PLAN
SCALE 1 : 20



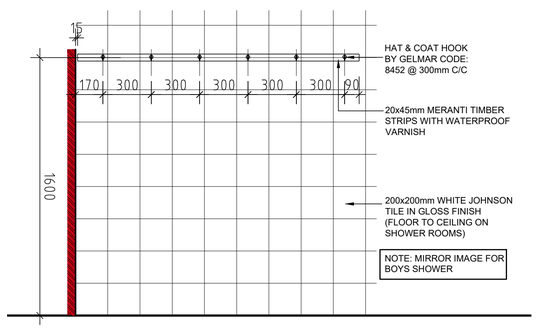
DRINKING FOUNTAIN: SECTION A-A
SCALE 1 : 20



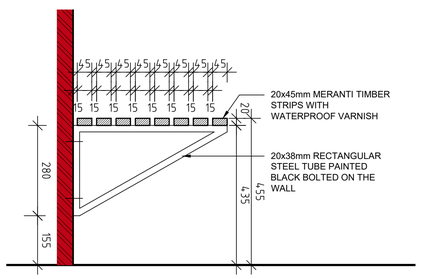
DRINKING FOUNTAIN: PLAN
SCALE 1 : 20



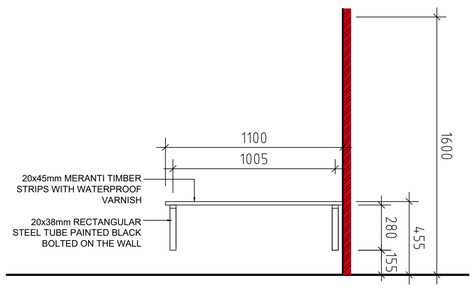
DRINKING FOUNTAIN: DETAIL
SCALE 1 : 10



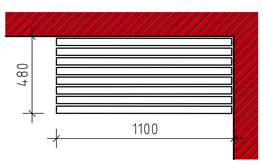
GIRLS SHOWER ROOM
FRONT ELEVATION
SCALE 1 : 20



BENCH TYPICAL
SECTION 2-2
SCALE 1 : 10



DISABLED BENCH
FRONT ELEVATION
SCALE 1 : 20



DISABLED BENCH
FRONT ELEVATION
SCALE 1 : 20

DRAWING No. S100 S-L-103 TYPE — REV 003

REVISIONS:		DATE
001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS, OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD

GENERAL-NOTES

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CLIENT · PROJECT

IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK
BENCH & DRINKING FOUNTAIN
DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

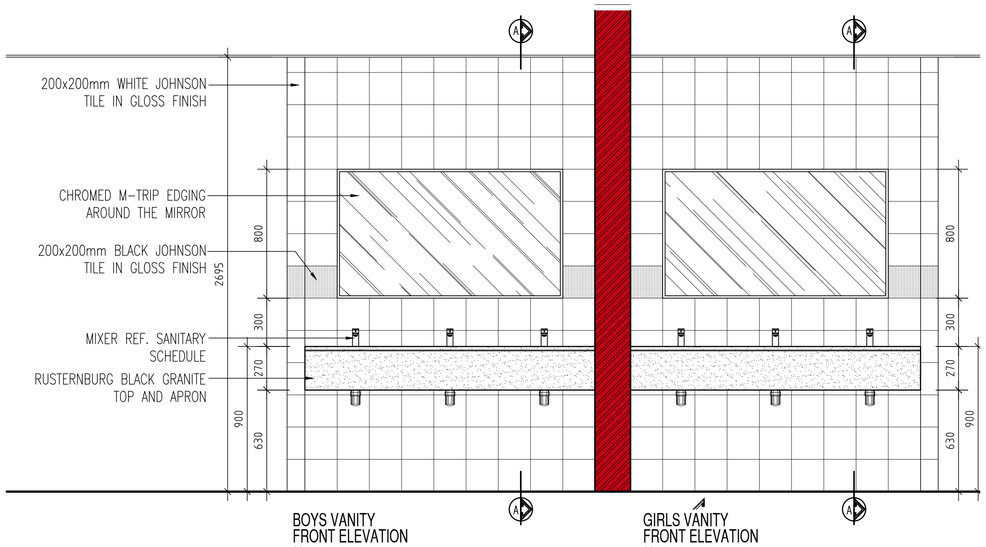
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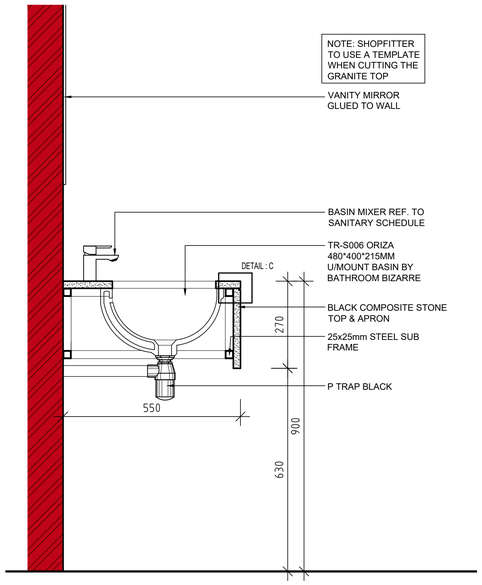
DRAWING No. S100 S-L-103 - — REV 003

FOR-TENDER

COMP REF: REFERENCE



BOYS VANITY
FRONT ELEVATION
SCALE 1 : 20

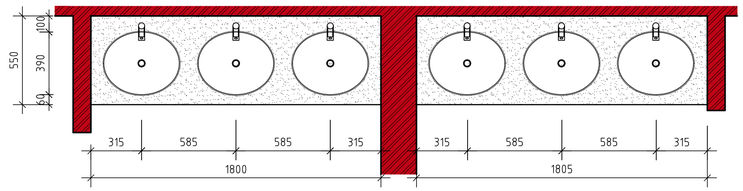


TYPICAL VANITY
SECTION A-A
SCALE 1 : 10



DETAIL : C
SCALE 1 : 5

GIRLS VANITY
FRONT ELEVATION
SCALE 1 : 20



BOYS VANITY
PLAN
SCALE 1 : 20

GIRLS VANITY
PLAN
SCALE 1 : 20

			GIRLS CHANGE	BOYS CHANGE	DISABLED TOILET	DISABLED SHOWER	STORE ROOM	CARE TAKER ROOM	GEYSER ROOM	COVERED PASSAGE			
												SPORTS BLOCK	
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	◎	◎	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎	◎	◎	◎	◎	◎	2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES	◎	◎	◎	◎		◎			3.1	600x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	MOSAIC TILE SHOWER FLOOR	◎	◎							3.2	Mosaic Tile Porcelain Hilton L30cm x W30cm non slip by leroy All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	3.3	MERANTI SKIRTING BOARD									3.3	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	4	COMPACTED FILL	◎	◎	◎	◎	◎	◎	◎	◎	4	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	5	GRANOLITE					◎		◎	◎	5	SMOOTH GRANOLITE on screed free of dents and bumps. with clear seal	
	6	MOSAIC (SHOWER)	◎	◎		◎					6	Alaska Resin Mosaic - 300 x 300mm	
WALLS	7	PLASTER AND PAINT	◎	◎	◎	◎	◎	◎	◎	◎	7	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two final (washable)	color to architects approval
	8	GRANITE WORKTOP	◎	◎							8	22mm thick RUSTENBURG STONE, to be used in wet areas only.	
	9	WINDOW FINISH	◎	◎	◎	◎	◎	◎	◎	◎	9	Frosted glass on windows	
	10	WALL TILES (white)	◎	◎	◎	◎		◎	◎		10	200x200mm WHITE JOHNSON TILE IN GLOSS FINISH	
	11	WALL TILES (black)	◎	◎	◎	◎		◎	◎		11	200x200mm BLACK JOHNSON TILE IN GLOSS FINISH	
CEILINGS	12	CEILING INSULATION	◎	◎	◎	◎	◎	◎	◎	◎	12	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	13	FIBRE CEMENT CEILING BOARDS	◎	◎	◎	◎	◎	◎	◎	◎	13	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards painted in white acrylic paint	to architects approval
	14	CORNICE	◎	◎	◎	◎	◎	◎	◎	◎	14	ACRYLIC COVE CORNICE 55 x 55mm	

DRAWING No. S100 S-L-104 TYPE 004 REV

REVISIONS: DATE

001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-add finishes schedule	-22-06-2023
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK
VANITY DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

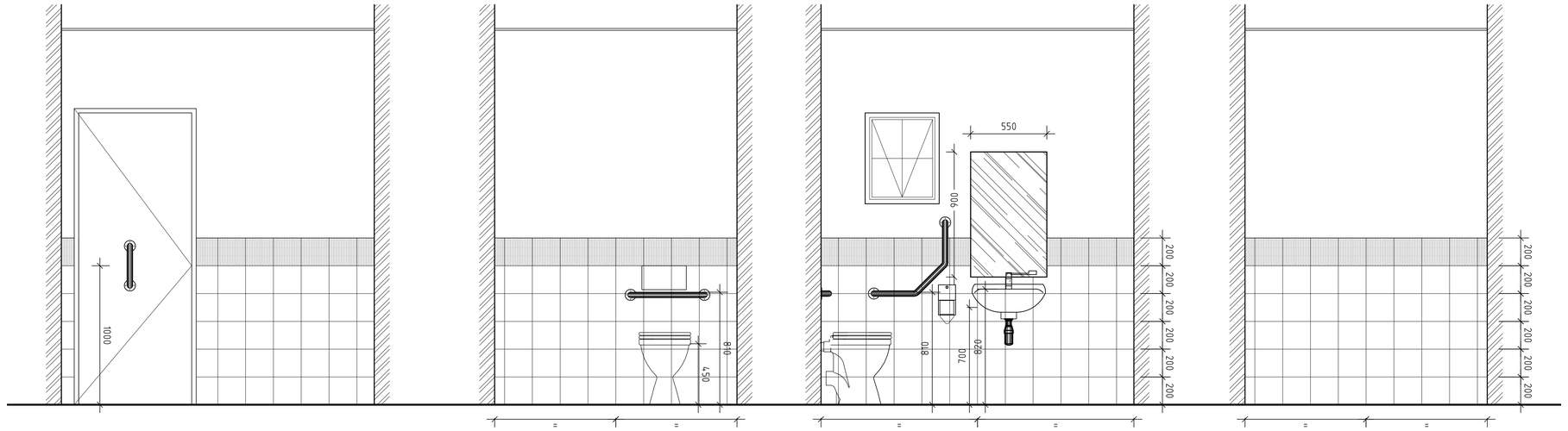
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DRAWING No. S100 S-L-104 - 004 REV

FOR-TENDER

COMP REF: REFERENCE

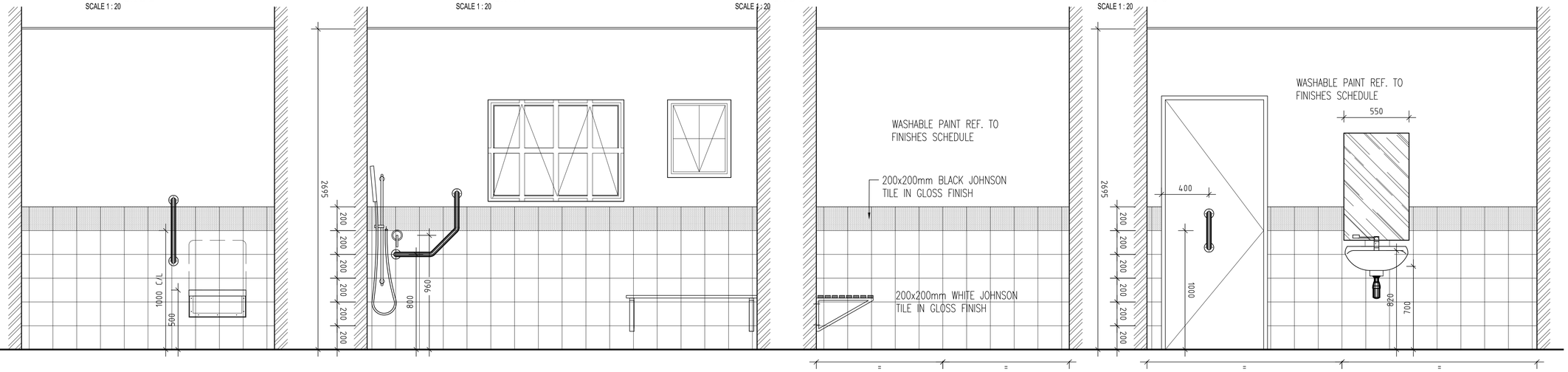


ELEVATION B-B
SCALE 1 : 20

ELEVATION A-A
SCALE 1 : 20

ELEVATION D-D
SCALE 1 : 20

ELEVATION C-C
SCALE 1 : 20

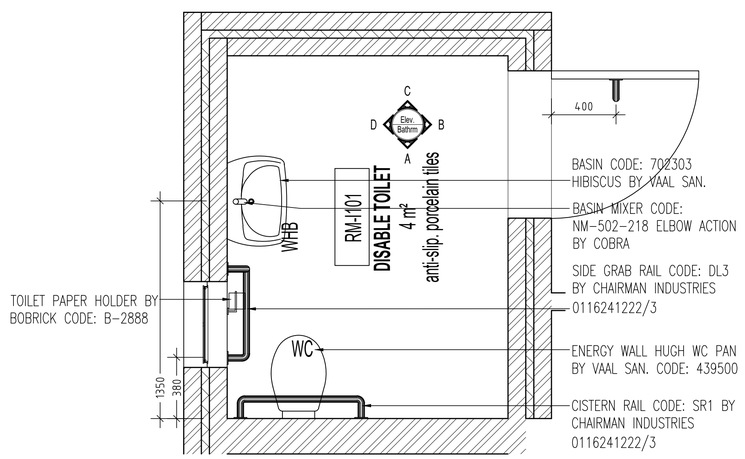


ELEVATION 4-4
SCALE 1 : 20

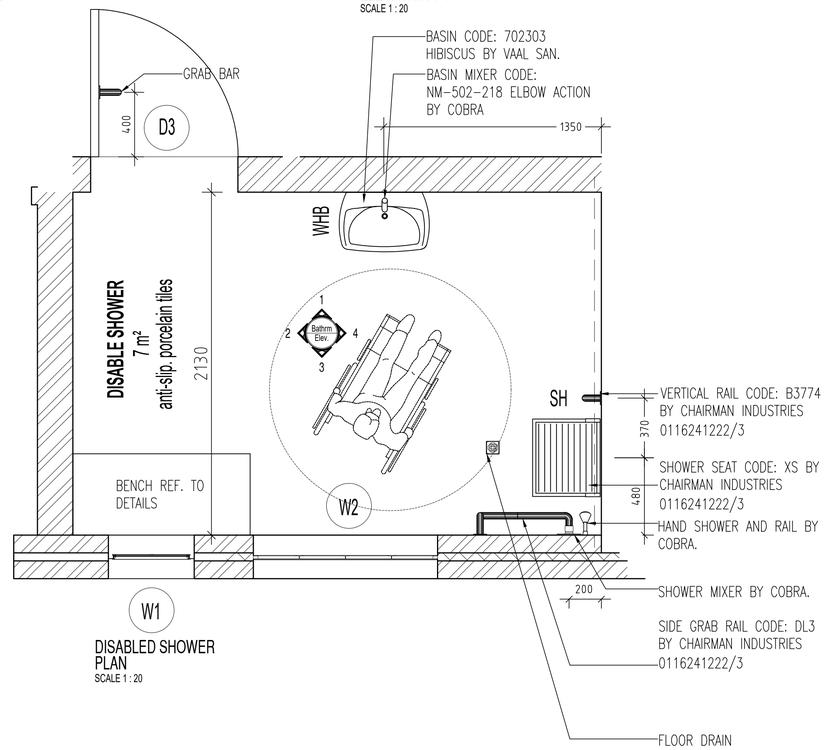
ELEVATION 3-3
SCALE 1 : 20

ELEVATION 2-2
SCALE 1 : 20

ELEVATION 1-1
SCALE 1 : 20



DISABLED TOILET PLAN
SCALE 1 : 20



DISABLED SHOWER PLAN
SCALE 1 : 20

DRAWING No. S100 S-L-106 TYPE — REV 002

REVISIONS: — DATE

001	-update title -issue for tender	-12-12-2022
002	-issued for tender	-10-07-2023

PLUMBING-NOTES

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- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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CLIENT · PROJECT

IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK DISABLED TOILETS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

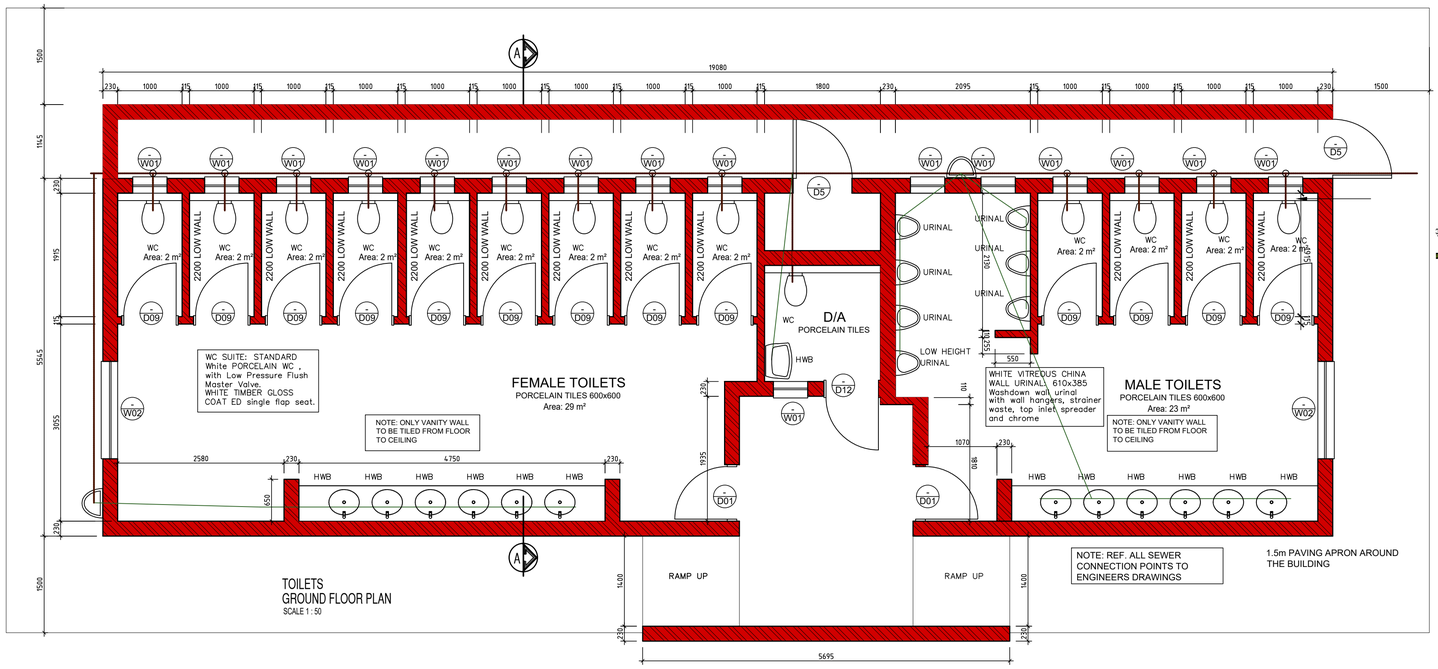
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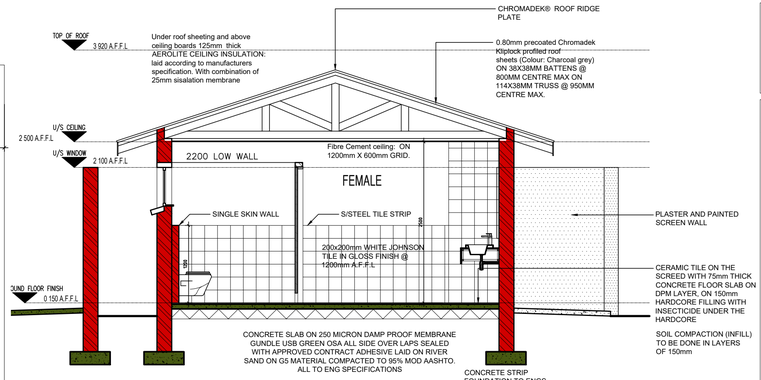
Each contractor shall be responsible for ensuring the structural stability of all components of his work and ascertain that the main structure is capable of supporting all the loads applied thereto.

DRAWING No. S100 S-L-106 - — REV 002

FOR-TENDER

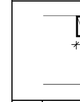
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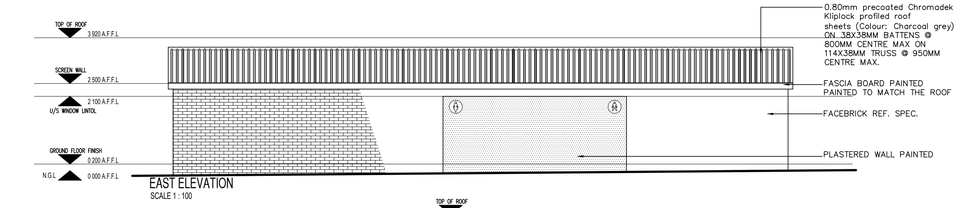


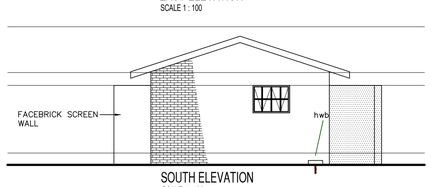


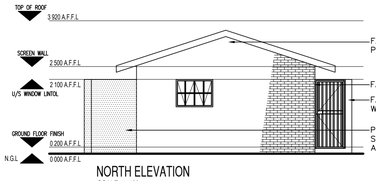
SECTION A-A
SCALE 1 : 50

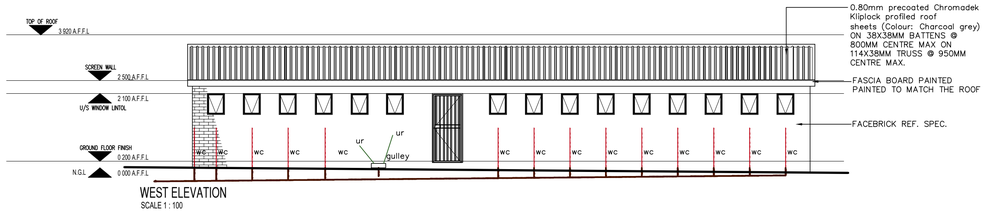
WINDOW SCHEDULE

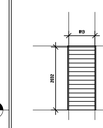
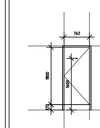
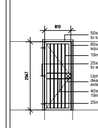
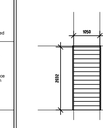
	W1	W-2-TH
		
ITEM	DESCRIPTION	DESCRIPTION
WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME
WINDOW FRAME PAINT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY: ARCHITECT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY: ARCHITECT
WINDOW LEAF		
GLAZING	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH APPROVED STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH APPROVED STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS
BURGLAR BARS	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME
LOCATION & QUANTITY	MALE TOILET 7 FEMALE TOILET 11 TOTAL ITEMS 18	MALE TOILET 1 FEMALE TOILET 1 TOTAL ITEMS 2
IRONMONGERY		IRONMONGERY
OVERALL WINDOW DESCRIPTION		OVERALL WINDOW DESCRIPTION









	F.FLOOR LEVEL				
					
		2125 u/s lintel 0.000 ffl 03	2125 u/s lintel 0.000 ffl 04	50x50x3mm angle iron frame welded to lug and built in. 60x40x3mm MS steel security mortice deadlock. 10mm Ø steel rods at 110 centres. 25x25x3mm Lug welded to angle iron and built in. Upright double throw security mortice deadlock in steel plate housing with extended cover plate. Welded horizontal supports with 10mm Øholes for vertical rods. 25mmØ x60mm Long pin hinge. NB: all DUCTS, steel gates to be fixed/welded with 6mm expanded steel mesh to the inside of the gate. 05	2125 u/s lintel 0.000 ffl 03
DOOR LOCATION	TOILET ENTRANCE	BOYS & GIRLS WC CUBICLE	AS SHOWN ON PLANS	DISABLE TOILET	
DOOR NUMBER	D1	D8	D5	D12	D9
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 110mm INTERNAL WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x50x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO GDE DETAIL DT30 FRAME TO ALLOW FOR 90° SWING	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	
FRAME SETTING OUT	CENTER OF WALL	CENTER OF WALL	OUTSIDE OF WALL	CENTER OF WALL	
DOOR FRAME FINISH	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	
ARCHITRAVE	NONE	NONE	NONE	NONE	
DOOR LEAF	STANDARD 3032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STANDARD 762mm x 2032mm x 40mm SOLID FLUSH PANEL DOOR WITH SANDBOARD BOTH SIDES	D EDE DETAIL DT30	STANDARD 3032 HIGH x 1000mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER AND ONE COAT APPROVED PVA PAINT	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	
GLAZING	NONE	NONE	NONE	NONE	
IRONMONGERY * REFER TO SPECIALISTS SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES 18mØ pair DOOR HANDLE HANDLE- 150mm PULL HANDLE & 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- Chrome Plated Single Coat Hook	BALL BEARING HINGES 18mØ pair BATHROOM PADCATCH THUMB LOCK + CYLINDER- ACCESSORIES- Chrome Plated Single Coat Hook	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.	BALL BEARING HINGES 18mØ pair DOOR HANDLE HANDLE- D/HC-30E, PULL HANDLE 865/ 121/234Ø, 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- Chrome Plated Single Coat Hook	
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	NONE	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	
QUANTITY	11	11	01	11	
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	

TOILET BLOCK

			FEMALE TOILET	MALE TOILET	DISABLED TOILET	ENTRY AND RAMPS			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎		1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎		2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES	◎	◎	◎		3.1	600x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	TILE SKIRTING	◎	◎	◎		3.2	100x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	3.3	MERANTI SKIRTING BOARD					3.3	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	4	COMPACTED FILL	◎	◎	◎		4	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	5	GRANOLITE				◎	5	SMOOTH GRANOLITE on screed free of dents and bumps. with clear seal	
WALLS	6	PLASTER AND PAINT	◎	◎	◎		6	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two final (washable)	color to architects approval
	7	GRANITE WORKTOP	◎	◎	◎		7	22mm thick RUSTENBURG STONE, to be used in wet areas only.	
	8	WINDOW FINISH	◎	◎	◎		8	Frosted glass on windows	
	9	WALL TILES (white)	◎	◎	◎		9	200x200mm WHITE JOHNSON TILE IN GLOSS FINISH	
	10	WALL TILES (black)	◎	◎	◎		10	200x200mm BLACK JOHNSON TILE IN GLOSS FINISH	
CEILINGS	11	CEILING INSULATION	◎	◎	◎		11	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	12	FIBRE CEMENT CEILING BOARDS	◎	◎	◎		12	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards painted in white acrylic paint	to architects approval
	13	CORNICE	◎	◎	◎		13	ACRYLIC COVE CORNICE 55 x 55mm	

DRAWING No. S100 TB-L-100 TYPE — REV 008

REVISIONS:		DATE
001	-UPDATE APRON SIZE	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update elevation ground slope	-20-08-2020
005	-update tilte -issue for tender	-20-08-2020
006	-UPDATE IRONMONGERY	-15-12-2022
007	-ADD FINISHES SCHEDULE	-20-06-2023
008	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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IKANENG HIGH SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW TOILET BLOCK
PLAN, ELEVATIONS, SECTION AND SCHEDULES

SCALE	DATE	DRAWN
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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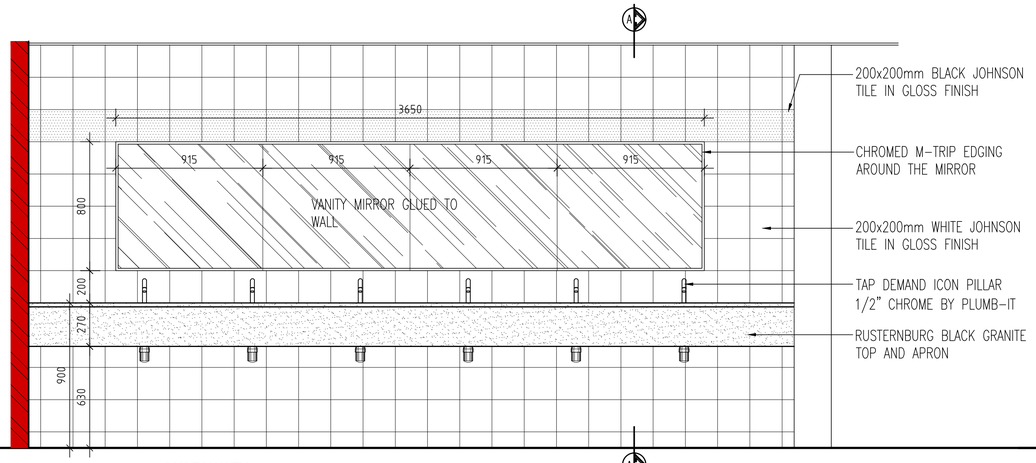
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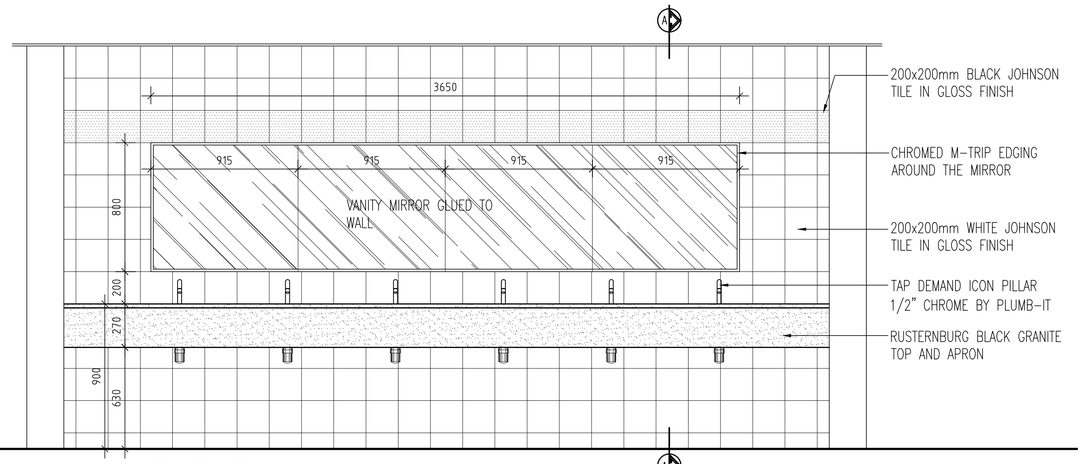
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DRAWING No. S100 TB-L-100 - REV 008

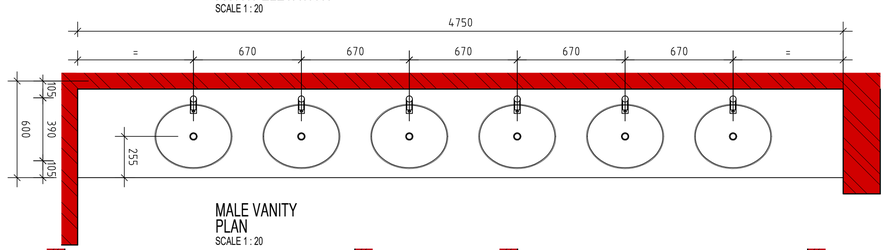
FOR-TENDER

COMP REF: REFERENCE



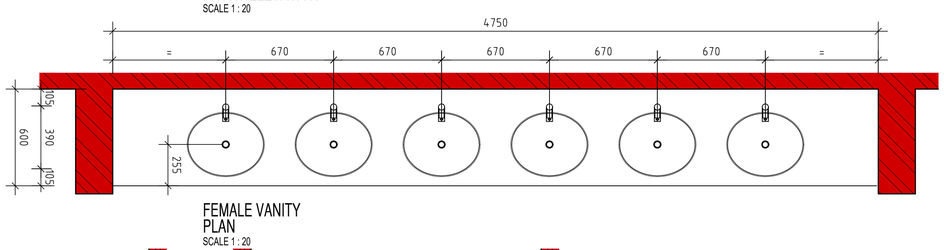


MALE VANITY FRONT ELEVATION
SCALE 1 : 20

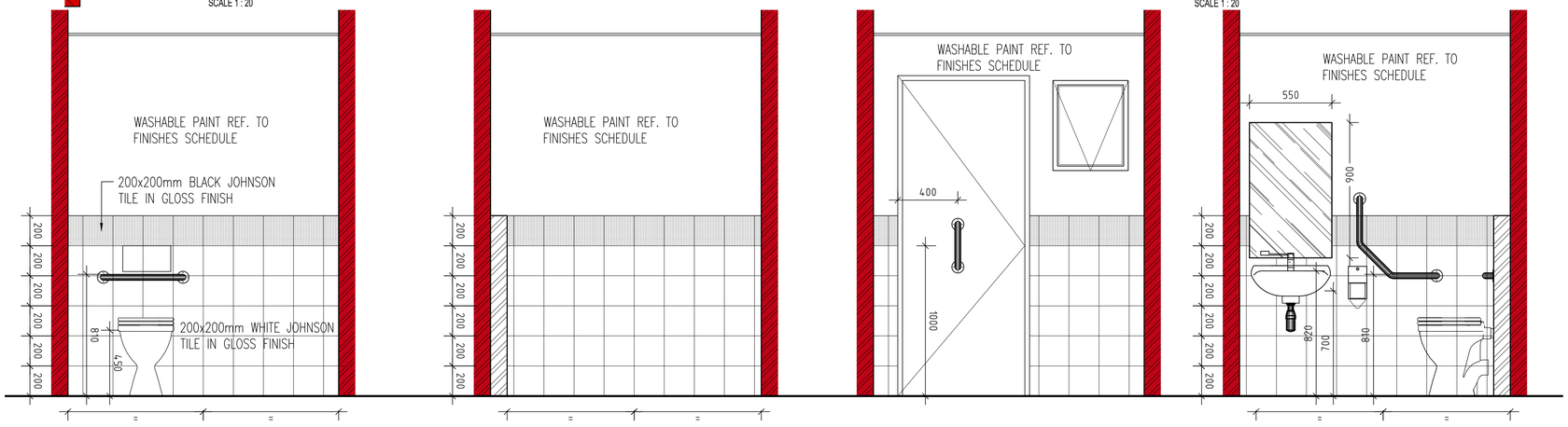


MALE VANITY PLAN
SCALE 1 : 20

FEMALE VANITY FRONT ELEVATION
SCALE 1 : 20



FEMALE VANITY PLAN
SCALE 1 : 20

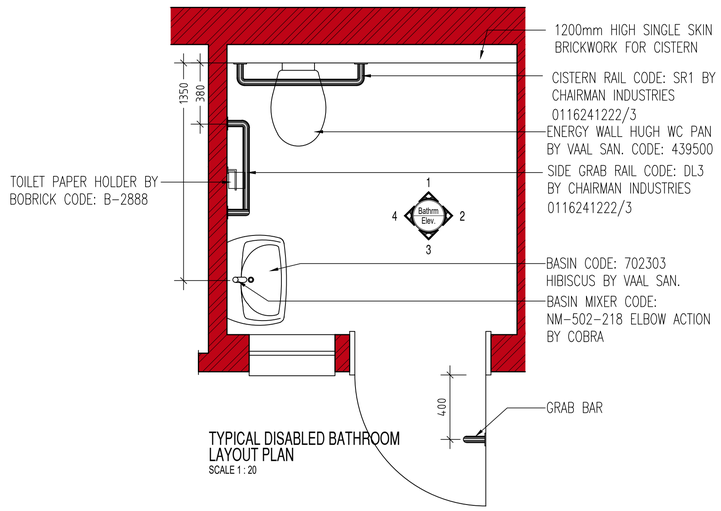


ELEVATION 1-1
SCALE 1 : 20

ELEVATION 2-2
SCALE 1 : 20

ELEVATION 3-3
SCALE 1 : 20

ELEVATION 4-4
SCALE 1 : 20



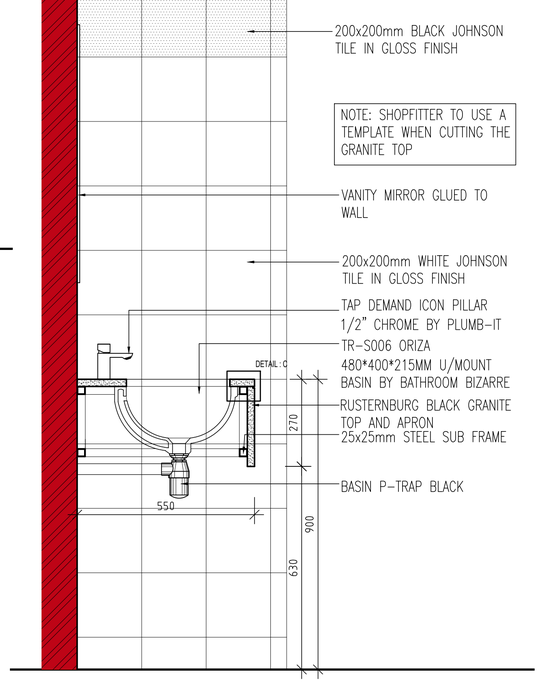
TYPICAL DISABLED BATHROOM LAYOUT PLAN
SCALE 1 : 20



DETAIL : C
SCALE 1 : 5



DETAIL : D
SCALE 1 : 5



TYPICAL VANITY SECTION A-A
SCALE 1 : 10

DRAWING No. S100 TB-L-101 TYPE 002 REV

REVISIONS: DATE

001	-UPDATE P TRAP SPEC	-22-06-2023
002	-issued for tender	-10-07-2023

PLUMBING-NOTES

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positive impact today... for tomorrow

CLIENT · PROJECT

IKANENG HIGH SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW TOILET BLOCK VANITY DETAILS AND DISABLED LAYOUT

SCALE	DATE DRAWN	
AS_SHOWN	2022-12-01	TT

CONTRACTOR

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DRAWING No. S100 TB-L-101 - 002 REV

FOR-TENDER

COMP REF: REFERENCE

LIBRARY AND LABS

			LIBRARY	SCIENCE LAB	RESOURCE ROOM	COMPUTER LAB	MULTIPURPOSE C/ROOM	STORE 1	GENERAL STORE	FHR 1	FHR 2	OPEN COURTYARD	COVERED WALKAYS			
			E103	E105	E106	E107	E109	E114	E115	E116						
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	2.13 of specification with 50mm sand over poison.
	2	COMPACTED FILL	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	2	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	3	75mm CONCRETE SURFACE BED	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	3	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	4	ANTI-SLIP PORCELAIN TILES												4	500x500mm ANTI-SLIP PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints	to manufacturers recommendations and instructions.
	5	PUR VINYL SHEETING	◎		◎									5	2mm PUR VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	NOTE: In Classrooms EXCLUDING THE GRADE R CLASSROOMS, all classrooms to have a combination OF 2mm SD VINYL FLOOR SHEETING, up to 2m in width from wall and the remainder of the classroom will be covered in 2mm PUR Vinyl Sheeting. Non-directional SD MUST be combined with non-directional PUR.
	6	SD VINYL SHEETING												6	2mm SD VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	VISA VERSA directional SD to be combined with directional PUR. DO NOT MIX non-directional and directional.
	7	SAFETY VINYL SHEETING		◎		◎	◎							7	2mm SAFETY VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	
	8	GRANOLITE						◎	◎	◎	◎		◎	8	All STORE ROOMS and PLANT ROOMS: SMOOTH GRANOLITE on screed free of dents and bumps.	
	9	TRANSITION STRIP		◎		◎	◎							9	40mm Aluminium TRANSITION STRIP embedded into screed between Vinyl Sheeting and Porcelain Floor Tiles.	
	10	MERANTI SKIRTING BOARD	◎	◎	◎	◎	◎	◎	◎					10	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. Finish with 2 coats clear eggshell	polyurethane varnish.
	11	PRECAST CONC. PAVING BLOCKS										◎		11	PRECAST CONCRETE PAVING BLOCKS: 65mm thick, pigmented interlocking paving	
WALLS	12	9 BRICKCOURSES ABOVE FLOOR HEIGHT 765MM	◎	◎	◎	◎	◎							12	9 brick courses above floor level, approximately 765mm in height.	
	13	PLASTER AND PAINT ABOVE 765MM BRICKWORK	◎	◎	◎	◎	◎							13	PLASTER AND PAINT: 1 Coat plaster and 1 coat acrylic PVA suitable for washing with a mild detergent and with a mat finish. Apply at 10m	PLANT ROOM walls to be GREY in colour
	14	PLASTER AND PAINT (PVA)						◎	◎	◎	◎			14	PLASTER AND PAINT: 1 Coat plaster and 1 coat acrylic PVA suitable for washing with a mild detergent and with a mat finish. Apply at 10m	
	15	GLOSSY CERAMIC WALL TILES 1500MM HIGH FROM FL/ LEVEL												15	GLOSSY CERAMIC TILES: 200mm x 200mm, with aluminum coping, 1500mm in height from floor level	
	16	PLASTER AND PAINT ABOVE 1500MM GLOSSY CERAMIC TILES												16	PLASTER AND PAINT: 1 Coat plaster and 1 coat acrylic PVA suitable for washing with a mild detergent and with a mat finish. Apply at 10m	
	17	BLOCKOUT ROLLER BLINDS		◎	◎	◎	◎							17		
	18	HORIZONTAL BLINDS	◎											18		
	19	SPLASH BACK TILES		◎	◎	◎	◎							19	SPLASHBACK TILING: Above sink, vanities and applicable counter tops.	
	20	SELIGNA WORKTOP		◎	◎	◎	◎							20		
CILLS	21	BOE CILL	◎	◎	◎	◎	◎	◎		◎				21	BRICK ON EDGE WINDOW CILL:(internal) built in soldier course flush with dado wall. All joints to be flush half round pointed joints. BRICKS ON THE ENDS TO BE SOLID AND NOT HOLLOW	LINTELS to be mild steel double angle line welded to center of brickwork 6-10mm thickness, subject to span.
CEILINGS	22	ACOUSTIC SUSPENDED CEILING	◎	◎	◎	◎	◎							22	15mm thick ACOUSTIC SUSPENDED ceiling on 1200mm x 600mm grid (ONLY USED IN SCHOOL HALL AND CLASSROOMS)	
	23	GYPSUM SUSPENDED CEILING						◎	◎	◎	◎			23	Gypsum suspended ceiling panels with vinyl coating/ sheeting (NOT TO BE USED IN WET AREAS).	
	24	FIBER CEMENT SUSPENDED CEILING												24	Fibre Cement suspended ceiling: ON 1200mm X 600mm GRID. (ACOUSTIC SUSPENDED BOARDS TO BE USED IN CLASSROOMS AND SCHOOL HALL 15mm thick)	
	25	FIBER CEMENT CEILING BOARDS											◎	25	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards	
	26	CEILING INSULATION	◎	◎	◎	◎	◎	◎	◎	◎	◎		◎	26	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid according to manufacturers specification. With combination of 25mm sisalation membrane	
FITTINGS	36	FIRE EXTINGUISHER								◎	◎				4.5kg DCP: dry powder chemical fire extinguisher with hook made of 120x20x2mm mild steel strip bent to form hook for extinguisher screwed	twice to 520x100x22 hardwood. Hardwood screwed and plugged with 6 screws and plugs. Positioned as shown on Site. Provide 190x190mm ABS plastic symbol safety signs - type FB2. Plugged and screwed to wall at all fire extinguishers.
	37	MEDICINE CABINET													MEDICINE CABINET: Standard white built in type. Complete with mirrors on doors shelves etc. All as approved. Size 380x610mm	
	38	SAFE													WALL SAFE: Aprox. size 280 x 310 x 230mm deep, bolted to wall with expansion bolts to inside of safe, with integrated security lock.	
	39	PINNING BOARD	◎	◎	◎	◎	◎								CARPET PINNING BOARDS: Aluminium Frame, Pen tray and fixing components Included with round plastic corners	according to manufacturers instructions. Overall size 1200 high x 2400mm Wide consisting of 1 Pinning Board
	40	MAGNETIC WHITE BOARD	◎	◎	◎	◎	◎								2x(2400x1200mm) MAGNETIC WHITE BOARD: Markerboard surface, wall mounted, complete with intergrated pen tray.	
	41	ROOF SHEETING													CHROMADEK ROOF SHEETING: 0.8mm thick and 1225mm wide with KLIP- Tite or Klip Lok clamping or similar	Acceptable colours: Gemsbok Sand, Kalahari Red, Aloe Green and Azure Blue.

DRAWING No. S100 NC-L-103 TYPE 003 REV

REVISIONS: DATE

001 -update as per comments -23-06-2020
002 -update title -11-09-2022
-issue for tender
003 -issued for tender -10-07-2023

PLUMBING-NOTES

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CLIENT · PROJECT

IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION
NEW BLOCKS
LABS, LIBRARY AND MULTI PURPOSE
FINISHES SCHEDULE

SCALE DATE DRAWN
AS_SHOWN 2020-03-01 TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

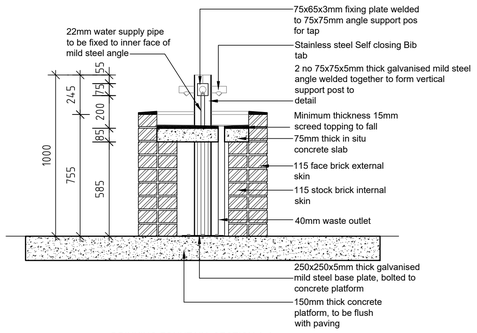
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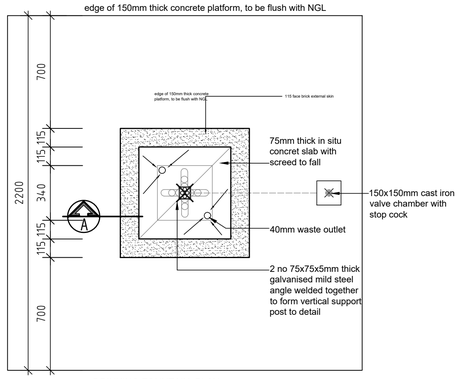
DRAWING No. S100 NC-L-103 - 003 REV

FOR-TENDER

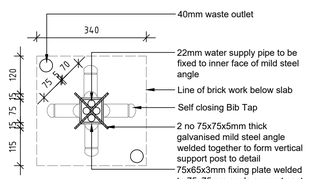
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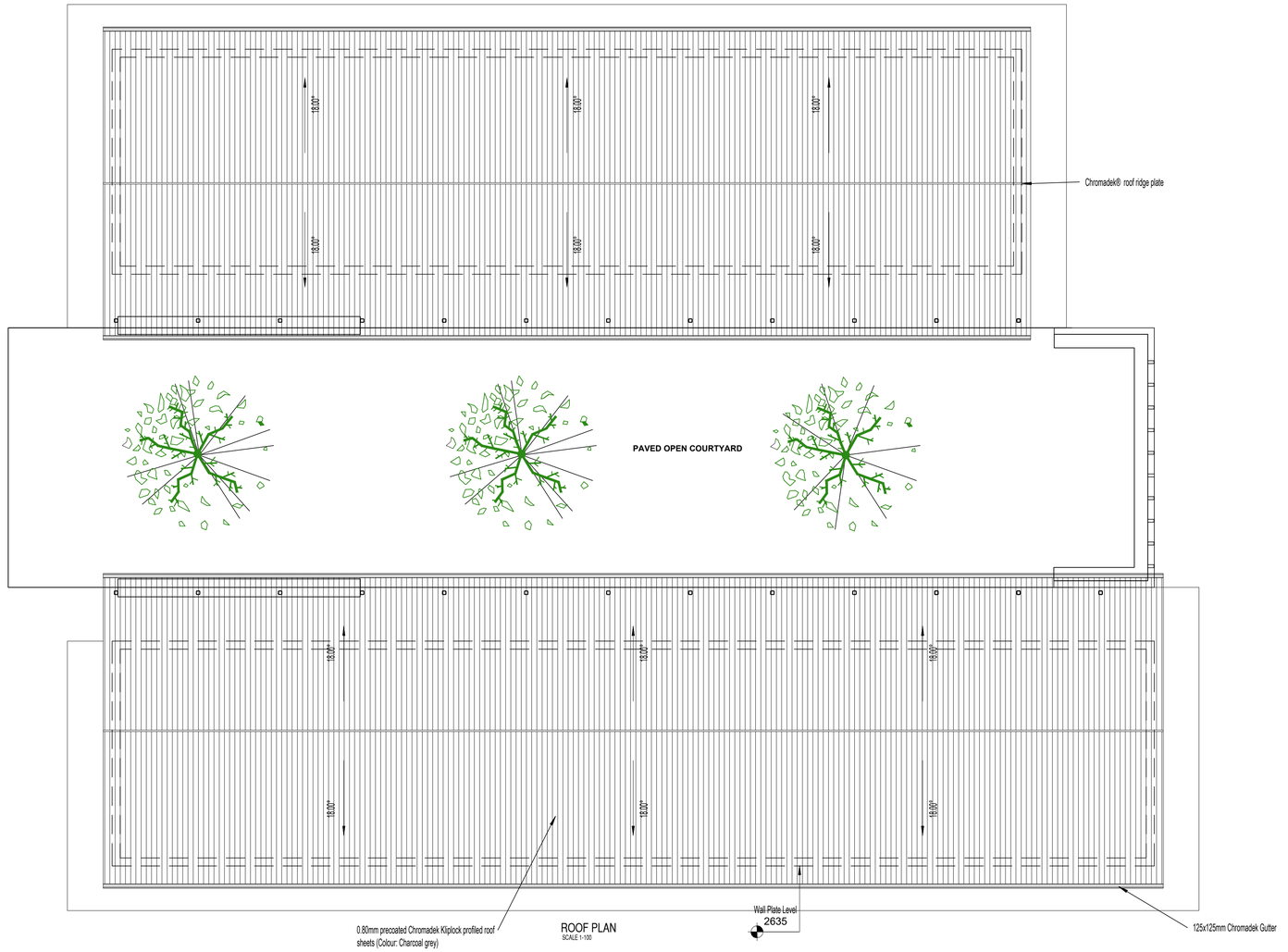
DRINKING FOUNTAIN: SECTION A-A
SCALE 1 : 20



DRINKING FOUNTAIN: PLAN
SCALE 1 : 20



DRINKING FOUNTAIN: DETAIL
SCALE 1 : 10



ROOF PLAN
SCALE 1:100

DRAWING No. S100 NC-L-104 TYPE — REV 004

REVISIONS: — DATE

001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update title -issue for tender	-11-09-2022
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

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DRAWING DESCRIPTION
NEW BLOCKS
LABS, LIBRARY AND MULTI PURPOSE
ROOF PLAN & DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

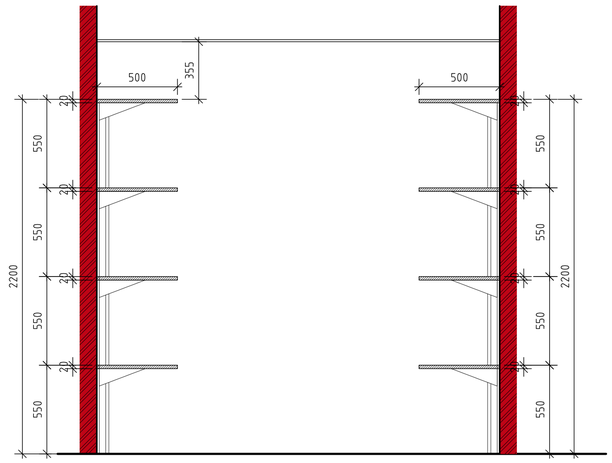
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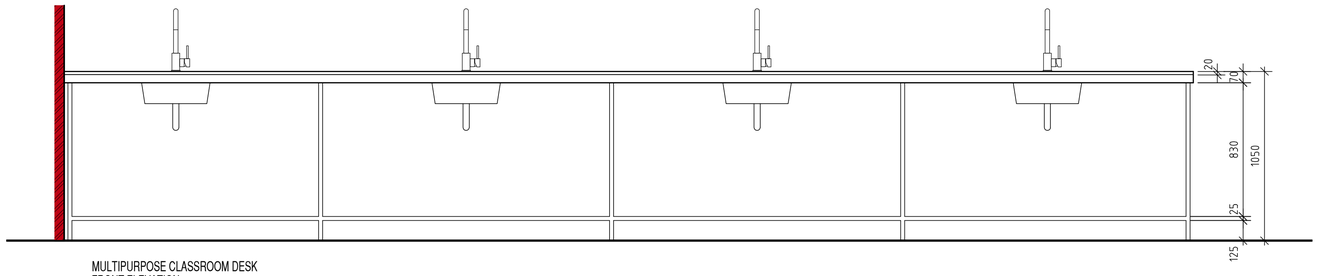
DRAWING No. S100 NC-L-104 - — REV 004

FOR-TENDER

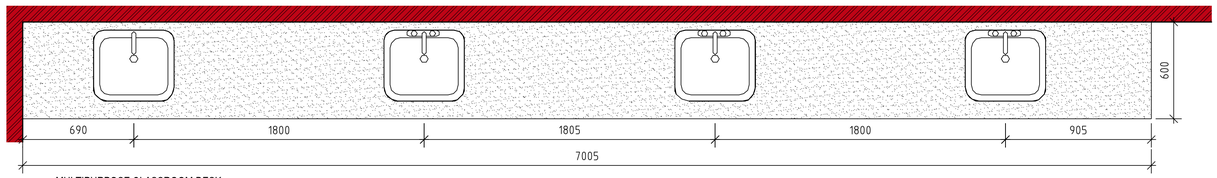
COMP REF: REFERENCE



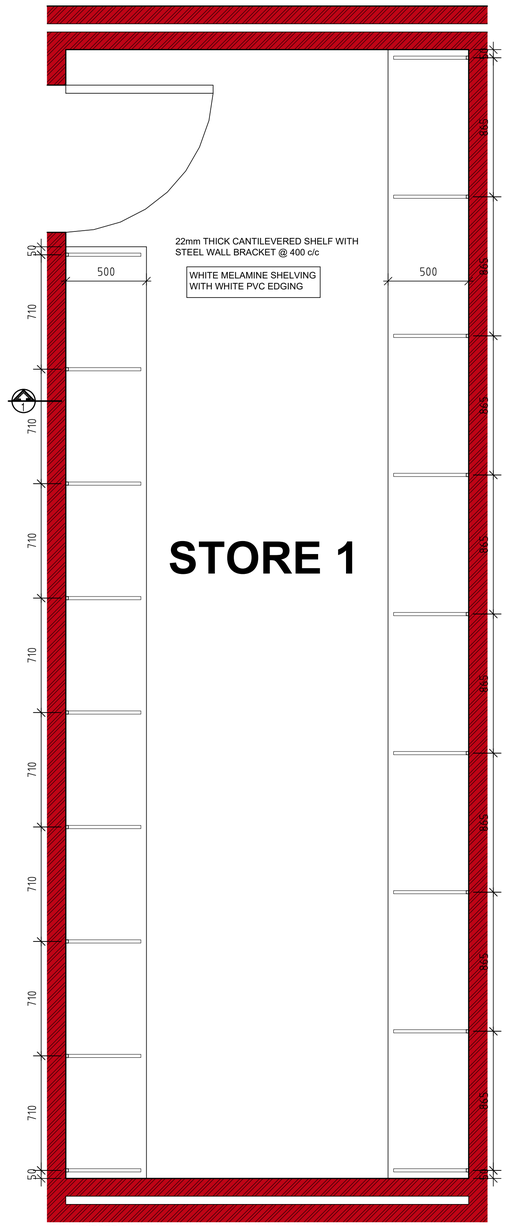
STORE-1
SECTION 1-1
SCALE 1 : 20

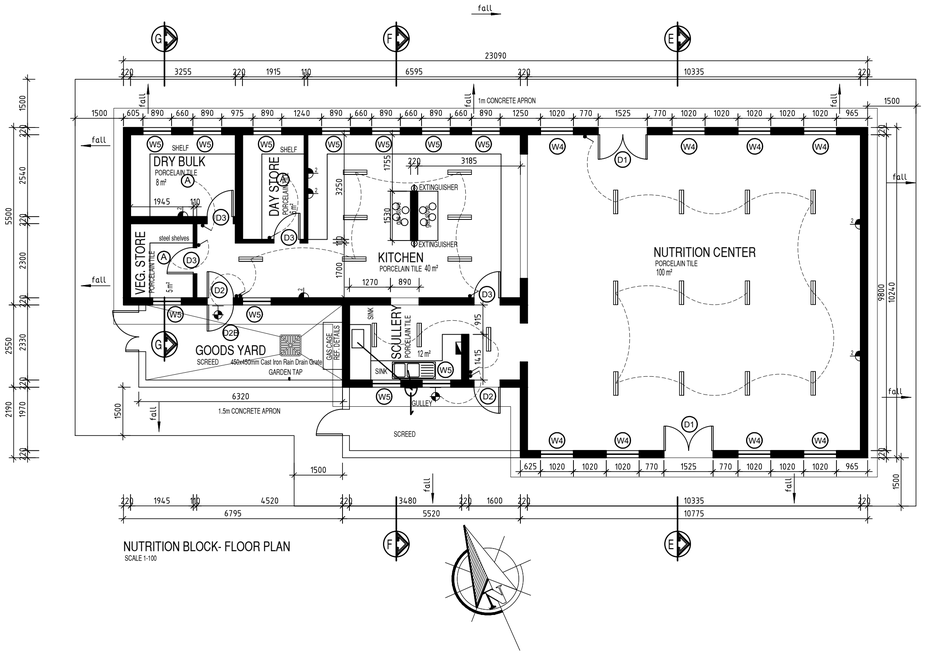


MULTIPURPOSE CLASSROOM DESK
FRONT ELEVATION
SCALE 1 : 20

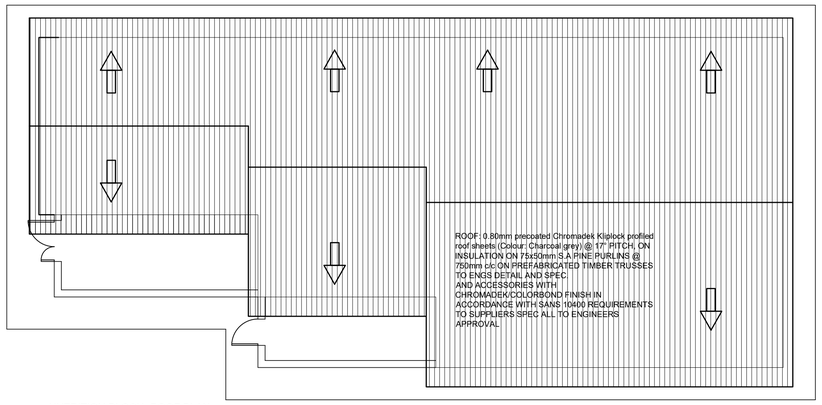


MULTIPURPOSE CLASSROOM DESK
SECTION A-A
SCALE 1 : 20

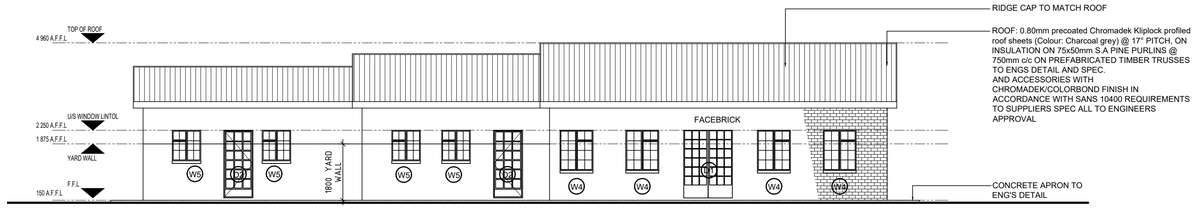

22mm THICK CANTILEVERED SHELF WITH
STEEL WALL BRACKET @ 400 c/c
WHITE MELAMINE SHELVING
WITH WHITE PVC EDGING
500
500
50
710
710
710



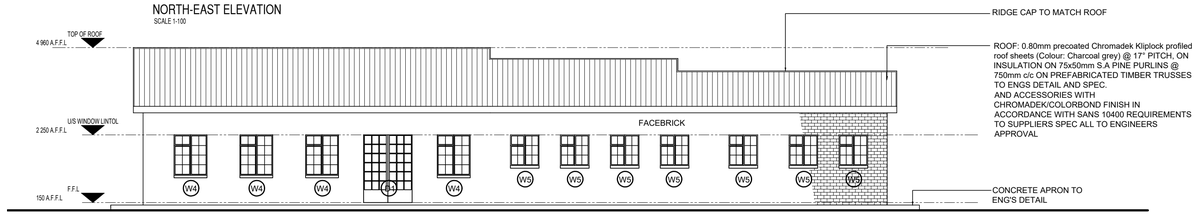
NUTRITION BLOCK- FLOOR PLAN
SCALE 1-100



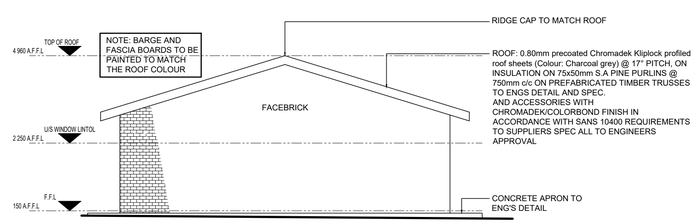
NUTRITION BLOCK- ROOF PLAN
SCALE 1-100



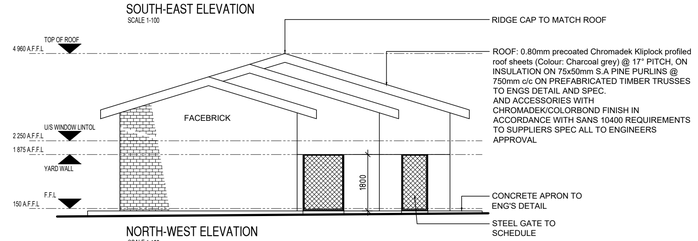
NORTH-EAST ELEVATION
SCALE 1-100



SOUTH-WEST ELEVATION
SCALE 1-100



SOUTH-EAST ELEVATION
SCALE 1-100



NORTH-WEST ELEVATION
SCALE 1-100

ELECTRICAL LEGEND

	CEILING LIGHT POINT
	LIGHT SWITCH
	WALL LIGHT
	FLOURESCENT LIGHT
	DB BOARD
	SINGLE PLUG
	DOUBLE PLUG
	OUT DOOR PLUG
	TV POINT
A	ENERGY SAVING DOWN LIGHTER
G	GEYSER POSITION

DRAWING No. S100 N-L-100 TYPE 007 REV

REVISIONS:		DATE
001	-UPDATE APRON SIZE	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update elevations ground slope	-24-06-2020
005	-update title -issue for tender	-11-09-2022
006	-update window number	-22-06-2023
007	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW NUTRITION BLOCK PLANS AND ELEVATIONS

-

SCALE · DATE · DRAWN

AS_SHOWN 2019-09-01 TT

CONTRACTOR

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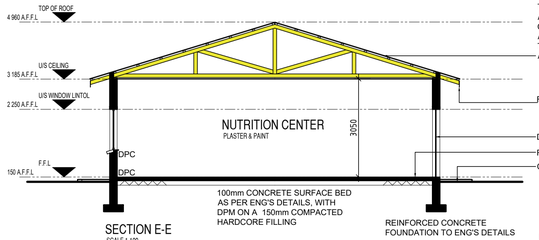
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DRAWING No. S100 N-L-100 - REV 007

FOR-TENDER

COMP REF: REFERENCE



SECTION E-E
SCALE 1-100

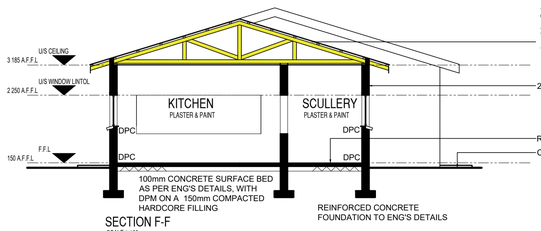
ROOF: 0.80mm precoated Chromadek Kliplock profiled roof sheets (Colour: Charcoal grey) @ 17° PITCH, ON INSULATION ON 75x50mm S.A PINE PURLINS @ 750mm c/c ON PREFABRICATED TIMBER TRUSSES TO ENGS DETAIL AND SPEC.
AND ACCESSORIES WITH CHROMADEK/COLORBOND FINISH IN ACCORDANCE WITH SANS 10400 REQUIREMENTS TO SUPPLIERS SPEC ALL TO ENGINEERS APPROVAL

FACIA BOARD

DOOR TO SCHEDULE

REINFORCED CONCRETE SLAB TO ENG'S DETAILS

CONCRETE APRON TO ENG'S DETAILS



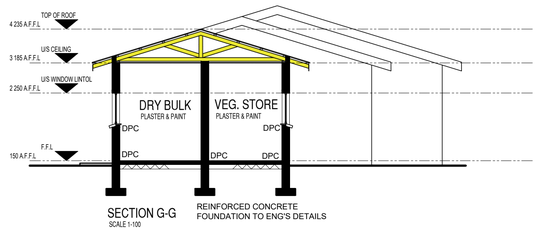
SECTION F-F
SCALE 1-100

ROOF: 0.80mm precoated Chromadek Kliplock profiled roof sheets (Colour: Charcoal grey) @ 17° PITCH, ON INSULATION ON 75x50mm S.A PINE PURLINS @ 750mm c/c ON PREFABRICATED TIMBER TRUSSES TO ENGS DETAIL AND SPEC.
AND ACCESSORIES WITH CHROMADEK/COLORBOND FINISH IN ACCORDANCE WITH SANS 10400 REQUIREMENTS TO SUPPLIERS SPEC ALL TO ENGINEERS APPROVAL

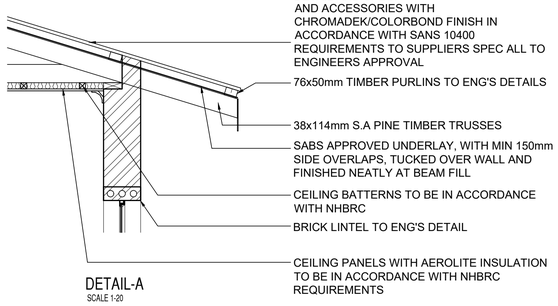
220mm BRICKWORK

REINFORCED CONCRETE SLAB TO ENG'S DETAILS

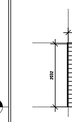
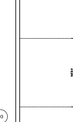
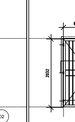
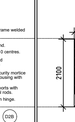
CONCRETE APRON TO ENG'S DETAILS



SECTION G-G
SCALE 1-100



DETAIL-A
SCALE 1-20

F.FLOOR LEVEL	 2125 u/s lintel; 0.000 ffl; 03	 02	 50x50x3mm angle iron frame welded to lug and built in; 60x40x2mm fabd steel square tube gate surround; 10mm Ø steel rods at 110 centres; 2x 40x20mm steel flat bar horizontal supports with 10mm Ø steel rod through; Upright double throw security mortice deadlock in steel plate housing with extended cover plate; 40x5mm horizontal supports with 10mm Ø steel rod through; 25mmØ x60mm Long pin hinge; NB: all DUCTS, steel gates to be fixed/welded/ with 6mm expanded steel mesh to the inside of the gate.; 02B	 1505; 2160; 01
DOOR LOCATION	KITCHEN & STORES	AS SHOWN ON PLANS	AS SHOWN ON PLANS	AS SHOWN ON PLANS
DOOR NUMBER	D3	D2	D2B	D1
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x40x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO GDE DETAIL D730 FRAME TO ALLOW FOR 90° SWING	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.
FRAME SETTING OUT	CENTER OF WALL	CENTER OF WALL	OUTSIDE OF WALL	CENTER OF WALL
DOOR FRAME FINISH	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECT'S SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)
ARCHITRAVE	NONE	NONE	NONE	NONE
DOOR LEAF	STANDARD 2032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STEEL WITH GLASS PANELS AS PER DRAWING	TO GDE DETAIL D730	STEEL WITH GLASS PANELS AS PER DRAWING
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)
GLAZING	NONE	YES	NONE	YES
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES 140x4f pair LOCK + CYLINDER DOOR HANDLES - HANDLE & 200x300mm PUSH PLATE DOOR CLOSER- 0-C delay 65mm ACCESSORIES: 150x150mm signage.	AS PER MANUFACTURERS SPEC. 4 LEVER SECURITY LOCKSET AND SATIN-CHROMED HANDLES ALL APPROVED	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.	AS PER MANUFACTURERS SPEC. 4 LEVER SECURITY LOCKSET AND SATIN-CHROMED HANDLES ALL APPROVED
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	NONE	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.
QUANTITY	04	02	01	02
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	

WINDOW SCHEDULE

	 1020; 1250	 890; 950
TYPE	.	.
POSITION	NUTRITION BLOCK	NUTRITION BLOCK
NUMBER	W04	W05
FRAME	MILD STEEL FRAME WINDOW	MILD STEEL FRAME WINDOW
GLASS	4mm CLEAR FLOAT GLASS WITH PUTTY	4mm CLEAR FLOAT GLASS WITH PUTTY
FITTINGS	STANDARD BRASS FITTING	STANDARD BRASS FITTING
BURGLAR BARS	FACTORY FITTED	FACTORY FITTED
FINISH	1 COAT PRIMER 1 COAT APPROVED ENAMEL PAINT TO MATCH THE ROOF	1 COAT PRIMER 1 COAT APPROVED ENAMEL PAINT TO MATCH THE ROOF

ELECTRICAL LEGEND

	CEILING LIGHT POINT
	LIGHT SWITCH
	WALL LIGHT
	FLOURESCENT LIGHT
	DB BOARD
	SINGLE PLUG
2	DOUBLE PLUG
20	OUT DOOR PLUG
	TV POINT
A	ENERGY SAVING DOWN LIGHTER
G	GEYSER POSITION

NUTRITION BLOCK

			NUTRITION CENTER	KITCHEN	SCULLERY	VEG. STORE	DRY BULK	DAY STORE			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎	◎	◎	◎	2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filing. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES	◎	◎	◎	◎	◎	◎	3.1	600x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	TILE SKIRTING							3.2	100x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	3.3	MERANTI SKIRTING BOARD	◎	◎	◎	◎	◎	◎	3.3	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	4	COMPACTED FILL	◎	◎	◎	◎	◎	◎	4	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	5	GRANOLITE							5	SMOOTH GRANOLITE on screed free of dents and bumps. with clear seal	
	6	MOSAIC (SHOWER)	◎	◎		◎			6	Alaska Resin Mosaic - 300 x 300mm	
	4.1	PUR VINYL SHEETING	◎	◎	◎	◎	◎	◎	7	2mm PUR VINYL FLOOR SHEETING: directional or non-directional sheeting on cement screed, that is free from bumps and dents. (WELDING STRIPS TO MATCH COLOUR)	
WALLS	7	PLASTER AND PAINT	◎	◎	◎	◎	◎	◎	8	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two final (washable)	color to architects approval
	8	GRANITE WORKTOP		◎					9	22mm thick RUSTENBURG STONE, to be used in wet areas only.	
	9	WINDOW FINISH							10	Frosted glass on windows	
	10	WALL TILES (white)		◎	◎				11	200x200mm WHITE JOHNSON TILE IN GLOSS FINISH	
	11	WALL TILES (black)							12	200x200mm BLACK JOHNSON TILE IN GLOSS FINISH	
CEILINGS	12	CEILING INSULATION	◎	◎	◎	◎	◎	◎	13	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	13	FIBRE CEMENT CEILING BOARDS	◎	◎	◎	◎	◎	◎	14	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards painted in white acrylic paint	to architects approval
	14	CORNICE	◎	◎	◎	◎	◎	◎	15	ACRYLIC COVE CORNICE 55 x 55mm	

DRAWING No. S100 N-L-101 TYPE — REV 006

REVISIONS: — DATE

001	-OMIT GUTTERS	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update title -issue for tender	-11-09-2022
005	-update door schedule -add finishes schedule	-22-06-2023
006	-issued for tender	-10-07-2023

PLUMBING-NOTES

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- ALL NEW WORK TO MATCH EXISTING

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW NUTRITION BLOCK
SECTIONS, DOOR AND WINDOW SCHEDULE

SCALE · DATE · DRAWN

AS_SHOWN 2019-09-01 TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

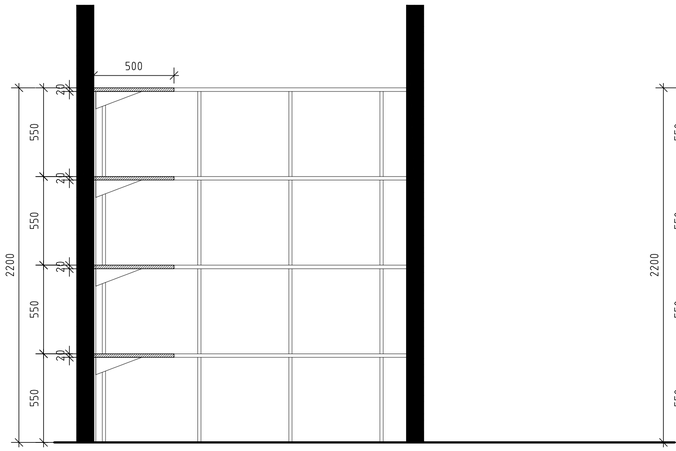
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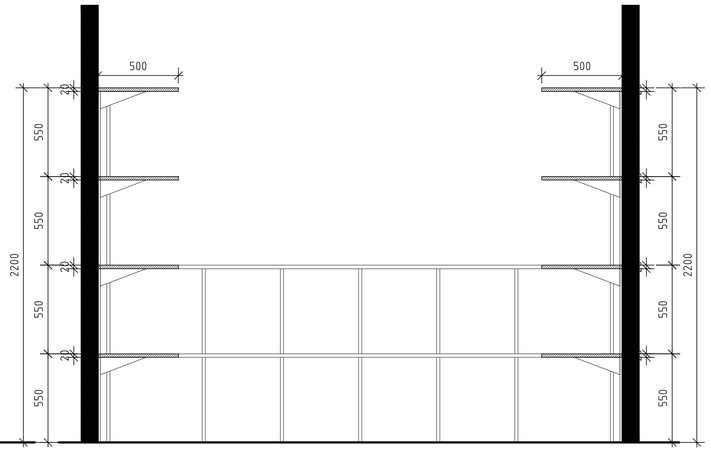
DRAWING No. S100 N-L-101 - REV 006

FOR-TENDER

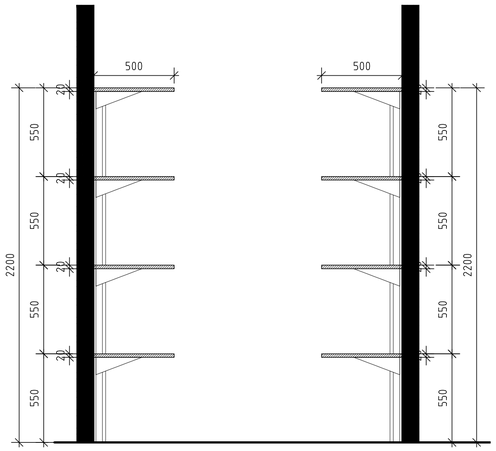
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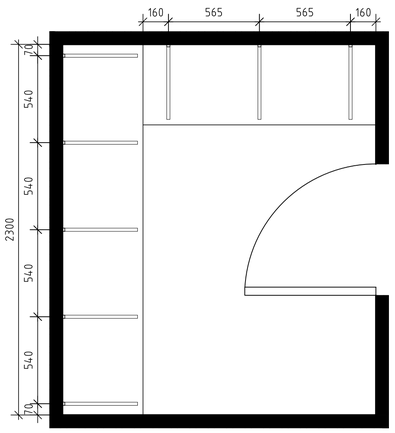
VEG. STORE
SECTION 1-1
SCALE 1 : 20



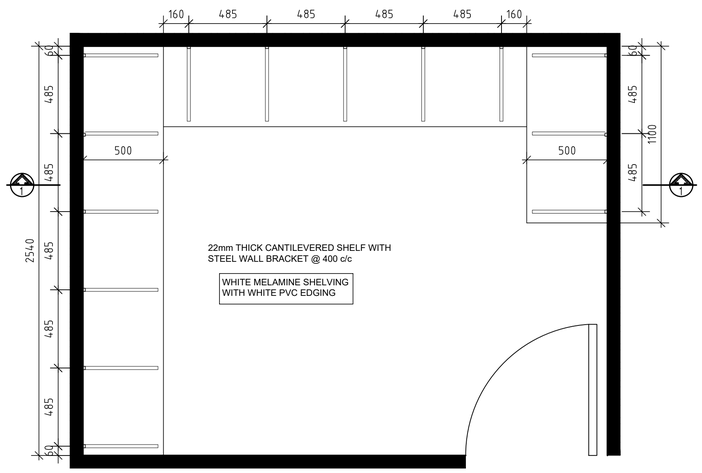
DRY BULK STORE
SECTION 1-1
SCALE 1 : 20



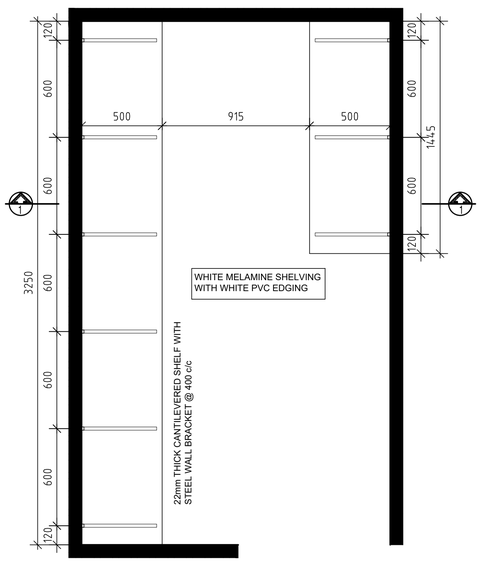
DAY STORE
SECTION 1-1
SCALE 1 : 20



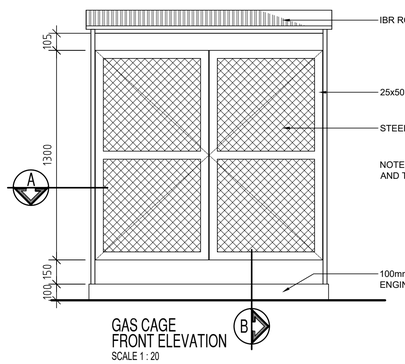
VEG. STORE
PLAN
SCALE 1 : 20



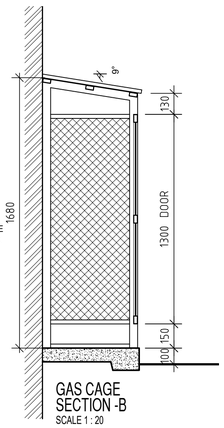
DRY BULK STORE
PLAN
SCALE 1 : 20



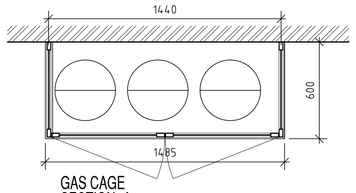
DAY STORE
PLAN
SCALE 1 : 20



GAS CAGE
FRONT ELEVATION
SCALE 1 : 20



GAS CAGE
SECTION -B
SCALE 1 : 20



GAS CAGE
SECTION -A
SCALE 1 : 20

DRAWING No. S100 N-L-102 TYPE

REV 004

REVISIONS: DATE

001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-update shelving	-22-06-2023
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW NUTRITION BLOCK SHELVING & GAS CAGE DETAILS

SCALE · DATE · DRAWN

AS_SHOWN 2019-09-01 TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

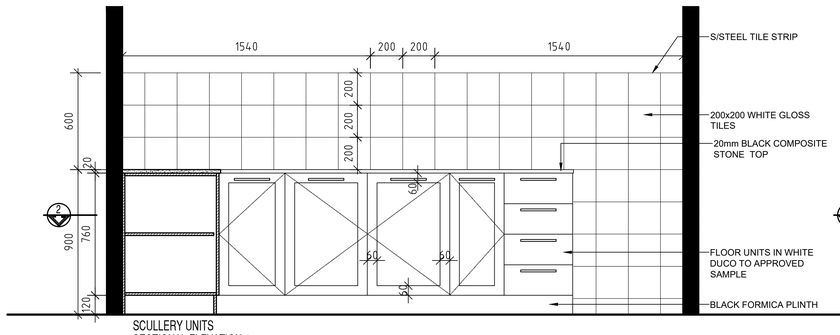
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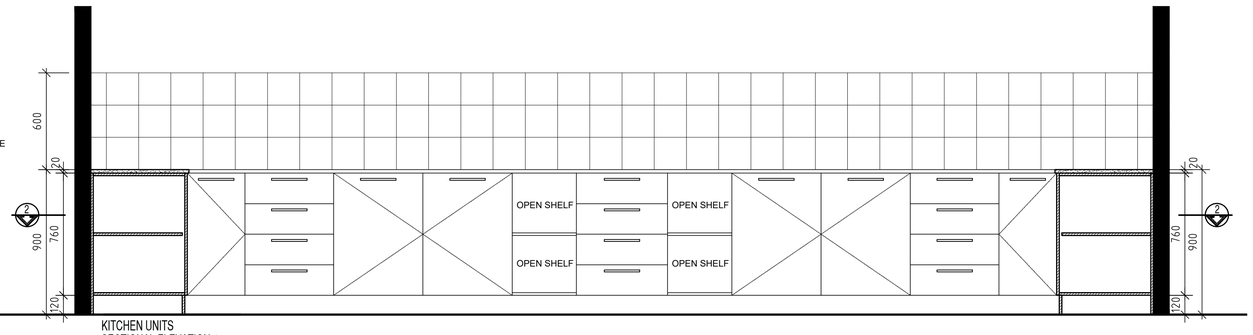
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FOR-TENDER

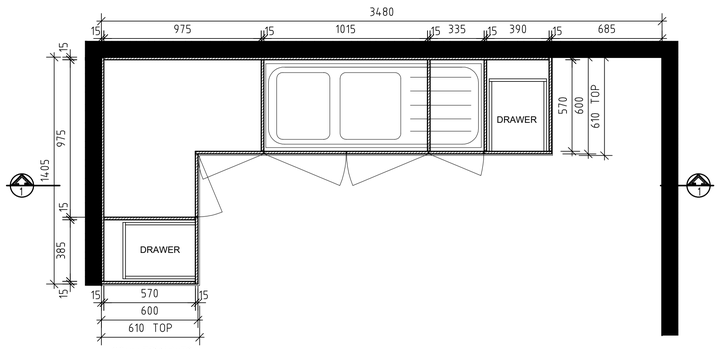
COMP REF: REFERENCE



SCULLERY UNITS
SECTIONAL ELEVATION-1
SCALE 1 : 20



KITCHEN UNITS
SECTIONAL ELEVATION-1
SCALE 1 : 20



SCULLERY UNITS
SECTION 2-2
SCALE 1 : 20



KITCHEN UNITS
SECTION 2-2
SCALE 1 : 20

DRAWING No. S100 N-L-103 TYPE — REV 003

REVISIONS: — DATE

001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW NUTRITION BLOCK
KITCHEN & SCULLERY
DETAILS

SCALE · DATE · DRAWN

AS_SHOWN 2019-09-01 TT

CONTRACTOR

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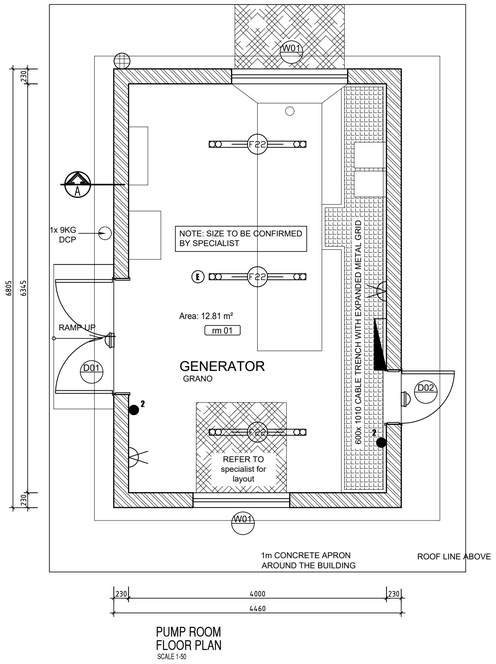
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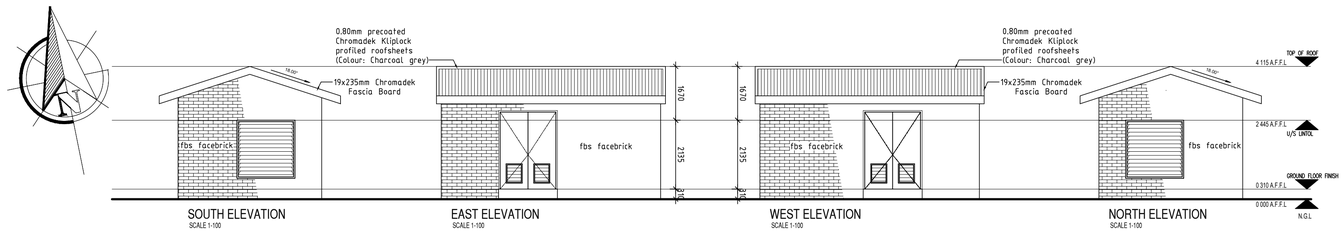
DRAWING No. S100 N-L-103 - — REV 003

FOR-TENDER

COMP REF: REFERENCE



PUMP ROOM
FLOOR PLAN
SCALE 1:50

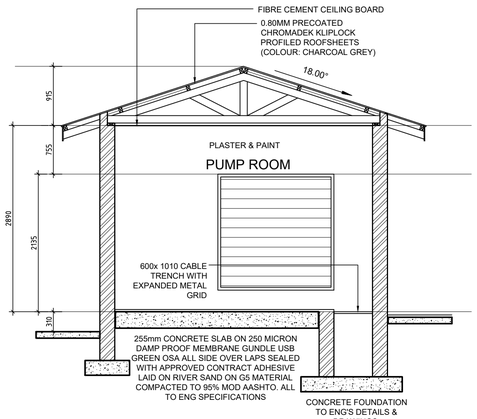


SOUTH ELEVATION
SCALE 1:100

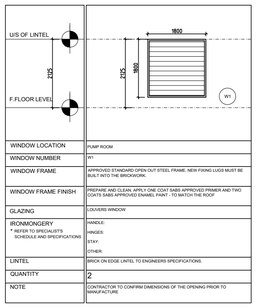
EAST ELEVATION
SCALE 1:100

WEST ELEVATION
SCALE 1:100

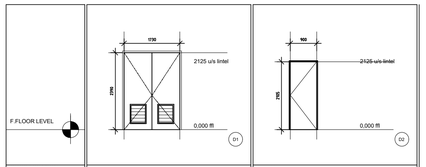
NORTH ELEVATION
SCALE 1:100



SECTION A-A
SCALE 1:50



WINDOW LOCATION	PUMP ROOM
WINDOW NUMBER	W1
WINDOW FRAME	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.
WINDOW FRAME FINISH	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - TO MATCH THE ROOF
GLAZING	LOUVERS WINDOW
IRONMONGERY * REFER TO SPECIALISTS SCHEDULE AND SPECIFICATIONS	HANDLE: HINGES: STAY: OTHER:
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.
QUANTITY	2
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE



DOOR LOCATION	PUMP ROOM	PUMP ROOM
DOOR NUMBER	D1	D1
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.
FRAME SETTING OUT	CENTER OF WALL	CENTER OF WALL
DOOR FRAME FINISH	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO MATCH THE ROOF COLOUR	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO MATCH THE ROOF COLOUR
ARCHITRAVE	NONE	NONE
DOOR LEAF	STEEL TRANSFORMER DOOR WITH LOUVRES	STEEL TRANSFORMER DOOR
DOOR LEAF FINISH	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO MATCH THE ROOF COLOUR	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO MATCH THE ROOF COLOUR
GLAZING	NONE	NONE
IRONMONGERY * REFER TO SPECIALISTS SCHEDULE AND SPECIFICATIONS	AS PER MANUFACTURES SPEC.	AS PER MANUFACTURES SPEC.
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.
QUANTITY	01	01
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE

DRAWING No. S100 PR-L-100 TYPE — REV 001

REVISIONS: — DATE

001 -issued for tender -10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

- ALL WORK TO COMPY WITH NATIONAL BUILDING REGULATIONS.
- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

THIS DRAWING REMAINS COPYRIGHT OF THE DESIGNERS AND MAY NOT BE REPRODUCED WITHOUT PRIOR CONSENT

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PRO-SERVE CONSULTING
positive impact today... for tomorrow

CLIENT · PROJECT

IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW PUMP ROOM PLANS, ELEVATIONS AND SECTION

SCALE	DATE	DRAWN
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

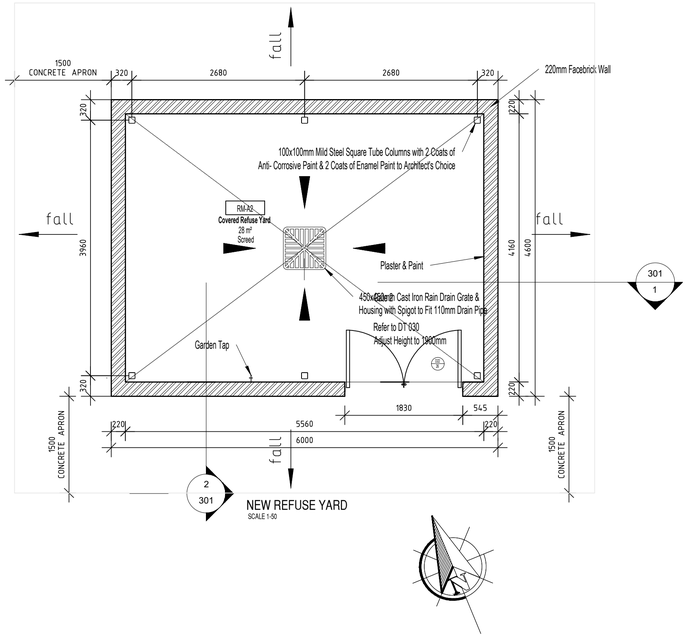
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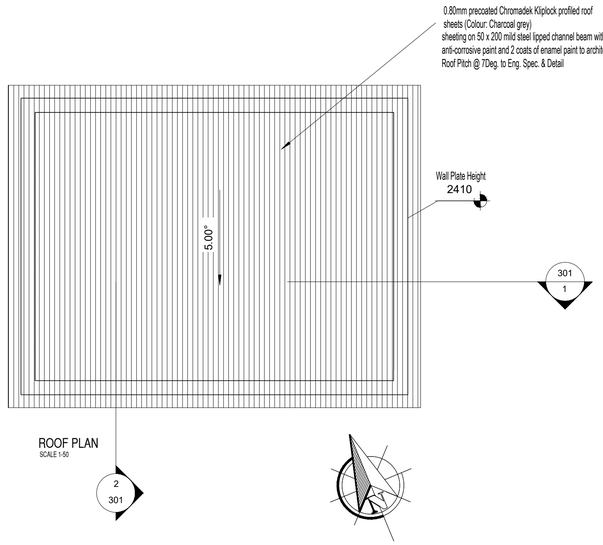
DRAWING No. S100 PR-L-100 - REV 001

FOR-TENDER

COMP REF: REFERENCE



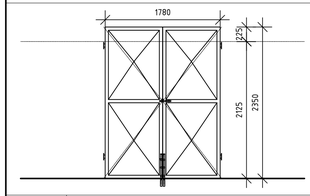
NEW REFUSE YARD
SCALE 1-50



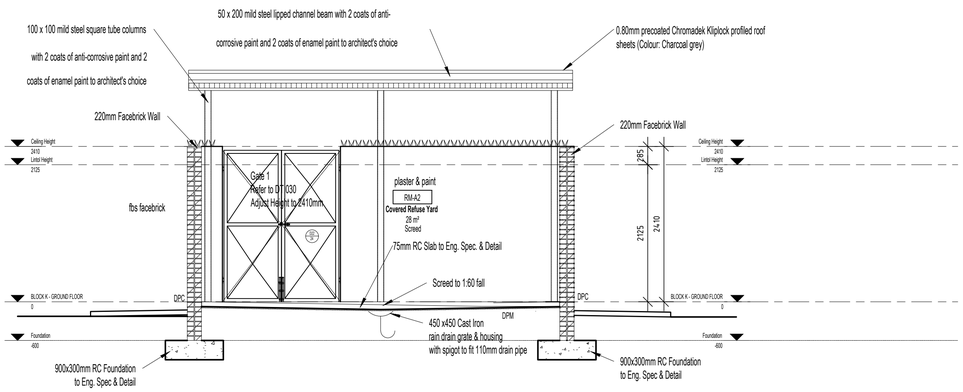
ROOF PLAN
SCALE 1-50

BLOCK K - DOOR SCHEDULE

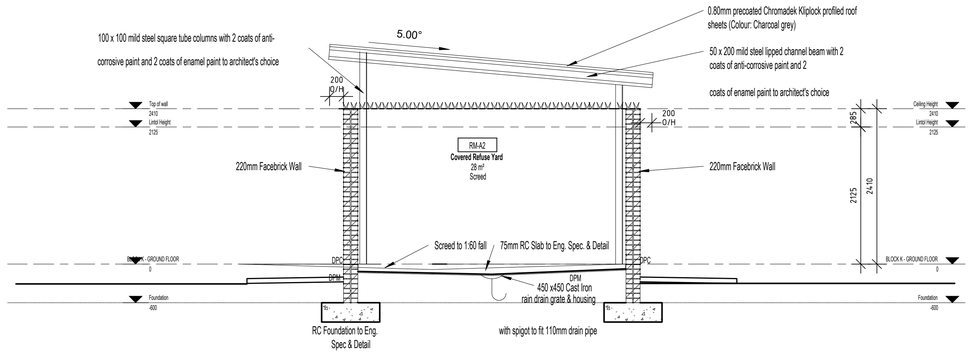
D-22



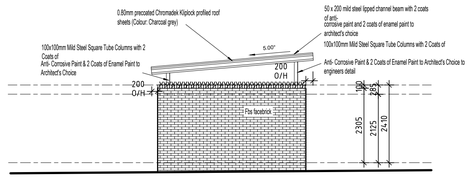
ITEM	DESCRIPTION	
DOOR FRAME	MANUFACTURER DETAIL	
DOOR FRAME FINISH	MANUFACTURER DETAIL	
DOOR PANEL	MANUFACTURER DETAIL	
DOOR FINISH	MANUFACTURER DETAIL	
LOCATION & QUANTITY	COVERED REFUSE YARD:	1
	TOTAL ITEMS:	1
IRONMONGERY		
OVERALL DOOR DESCRIPTION		



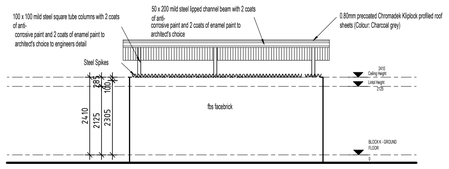
SECTION 1
SCALE 1-50



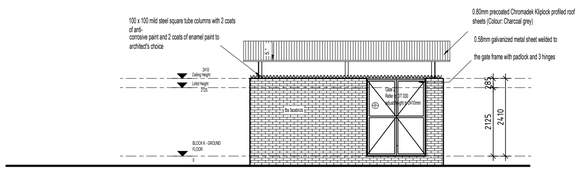
SECTION 2
SCALE 1-50



EAST ELEVATION
SCALE 1-100



NORTH ELEVATION
SCALE 1-100



SOUTH ELEVATION
SCALE 1-100

				REFUSE YARD			
				K101			
WALLS FLOOR	1	TERMITE POISON		1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	2.13 of specification with 50mm sand over poison.
	2	COMPACTED FILL		2	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	3	75MM CONCRETE SURFACE BED		3	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	
	4	GRANOLITE		4	All STORE ROOMS and PLANT ROOMS: SMOOTH GRANOLITE on screed free of dents and bumps.	
	5	PLASTER AND PAINT		5	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two	
	6	ROOF SHEETING		6	CHROMADEK ROOF SHEETING: 0.8mm thick and 1225mm wide with KLIP- Tite or Klip Lok clamping or similar	Acceptable colours: Gemsbok Sand, Kalahari Red, Aloe Green and Azure Blue.
	7	RAIN DRAIN		7	400mm X 400mm rain drain with spigot to fit 110mm drain pipe.	

COVERED REFUSE YARD

DRAWING No. S100 R-L-100 TYPE 006 REV

REVISIONS:		DATE
001	-ADD CONCRETE APRON	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update elevations ground slope	-20-08-2020
005	-update title -issue for tender	-20-08-2020
006	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW REFUSE BLOCK
PLAN, ELEVATIONS, SECTIONS
AND SCHEDULES

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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DRAWING No. S100 R-L-100 - 006 REV

FOR-TENDER

COMP REF: REFERENCE

Project: - IKANENG SECONDARY SCHOOL

SANITARY SCHEDULE

Date:22-06-2023

Revision: 2

BALEBOGILE-TSHOLO CONSULTING

architecture. Project managers and town planners

p.o. box 14005, lyttelton, 0140.

2008/112387/23

cell: 0721888462 email: twala@balebogile.com

AREA 1 GUARD HOUSE

ITERM	MANUFACTURE	DESCRIPTION	CODE	QUANTITY
1. HWB	plum-it	Basin Wall-Hung Duravit D-Code Rectangular 360mmx270mm with Over	DUR-0705360008	1
2.HWB MIXER	LEROY	BASIN MIXER SINGLE LEVER RELISH chrome	51-wt-11D	1
3.HWB WASTE PLUG	Cobra	Basin waste pop up plug	302	1
4.P TRAP	plum-it	P-trap black	-	1
5. SINK	plum-it	Sink Sit-On Stainless Steel Franke Trendline 711 Single Bowl 800mmx460	FRA-1030001	1
6. SINK MIXER	Builders	Splashworks Flair Deck Type P Spout Sink Mixer	-	1
12. WC	Vaal sanitary	STANDARD White PORCELAIN WC	439500	1
13. WC SEAT	TBC	WHITE TIMBER GLOSS COAT ED single flap seat.	-	1
14. Flush valve	TBC	Low Pressure Flush Master Valve.	-	1
9. GARDEN TAP	TBC	Refuse area tap	TBC	1
10. FLOOR DRAIN	TBC	Gulley	TBC	1
11.TOILER PAPER HOLDER	BOBRICK	Toilet paper holder	B-4288	1
12.HAND TOWEL HOLDER	GELMAR	Hand towel holder	7300	1
13.SOAP DISPENSER	BOBRICK	Soap dispenser	B-2111	1
14.WASTE BIN	BOBRICK	Waste bin	B-277	1
15.ROBE HOOK	GELMAR	Robehook chrome	3016	1

AREA 2 LIBRARY

ITERM	MANUFACTURE	DESCRIPTION	CODE	QUANTITY
1.BASIN	-	laboratory basin	-	15
2.BASIN MIXER	CTM	ITD Black Katiki Sink Mixer Tap BY CTM	-	15
3.DRINKING TAP	TBC	FOUNTAIN TAP	-	3

4. SINK	CTM	Sink Sit-On Stainless Steel Franke Trendline 711 Single Bowl 800mmx460	-	1
5. SINK MIXER	CTM	ITD Chrome Katiki Sink Mixer Tap	-	1
6.HWB WASTE PLUG	Cobra	Basin waste pop up plug	302	16
4.P TRAP	plum-it	P-trap black	-	16
AREA 3	**SPORTS**			
ITERM	MANUFACTURE	DESCRIPTION	CODE	QUANTITY
1. HWB	BATHROOM BIZARRE	ORIZA 480*400*215MM U/MOUNT BASIN	TR-S006	6
2.HWB MIXER	LEROY	BASIN MIXER SINGLE LEVER RELISH chrome	51-wt-11D	6
3.HWB WASTE PLUG	Cobra	Basin waste pop up plug	302	10
4.HWB P TRAP	TBC	P trap black (T.B.C)	TBC	13
5. URINAL	plum-it	Urinal Solo Cayman Top Entry White	MAC-201098	3
6. URINAL P-TRAP	plum-it	P-TRAP BLACK	TBC	3
5. SHOWER MIXER	plum-it	Mixer Hansgrohe Vernis chrome	HG-71649670	7
6.SHOWER WASTE	CTM	Tourbillon square shower waste	WRSW005	8
7. SHOWER ROSE	plumblink	Shower rose vandal master shower head	30799	8
8. DISABLE SHOWER	plum-it	Rail Set Shower Hansgrohe Raindance	HG-26620000	1
9. DIS SHOWER MIXER	plum-it	Shower / Bath Diverter Mixer Franke Aspera Round chrome	FRA-2150023	
9. DIS SHOWER SEAT	Railman	Wall mounted shower seat	XS	1
8. WASH TROUGH	BUILDERS	Franke Economy ET101 Single S/S (540 x 455mm)	TBC	1
9. WASH TROUGH	LEROY	Plastic Black 40lt Wash-trough C/w Waste & Bracket Set	TBC	1
9. WASH TROUGH TAPS	LEROY	SINK MIXER WALL TYPE SINGLE LEVER RELISH MATT BLACK	2067	2
9. WASH TROUGH P-TRAP	TBC	P trap black (T.B.C)	TBC	2
12. WC	Vaal sanitary	STANDARD White PORCELAIN WC	439500	4
13. WC SEAT	TBC	WHITE TIMBER GLOSS COAT ED single flap seat.	-	4
14. Flush valve	TBC	Low Pressure Flush Master Valve.	-	14
10. RAIL	Railman	Cistern rail	SR-1	2
11. RAIL	Railman	Straight rail	SR3	2
12. RAIL	Railman	Grab rail	DL 3	2
8.TOILER PAPER HOLDER	BOBRICK	Toilet paper holder	B-4288	4
9.HAND TOWEL HOLDER	BOBRICK	Hand towel holder	B-2890	3

10.SOAP DISPENSER	BOBRICK	Soap dispenser	B-2111	6
11.WASTE BIN	BOBRICK	Waste bin	B-277	3
12.ROBE HOOK	GELMAR	Robehook chrome	3016	6

AREA 4 TOILETS

ITERM	MANUFACTURE	DESCRIPTION	CODE	QUANTITY
1. HWB	BATHROOM BIZARRE	ORIZA 480*400*215MM U/MOUNT BASIN	TR-S006	12
2.HWB MIXER	plum-it	TAP DEMAND ICON PILLAR 1/2" CHROME BY PLUMB-IT	SPL-TPAU07	12
3.HWB P TRAP	TBC	P trap black	TBC	13
4.HWB WASTE PLUG	Cobra	Basin waste pop up plug	302	13
5. URINAL	plum-it	Urinal Solo Cayman Top Entry White	MAC-201098	7
6. URINAL TRAP	plum-it	P trap black (T.B.C)	TBC	7
7. HWB DISABLED	Vaal sanitary	Hibiscus basin	702603	1
8. BASIN MIXER PARA	Cobra	ELBOW ACTION	LA-95	1
9. RAIL	Railman	Cistern rail	SR-1	1
10. RAIL	Railman	Grab rail	D	1
11. RAIL	Railman	Straight rail (for doors)	SR3	1
12. WC	Vaal sanitary	STANDARD White PORCELAIN WC	439500	14
13. WC SEAT	TBC	WHITE TIMBER GLOSS COAT ED single flap seat.	-	14
14. Flush valve	TBC	Low Pressure Flush Master Valve.	-	14
15.TOILER PAPER HOLDER	BOBRICK	Toilet paper holder	B-4288	14
16.SOAP DISPENSER	BOBRICK	Soap dispenser	B-2111	7
17 .WASTE BIN	BOBRICK	Waste bin	B-277	3
18.ROBE HOOK	GELMAR	Robe Hook, Aluminium	8485	14

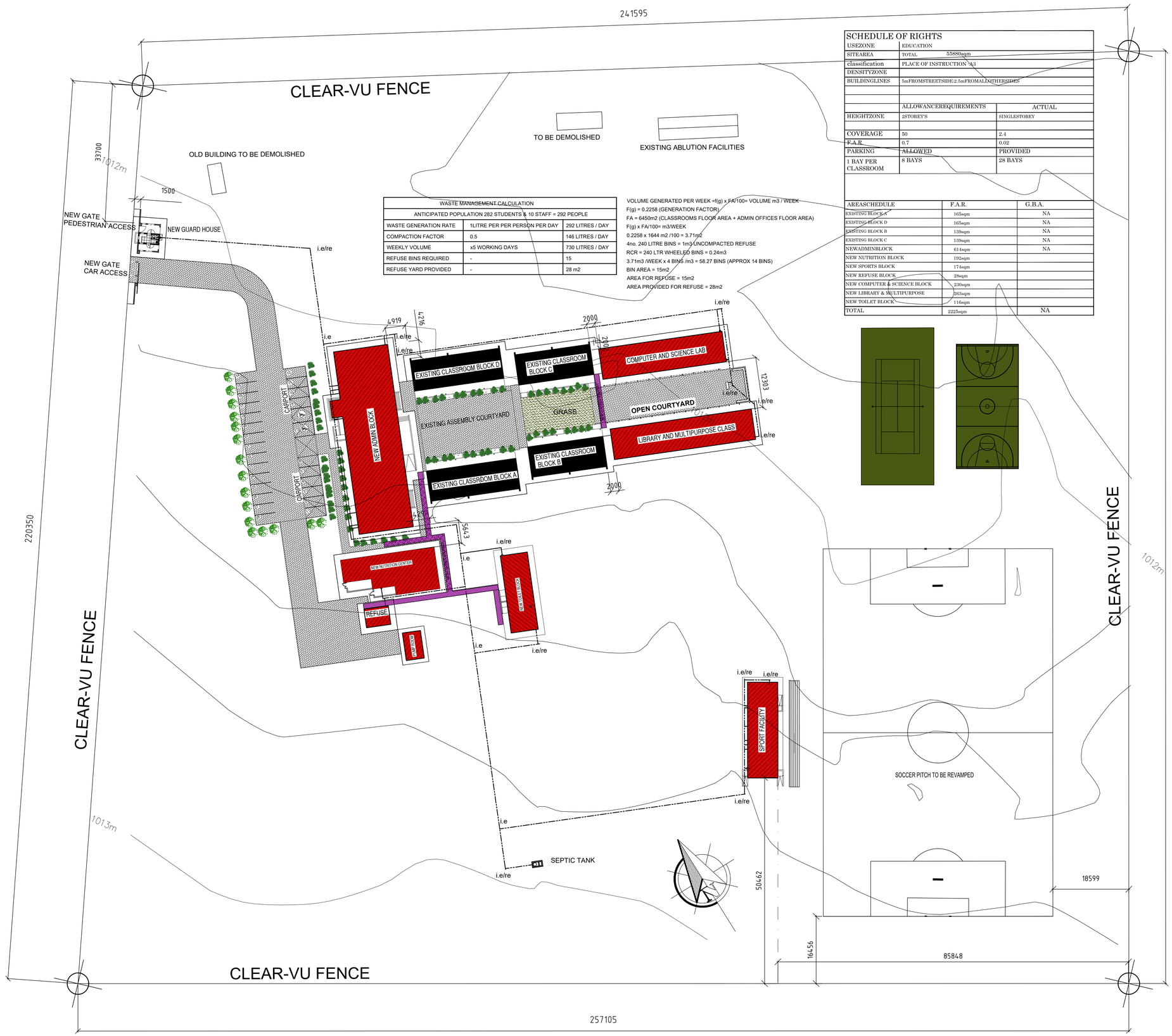
AREA 5 ADMIN BLOCK

ITERM	MANUFACTURE	DESCRIPTION	CODE	QUANTITY
1. HWB DISABLED	Vaal sanitary	Hibiscus basin	702603	2
2. WC PARA	Vaal sanitary	ENERGY WALL HUGH WC PAN	439500	2
3. BASIN MIXER PARA	Cobra	ELBOW ACTION	LA-95	2
3. RAIL	Railman	Cistern rail	SR-1	2
4. RAIL	Railman	Grab rail	D	2

5. RAIL	Railman	Straight rail (for doors)	SR3	2
6.HAND TOWEL HOLDER	BOBRICK	Hand towel holder	B-2890	8
7.SOAP DISPENSER	BOBRICK	Soap dispenser	B-2111	8
8 .WASTE BIN	BOBRICK	Waste bin	B-277	8
8.HAND TOWEL HOLDER	BOBRICK	Hand towel holder	B-2890	8
9.SOAP DISPENSER	BOBRICK	Soap dispenser	B-2111	8
10.ROBE HOOK	GELMAR	Robe Hook, Aluminium	8485	10
11.P TRAP	plum-it	P-Trap black	GIO-A187	13
12.HWB WASTE PLUG	Cobra	Basin waste pop up plug	302	10
13. URINAL	plum-it	Urinal Solo Cayman Top Entry White	MAC-201098	3
14.HWB MIXER	GELMAR	Franke Serenus Basin Mixer	sku:1188	8
15. HWB vanity unit	plum-it	The Tiffany bathroom vanity cabinet 450mm white	-	4
16. double HWB vanity	leroy	Cabinet & Double Basin Free Standing Silhouette White 1200mm	81474878	2
17. WC	Vaal sanitary	STANDARD White PORCELAIN WC	439500	6
18. WC SEAT	TBC	WHITE TIMBER GLOSS COAT ED single flap seat.	-	8
19. Flush valve	TBC	Low Pressure Flush Master Valve.	-	8
20. KITCHEN TAP	plum-it	FRANKE HIGHRISE SWIVEL SINK MIXER, MATT BLACK	TBC	1
21. KITCHEN SINK	GELMAR	FRANKE, TRENDLINE, DROP-ON, DEB, 1200mm x 535mm		1

AREA 6	NUTRITION			
ITERM	MANUFACTURE	DESCRIPTION	CODE	QUANTITY
1. COMMERCIAL SINK	cateringshoponline	Sink Double Bowl 1700mm	-	1
2. SINK	Franke	Genesis double sink	GSX621-120	1
3. SINK MIXER	Franke	Flair Swivel Mixer	303249	3
4. SINK WASTE PLUG	Franke	Waste plug	TBC	5
5. P TRAP	plum-it	P trap black (T.B.C)	TBC	5
6. PREP BOWL	Franke	Kitchen Sink FRANKE Rondo	702603	1
7. GARDEN TAP	LEROY	Garden tap brass 1/2" x 3/4"	SKU 81428935	1
8. FLOOR DRAIN	LEROY	450x450mm Cast Iron Rain Drain Grate		1

AREA 7	EXISTING CLASSROOM			
ITERM	MANUFACTURE	DESCRIPTION	CODE	QUANTITY
AREA 8	**REFUSE ROOM**			
ITERM	MANUFACTURE	DESCRIPTION	CODE	QUANTITY
1. GARDEN TAP	LEROY	Garden tap brass 1/2" x 3/4"	SKU 81428935	1
2.FLOOR DRAIN	LEROY	450x450mm Cast Iron Rain Drain Grate		1



WASTE MANAGEMENT CALCULATION		
ANTICIPATED POPULATION 282 STUDENTS & 10 STAFF = 292 PEOPLE		
WASTE GENERATION RATE	1LITRE PER PER PERSON PER DAY	292 LITRES / DAY
COMPACTION FACTOR	0.5	146 LITRES / DAY
WEEKLY VOLUME	x5 WORKING DAYS	730 LITRES / DAY
REFUSE BINS REQUIRED	-	15
REFUSE YARD PROVIDED	-	28 m2

VOLUME GENERATED PER WEEK =f(g) x FA/100= VOLUME m3 / WEEK
F(g) = 0.2258 (GENERATION FACTOR)
FA = 6450m2 (CLASSROOMS FLOOR AREA + ADMIN OFFICES FLOOR AREA)
F(g) x FA/100= m3/WEEK
0.2258 x 1644 m2 /100 = 3.71m2
4no. 240 LITRE BINS = 1m3 UNCOMPACTED REFUSE
RCR = 240 LTR WHEELED BINS = 0.24m3
3.71m3 /WEEK x 4 BINS /m3 = 58.27 BINS (APPROX 14 BINS)
BIN AREA = 15m2
AREA FOR REFUSE = 15m2
AREA PROVIDED FOR REFUSE = 28m2

SCHEDULE OF RIGHTS		
USEZONE	EDUCATION	
SITEAREA	TOTAL 55880sqm	
classification	PLACE OF INSTRUCTION A3	
DENSITYZONE		
BUILDINGLINES	5mFROMSTREETSIDE;2.5mFROMALLOTHERSIDES	
	ALLOWANCEREQUIREMENTS	ACTUAL
HEIGHTZONE	2STOREY'S	SINGLESTOREY
COVERAGE	50	2.4
F.A.R	0.7	0.02
PARKING	ALLOWED	PROVIDED
1 BAY PER CLASSROOM	8 BAYS	28 BAYS

AREASCHEDULE	F.A.R.	G.B.A.
EXISTING BLOCK A	165sqm	NA
EXISTING BLOCK D	165sqm	NA
EXISTING BLOCK B	139sqm	NA
EXISTING BLOCK C	139sqm	NA
NEWADMINBLOCK	614sqm	NA
NEW NUTRITION BLOCK	192sqm	
NEW SPORTS BLOCK	174sqm	
NEW REFUSE BLOCK	28sqm	
NEW COMPUTER & SCIENCE BLOCK	230sqm	
NEW LIBRARY & MULTIPURPOSE	263sqm	
NEW TOILET BLOCK	116sqm	
TOTAL	2225sqm	NA

DRAWING No. S100 SDP-L-100 TYPE 005 REV

REVISIONS:		DATE
001	-ADD CONCRETE APRON -CHANGE FENCE SPEC.	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update title -issue for tender	-11-09-2022
005	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL.
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

SITE DEVELOPMENT PLAN

SCALE	DATE DRAWN	
1:500	2019-09-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

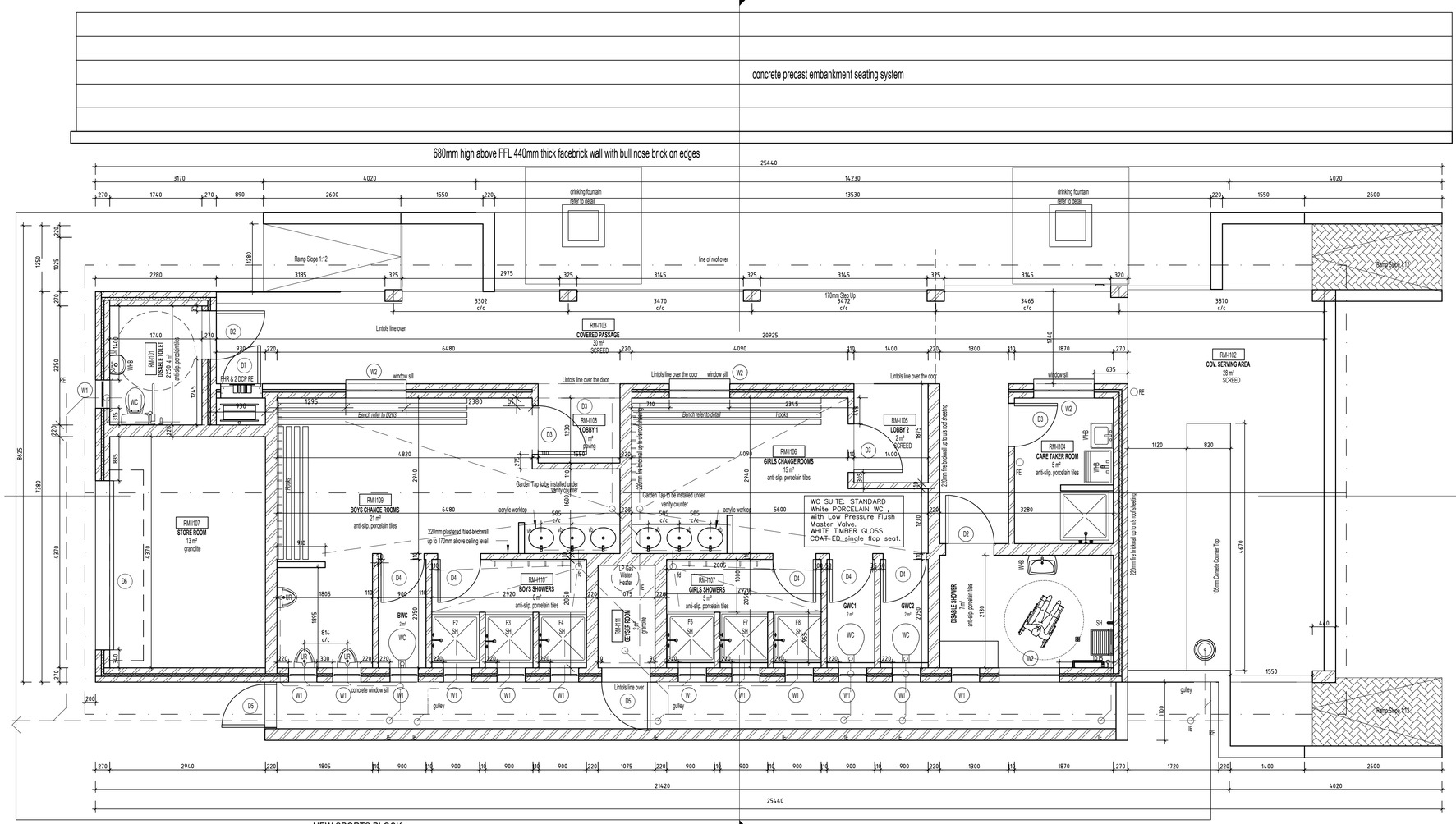
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DRAWING No. S100 SDP-L-100 - REV 005

FOR-TENDER

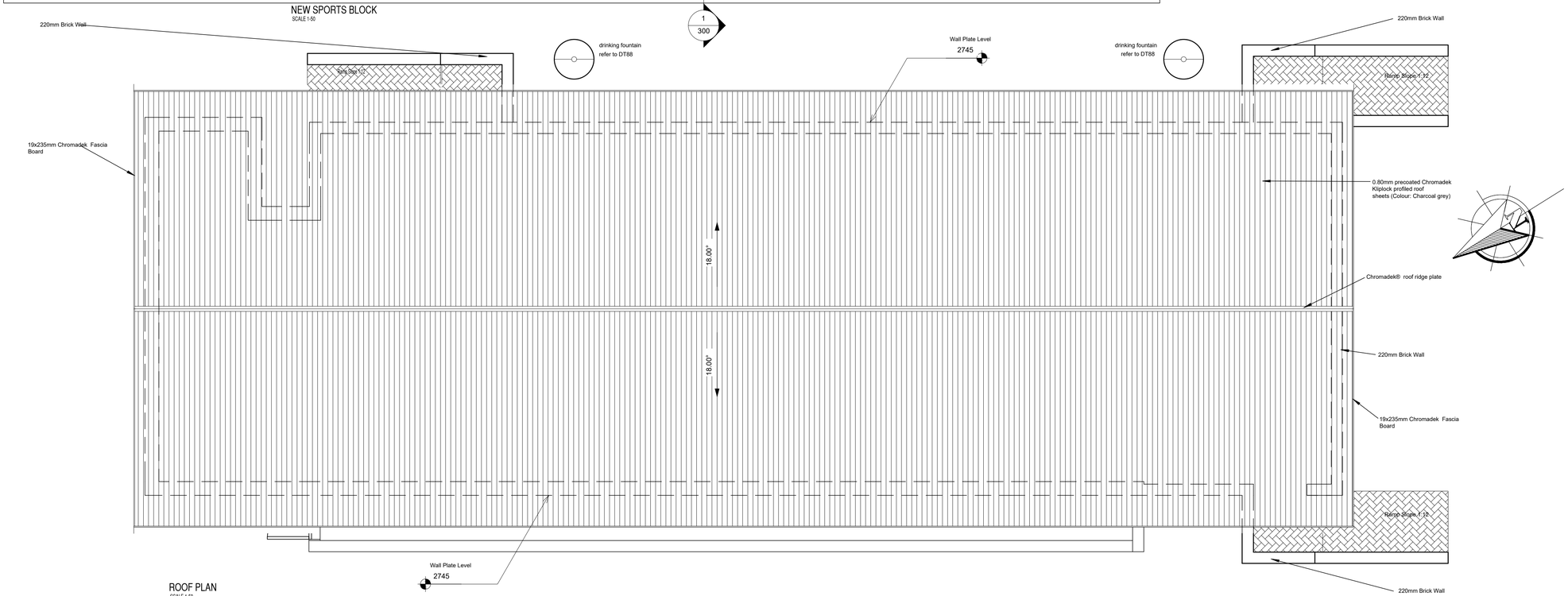
COMP REF: REFERENCE



BLOCK I - ROOM SCHEDULE

Number	Name	Area	Floor Finish
I101	DISABLE TOILET	4 m²	anti-slip. porcelain tiles
I102	COV. SERVING AREA	28 m²	paving
I103	COVERED PASSAGE	30 m²	paving
I104	CARE TAKER ROOM	12 m²	anti-slip. porcelain tiles
I104-1	TWC	2 m²	anti-slip. porcelain tiles
I104-2	TSH	2 m²	anti-slip. porcelain tiles
I105	LOBBY 2	2 m²	paving
I106	GIRLS CHANGE ROOMS	15 m²	anti-slip. porcelain tiles
I106-1	GWC1	2 m²	anti-slip. porcelain tiles
I106-2	GWC2	2 m²	anti-slip. porcelain tiles
I107	STORE ROOM	13 m²	granolite
I107	GIRLS SHOWERS	5 m²	anti-slip. porcelain tiles
I108	LOBBY 1	2 m²	paving
I109	BOYS CHANGE ROOMS	21 m²	anti-slip. porcelain tiles
I109-1	BWC	2 m²	anti-slip. porcelain tiles
I110	BOYS SHOWERS	6 m²	anti-slip. porcelain tiles
I111	GEYSER ROOM	2 m²	granolite
Grand total		148 m²	

NEW SPORTS BLOCK
SCALE 1:50



ROOF PLAN
SCALE 1:50

REVISIONS:

		DATE
001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update title -issue for tender	-11-09-2022
004	-update shedule numbering	-22-06-2023
005	-issued for tender	-10-07-2023

PLUMBING-NOTES

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GENERAL-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK
FLOOR AND ROOF PLAN

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

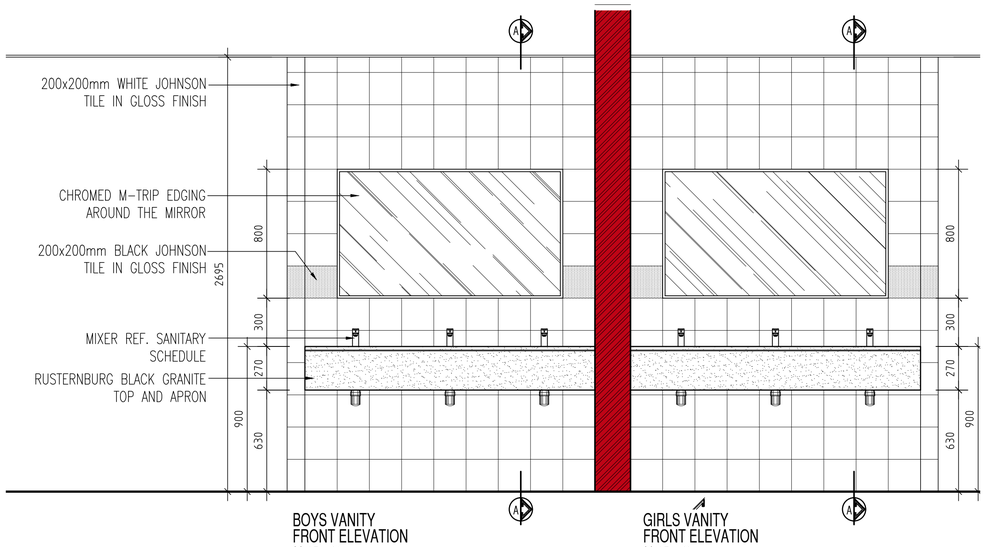
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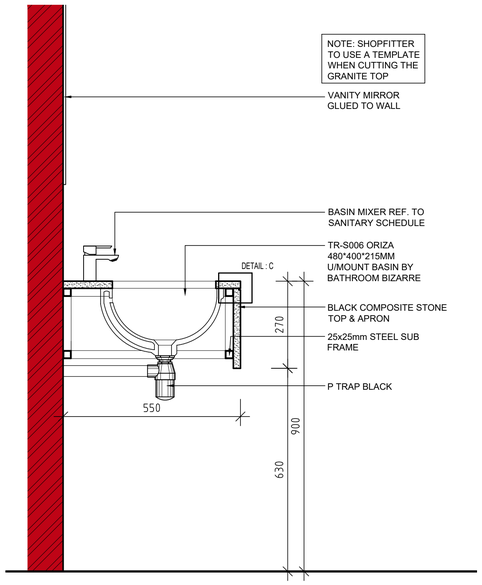
DRAWING No. S100 S-L-100 - REV 005

FOR-TENDER

COMP REF: REFERENCE



BOYS VANITY
FRONT ELEVATION
SCALE 1 : 20

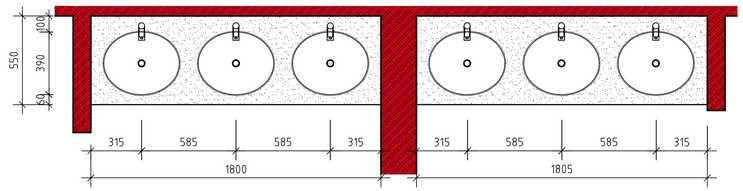


TYPICAL VANITY
SECTION A-A
SCALE 1 : 10



DETAIL : C
SCALE 1 : 5

GIRLS VANITY
FRONT ELEVATION
SCALE 1 : 20



BOYS VANITY
PLAN
SCALE 1 : 20

GIRLS VANITY
PLAN
SCALE 1 : 20

SPORTS BLOCK

			GIRLS CHANGE	BOYS CHANGE	DISABLED TOILET	DISABLED SHOWER	STORE ROOM	CARE TAKER ROOM	GEYSER ROOM	COVERED PASSAGE			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎	◎	◎	◎	◎	◎	1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎	◎	◎	◎	◎	◎	2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES	◎	◎	◎	◎		◎			3.1	600x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	MOSAIC TILE SHOWER FLOOR	◎	◎							3.2	Mosaic Tile Porcelain Hilton L30cm x W30cm non slip by leroy All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	3.3	MERANTI SKIRTING BOARD									3.3	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	4	COMPACTED FILL	◎	◎	◎	◎	◎	◎	◎	◎	4	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	5	GRANOLITE					◎		◎	◎	5	SMOOTH GRANOLITE on screed free of dents and bumps. with clear seal	
	6	MOSAIC (SHOWER)	◎	◎		◎					6	Alaska Resin Mosaic - 300 x 300mm	
WALLS	7	PLASTER AND PAINT	◎	◎	◎	◎	◎	◎	◎	◎	7	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two final (washable)	color to architects approval
	8	GRANITE WORKTOP	◎	◎							8	22mm thick RUSTENBURG STONE, to be used in wet areas only.	
	9	WINDOW FINISH	◎	◎	◎	◎	◎	◎	◎	◎	9	Frosted glass on windows	
	10	WALL TILES (white)	◎	◎	◎	◎		◎	◎		10	200x200mm WHITE JOHNSON TILE IN GLOSS FINISH	
	11	WALL TILES (black)	◎	◎	◎	◎		◎	◎		11	200x200mm BLACK JOHNSON TILE IN GLOSS FINISH	
CEILINGS	12	CEILING INSULATION	◎	◎	◎	◎	◎	◎	◎	◎	12	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	13	FIBRE CEMENT CEILING BOARDS	◎	◎	◎	◎	◎	◎	◎	◎	13	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards painted in white acrylic paint	to architects approval
	14	CORNICE	◎	◎	◎	◎	◎	◎	◎	◎	14	ACRYLIC COVE CORNICE 55 x 55mm	

DRAWING No. S100 S-L-104 TYPE 004 REV

REVISIONS: DATE

001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-add finishes schedule	-22-06-2023
004	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK
VANITY DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

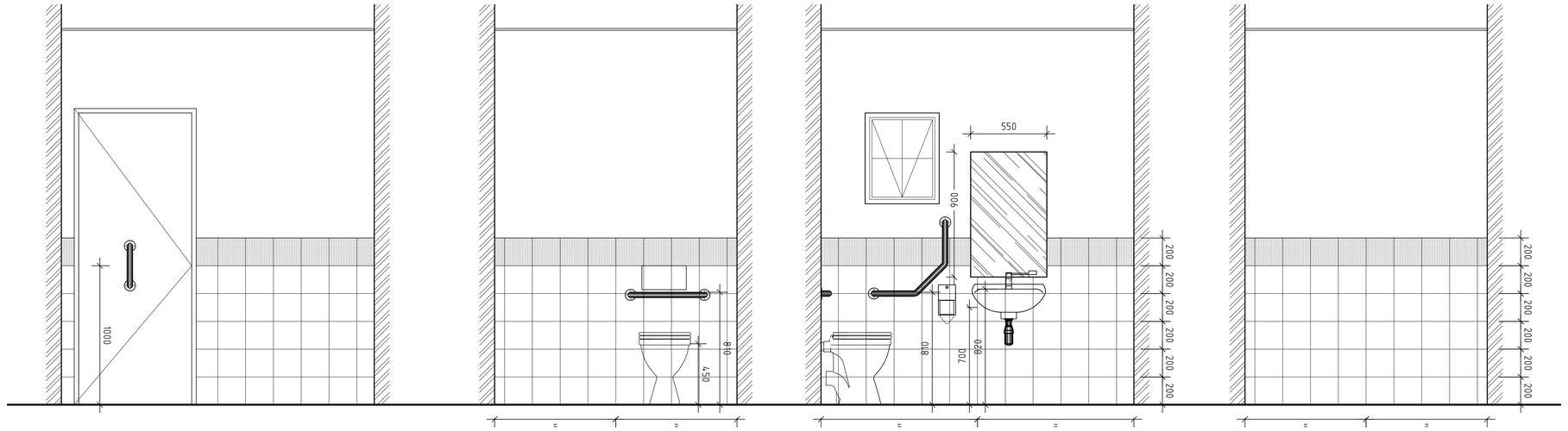
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DRAWING No. S100 S-L-104 - 004 REV

FOR-TENDER

COMP REF: REFERENCE

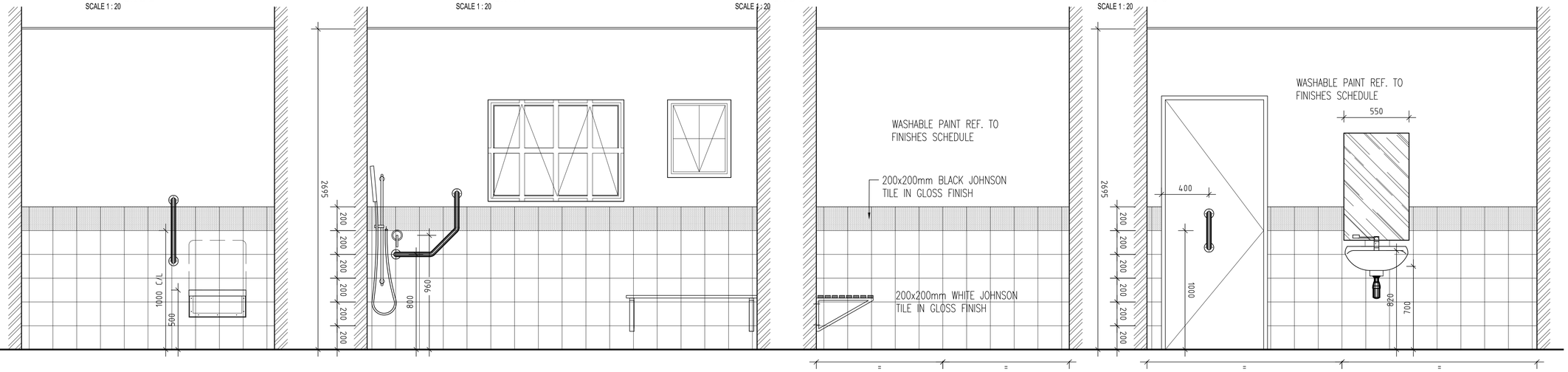


ELEVATION B-B
SCALE 1 : 20

ELEVATION A-A
SCALE 1 : 20

ELEVATION D-D
SCALE 1 : 20

ELEVATION C-C
SCALE 1 : 20

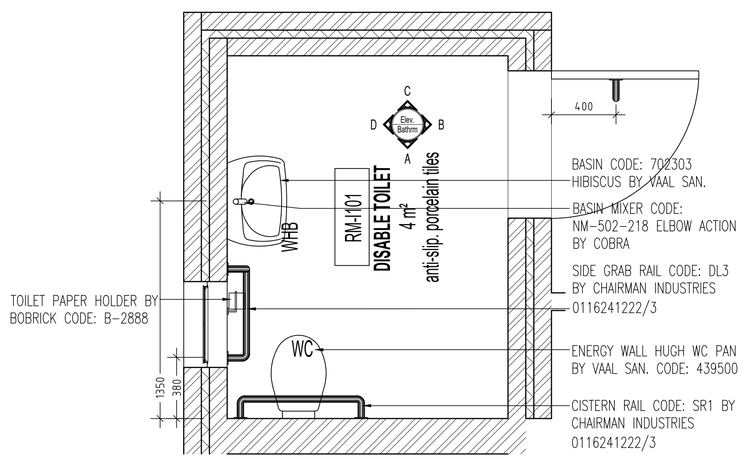


ELEVATION 4-4
SCALE 1 : 20

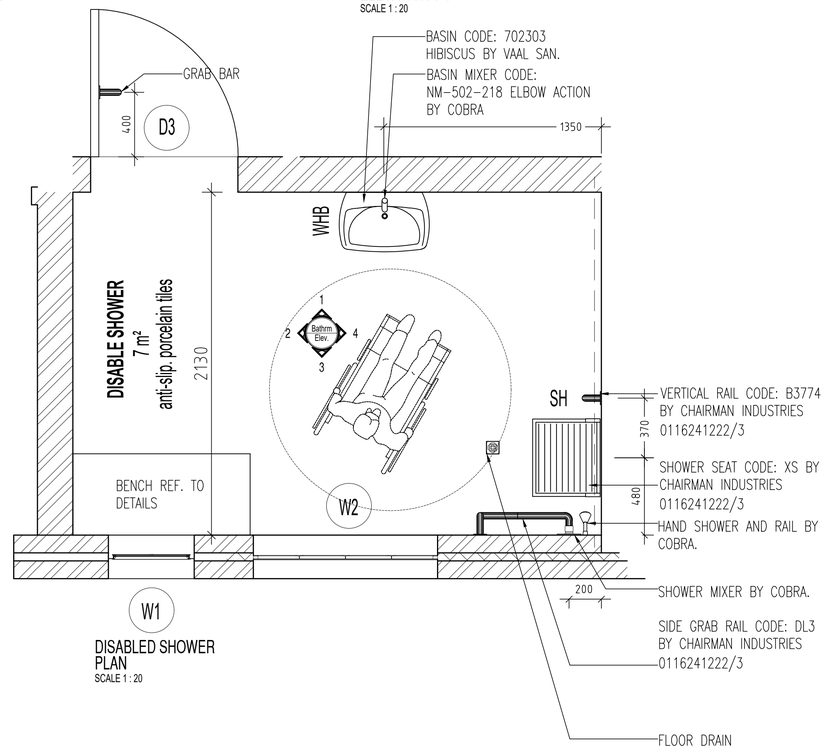
ELEVATION 3-3
SCALE 1 : 20

ELEVATION 2-2
SCALE 1 : 20

ELEVATION 1-1
SCALE 1 : 20



DISABLED TOILET PLAN
SCALE 1 : 20



DISABLED SHOWER PLAN
SCALE 1 : 20

DRAWING No. S100 S-L-106 TYPE — REV 002

REVISIONS: — DATE

001	-update title -issue for tender	-12-12-2022
002	-issued for tender	-10-07-2023

PLUMBING-NOTES

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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK DISABLED TOILETS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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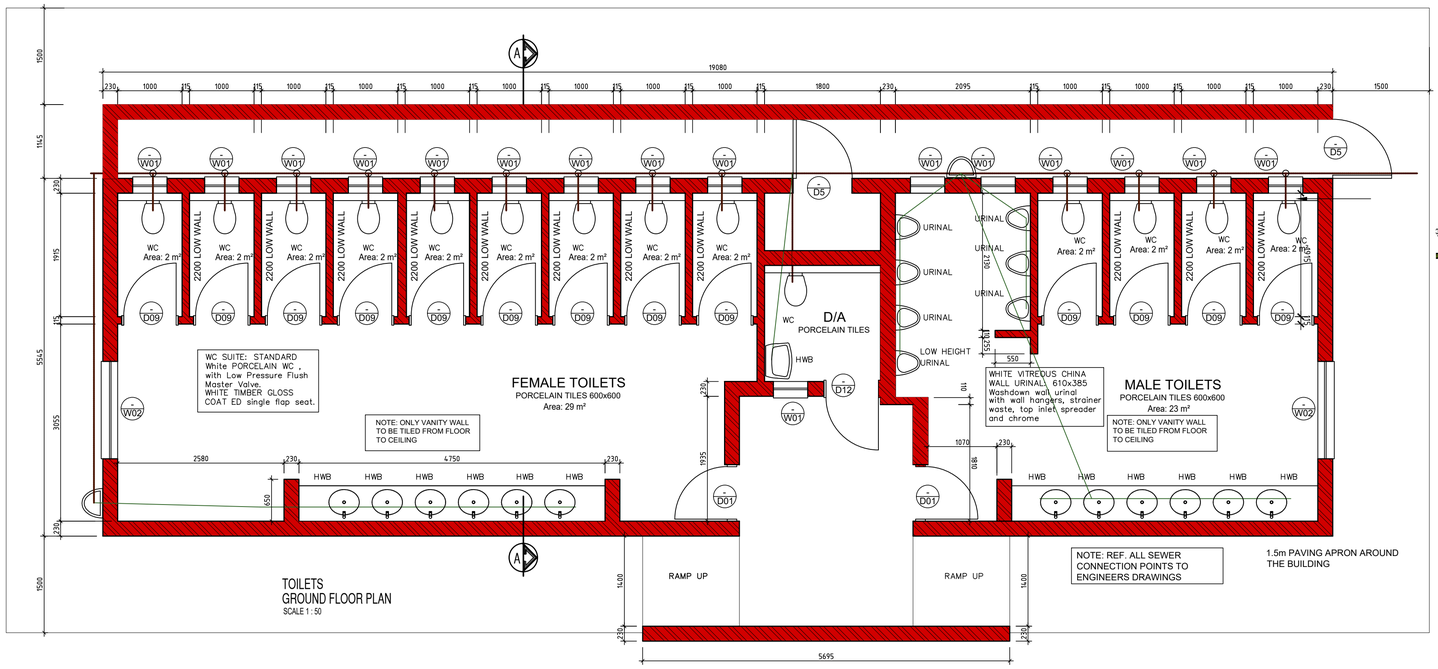
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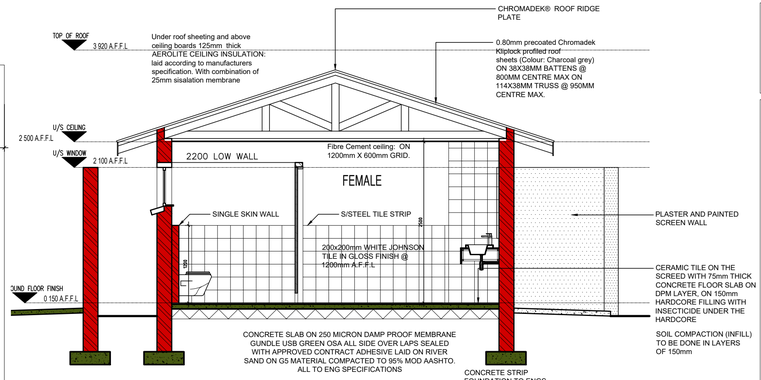
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DRAWING No. S100 S-L-106 - — REV 002

FOR-TENDER

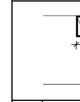
COMP REF: REFERENCE

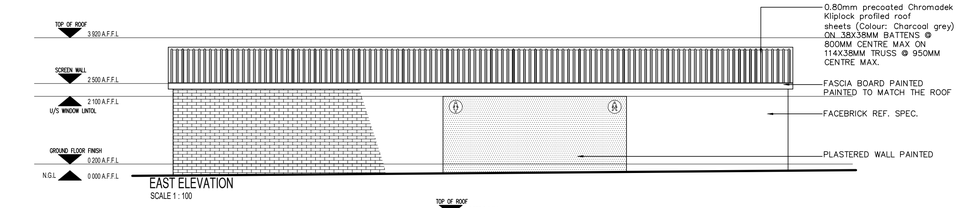


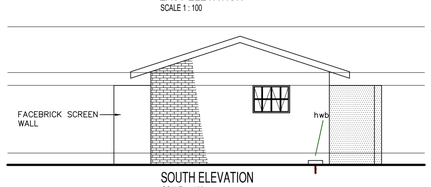


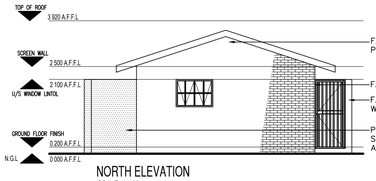
SECTION A-A
SCALE 1 : 50

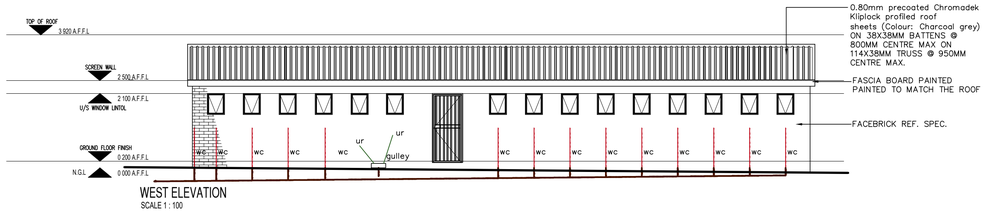
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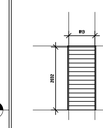
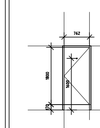
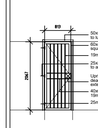
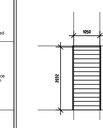
	W1	W-2-TH
		
ITEM	DESCRIPTION	DESCRIPTION
WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME	COTTAGE SECTION MILD STEEL WINDOW FRAME
WINDOW FRAME PAINT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY: ARCHITECT	2 x COAT OF PRIMER FOR MILD STEEL ELEMENTS 2 x COATS OF COLOUR ENAMEL APPROVED BY: ARCHITECT
WINDOW LEAF		
GLAZING	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH APPROVED STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS	6mm thick FROSTED/OBSCURED GLASS FIXED INTO FRAME WITH APPROVED STANDARD PUTTY IN ABLUTIONS/TOILETS AND STORE ROOMS
BURGLAR BARS	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME	20mm WIDE BY 4mm THICK MILD STEEL FLAT BARS WELDED TO FRAME
LOCATION & QUANTITY	MALE TOILET 7 FEMALE TOILET 11 TOTAL ITEMS 18	MALE TOILET 1 FEMALE TOILET 1 TOTAL ITEMS 2
IRONMONGERY		IRONMONGERY
OVERALL WINDOW DESCRIPTION		OVERALL WINDOW DESCRIPTION









	F.FLOOR LEVEL				
					
		2125 u/s lintel 0.000 ffl 03	2125 u/s lintel 0.000 ffl 04	50x50x3mm angle iron frame welded to lug and built in. 60x40x3mm MS steel security mortice deadlock. 10mm Ø steel rods at 110 centres. 25x25x3mm Lug welded to angle iron and built in. Upright double throw security mortice deadlock in steel plate housing with extended cover plate. Welded horizontal supports with 10mm Øholes for vertical rods. 25mmØ x60mm Long pin hinge. NB: all DUCTS, steel gates to be fixed/welded with 6mm expanded steel mesh to the inside of the gate. 05	2125 u/s lintel 0.000 ffl 03
DOOR LOCATION	TOILET ENTRANCE	BOYS & GIRLS WC CUBICLE	AS SHOWN ON PLANS	DISABLE TOILET	
DOOR NUMBER	D1	D8	D5	D12	D9
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 110mm INTERNAL WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x50x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO GDE DETAIL DT30 FRAME TO ALLOW FOR 90° SWING	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	
FRAME SETTING OUT	CENTER OF WALL	CENTER OF WALL	OUTSIDE OF WALL	CENTER OF WALL	
DOOR FRAME FINISH	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT. TO ARCHITECTS SPECIFICATIONS	
ARCHITRAVE	NONE	NONE	NONE	NONE	
DOOR LEAF	STANDARD 3032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STANDARD 762mm x 2032mm x 40mm SOLID FLUSH PANEL DOOR WITH SANDBOARD BOTH SIDES	D EDE DETAIL DT30	STANDARD 3032 HIGH x 1000mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	SAND DOWN AND PREPARE, APPLY ONE COAT PRIMER AND ONE COAT APPROVED PVA PAINT	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	
GLAZING	NONE	NONE	NONE	NONE	
IRONMONGERY * REFER TO SPECIALISTS SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES 18mØ pair DOOR HANDLE HANDLE- 150mm PULL HANDLE & 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- Chrome Plated Single Coat Hook	BALL BEARING HINGES 18mØ pair BATHROOM PADCATCH THUMB LOCK + CYLINDER- ACCESSORIES- Chrome Plated Single Coat Hook	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.	BALL BEARING HINGES 18mØ pair DOOR HANDLE HANDLE- D/HC-30E, PULL HANDLE 865/ 121/234Ø, 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- Chrome Plated Single Coat Hook	
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	NONE	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS	
QUANTITY	11	11	01	11	
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	

TOILET BLOCK

			FEMALE TOILET	MALE TOILET	DISABLED TOILET	ENTRY AND RAMPS			
FLOOR & FLOOR FINISH	1	TERMITE POISON	◎	◎	◎		1	TERMITE POISON: Treat ground under all internal & external walls, concrete beds and reinforced concrete slabs with poison as per clause	specification with 50mm sand over poison.
	2	75MM CONCRETE SURFACE BED	◎	◎	◎		2	75mm CONCRETE SLAB: cast on 250 micron polyethelene damp proof membrane (as per clause 7.2 of specification SABS-0400), all side	overlaps sealed with approved contact adhesive on 50mm sand on approved filling. 15MPA
	3.1	ANTI-SLIP PORCELAIN TILES	◎	◎	◎		3.1	600x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	to manufacturers recommendations and instructions.
	3.2	TILE SKIRTING	◎	◎	◎		3.2	100x600mm anti-slip PORCELAIN TILES on screed to Architect's approval. All grouting joints to be continuous in both directions. Lay expansion joints, surface to be free of dents and bumps.	
	3.3	MERANTI SKIRTING BOARD					3.3	19x76mm MERANTI SKIRTING BOARD: with 19mm quarter round nailed to wall. All nails to be punched and filled. ALL SKIRTING ONLY IN SCHOOL HALL TO BE 138mm high	polyurethane varnish.
	4	COMPACTED FILL	◎	◎	◎		4	COMPACTED FILL: minimum 3 layers fill compacted to Engineers specifications. Lay 50mm sand blinding before laying concrete pavers.	
	5	GRANOLITE				◎	5	SMOOTH GRANOLITE on screed free of dents and bumps. with clear seal	
WALLS	6	PLASTER AND PAINT	◎	◎	◎		6	PLASTER AND PAINT: All walls finished with one coat plaster and painted with one coat alkaline resistant primer, one universal undercoat and two final (washable)	color to architects approval
	7	GRANITE WORKTOP	◎	◎	◎		7	22mm thick RUSTENBURG STONE, to be used in wet areas only.	
	8	WINDOW FINISH	◎	◎	◎		8	Frosted glass on windows	
	9	WALL TILES (white)	◎	◎	◎		9	200x200mm WHITE JOHNSON TILE IN GLOSS FINISH	
	10	WALL TILES (black)	◎	◎	◎		10	200x200mm BLACK JOHNSON TILE IN GLOSS FINISH	
CEILINGS	11	CEILING INSULATION	◎	◎	◎		11	Under roof sheeting and above ceiling boards 125mm thick AEROLITE CEILING INSULATION: laid	
	12	FIBRE CEMENT CEILING BOARDS	◎	◎	◎		12	FIBRE CEMENT CEILING BOARDS: used in covered walkways, install 1200mm x 600mm ceiling boards painted in white acrylic paint	to architects approval
	13	CORNICE	◎	◎	◎		13	ACRYLIC COVE CORNICE 55 x 55mm	

DRAWING No. S100 TB-L-100 TYPE — REV 008

REVISIONS:		DATE
001	-UPDATE APRON SIZE	-15-05-2020
002	-update as per comments	-23-06-2020
003	-update as per comments	-24-06-2020
004	-update elevation ground slope	-20-08-2020
005	-update tilte -issue for tender	-20-08-2020
006	-UPDATE IRONMONGERY	-15-12-2022
007	-ADD FINISHES SCHEDULE	-20-06-2023
008	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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- READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING
- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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IKANENG HIGH SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW TOILET BLOCK
PLAN, ELEVATIONS, SECTION AND SCHEDULES

SCALE	DATE	DRAWN
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

Figured dimensions are to be taken in preference to scale dimensions.

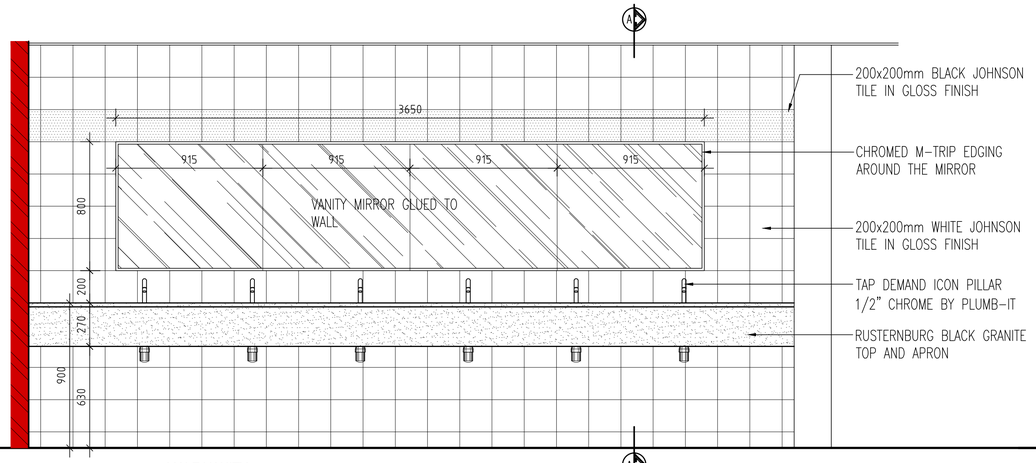
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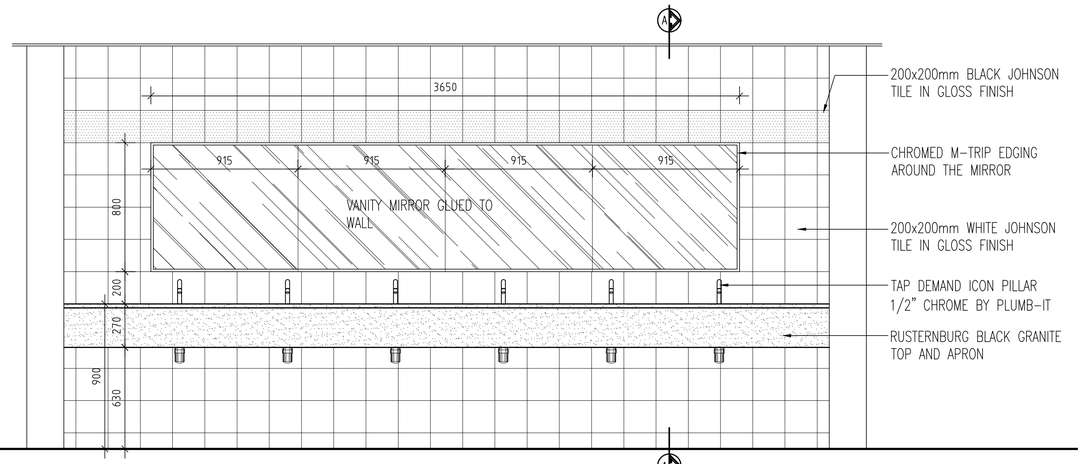
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DRAWING No. S100 TB-L-100 - REV 008

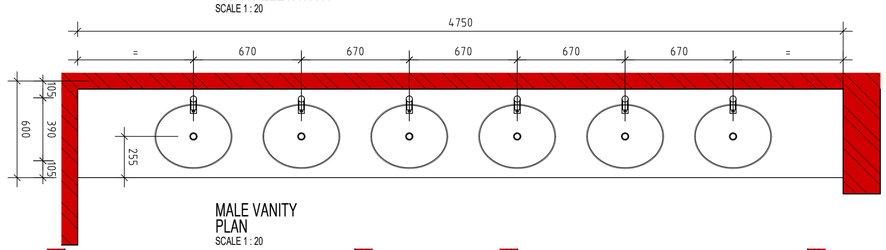
FOR-TENDER

COMP REF: REFERENCE



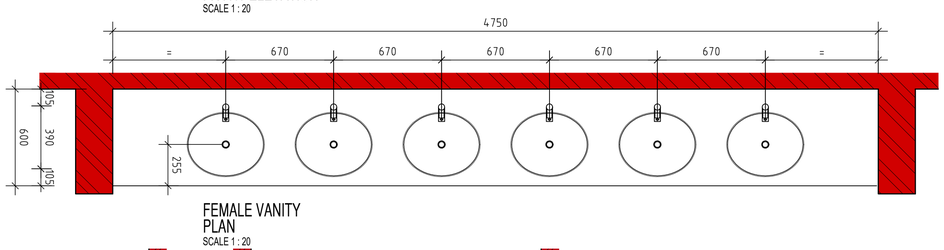


MALE VANITY FRONT ELEVATION
SCALE 1 : 20

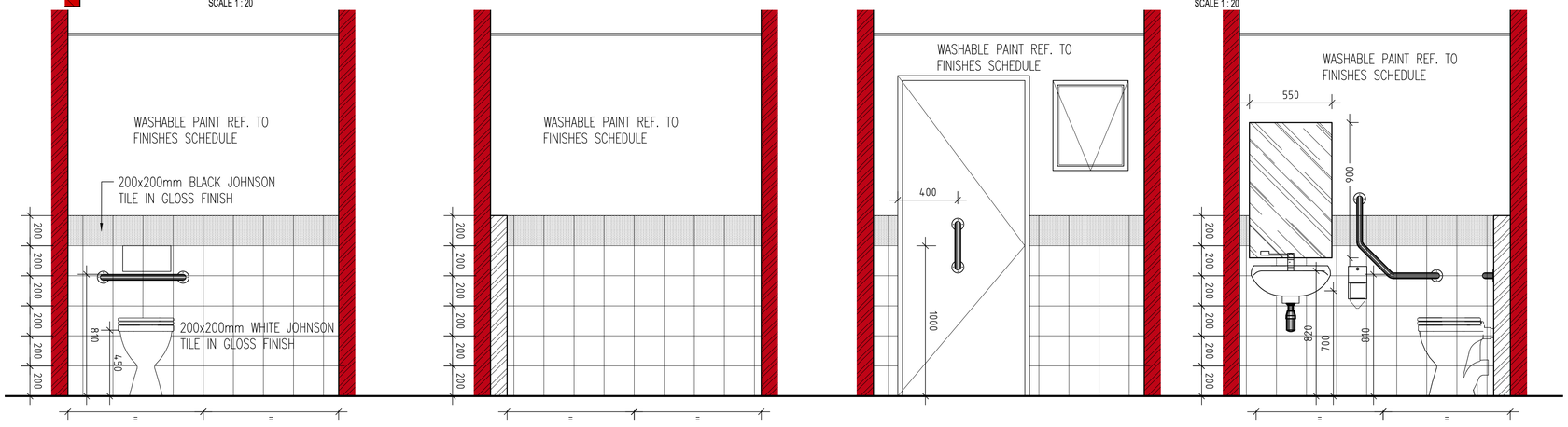


MALE VANITY PLAN
SCALE 1 : 20

FEMALE VANITY FRONT ELEVATION
SCALE 1 : 20



FEMALE VANITY PLAN
SCALE 1 : 20

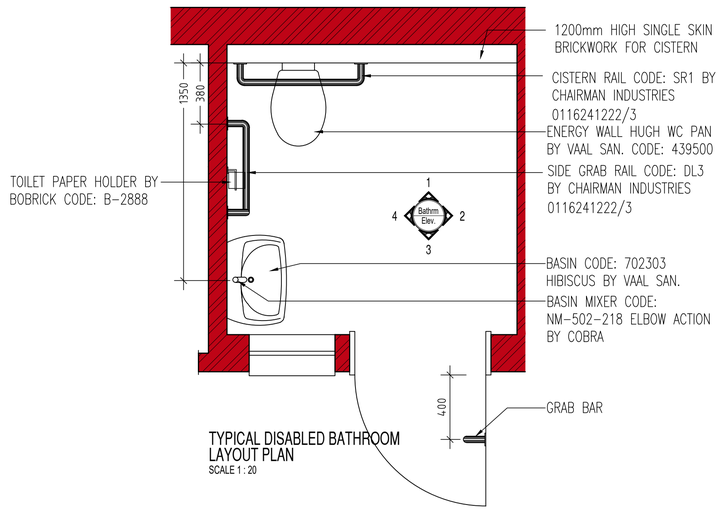


ELEVATION 1-1
SCALE 1 : 20

ELEVATION 2-2
SCALE 1 : 20

ELEVATION 3-3
SCALE 1 : 20

ELEVATION 4-4
SCALE 1 : 20



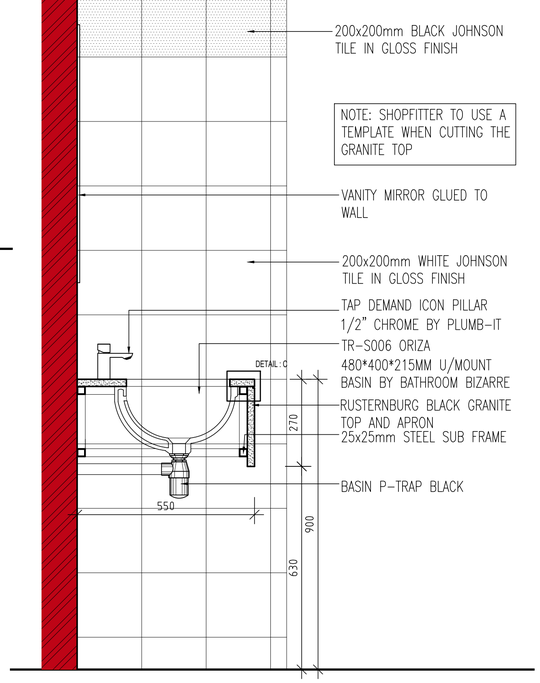
TYPICAL DISABLED BATHROOM LAYOUT PLAN
SCALE 1 : 20



DETAIL : C
SCALE 1 : 5



DETAIL : D
SCALE 1 : 5



TYPICAL VANITY SECTION A-A
SCALE 1 : 10

DRAWING No. S100 TB-L-101 TYPE 002 REV

REVISIONS: DATE

001	-UPDATE P TRAP SPEC	-22-06-2023
002	-issued for tender	-10-07-2023

PLUMBING-NOTES

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GENERAL-NOTES

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- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
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IKANENG HIGH SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW TOILET BLOCK VANITY DETAILS AND DISABLED LAYOUT

SCALE	DATE DRAWN	
AS_SHOWN	2022-12-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

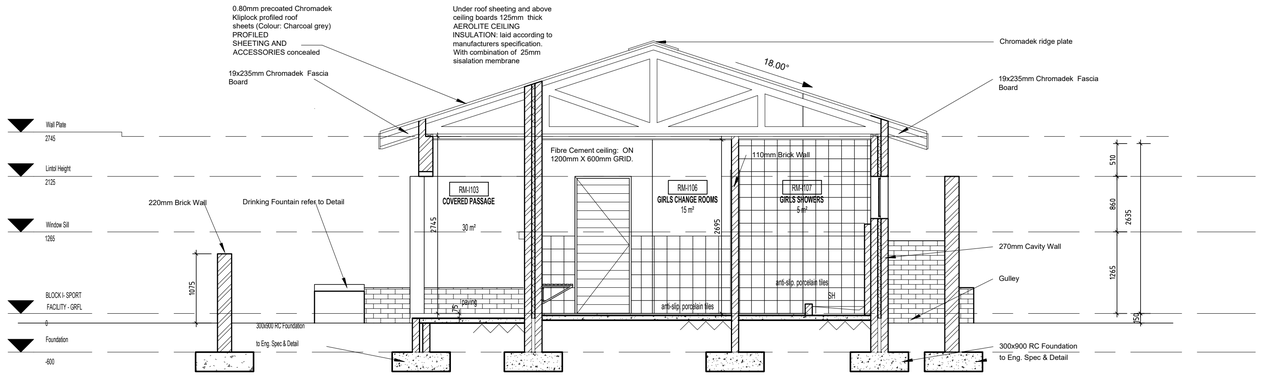
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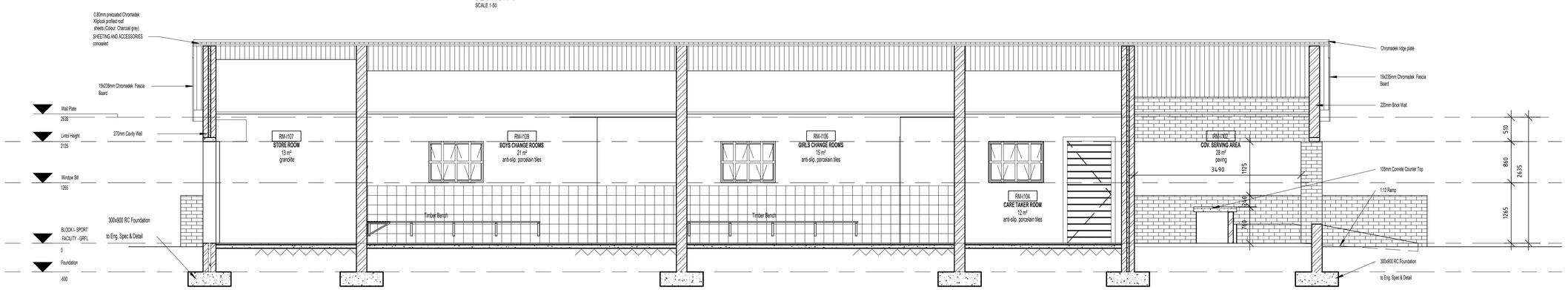
DRAWING No. S100 TB-L-101 - 002 REV

FOR-TENDER

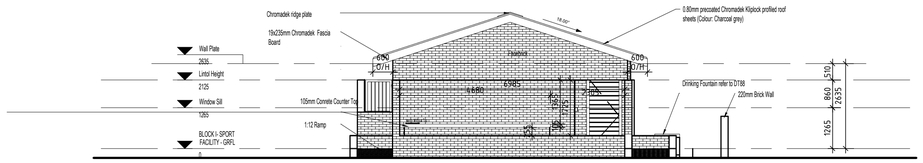
COMP REF: REFERENCE



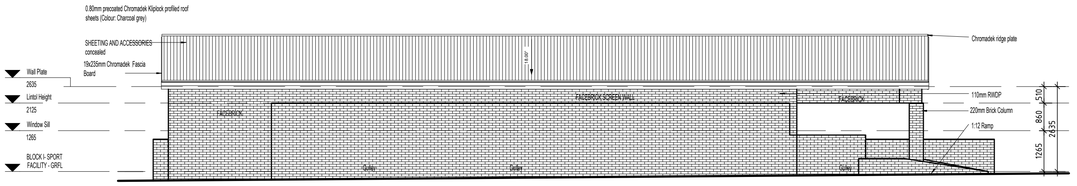
SECTION-1
SCALE 1-50



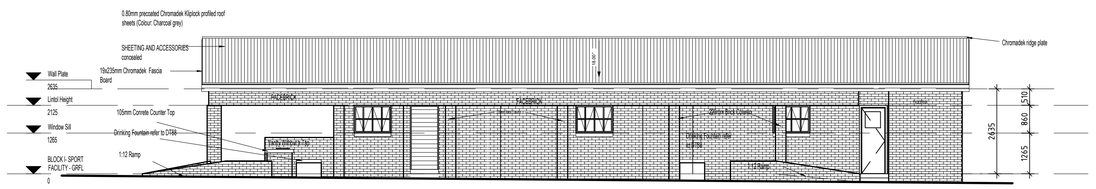
SECTION-2
SCALE 1-50



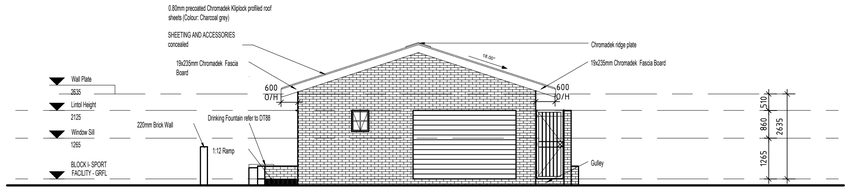
SOUTH ELEVATION
SCALE 1-100



WEST ELEVATION
SCALE 1-100



EAST ELEVATION
SCALE 1-100



NORTH ELEVATION
SCALE 1-100

FLOOR FINISH NOTE:
Refer to finishing schedules for floor finish specifications

FACEBRICK NOTES:
Corobrik® (or similar approved) 40-50MPa clay face brick, size 222 x106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-3.
Tie spacing to be 600mm vertical, 660 mm horizontal, staggered. Tie spacing around openings and construction joints: <300 mm vertical. All wall ties specifications to comply with SANS 10164.
All masonry/brick joints to be raked and flushed off. Wall construction to comply with Part K of SANS 10400.
Provision of airbricks or louvres in gable walls for ceiling void cross ventilation.

INSULATION:
In ceiling void: under roof sheeting 25mm thick membrane and above ceiling boards min 120mm thick aerolite insulation (all in compliance with Category of Occupancy A3 for Climate Zone1).

Insulation on External Walls: 50mm cavity on external walls up to the lintel height level with polystyrene panels (EPS - 600 x 1200 x 50mm panels) in between wall ties.

All smart classrooms (including Library, Multi-purpose Centre, Laboratories & Home Economics) and ICT support rooms to be protected in ceiling voids (between purlins & trusses) with mild steel mesh (32 x 32 openings, 08mm thick).

ROOF SHEETS:
Chromadek® klip tite roof sheeting coated outside and galvinized inside 0.58mm min.thickness on 38x38mm battens @ 800mm centre max on 114x38mm truss @950mm centre max.
Sheets shall 1225mm width to full extent of the roof from the ridge plate down to the edge of overhang. No joints between sheets are allowed in the middle of the roof pitch.

TRUSSES:
timber patent & approved pre-fabricated system at 950mm c/c max. purlins 50 x 76mm sa pine at 800mm c/c max. Wall plate 114 x 38mm SA pine to be creosote treated before fixing
Certificate & Guarantee for design & erection to be supplied by truss manufacturer. All exposed timber sections as well as sections in contact with wet trades to be creosote treated before fixing into position. truss to be secured to walls at wallplate with 2,5mm galv. steel wire ties, built into walls min 6 brick courses.

FASCIA BOARD NOTES
Everite (or similar approved) medium density timber grain Nutec fascia boards, size 225 x 9mm thick, fixed to 38 x 38mm tilter batten and 38 x38mm support battens between rafters twice screwed with 12 x 40mm countersunk brass screws at 900mm centres to support battens with aluminium H-profile fascia joiner between boards and aluminium H-profile fascia corner joiners at board ends.

SEWERS AND GRAVITY DRAINAGE SYSTEMS (SANS 1936-3)
All manholes shall be watertight and shall be tested for water tightness (zero leakage) during construction.
Sewers and gravity drainage systems, inclusive of pipes, sleeves or conduits shall be subjected to hydraulic pipeline testing, after installation, in accordance with SANS 2001-DP2 for the selected pipe type, irrespective of application.
Connections from multiple adjoining toilets or washbasins shall be made above ground and shall feed into a single downpipe draining into the subsurface system.
Toilet pans shall be provided with an external flexible connection at the junction point to the subsurface sewer system.
The type, size and pressure rating of the pipe to be used shall be specified by the competent person (geo-professional or engineer). The preferred pipe types and other requirements for subsurface sewers and gravity drainage systems are given in table 5 of SANS 1936-3.\

STORMWATER DRAINAGE (FROM DOWNPIPES)
All stormwater from downpipes and gutters from buildings and structures shall discharge onto concrete-lined channels which, in turn, shall discharge the water at least 1,5 m away from structures onto areas permitting surface drainage away from buildings and structures.
Joints between any open channel drains and buildings shall be suitably sealed.

Small diameter stormwater drainage pipes shall not be placed parallel to buildings unless they are at least 5 m (if stand size allows) from the structure.

If this is not practical, a rational design shall be performed by a competent person (engineer).

Note: The Site is dolomite therefore gravel is to be laid on top of a concrete surface bed with drainage

1500mm concrete apron to be provided arounf the peremeter of the building

DRAWING No. S100 S-L-101 TYPE — REV 005

REVISIONS: — DATE

001	-update as per comments	-23-06-2020
002	-update as per comments	-24-06-2020
003	-update elevations ground slope	-24-06-2020
004	-update title -issue for tender	-11-09-2022
005	-issued for tender	-10-07-2023

PLUMBING-NOTES

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- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
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- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
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IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK SECTIONS AND ELEVATIONS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

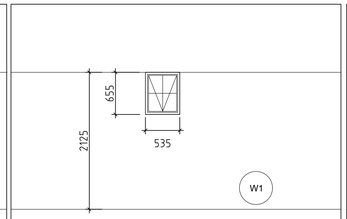
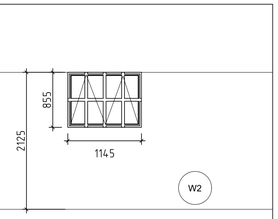
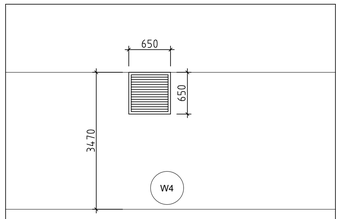
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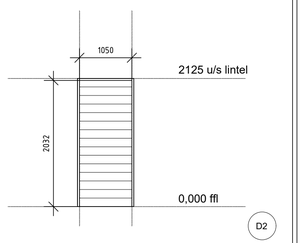
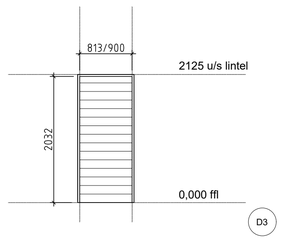
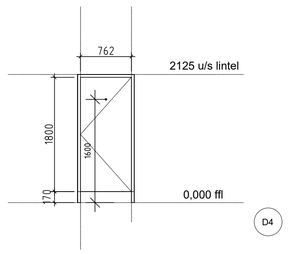
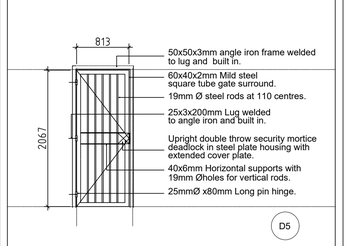
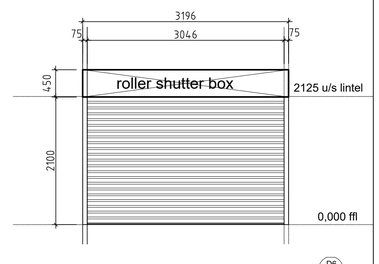
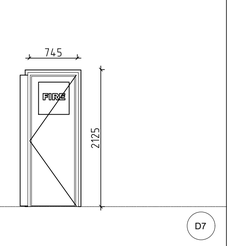
Each contractor shall be responsible for ensuring the structural stability of all components of his work and ascertain that the main structure is capable of supporting all the loads applied thereto.

DRAWING No. S100 S-L-101 - REV 005

FOR-TENDER

COMP REF: REFERENCE

U/S OF LINTEL 2125 F.FLOOR LEVEL			
WINDOW LOCATION	BOYS CHANGE ROOMS, GIRLS CHANGE ROOMS, DISABLED TOILET	CARETAKER ROOM, BOYS CHANGE ROOMS, GIRLS CHANGE ROOMS, DISABLED TOILET	NORTH GABLE
WINDOW NUMBER	W1	W2	W4
WINDOW FRAME	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	APPROVED STANDARD OPEN OUT STEEL FRAME. NEW FIXING LUGS MUST BE BUILT INTO THE BRICKWORK.	648x648 COTTAGE SECTION STANDARD. STEEL WINDOW FRAME
WINDOW FRAME FINISH	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS	PREPARE AND CLEAN. APPLY ONE COAT SABS APPROVED PRIMER AND TWO COATS SABS APPROVED ENAMEL PAINT - COLOUR TO ARCHITECT'S SPECIFICATIONS
GLAZING	4mm OBSCURE GLAZING	4mm CLEAR GLAZING	STEEL FIXED LOUVRES
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURER'S SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:	HANDLE: BRASS HANDLE TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL HINGES: TO MANUFACTURER'S SPECS, SUBJECT TO ARCHITECT'S APPROVAL STAY: BRASS STAY TO MATCH. SUBJECT TO ARCHITECT'S APPROVAL OTHER:	NOT APPLICABLE INSECT MESH GUARD
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.
QUANTITY	13	04	01
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE OPENING PRIOR TO MANUFACTURE

F.FLOOR LEVEL				 NB: all DUCTS, steel gates to be fixed(welded) with 6mm expanded steel mesh to the inside of the gate.		 NB: all DUCTS, steel gates to be fixed(welded) with 6mm expanded steel mesh to the inside of the gate.
DOOR LOCATION	DISABLE TOILET & SHOWER	CARETAKER ROOM, BOYS CHANGE ROOMS, GIRLS CHANGE ROOMS, (DISABLED TOILET & SHOWER TO BE 900mm WIDE)	BOYS CHANGE ROOMS WC & SHOWERS, GIRLS CHANGE ROOMS WC & SHOWERS	AS SHOWN ON PLANS	AS SHOWN ON PLANS	AS SHOWN ON PLANS
DOOR NUMBER	D2	D3	D4	D5	D6	D7
DOOR FRAME	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 220mm WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	APPROVED STEEL FRAME FOR 110mm INTERNAL WALLS, COMPLETE WITH STANDARD BUTT HINGES. NEW FIXING LUGS MUST BE BUILT INTO BRICKWORK.	50x50x3mm ANGLE IRON FRAME WELDED TO LUG AND BUILT INTO BRICKWORK TO GDE DETAIL DT30 FRAME TO ALLOW FOR 90° SWING	TO MANUFACTURER DETAIL	STEEL FRAME FOR 110MM INTERNAL WALL
FRAME SETTING OUT	CENTER OF WALL	CENTER OF WALL	CENTER OF WALL	OUTSIDE OF WALL	TO MANUFACTURER DETAIL	OUTSIDE OF WALL
DOOR FRAME FINISH	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT- TO ARCHITECT'S SPECIFICATIONS	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT- TO ARCHITECT'S SPECIFICATIONS	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER & ONE COAT APPROVED ENAMEL PAINT- TO ARCHITECT'S SPECIFICATIONS	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	TO MANUFACTURER DETAIL	1 X COAT PRIMER & 1 X COAT APPROVED ENAMEL PAINT
ARCHITRAVE	NONE	NONE	NONE	NONE	NONE	NONE
DOOR LEAF	STANDARD 2032 HIGH x 1050mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STANDARD 2032 HIGH x 813mm WIDE x 44mm THICK SOLID FLUSH PANEL DOOR WITH CONCEALED HARD WOOD EDGES.	STANDARD 762mm x 2032mm x 40mm SOLID FLUSH PANEL DOOR WITH HARDBOARD BOTH SIDES	TO GDE DETAIL DT30	ROLL-UP GARAGE-TYPE DOOR GALVANISED MILD STEEL CRANK-OPERATED 75 x 0.6mm THICK SLATTED CURTAIN ROLLER SHUTTER FOR OPENING 3046 x 2125mm HIGH WITH STANDARD BOTTOM RAIL WITH OVERHEAD BOX, WITH 75MM WIDE GUIDES, WITH EXTRUDED ALUMINIUM T-BAR WITH RUBBER SEAL. POWDER COATED ANCILLARY COMPONENTS INCLUDING 4.5MM THICK END PLATES, GUIDE RAILS, ETC, AND WITH CENTRE LOCK, FIXED TO BRICKWORK AND CONCRETE TO ENGINEER'S DETAIL	STEEL WITH HARDBOARD BOTH SIDES & GEORGIAN GLASS WITH SIGNAGE Fire Hose Reels (FHR) closets to have a solid door with 600mm wide x 350mm high viewing clear safety glass panel with uppercased word in basic color signal red "FIRE" (Code A11) painted in the glass.
DOOR LEAF FINISH	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	SAND DOWN TWO COATS APPROVED CLEAR VARNISH.	SAND DOWN AND PREPARE. APPLY ONE COAT PRIMER AND ONE COAT APPROVED PVA PAINT	STEEL TO BE FINISHED WITH ONE PRIMER COAT, ONE UNIVERSAL UNDERCOAT AND TWO COATS GLOSS ENAMEL PAINT IN APPROVED COLOUR. (PAINTED AFTER FIXING)	1 x COAT PRIMER & 1 x COAT APPROVED PVA PAINT	1 X COAT PRIMER & 1 X COAT APPROVED PVA PAINT — These doors to be painted signal red with paint code A11 as well defined in the fire consultant technical documentation and in compliance with SANS 1091.
GLAZING	NONE	NONE	NONE	NONE	NONE	NONE
IRONMONGERY * REFER TO SPECIALIST'S SCHEDULE AND SPECIFICATIONS	BALL BEARING HINGES 1&half pair LOCK + CYLINDER- DMWC-SS-008 HANDLE- DWC-006, PULL HANDLE SKU 1212348, 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- 150x150mm signage,	BALL BEARING HINGES 1&half pair LOCK + CYLINDER- HANDLE- 150mm PULL HANDLE & 200x300mm PUSH PLATE DOOR CLOSER- D C delay closer ACCESSORIES- 150x150mm signage,	BALL BEARING HINGES 1&half pair BATHROOM INDICATOR THUMB LOCK + CYLINDER- ACCESSORIES- Chrome Plated Single Coat Hook	UPRIGHT DOUBLE THROW SECURITY MORTICE DEADLOCK IN STEEL PLATE HOUSING WITH EXTENDED COVER PLATE.	AS PER MANUFACTURES SPEC.	AS PER MANUFACTURES SPEC.
LINTEL	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	BRICK ON EDGE LINTEL TO ENGINEERS SPECIFICATIONS.	NONE	NONE	NONE
QUANTITY	02	03	05	02	01	01
NOTE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE	CONTRACTOR TO CONFIRM DIMENSIONS OF THE EXISTING OPENING PRIOR TO MANUFACTURE

500mm

DOOR LATCHES:
Door retaining latches to be built in the floor of all classroom doors.
DOOR NAME TAGS:
Provide 3mm thick x 32mm high clear perspex name tags with white paint and countersunk holed and tap screwed to door frame.
DOOR NUMBER TAGS:
Provide perspex tags as above but with door numbers as per site plan drawings. note that tags for security gates are to be 60mm wide max with lettering to suit and screwed to gate surround.
DOOR GLAZING:
To comply to SABS 0400 Part N

DRAWING No. S100 S-L-102 TYPE — REV 005

REVISIONS:		DATE
001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-UPDATE IRONMONGERY	-23-12-2022
004	-UPDATE SCHEDULE	-23-12-2022
005	-issued for tender	-10-07-2023

PLUMBING-NOTES

- 100Ø SOIL PIPE LAID TO MIN 1:40 FALL. 100Ø STUB STACKS IN POSITIONS AS INDICATED. 50Ø WASTE PIPES FROM WASTE FITTINGS TO SOIL PIPE. ALL WASTE FITTINGS TO BE FITTED WITH RESEAL TRAPS. OVPS AND VENT VALVE TO BE CONCEALED BEHIND ASBESTOS REMOVABLE PANELS WHERE POSSIBLE. R.E IS TO BE PROVIDED 1.5m FROM MUNICIPAL CONNECTION POINT. R.E AND I.E IN POSITION AS SHOWN. ALL PLUMBING WORK TO BE CARRIED OUT BY A REGISTERED PLUMBER. ANY DRAINS UNDER BUILDINGS MUST BE PROTECTED AGAINST LOAD.

GENERAL-NOTES

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- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

THIS DRAWING REMAINS COPYRIGHT OF THE DESIGNERS AND MAY NOT BE REPRODUCED WITHOUT PRIOR CONSENT

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CLIENT · PROJECT

IKANENG SECONDARY SCHOOL PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK DOOR & WINDOW SCHEDULE

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

Contractors and subcontractors are to check all site dimensions and levels before commencing with work.

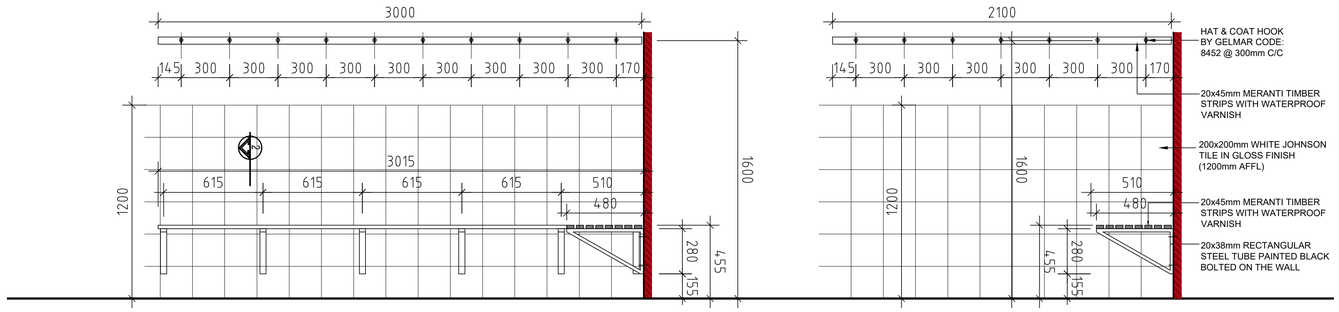
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DRAWING No. S100 S-L-102 - REV 005

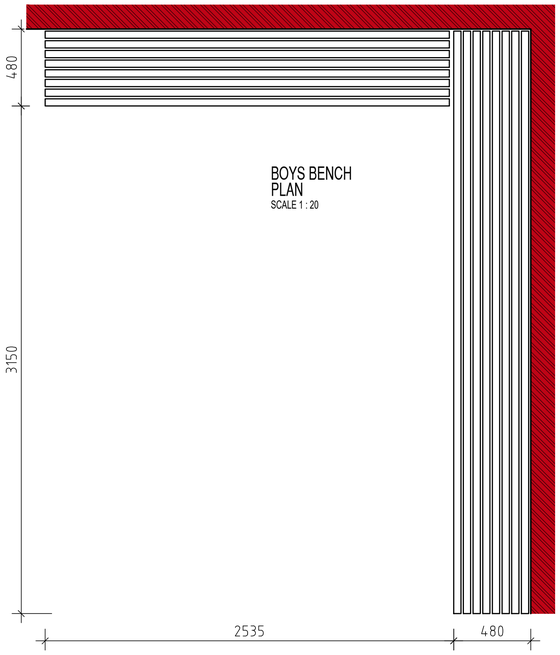
FOR-TENDER

COMP REF: REFERENCE



BOYS BENCH
FRONT ELEVATION
SCALE 1 : 20

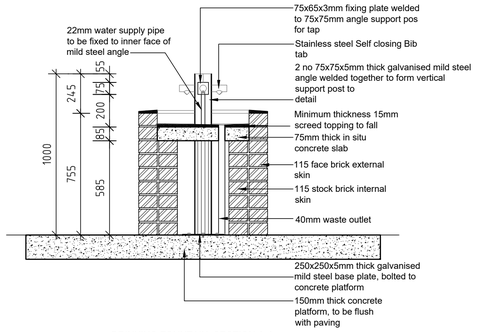
GIRLS BENCH
FRONT ELEVATION
SCALE 1 : 20



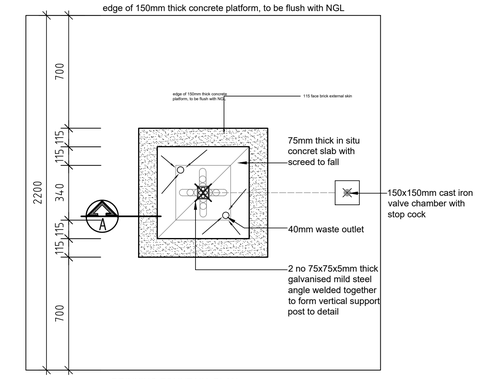
BOYS BENCH
PLAN
SCALE 1 : 20



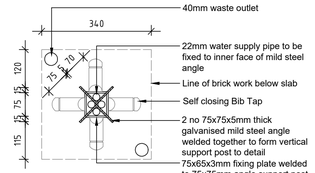
GIRLS BENCH
PLAN
SCALE 1 : 20



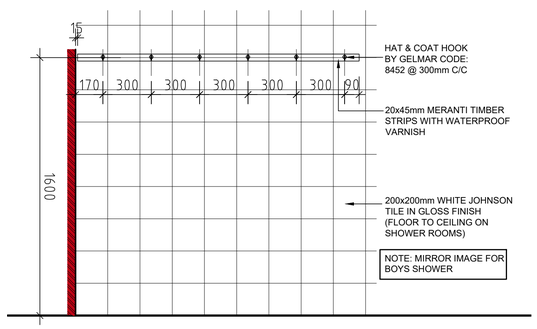
DRINKING FOUNTAIN: SECTION A-A
SCALE 1 : 20



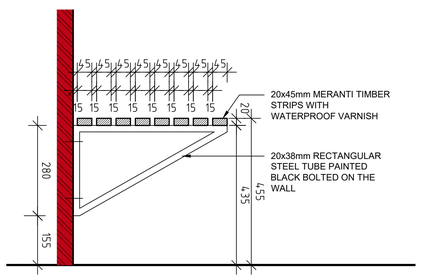
DRINKING FOUNTAIN: PLAN
SCALE 1 : 20



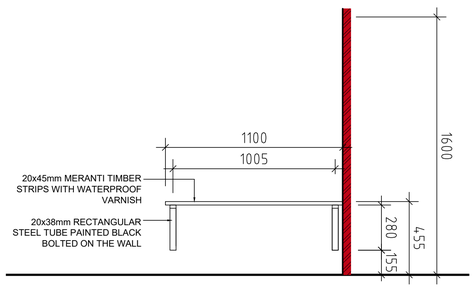
DRINKING FOUNTAIN: DETAIL
SCALE 1 : 10



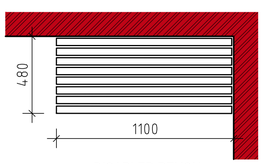
GIRLS SHOWER ROOM
FRONT ELEVATION
SCALE 1 : 20



BENCH TYPICAL
SECTION 2-2
SCALE 1 : 10



DISABLED BENCH
FRONT ELEVATION
SCALE 1 : 20



DISABLED BENCH
FRONT ELEVATION
SCALE 1 : 20

DRAWING No. S100 S-L-103 TYPE — REV 003

REVISIONS:		DATE
001	-update as per comments	-23-06-2020
002	-update title -issue for tender	-11-09-2022
003	-issued for tender	-10-07-2023

PLUMBING-NOTES

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GENERAL-NOTES

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- ALL RELEVENT DIMENSIONS, DEPTH OF EXCAVATIONS AND HEIGHTS OF PLINTHS TO BE DETERMINED ON SITE BEFORE ANY WORK COMMENCE.
- DPC IN WALLS TO BE MIN 150mm ABOVE GROUND FLOOR LEVEL.
- DPC TO WINDOW SILLS AND VERTICAL DROPS OF GROUND LEVEL
- PROVIDE PRESTRESSED CONCRETE LINTOLS ABOVE ALL OPENINGS
- ALL NEW WORK TO MATCH EXISTING

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AND MAY NOT BE REPRODUCED WITHOUT PRIOR CONSENT

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web: www.balebogile.com
PROJECT MANAGERS · QUANTITY SURVEYOR

PRO-SERVE CONSULTING
positive impact today... for tomorrow

CLIENT · PROJECT

IKANENG SECONDARY SCHOOL
PROPOSED ADDITION & ALTERATIONS

DRAWING DESCRIPTION

NEW SPORTS BLOCK
BENCH & DRINKING FOUNTAIN
DETAILS

SCALE	DATE DRAWN	
AS_SHOWN	2020-03-01	TT

CONTRACTOR

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DRAWING No. S100 S-L-103 - — REV 003

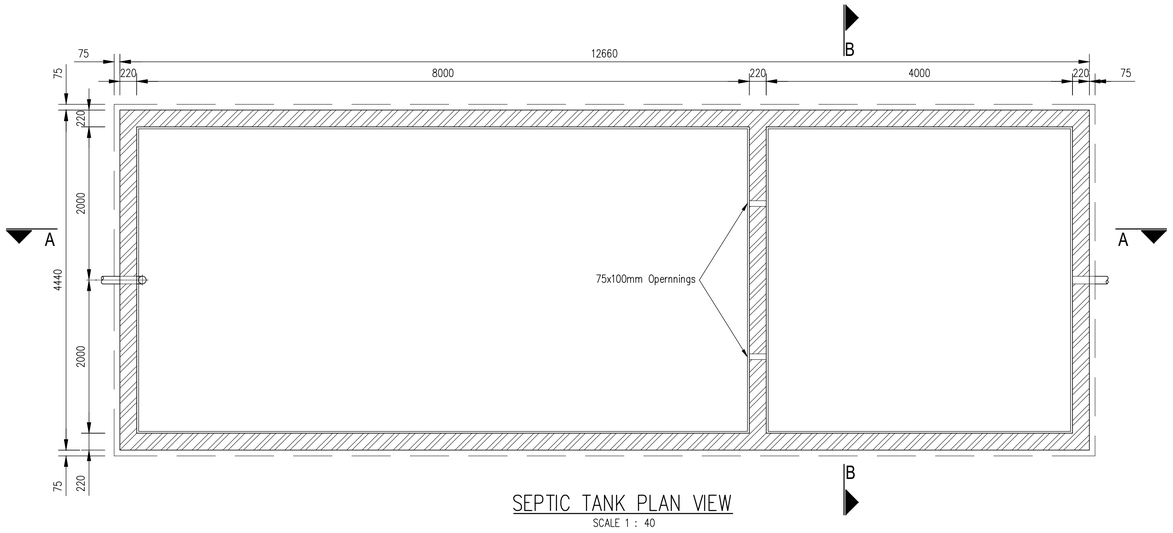
FOR-TENDER

COMP REF: REFERENCE

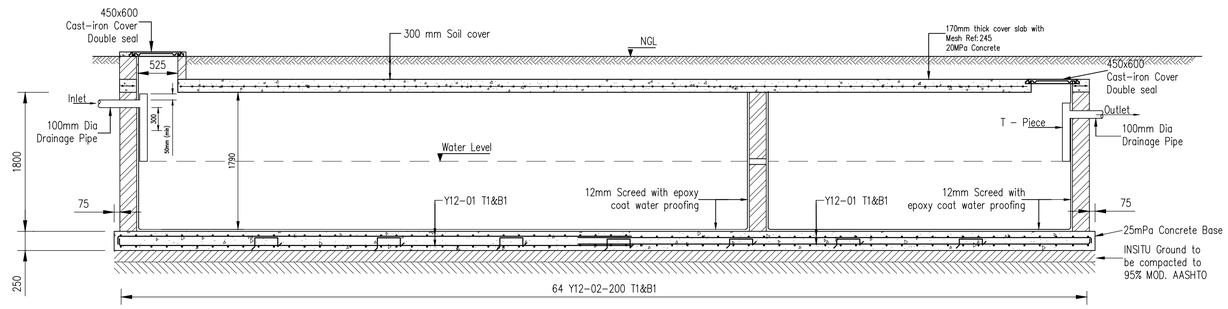
ANNEXURE B

CIVIL AND STRUCTURAL DRAWINGS

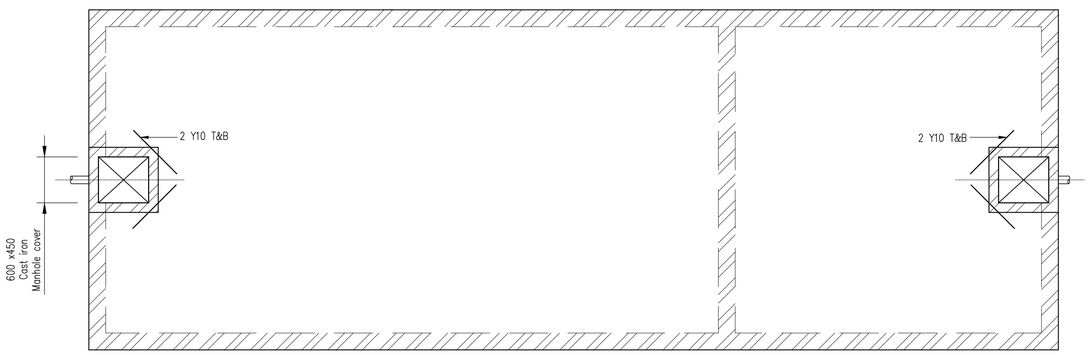
NO CONCRETE TO BE POURED PRIOR TO INSPECTION AND APPROVAL BY SUPERVISING ENGINEER
NOTE:MIN 24hrs NOTICE REQUIRED BEFORE INSPECTION



SEPTIC TANK PLAN VIEW
SCALE 1 : 40

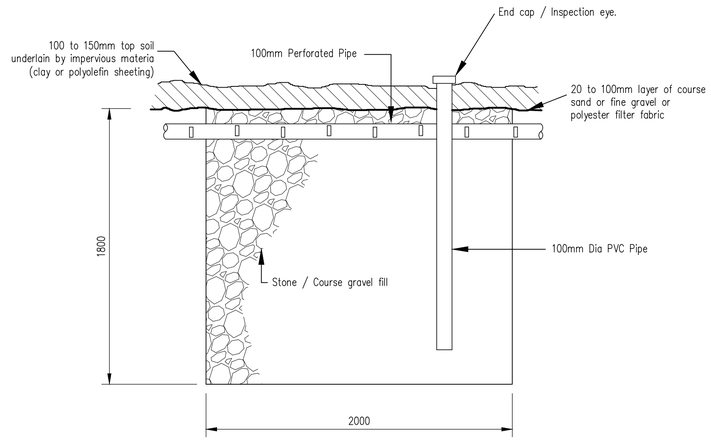


SEPTIC TANK CROSS SECTION
SCALE 1 : 40

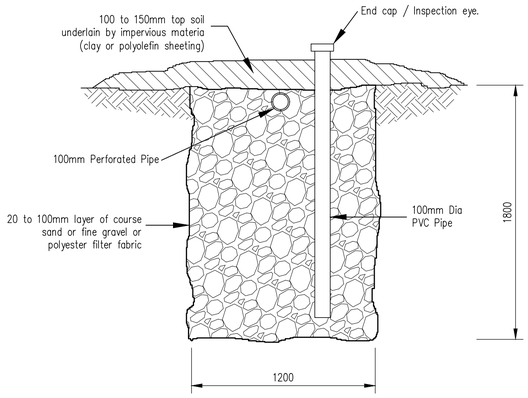


CONCRETE COVER SLAB – PLAN VIEW
SCALE 1 : 40

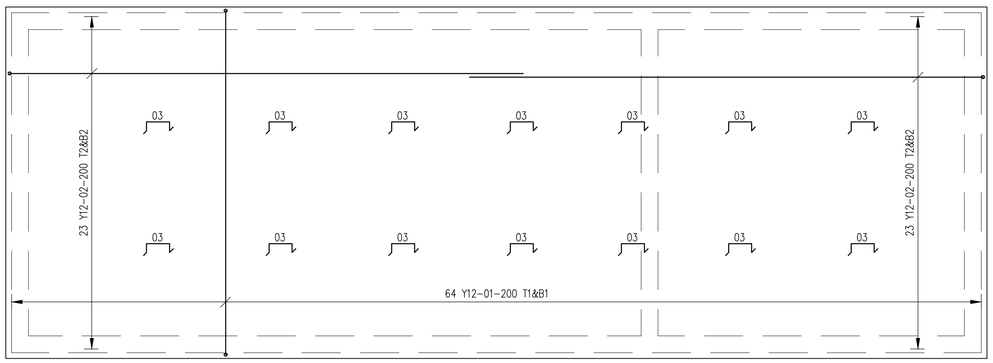
PROJECT NAME	IKANENG HIGH SCHOOL												REVISON	A
DRG NO.	GIC-IKA-0010													
STRUCTURAL MEMBER	BAR MARK	REBAR SIZE	No. OF MEMBERS	No. IN EACH	TOTAL NUMBER	CUT LENGTH	SHAPE CODE	DIMENSIONS						TOTAL LENGTH
								A	B	C	D	E	SHAPE CODE	
SEPTIC TANK	1	Y12	1	128	128	4800	35	4500						614.4
	2	Y12	1	92	92	6850	34	6700						630.2
	3	Y12	1	14	14	650	83	250	125	250				9.1



LONGITUDINAL SECTION – SOAK-AWAY TANK
SCALE 1 : 20



CROSS SECTION – SOAK-AWAY TANK
SCALE 1 : 20



FLOOR SLAB PLAN VIEW – REINFORCING
SCALE 1 : 40

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SERVICES DRAWINGS AS WELL AS THE SPECIFICATION.
2. ANY DISCREPANCIES AND AMBIGUITIES ON THE ENGINEERS DRAWINGS TO BE REPORTED TO ENGINEERS IMMEDIATELY BY MEANS OF AN RFI (REQUEST FOR INFORMATION).
3. LEVELS AND DIMENSIONS TO BE CHECKED BEFORE ANY WORK COMMENCES. DIMENSIONS ARE NOT TO BE SCALED BESIDES IF THE SCALE IS SPECIFIED IN THE DRAWING.
4. GENERALLY ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH EITHER THE CONTRACT SPECIFICATIONS, S.A.B.S. 1200, S.A.B.S. 0100 OR S.A.B.S. 0161.
5. ALL REINFORCEMENT STEEL TO BE CHECKED BY THE ENGINEER BEFORE ANY CONCRETE IS CAST. ENSURE THAT THE ENGINEER IS NOTIFIED OF THE INSPECTION DATE IN REASONABLE TIME BEFORE THE CAST TO ALLOW FOR TRAVEL ARRANGEMENTS.
6. CONCRETE STRENGTH TO BE AS FOLLOWS, UNLESS OTHERWISE INDICATED:
   R.C. SLABS 25MPa
   R.C. BASES 25MPa
   THE ABOVE MENTIONED STRENGTH IS TO BE ACHIEVED AT 28 DAYS WITH 19mm APPROVED STONE
7. ALL CONCRETE TO BE MOIST CURED FOR MINIMUM OF 7 DAYS AFTER FINAL SET OF CONCRETE USING A METHOD APPROVED BY THE ENGINEER.
8. NO CONDUITS, PIPES OR ELECTRICAL OR MECHANICAL EQUIPMENT SHALL BE CAST INTO CONCRETE UNLESS INDICATED ON DRAWINGS, DETAILED IN SPECIFICATIONS OR APPROVED BY THE ENGINEER.
9. HOT / DRY AND COLD / WET WEATHER CONCRETING AS PER SPECIFICATIONS.
10. LOADING ON STRUCTURE DURING CONSTRUCTION NOT TO EXCEED 100kg/m², UNLESS OTHERWISE INDICATED.
11. STRIPPING OF FORMWORK AS PER SPECIFICATION AND ONLY WITH APPROVAL OF ENGINEER. STRIPPING OF SHUTTERING CAN TAKE PLACE AFTER 14 DAYS, UNLESS OTHERWISE INDICATED. BACK PROP TO BE IN PLACE FOR A MINIMUM OF 28 DAYS.

NOTES: REINFORCING

1. REINFORCEMENT SHALL BE CHECKED BY THE ENGINEER ONLY AFTER IT HAS BEEN COMPLETELY FIXED IN POSITION, FORMWORK IS CLEAN, SPACERS ARE PLACED IN POSITION AND AFTER THE CONTRACTOR HAS CERTIFIED IT CORRECT.
2. THE MINIMUM CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE
   R.C. SLABS 25mm
   R.C. FOUNDATION 50mm
3. WELDING OF REINFORCEMENT IS NOT ALLOWED, UNLESS APPROVED BY THE ENGINEER IN WRITING.

T	TOP STEEL
T1	1st LAYER OF STEEL FROM THE TOP
B	BOTTOM STEEL
B1	1st LAYER OF STEEL FROM THE BOTTOM
B2	2nd LAYER OF STEEL FROM THE BOTTOM
T2	2ND LAYER OF STEEL FROM THE TOP

CLIENT DEPARTMENT SIGNATURES
CLIENT DEPARTMENT STAMP

PROFESSIONAL CONSULTANT
Name: X NXUMALO, Pr Eng
Signature: Date: 28/07/2023

GUDUNKOMO INVESTMENTS AND CONSULTING
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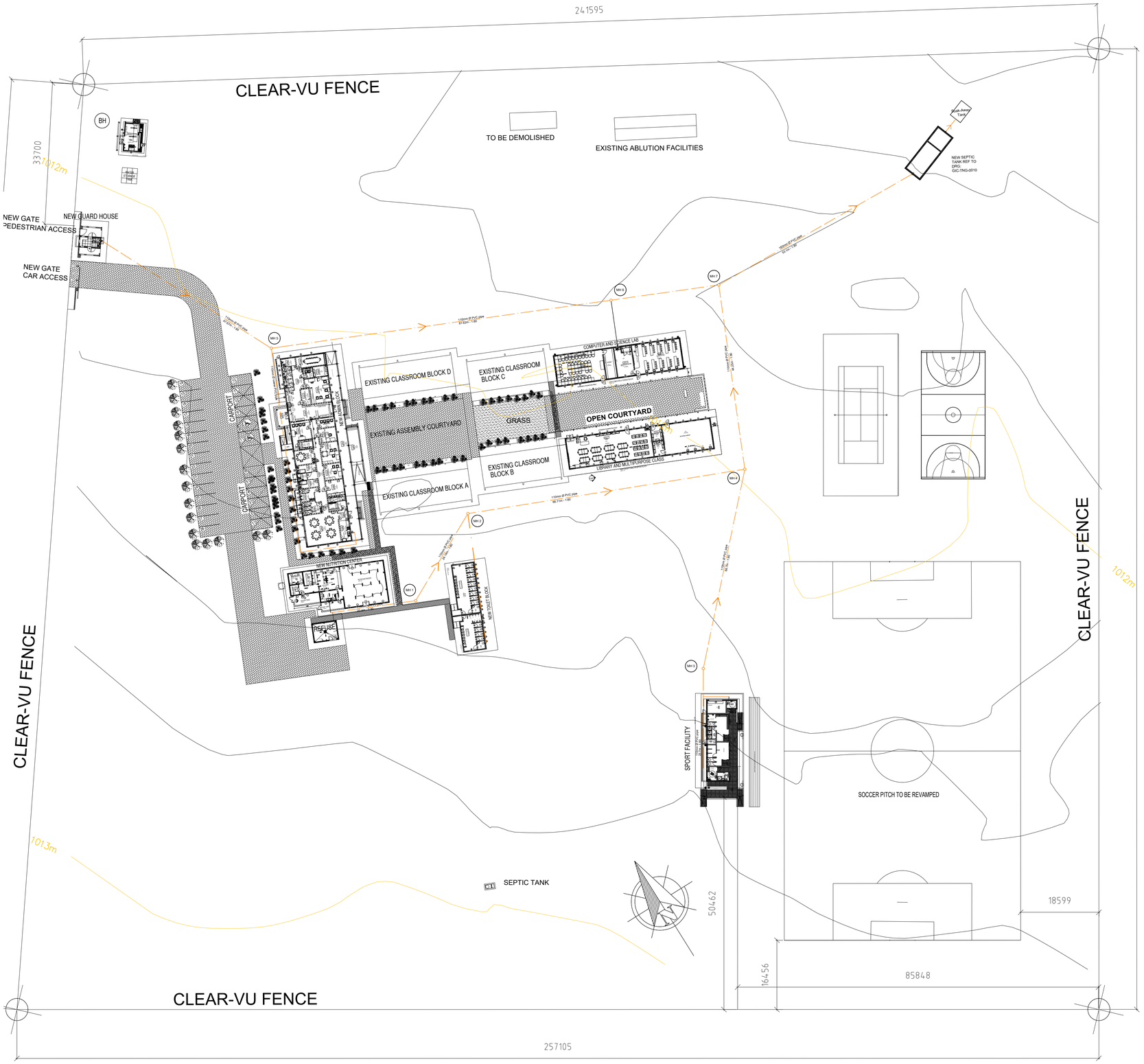
PROJECT IKANENG HIGH SCHOOL

SEPTIC TANK

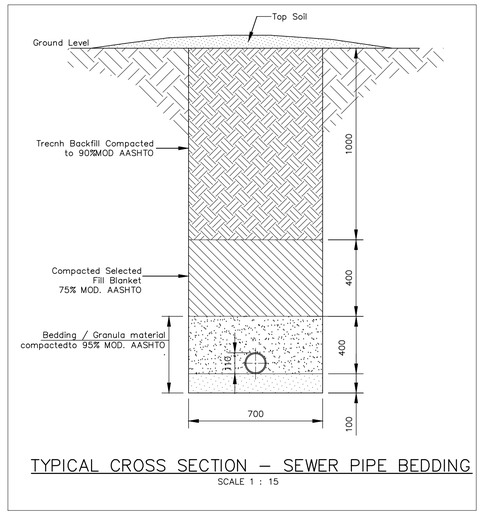
FOUNDATION LAYOUT
CONCRETE DETAILING
PLAN VIEW & SECTIONS

DRAWN: P. ZUMA DATE: 28/07/2023
SCALE/S: AS SHOWN
CONSULTANT DRAWING NO: GIC/IKA/009 REVISION A
SHEET 1
STAMPED BY PLANS APPROVAL COMMITEE

NO CONCRETE TO BE POURED PRIOR TO INSPECTION AND APPROVAL BY SUPERVISING ENGINEER
NOTE:MIN 24hrs NOTICE REQUIRED BEFORE INSPECTION



LEGEND	
	WATER PIPELINE
	FIRE PIPELINE 50mm Ø HDPE CL 10
	SEWER PIPELINE 110mm Ø PVC
	SEWER MANHOLE 1000mm Ø
	STORMWATER MANHOLE
	STORM V–DRAIN CAST IN SITU CONC
	STORMWATER CATCHPIT (FIELD INLET)
	ISOLATING VALVE
	STANDPIPE / DRINKING FOUNTAIN
WC	WATER CONNECTION
BH	BOREHOLE (NEW / REFURBISHED)
MC	NEW METER CHAMBER



TYPICAL CROSS SECTION – SEWER PIPE BEDDING
SCALE 1 : 15

CLIENT DEPARTMENT SIGNATURES
CLIENT DEPARTMENT STAMP

PROFESSIONAL CONSULTANT
Name: X NXUMALO, Pr Eng
Signature: Date: 28/07/2023

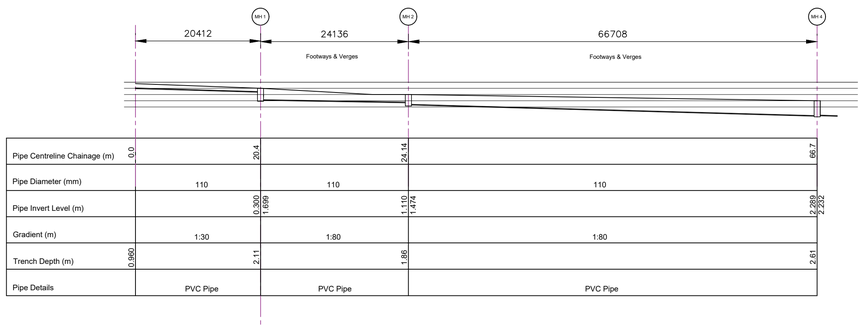
GUDUNKOMO INVESTMENTS AND CONSULTING
PRO-SERVE GROUP positive impact today... for tomorrow
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PROJECT
IKANENG HIGH SCHOOL

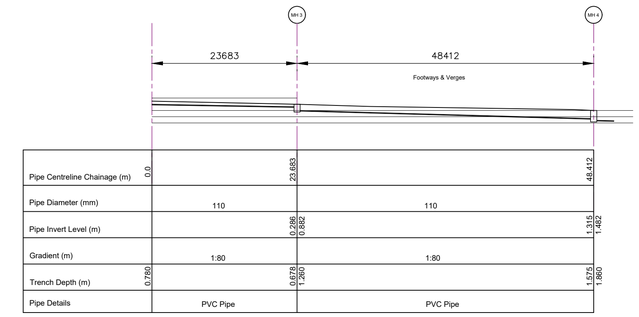
SEWER LAYOUT
PLAN VIEW & CROSS SECTION

DRAWN: P. ZUMA	DATE: 28/07/2023
SCALE/S: AS SHOWN	
CONSULTANT DRAWING NO: GIC/IKA/009	REVISION A
	SHEET 2
STAMPED BY PLANS APPROVAL COMMITEE	

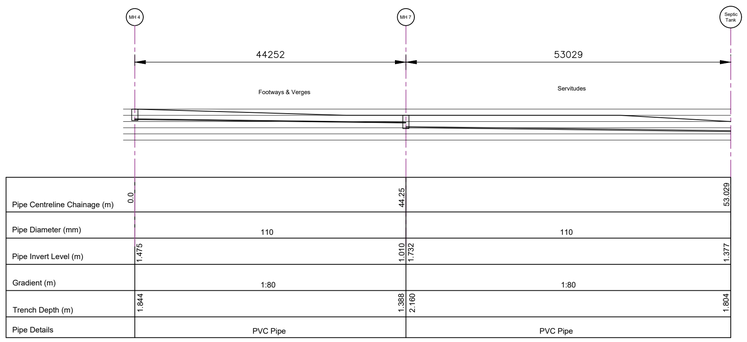
NO CONCRETE TO BE POURED PRIOR TO INSPECTION AND APPROVAL BY SUPERVISING ENGINEER
NOTE:MIN 24hrs NOTICE REQUIRED BEFORE INSPECTION



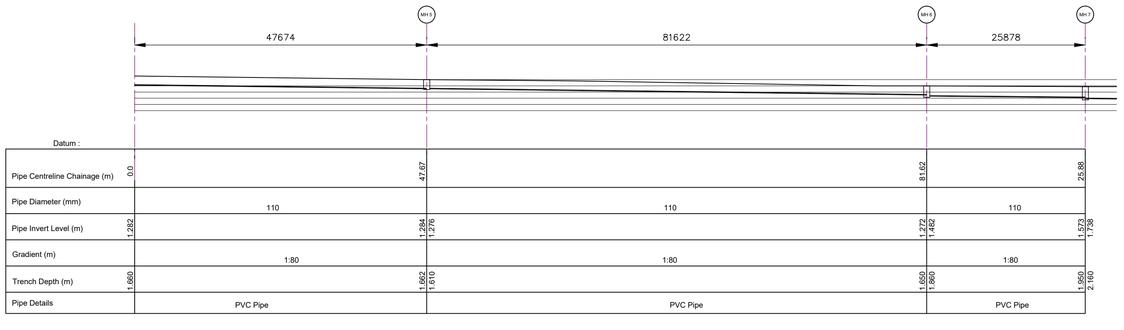
Pipe Centreline Chainage (m)	0.0	20.4	24.14	66.7
Pipe Diameter (mm)	110	110	110	
Pipe Invert Level (m)		0.390 1.600	1.110 1.474	2.269 2.232
Gradient (m)	1:30	1:80	1:80	
Trench Depth (m)	0.960	2.11	1.95	2.61
Pipe Details	PVC Pipe	PVC Pipe	PVC Pipe	



Pipe Centreline Chainage (m)	0.0	23.683	48.412
Pipe Diameter (mm)	110	110	
Pipe Invert Level (m)		0.286 0.682	1.315 1.482
Gradient (m)	1:80	1:80	
Trench Depth (m)	0.780	0.675 1.260	1.575 1.860
Pipe Details	PVC Pipe	PVC Pipe	

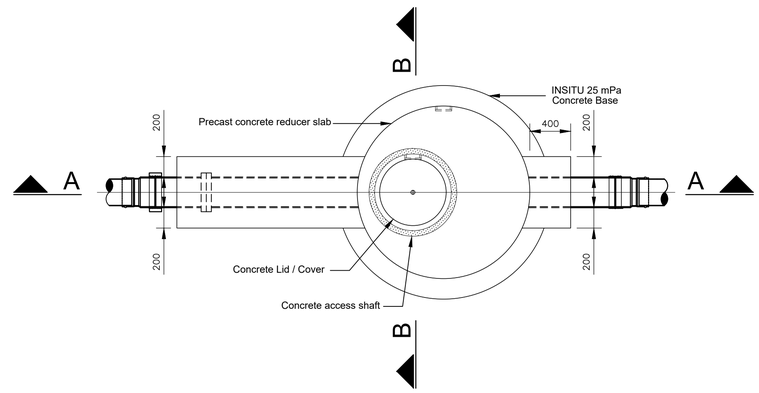


Pipe Centreline Chainage (m)	0.0	44.25	53.029
Pipe Diameter (mm)	110	110	
Pipe Invert Level (m)	1.475	1.010 1.732	1.377
Gradient (m)	1:80	1:80	
Trench Depth (m)	1.844	1.388 2.160	1.894
Pipe Details	PVC Pipe	PVC Pipe	

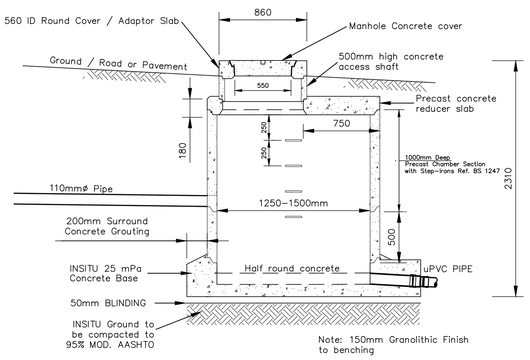


Datum :

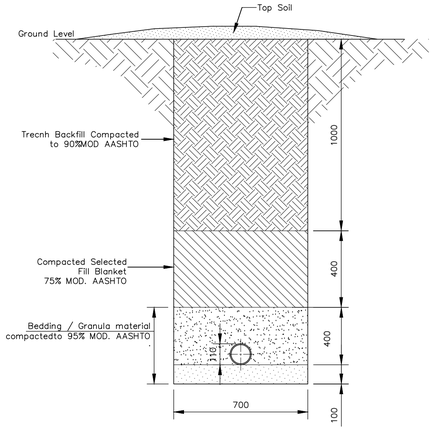
Pipe Centreline Chainage (m)	0.0	47.67	81.62	25.88
Pipe Diameter (mm)	110	110	110	
Pipe Invert Level (m)	1.282	1.284 1.276	1.272 1.482	1.573 1.738
Gradient (m)	1:80	1:80	1:80	
Trench Depth (m)	1.660	1.662 1.610	1.650 1.860	1.960 2.160
Pipe Details	PVC Pipe	PVC Pipe	PVC Pipe	



TYPICAL PLAN
SCALE 1 : 30



SECTION A – A
LONG SECTION THROUGH MANHOLE LESS 2.3m
SCALE 1 : 30



TYPICAL CROSS SECTION – SEWER PIPE BEDDING
SCALE 1 : 15

CLIENT DEPARTMENT SIGNATURES
CLIENT DEPARTMENT STAMP

PROFESSIONAL CONSULTANT
Name: X NXUMALO, Pr Eng
Signature: Date: 28/07/2023

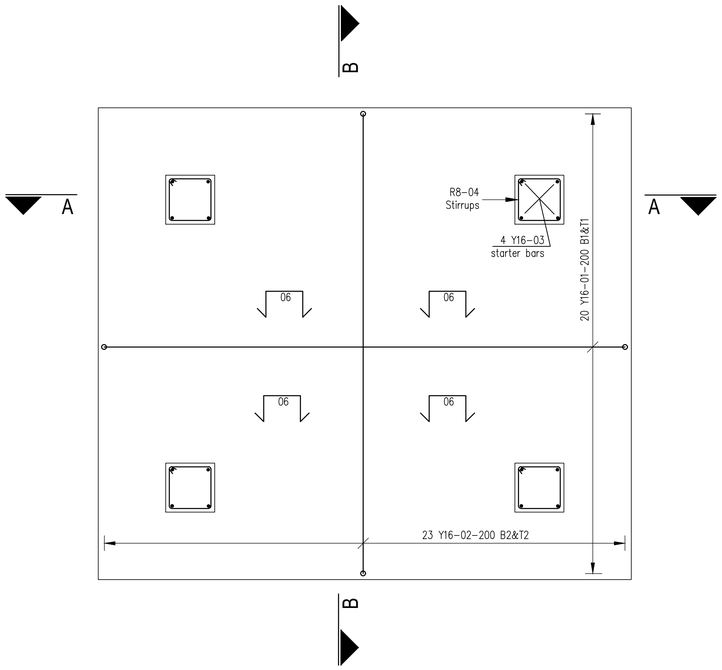
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PROJECT IKANENG HIGH SCHOOL

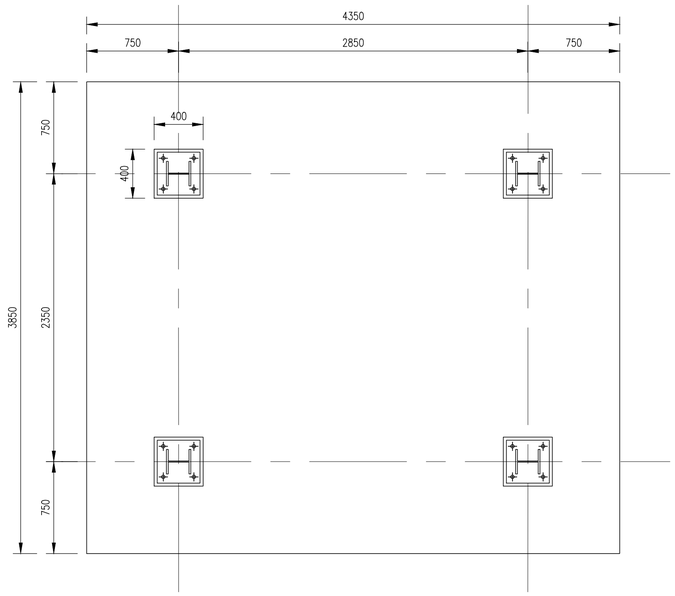
SEWER PIPE LONGITUDINAL SECTION

DRAWN: P. ZUMA DATE: 28/07/2023
SCALE/S: AS SHOWN
CONSULTANT DRAWING NO: GIC/IKA/009 REVISION A
SHEET 3
STAMPED BY PLANS APPROVAL COMMITEE

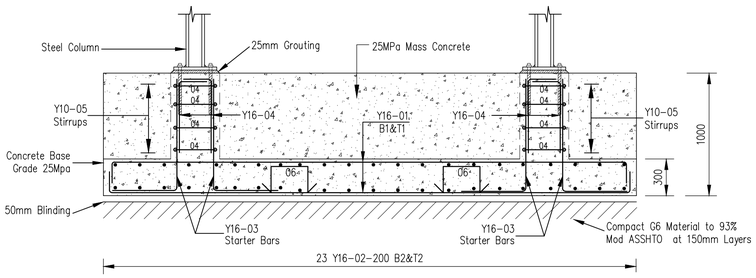
NO CONCRETE TO BE POURED PRIOR TO INSPECTION AND APPROVAL BY SUPERVISING ENGINEER
NOTE:MIN 24hrs NOTICE REQUIRED BEFORE INSPECTION



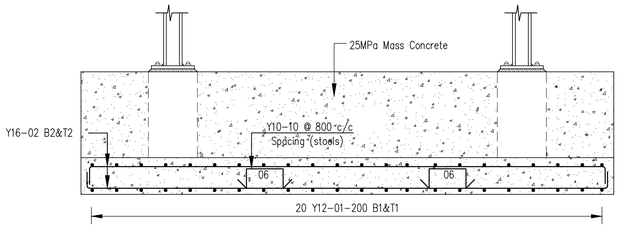
PLAN VIEW
CONCRETE COLUMN BASE – REINFORCING
SCALE 1:25



CONCRETE COLUMN BASE – PLAN VIEW
SCALE 1:25



SECTION A – A
SCALE 1:25



SECTION B – B
SCALE 1:25

PROJECT NAME	IKANENG HIGH SCHOOL												REVISON	A
DRG NO.	GIC-IKA-0012													
STRUCTURAL MEMBER	BAR MARK	REBAR SIZE	No. OF MEMBERS	No. IN EACH	TOTAL NUMBER	CUT LENGTH	SHAPE CODE	DIMENSIONS A	B	C	D	E	SHAPE CODE	TOTAL LENGTH
COLUMN BASE	1	Y16	1	40	40	4550	35	4250						182
	2	Y16	1	46	46	4050	35	3750						186.3
	3	Y16	4	4	16	1050	37	300	750					16.8
	4	R8	4	4	16	750	37	150	600					12
	5	Y16	4	4	16	1500	60	320	320					24
	6	Y10	1	4	4	700	83	300	168	150				2.8

NOTES

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2. ANY DISCREPANCIES AND AMBIGUITIES ON THE ENGINEERS DRAWINGS TO BE REPORTED TO ENGINEERS IMMEDIATELY BY MEANS OF AN RFI (REQUEST FOR INFORMATION).
3. LEVELS AND DIMENSIONS TO BE CHECKED BEFORE ANY WORK COMMENCES. DIMENSIONS ARE NOT TO BE SCALED BESIDES IF THE SCALE IS SPECIFIED IN THE DRAWING.
4. GENERALLY ALL CONCRETE WORK IS TO BE IN ACCORDANCE WITH EITHER THE CONTRACT SPECIFICATIONS, S.A.B.S. 1200, S.A.B.S. 0100 OR S.A.B.S. 0161.
5. ALL REINFORCEMENT STEEL TO BE CHECKED BY THE ENGINEER BEFORE ANY CONCRETE IS CAST. ENSURE THAT THE ENGINEER IS NOTIFIED OF THE INSPECTION DATE IN REASONABLE TIME BEFORE THE CAST TO ALLOW FOR TRAVEL ARRANGEMENTS.
6. CONCRETE STRENGTH TO BE AS FOLLOWS, UNLESS OTHERWISE INDICATED:
   R.C. COLUMN 25MPa
   R.C. BASES 25MPa

   THE ABOVE MENTIONED STRENGTH IS TO BE ACHIEVED AT 28 DAYS WITH 19mm APPROVED STONE
7. ALL CONCRETE TO BE MOIST CURED FOR MINIMUM OF 7 DAYS AFTER FINAL SET OF CONCRETE USING A METHOD APPROVED BY THE ENGINEER.
8. NO CONDUITS, PIPES OR ELECTRICAL OR MECHANICAL EQUIPMENT SHALL BE CAST INTO CONCRETE UNLESS INDICATED ON DRAWINGS, DETAILED IN SPECIFICATIONS OR APPROVED BY THE ENGINEER.
9. HOT / DRY AND COLD / WET WEATHER CONCRETING AS PER SPECIFICATIONS.
10. LOADING ON STRUCTURE DURING CONSTRUCTION NOT TO EXCEED 100kg/m², UNLESS OTHERWISE INDICATED.
11. STRIPPING OF FORMWORK AS PER SPECIFICATION AND ONLY WITH APPROVAL OF ENGINEER. STRIPPING OF SHUTTERING CAN TAKE PLACE AFTER 14 DAYS, UNLESS OTHERWISE INDICATED. BACK PROP TO BE IN PLACE FOR A MINIMUM OF 28 DAYS.

NOTES: REINFORCING

1. REINFORCEMENT SHALL BE CHECKED BY THE ENGINEER ONLY AFTER IT HAS BEEN COMPLETELY FIXED IN POSITION, FORMWORK IS CLEAN, SPACERS ARE PLACED IN POSITION AND AFTER THE CONTRACTOR HAS CERTIFIED IT CORRECT.
2. THE MINIMUM CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE
   R.C. COLUMN 40mm
   R.C. BASE 50mm
3. WELDING OF REINFORCEMENT IS NOT ALLOWED, UNLESS APPROVED BY THE ENGINEER IN WRITING.

T	TOP STEEL
T1	1st LAYER OF STEEL FROM THE TOP
B	BOTTOM STEEL
B1	1st LAYER OF STEEL FROM THE BOTTOM
B2	2nd LAYER OF STEEL FROM THE BOTTOM
T2	2ND LAYER OF STEEL FROM THE TOP

CLIENT DEPARTMENT SIGNATURES
CLIENT DEPARTMENT STAMP

PROFESSIONAL CONSULTANT
Name: X NXUMALO, Pr Eng
Signature: Date: 28/07/2023

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PROJECT IKANENG HIGH SCHOOL

CONCRETE COLUMN BASE
PRESSED STEEL TANK

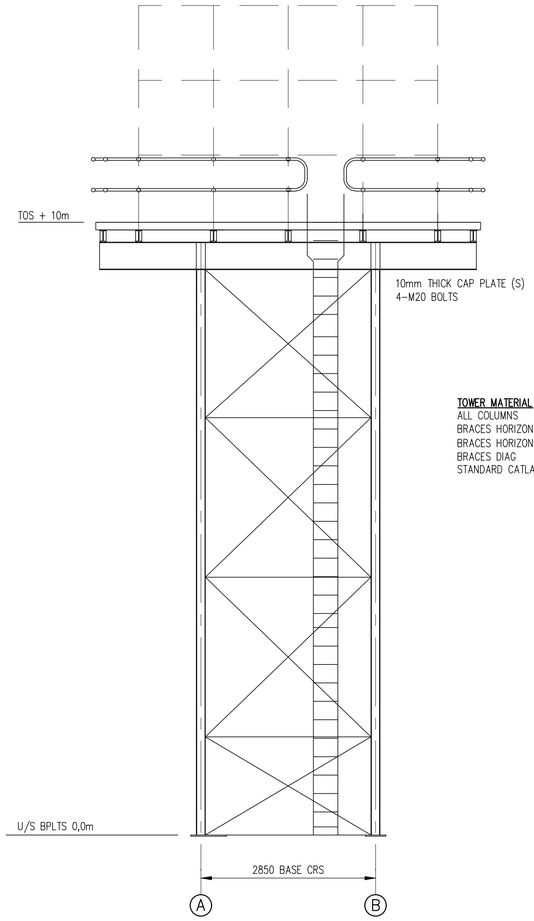
COLUMN BASE LAYOUT
CONCRETE & REINFORCING DETAILING
PLAN VIEW & SECTIONS

DRAWN: P. ZUMA DATE: 28/07/2023
SCALE/S: AS SHOWN
CONSULTANT DRAWING NO: GIC/IKA/0012 REVISION A
SHEET 1
STAMPED BY PLANS APPROVAL COMMITEE

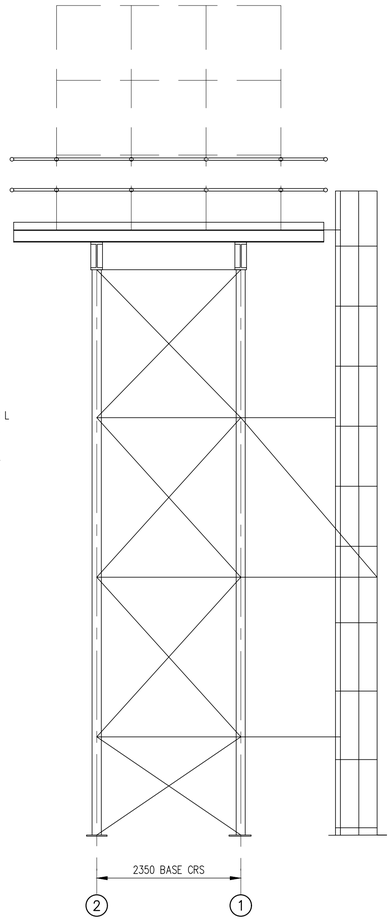
NO CONCRETE TO BE POURED PRIOR TO INSPECTION AND APPROVAL BY SUPERVISING ENGINEER
NOTE:MIN 24hrs NOTICE REQUIRED BEFORE INSPECTION

TYPICAL PRESSED STEEL TANK

TYPICAL EXAMPLE : 4880x1.22 TWO PANELS
14.527 CAPACITY PRESSED STEEL TANK



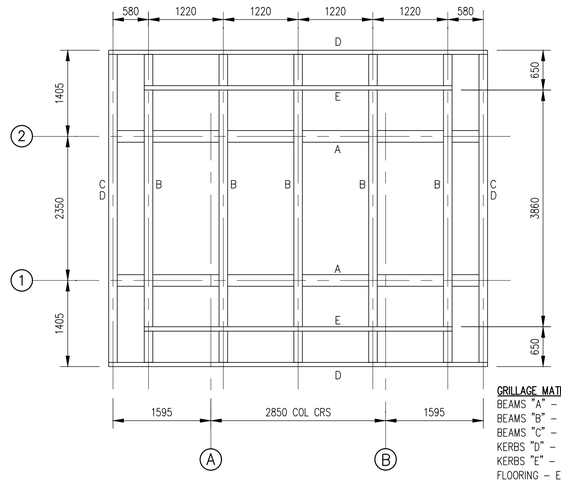
FRONT ELEVATION
NOT TO SCALE



SIDE ELEVATION
NOT TO SCALE

TOWER MATERIAL

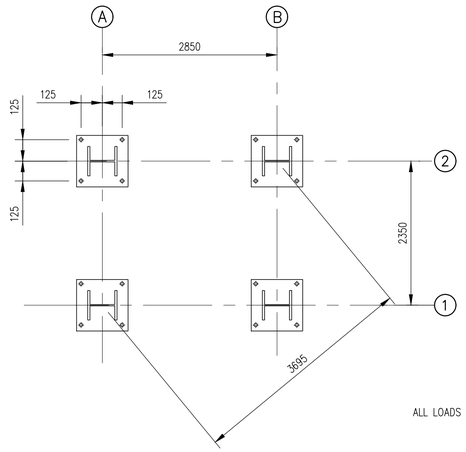
ALL COLUMNS	– 152x152x6 L
BRACES HORIZONTAL (LS)	– 80x80x6 L
BRACES HORIZONTAL (SS)	– 70x70x6 L
BRACES DIAG	– 60x60x5 L
STANDARD CATLADDER	390 WIDE M20 RUNGS



PLAN ON GRILLAGE BEAMS
NOT TO SCALE

GRILLAGE MATERIAL

BEAMS "A" – 305x165x40 UB + 80x80 FLT STIFF(s)
BEAMS "B" – 203x133x25 UB + 65x6 FLT STIFF(s)
BEAMS "C" – IPE 200 + 45x6 FLT STIFF(s)
KERBS "D" – 125x75x8 L
KERBS "E" – 60x60x5 L
FLOORING – EXPANDED METAL TYPE "VEM487/17M
FASTENED TO MANUFACTURES RECOMMENDATION
HANDLING – TUBULAR INDUSTRIAL TYPE



FOUNDATION NOTES:

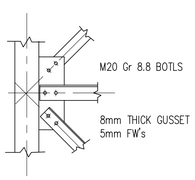
350x25 BASE PLATE x 350 LG
4– 28Dia HLS FOR M24 H.D BOLTS
100x100x12 PLATE WASHERS
100 PROJECTION. 400 EMBEDMENT
25 GROUT
COLUMN/BASE PLATE WELD – 6C.F

Vertical Load / Base	
Dead Load	24KN
Water Load	164KN
Wind Load	+–146KN

Horizontal Load / Base	
Wind L	+– 27KN

ALL LOADS UNFACTORED

PLAN ON BASE PLATE
NOT TO SCALE



TYPICAL BRACING CONNECTION
NOT TO SCALE

CLIENT DEPARTMENT SIGNATURES
CLIENT DEPARTMENT STAMP

PROFESSIONAL CONSULTANT

Name: X NXUMALO, Pr Eng

Signature: Date: 28/07/2023

GUDUNKOMO
INVESTMENTS AND CONSULTING

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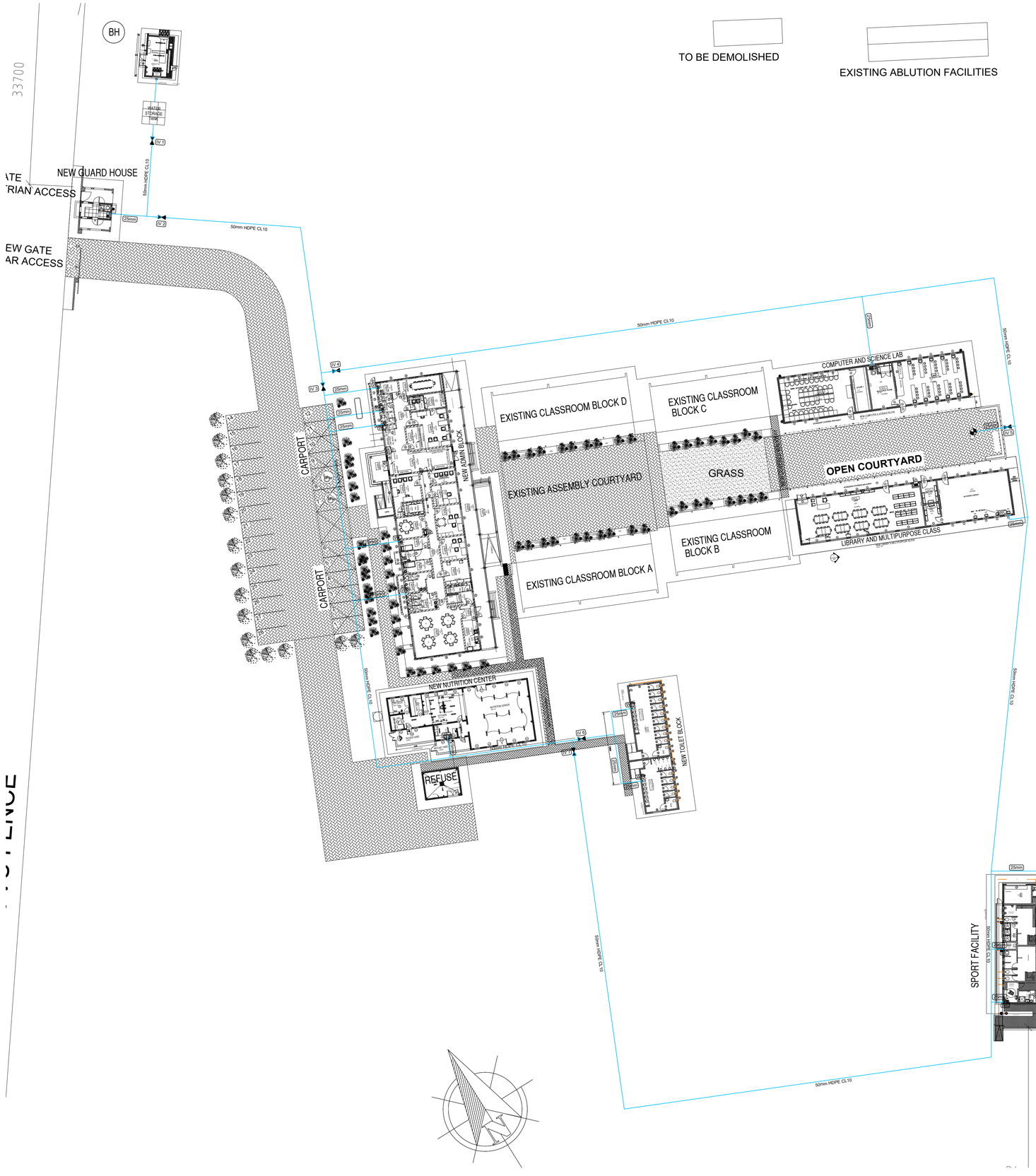
PROJECT IKANENG HIGH SCHOOL

TYPIICAL STEET TANK

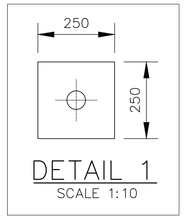
PLAN VIEW, SECTIONS & DETAILS

DRAWN: P. ZUMA DATE: 28/07/2023
SCALE/S: AS SHOWN
CONSULTANT DRAWING NO: GIC/IKA/0012 REVISION A
SHEET 2
STAMPED BY PLANS APPROVAL COMMITEE

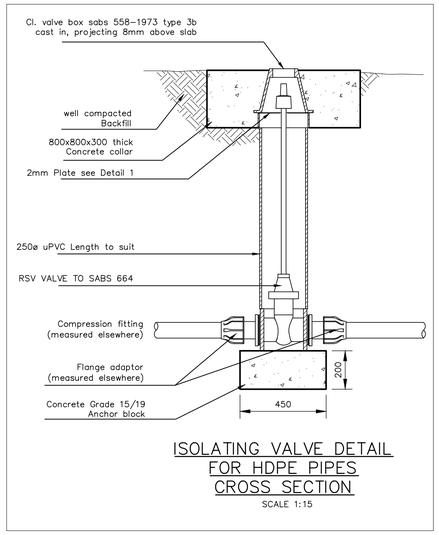
NO CONCRETE TO BE POURED PRIOR TO INSPECTION AND APPROVAL BY SUPERVISING ENGINEER
NOTE:MIN 24hrs NOTICE REQUIRED BEFORE INSPECTION



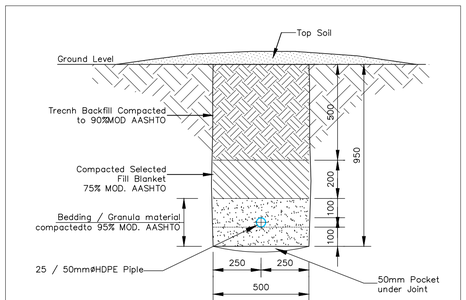
LEGEND	
	WATER PIPELINE
	FIRE PIPELINE 50mm Ø HDPE CL 10
	SEWER PIPELINE 110mm Ø PVC
	SEWER MANHOLE 1000mm Ø
	STORMWATER MANHOLE
	STORM V-DRAIN CAST IN SITU CONC
	STORMWATER CATCHPIT (FIELD INLET)
	ISOLATING VALVE
	STANDPIPE / DRINKING FOUNTAIN
WC	WATER CONNECTION
BH	BOREHOLE (NEW / REFURBISHED)
MC	NEW METER CHAMBER



DETAIL 1
SCALE 1:10



ISOLATING VALVE DETAIL
FOR HDPE PIPES
CROSS SECTION
SCALE 1:15



TYPICAL CROSS SECTION
BOTH 25 & 50dia
WATER PIPE BEDDING
SCALE 1 : 15

CLIENT DEPARTMENT SIGNATURES
CLIENT DEPARTMENT STAMP

PROFESSIONAL CONSULTANT

Name: X NXUMALO, Pr Eng

Signature: Date: 28/07/2023

GUDUNKOMO INVESTMENTS AND CONSULTING

PRO-SERVE GROUP positive impact today... for tomorrow

idt independent development trust

PROJECT IKANENG HIGH SCHOOL

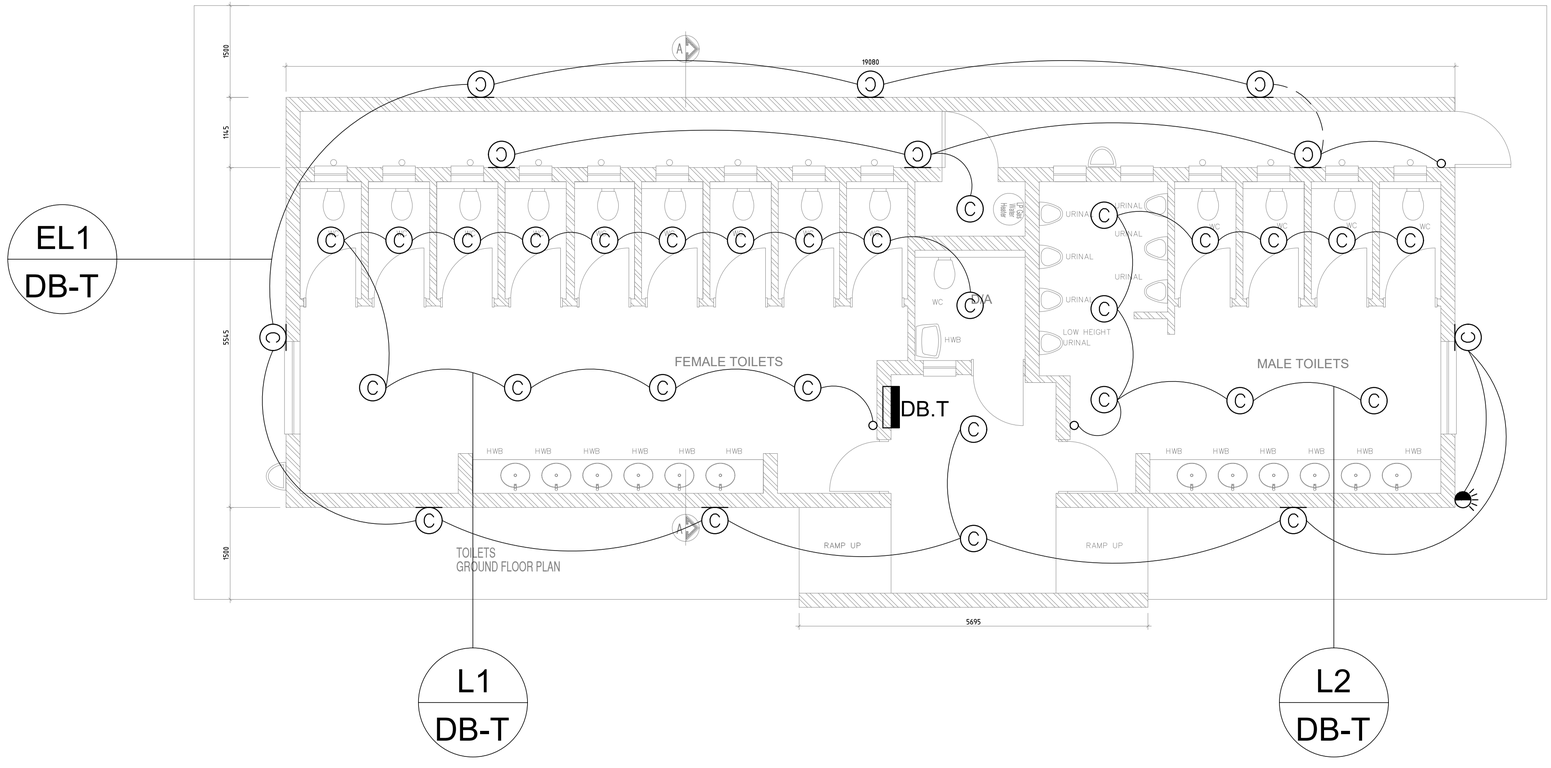
WATER SERVICE LAYOUT- RETICULATION

PLAN VIEW

DRAWN: P. ZUMA	DATE: 28/07/2023
SCALE/S: AS SHOWN	
CONSULTANT DRAWING NO: GIC/IKA/0012	REVISION A
	SHEET 3
STAMPED BY PLANS APPROVAL COMMITEE	

ANNEXURE C

ELECTRICAL AND MECHANICAL DRAWINGS



NEW TOILET BLOCK – LIGHTING LAYOUT
SCALE 1:50

LEGEND

- 2 x 22W T8 LED, OPEN CHANNEL LUMINAIRE.
- 2 X 22W T8 LED, SURFACE MOUNTED VAPOURPROOF LUMINAIRE. IP65
- 15W LED ROUND ENERGY SAVING CEILING MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- 15W LED ROUND ENERGY SAVING WALL MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- SINGLE LEVER 16A SWITCH
- DAY/NIGHT SWITCH
- ELECTRICAL DISTRIBUTION BOARD

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

Consultants:

RIVONINGO CONSULTING ENGINEERS

Unit G15, Pinewood Office Park,
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E-mail: info@rivoningo.com

Project

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

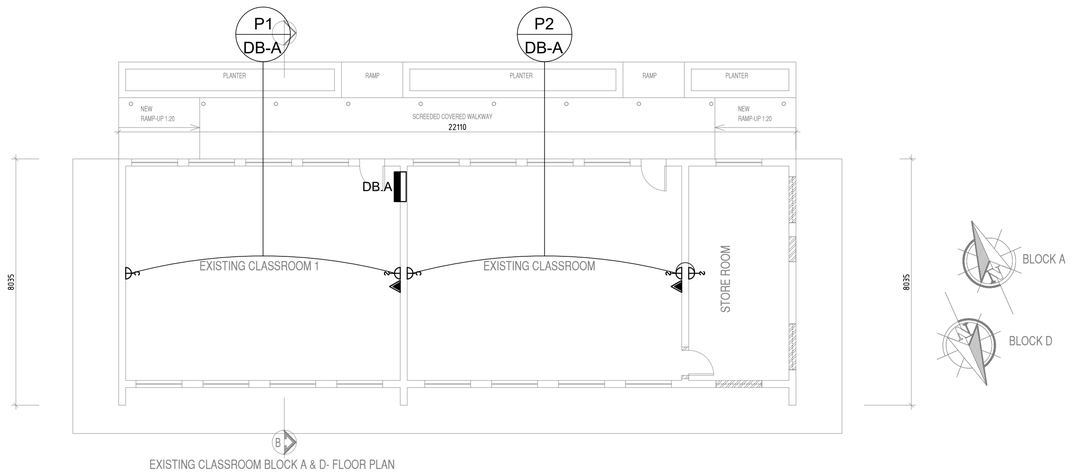
Drawing

NEW TOILET BLOCK
LIGHTING LAYOUT

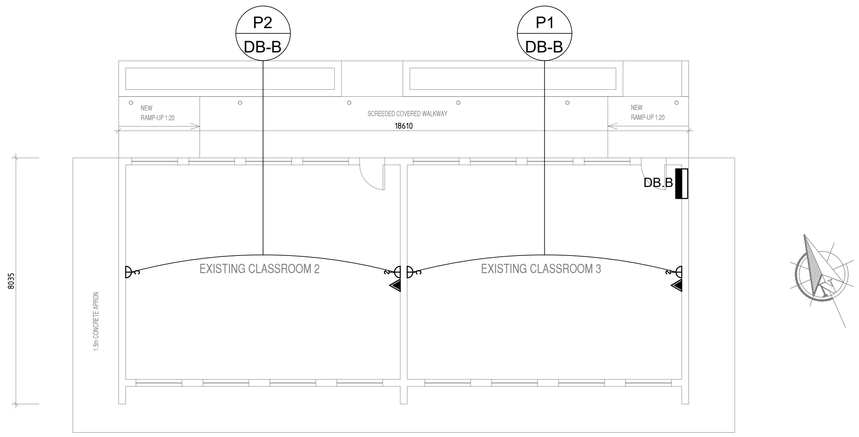
FOR TENDER

Scale	Date	Designed	Drawn
1:50	JUNE 2023	T.M	J.L

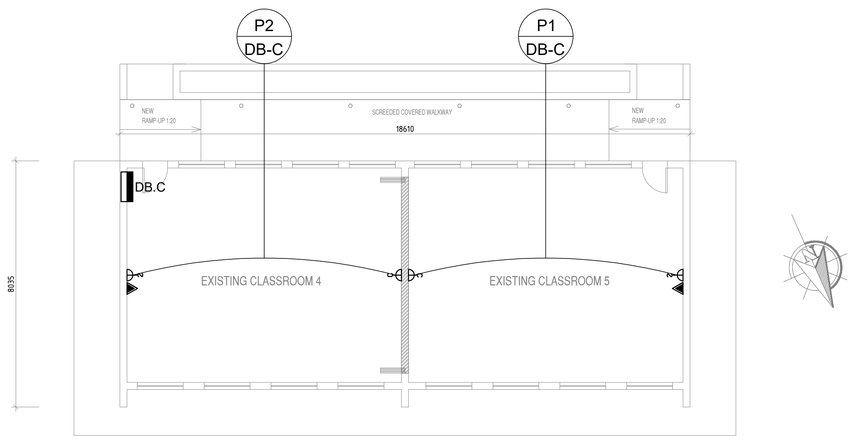
Project No	Drawing No	Revision
RI-613	RI-613-E-10	0



EXISTING CLASSROOM BLOCK A & D- FLOOR PLAN



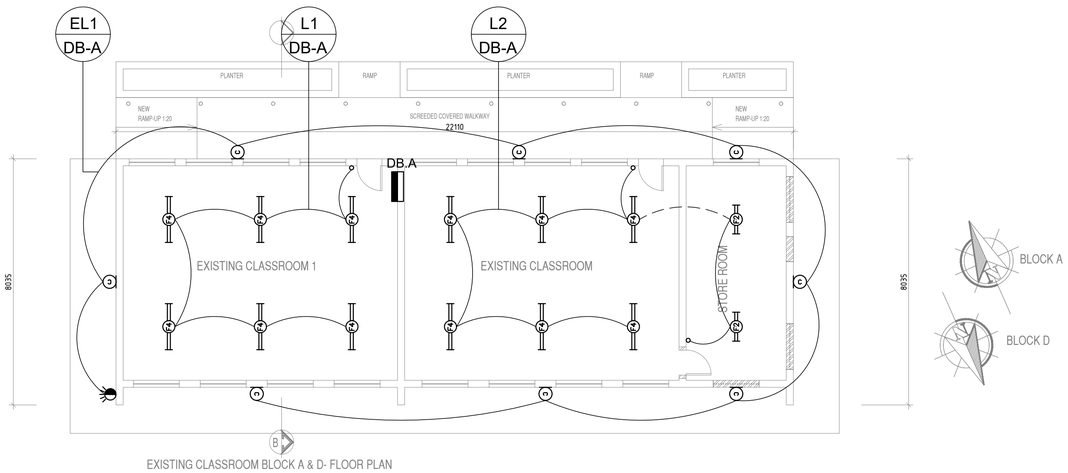
EXISTING CLASSROOM BLOCK B- FLOOR PLAN



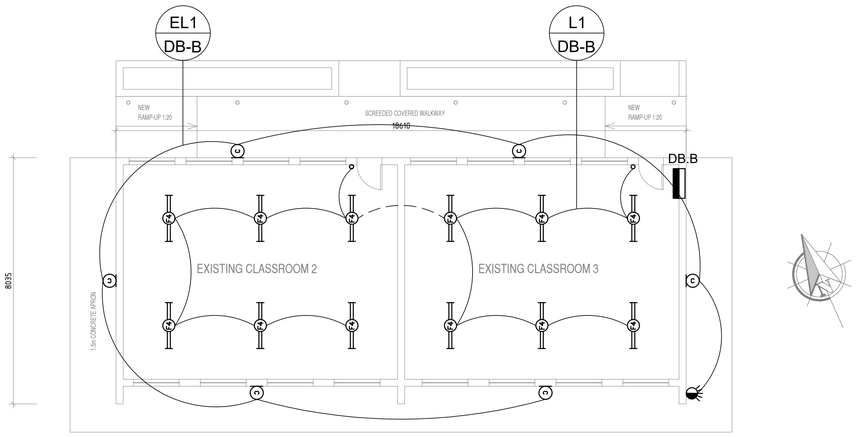
EXISTING CLASSROOM BLOCK C- FLOOR PLAN

EXISTING CLASSROOMS – POWER LAYOUT

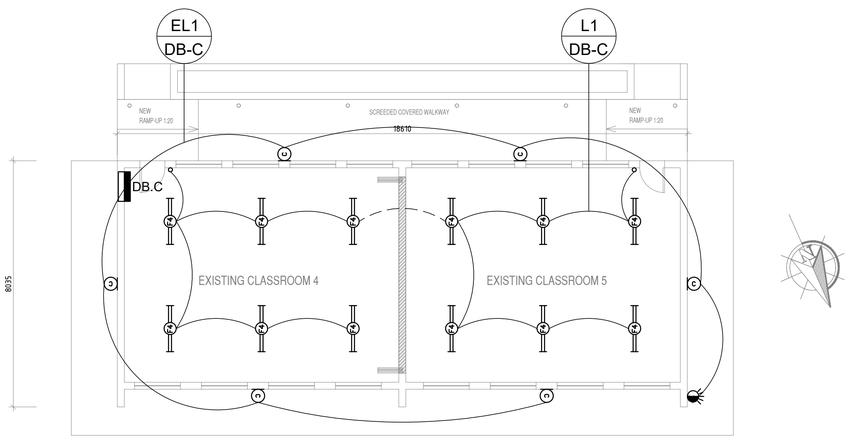
SCALE 1:100



EXISTING CLASSROOM BLOCK A & D- FLOOR PLAN



EXISTING CLASSROOM BLOCK B- FLOOR PLAN



EXISTING CLASSROOM BLOCK C- FLOOR PLAN

EXISTING CLASSROOMS – LIGHTING LAYOUT

SCALE 1:100

LEGEND

- 16A ROUND 3-PIN SWITCH SOCKET AND SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- 16A ROUND 3-PIN DOUBLE SWITCHED SOCKET AND DOUBLE SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- ISOLATED SUPPLY PLUG WITH 2 POLE CB
- 16A DEDICATED 3-PIN SWITCH SOCKET WITH PLUG TOP IN POWER SKIRTING WITH SHAVED EARTH PIN INSULATED FROM CHASSIS
- 2WAY INTERCOM SPEAKER.
- POWER SKIRTING
- COMBINED DATA AND TELEPHONE POINTS.
- 2 DOUBLE DATA POINT @2200mm AFFL.
- POWERSKIRTING DROP
- ELECTRICAL DISTRIBUTION BOARD

LEGEND

- 2 x 22W T8 LED, OPEN CHANNEL LUMINAIRE.
- C — 15W LED ROUND ENERGY SAVING CEILING MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- W — 15W LED ROUND ENERGY SAVING WALL MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- SINGLE LEVER 16A SWITCH
- 2W — SINGLE LEVER TWO WAY 16A SWITCH
- DAY/NIGHT SWITCH
- ELECTRICAL DISTRIBUTION BOARD

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

Consultants:

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Project

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

Drawing

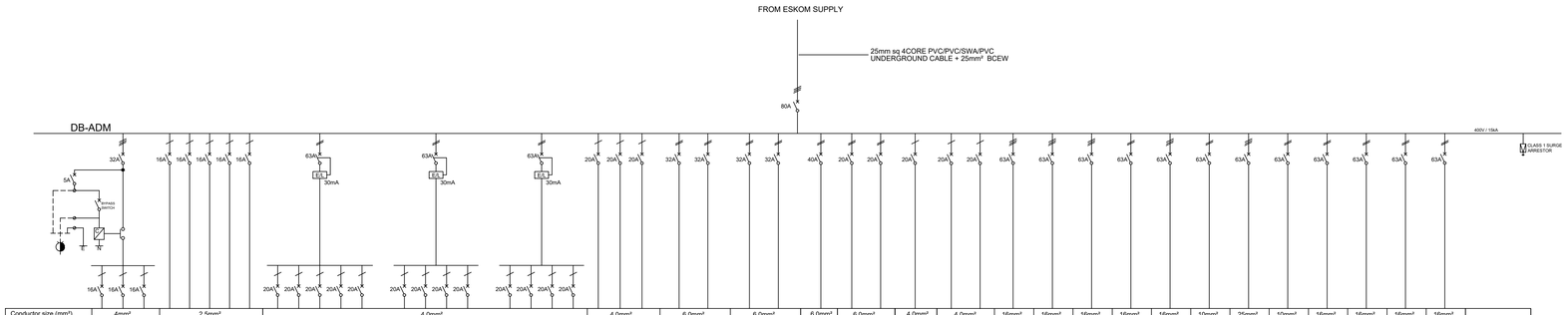
EXISTING CLASSROOMS
POWER AND LIGHTING LAYOUT

FOR TENDER

Scale	Date	Designed	Drawn
1:100	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-11	0

DB-ADM


FROM ESKOM SUPPLY
25mm sq 4CORE PVC/PVC/SWA/PVC
UNDERGROUND CABLE + 25mm² BCEW
80A
400V / 15kA
CLASS 1 SURGE ARRESTOR
5A
BYPASS SWITCH
63A
ELCB
30mA

| | | |



SITE PLAN
SCALE 1:500

LEGEND

- METER KIOSK TO SUPPLY AUTHORITY REQUREMENTS INCLUDING EQUIPMENT.
- ELECTRICAL DISTRIBUTION BOARD.
- ELECTRICAL CABLE ROUTE.
- 600X600X600mm MANHOLE.

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

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Project

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PROPOSED ADDITION & REFURBISHMENTS

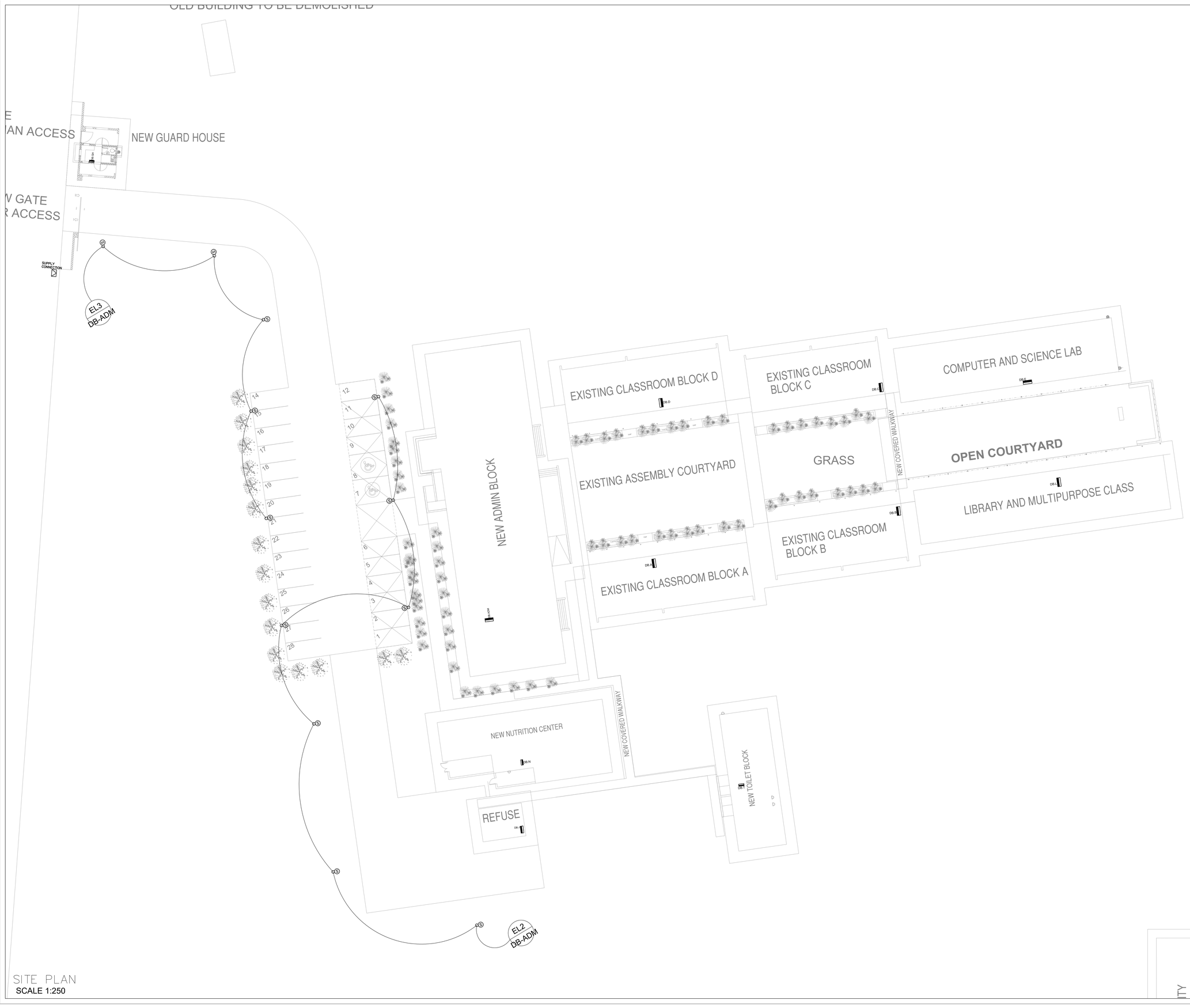
Drawing

SITE PLAN
SLEEVES & RETICULATION LAYOUT

FOR TENDER

Scale	Date	Designed	Drawn
1:500	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-01	0



SITE PLAN
SCALE 1:250

LEGEND

55W LED POST TOP LUMINAIRE ON 3.6m HIGH (3.0m m/h) STEEL POLE.

ELECTRICAL DISTRIBUTION BOARD.

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

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Project

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

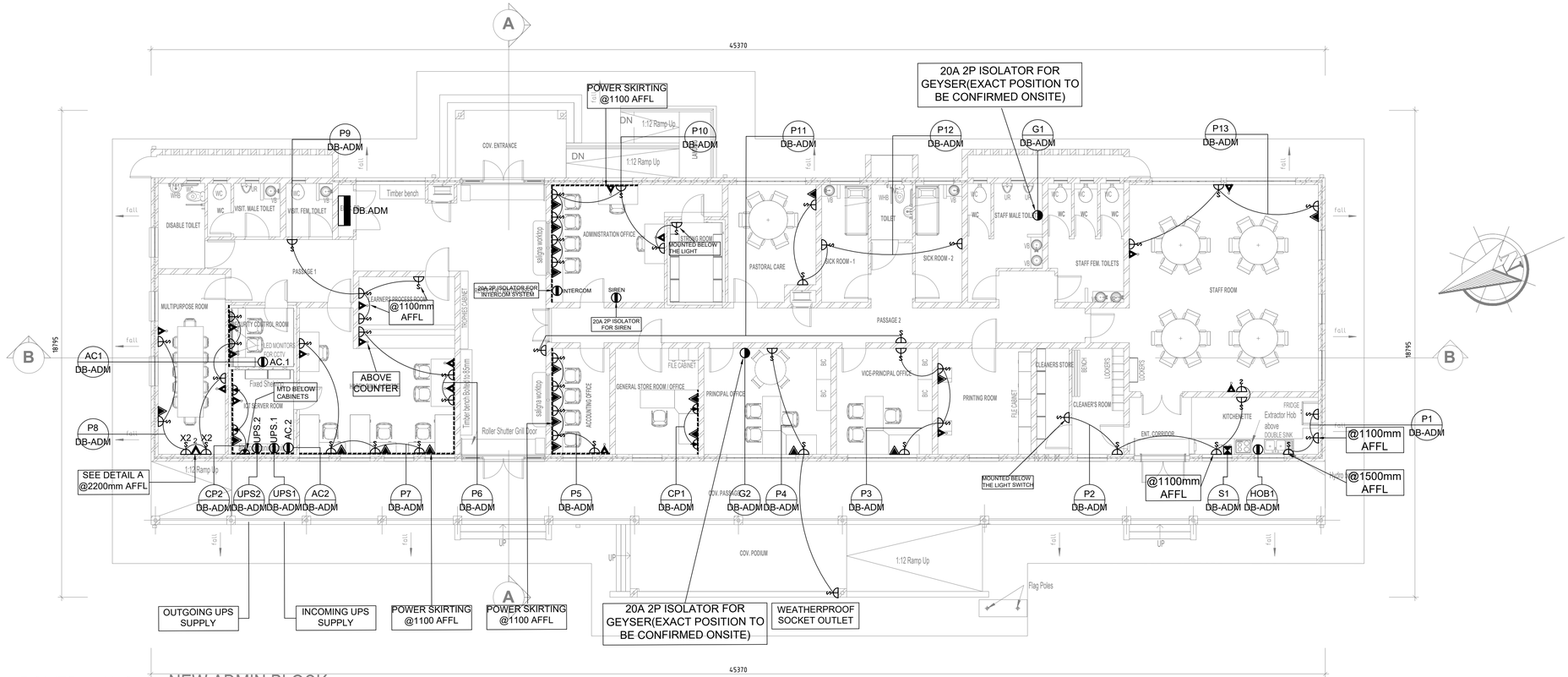
Drawing

SITE PLAN
EXTERNAL LIGHTING LAYOUT

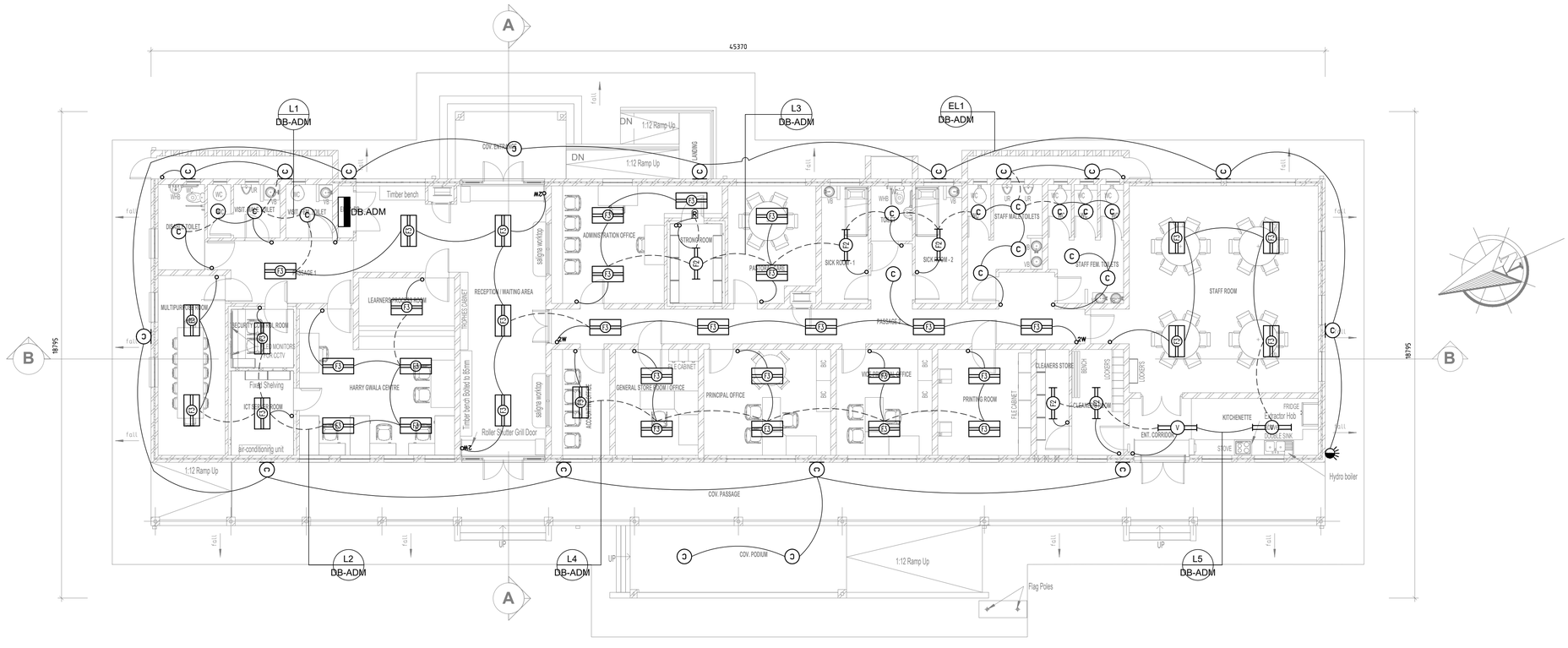
FOR TENDER

Scale	Date	Designed	Drawn
1:250	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-02	0



NEW ADMIN BLOCK – POWER LAYOUT NEW ADMIN BLOCK
SCALE 1:100



NEW ADMIN BLOCK – LIGHTING LAYOUT NEW ADMIN BLOCK
SCALE 1:100

LEGEND

- SANS 164-1(CONVENTIONAL) AND SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- ISOLATED SUPPLY PLUG WITH 2 POLE CB
- 16A DEDICATED 3-PIN SWITCH SOCKET WITH PLUG TOP IN POWER SKIRTING WITH SHAVED EARTH PIN INSULATED FROM CHASSIS
- 2WAY INTERCOM SPEAKER.
- POWER SKIRTING
- DATA POINT.
- COMBINED DATA AND TELEPHONE POINTS.
- DOUBLE DATA POINT @2200mm AFFL.
- POWERSKIRTING DROP
- ELECTRIC STOVE ISOLATOR
- ISOLATOR
- ELECTRIC GEYSER.
- INDICATES CIRCUITS.
- B — 200mm DIA 230V BELL WITH 2P ISOLATOR ABOVE DOOR HEIGHT
- ELECTRICAL DISTRIBUTION BOARD

LEGEND

- 60W, 1200x600mm RECESSED LED PANEL LUMINAIRE COMPLETE WITH COOL WHITE LAMPS AND PRISMATIC CLEAR DIFFUSER.
- 2 x 18W T8 LED, OPEN CHANNEL LUMINAIRE.
- V — 2 X 22W T8 LED, SURFACE MOUNTED VAPOURPROOF LUMINAIRE. IP65
- C — 15W LED ROUND ENERGY SAVING CEILING MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- W — 15W LED ROUND ENERGY SAVING WALL MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- STROBE LIGHT MOUNTED ABOVE DOOR.
- SINGLE LEVER 16A SWITCH
- 2W — SINGLE LEVER TWO WAY 16A SWITCH
- DAY/NIGHT SWITCH
- ELECTRICAL DISTRIBUTION BOARD

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

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Project

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

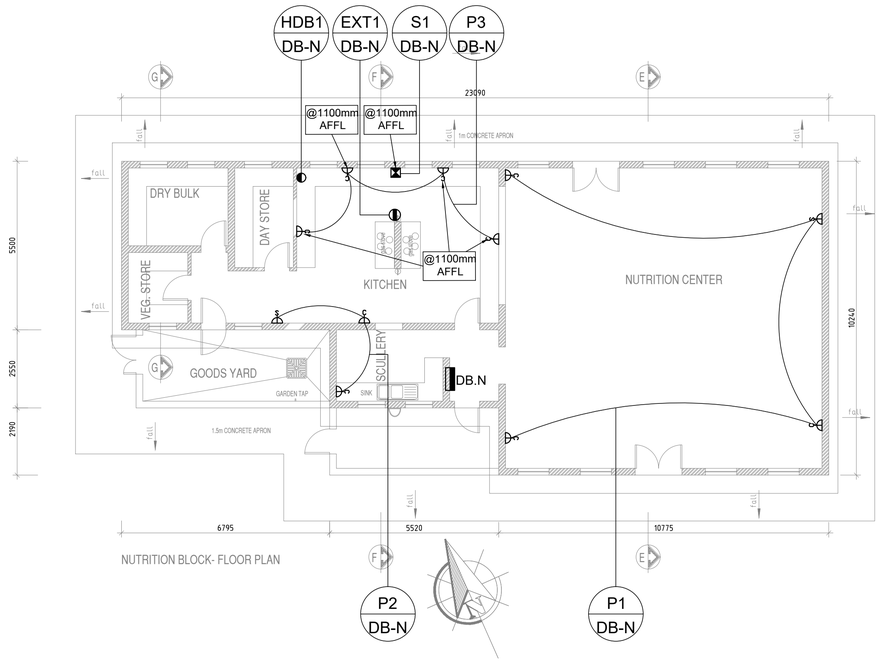
Drawing

NEW ADMIN BLOCK
POWER AND LIGHTING LAYOUT

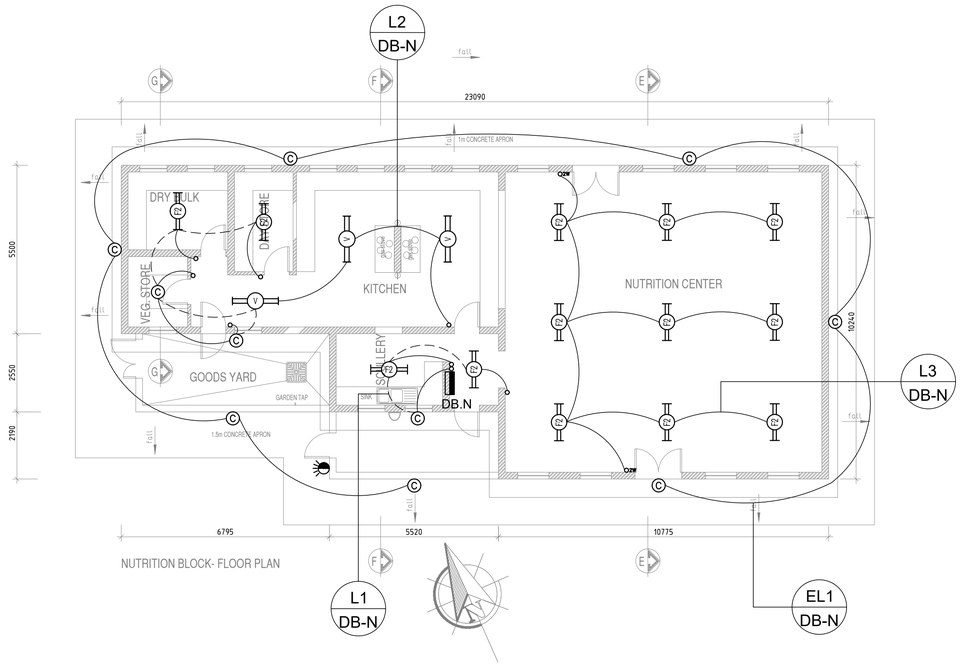
FOR TENDER

Scale	Date	Designed	Drawn
1:100	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-03	0



NEW NUTRITION BLOCK – POWER LAYOUT
SCALE 1:100



NEW NUTRITION BLOCK – LIGHTING LAYOUT
SCALE 1:100

LEGEND

- 16A ROUND 3-PIN SWITCH SOCKET AND SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- 16A ROUND 3-PIN DOUBLE SWITCHED SOCKET AND DOUBLE SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- ISOLATED SUPPLY PLUG WITH 2 POLE CB
- 16A DEDICATED 3-PIN SWITCH SOCKET WITH PLUG TOP IN POWER SKIRTING WITH SHAVED EARTH PIN INSULATED FROM CHASSIS
- ELECTRIC STOVE ISOLATOR
- ISOLATOR
- ELECTRIC GEYSER.
- ELECTRICAL DISTRIBUTION BOARD

LEGEND

- 60W, 1200x600mm RECESSED LED PANEL LUMINAIRE COMPLETE WITH COOL WHITE LAMPS AND PRISMATIC CLEAR DIFFUSER.
- 2 x 18W T8 LED, OPEN CHANNEL LUMINAIRE.
- 2 X 22W T8 LED, SURFACE MOUNTED VAPOURPROOF LUMINAIRE. IP65
- 15W LED ROUND ENERGY SAVING CEILING MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- 15W LED ROUND ENERGY SAVING WALL MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- STROBE LIGHT
- SINGLE LEVER 16A SWITCH
- SINGLE LEVER TWO WAY 16A SWITCH
- DAY/NIGHT SWITCH
- ELECTRICAL DISTRIBUTION BOARD

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

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Project

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

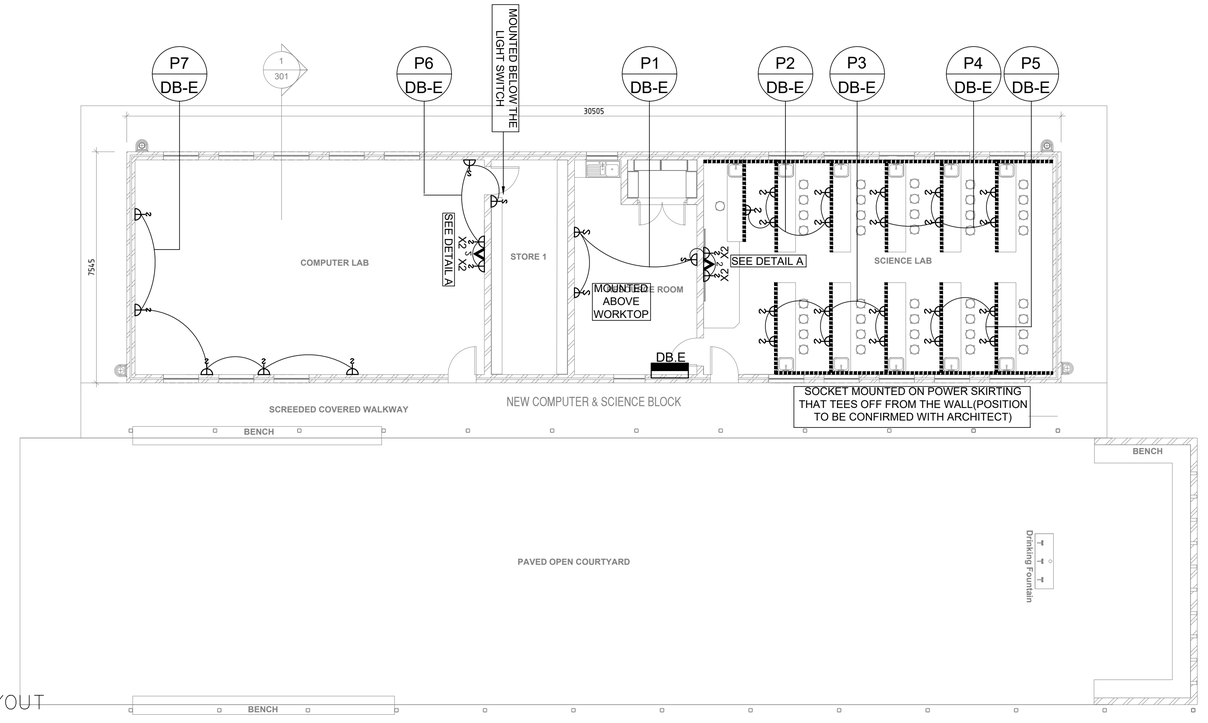
Drawing

NEW NUTRITION BLOCK
POWER AND LIGHTING LAYOUT

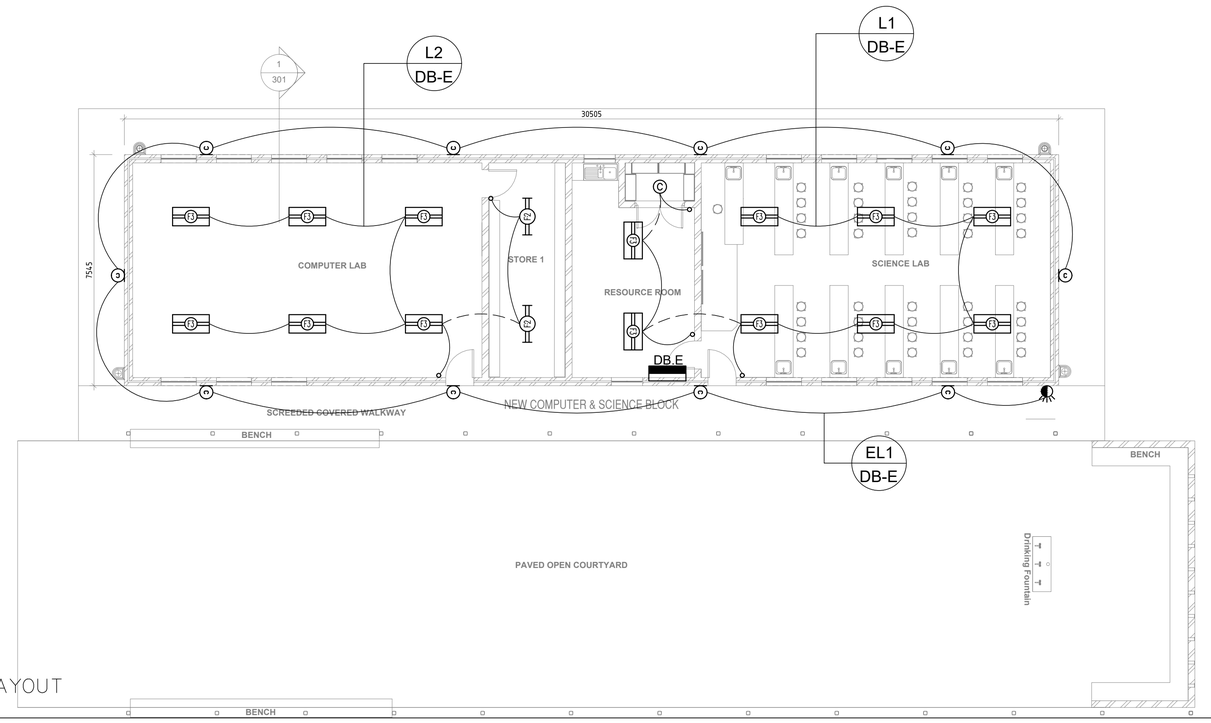
FOR TENDER

Scale	Date	Designed	Drawn
1:100	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-04	0



NEW COMPUTER & SCIENCE BLOCK – POWER LAYOUT
SCALE 1:100



NEW COMPUTER & SCIENCE BLOCK – LIGHTING LAYOUT
SCALE 1:100

LEGEND

- 16A ROUND 3-PIN SWITCH SOCKET AND SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- 16A ROUND 3-PIN DOUBLE SWITCHED SOCKET AND DOUBLE SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- ISOLATED SUPPLY PLUG WITH 2 POLE CB
- 16A DEDICATED 3-PIN SWITCH SOCKET WITH PLUG TOP IN POWER SKIRTING WITH SHAVED EARTH PIN INSULATED FROM CHASSIS
- 2WAY INTERCOM SPEAKER.
- POWER SKIRTING
- COMBINED DATA AND TELEPHONE POINTS.
- 2 DOUBLE DATA POINT @2200mm AFFL.
- POWERSKIRTING DROP
- ELECTRICAL DISTRIBUTION BOARD

LEGEND

- 60W, 1200x600mm RECESSED LED PANEL LUMINAIRE COMPLETE WITH COOL WHITE LAMPS AND PRISMATIC CLEAR DIFFUSER.
- 2 x 18W T8 LED, OPEN CHANNEL LUMINAIRE.
- 15W LED ROUND ENERGY SAVING CEILING MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- 15W LED ROUND ENERGY SAVING WALL MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- SINGLE LEVER 16A SWITCH
- SINGLE LEVER TWO WAY 16A SWITCH
- DAY/NIGHT SWITCH
- ELECTRICAL DISTRIBUTION BOARD

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

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IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

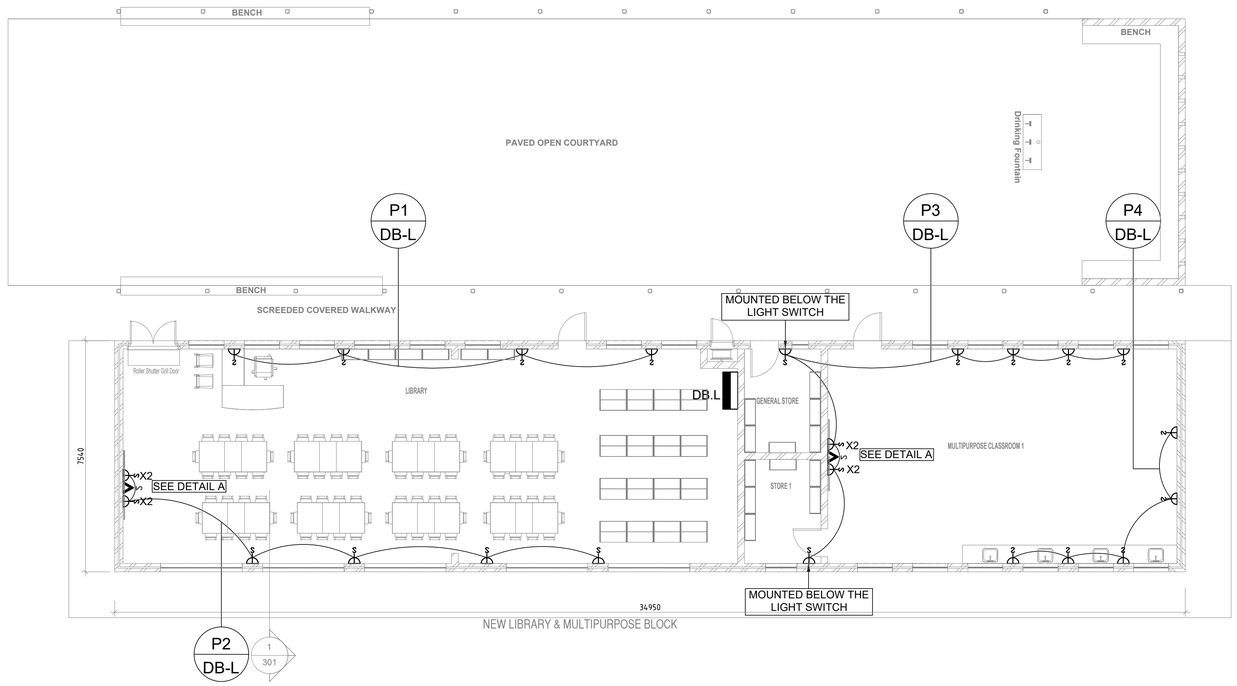
Drawing

NEW COMPUTER & SCIENCE BLOCK
POWER AND LIGHTING LAYOUT

FOR TENDER

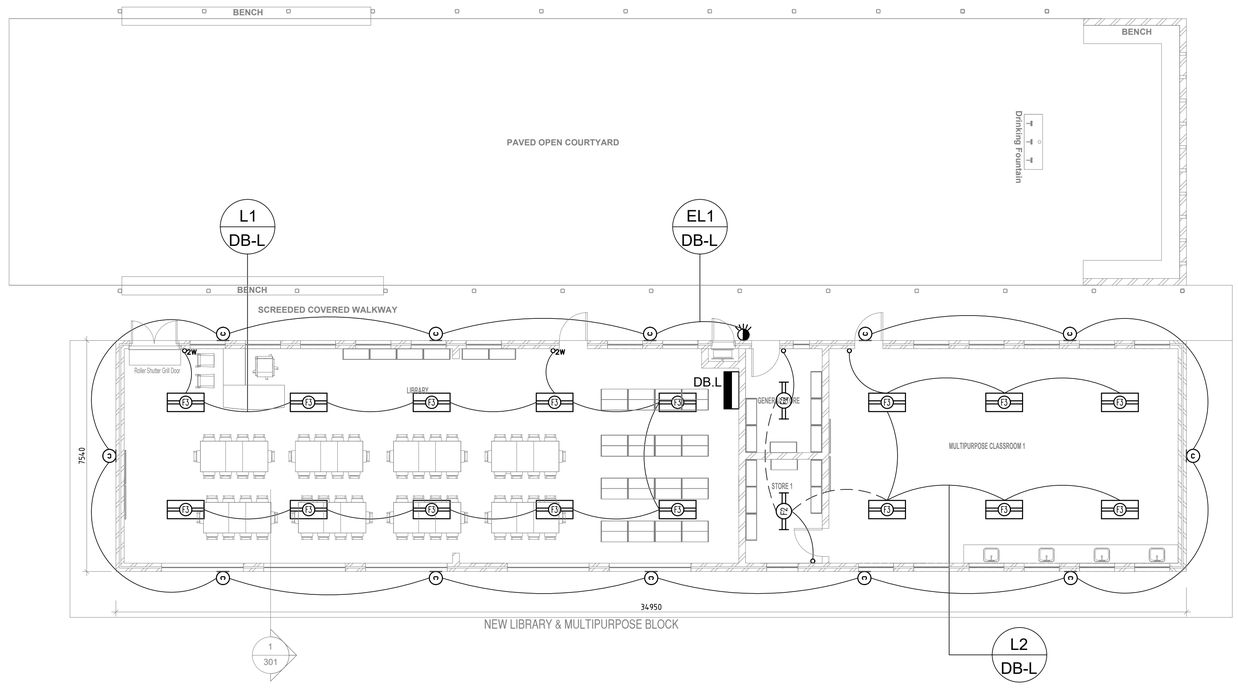
Scale	Date	Designed	Drawn
1:100	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-05	0



NEW LIBRARY & MULTIPURPOSE BLOCK – POWER LAYOUT

SCALE 1:100



NEW LIBRARY & MULTIPURPOSE BLOCK – LIGHTING LAYOUT

SCALE 1:100

LEGEND

- 16A ROUND 3-PIN SWITCH SOCKET AND SANS 164-2(IEC) SOCKET @300mm affl (UNLESS OTHERWISE INDICATED)
- 16A ROUND 3-PIN DOUBLE SWITCHED SOCKET AND DOUBLE SANS 164-2(IEC) SOCKET @300mm affl (UNLESS OTHERWISE INDICATED)
- ISOLATED SUPPLY PLUG WITH 2 POLE CB
- 16A DEDICATED 3-PIN SWITCH SOCKET WITH PLUG TOP IN POWER SKIRTING WITH SHAVED EARTH PIN INSULATED FROM CHASSIS
- 2WAY INTERCOM SPEAKER.
- POWER SKIRTING
- COMBINED DATA AND TELEPHONE POINTS.
- 2 DOUBLE DATA POINT @2200mm AFFL.
- POWERSKIRTING DROP
- ELECTRICAL DISTRIBUTION BOARD

LEGEND

- F1 60W, 1200x600mm RECESSED LED PANEL LUMINAIRE COMPLETE WITH COOL WHITE LAMPS AND PRISMATIC CLEAR DIFFUSER.
- F2 2 x 18W T8 LED, OPEN CHANNEL LUMINAIRE.
- C 15W LED ROUND ENERGY SAVING CEILING MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER, IP65
- W 15W LED ROUND ENERGY SAVING WALL MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER, IP65
- SINGLE LEVER 16A SWITCH
- 2W SINGLE LEVER TWO WAY 16A SWITCH
- DAY/NIGHT SWITCH
- ELECTRICAL DISTRIBUTION BOARD

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

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IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

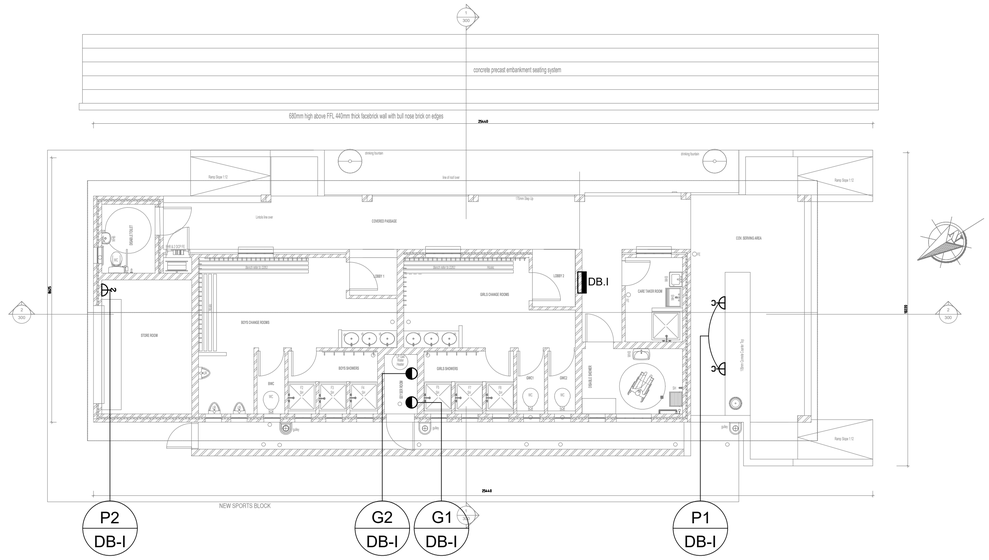
Drawing

NEW LIBRARY & MULTIPURPOSE BLOCK POWER AND LIGHTING LAYOUT

FOR TENDER

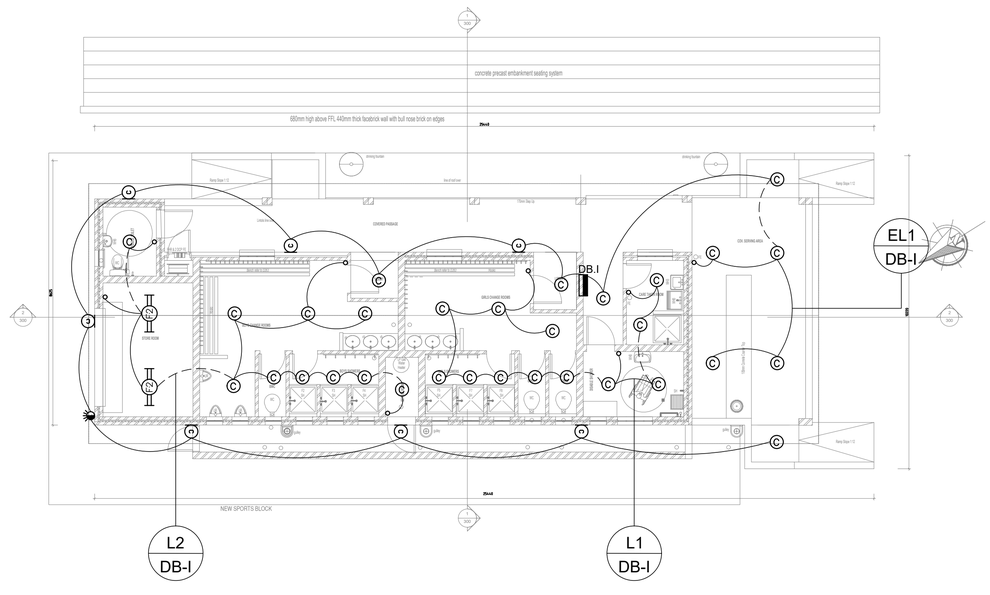
Scale	Date	Designed	Drawn
1:100	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-06	0



NEW SPORT FACILITY – POWER LAYOUT

SCALE 1:100



NEW SPORT FACILITY – LIGHTING LAYOUT

SCALE 1:100

LEGEND

- 16A ROUND 3-PIN SWITCH SOCKET AND SANS 164-2(IEC) SOCKET @300mm affl (UNLESS OTHERWISE INDICATED)
- 16A ROUND 3-PIN DOUBLE SWITCHED SOCKET AND DOUBLE SANS 164-2(IEC) SOCKET @300mm affl (UNLESS OTHERWISE INDICATED)
- ISOLATED SUPPLY PLUG WITH 2 POLE CB
- 16A DEDICATED 3-PIN SWITCH SOCKET WITH PLUG TOP IN POWER SKIRTING WITH SHAVED EARTH PIN INSULATED FROM CHASSIS
- 2WAY INTERCOM SPEAKER.
- POWER SKIRTING
- COMBINED DATA AND TELEPHONE POINTS.
- DOUBLE DATA POINT @2200mm AFFL.
- POWERSKIRTING DROP
- ELECTRIC STOVE OUTLET POINT ONLY.
- ISOLATOR
- ELECTRIC GEYSER.
- INDICATES CIRCUITS.
- ELECTRICAL DISTRIBUTION BOARD.

LEGEND

- 60W, 1200x600mm RECESSED LED PANEL LUMINAIRE COMPLETE WITH COOL WHITE LAMPS AND PRISMATIC CLEAR DIFFUSER.
- 2 x 18W T8 LED, OPEN CHANNEL LUMINAIRE.
- 2 X 22W T8 LED, SURFACE MOUNTED VAPOURPROOF LUMINAIRE. IP65
- 15W LED ROUND ENERGY SAVING CEILING MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- 15W LED ROUND ENERGY SAVING WALL MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- SINGLE LEVER 16A SWITCH
- SINGLE LEVER TWO WAY 16A SWITCH
- DAY/NIGHT SWITCH
- ELECTRICAL DISTRIBUTION BOARD

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

Consultants:

RIVONINGO CONSULTING ENGINEERS

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Sandton

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Fax: 011 234 2990
E-mail: info@rivoningo.com

Project

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

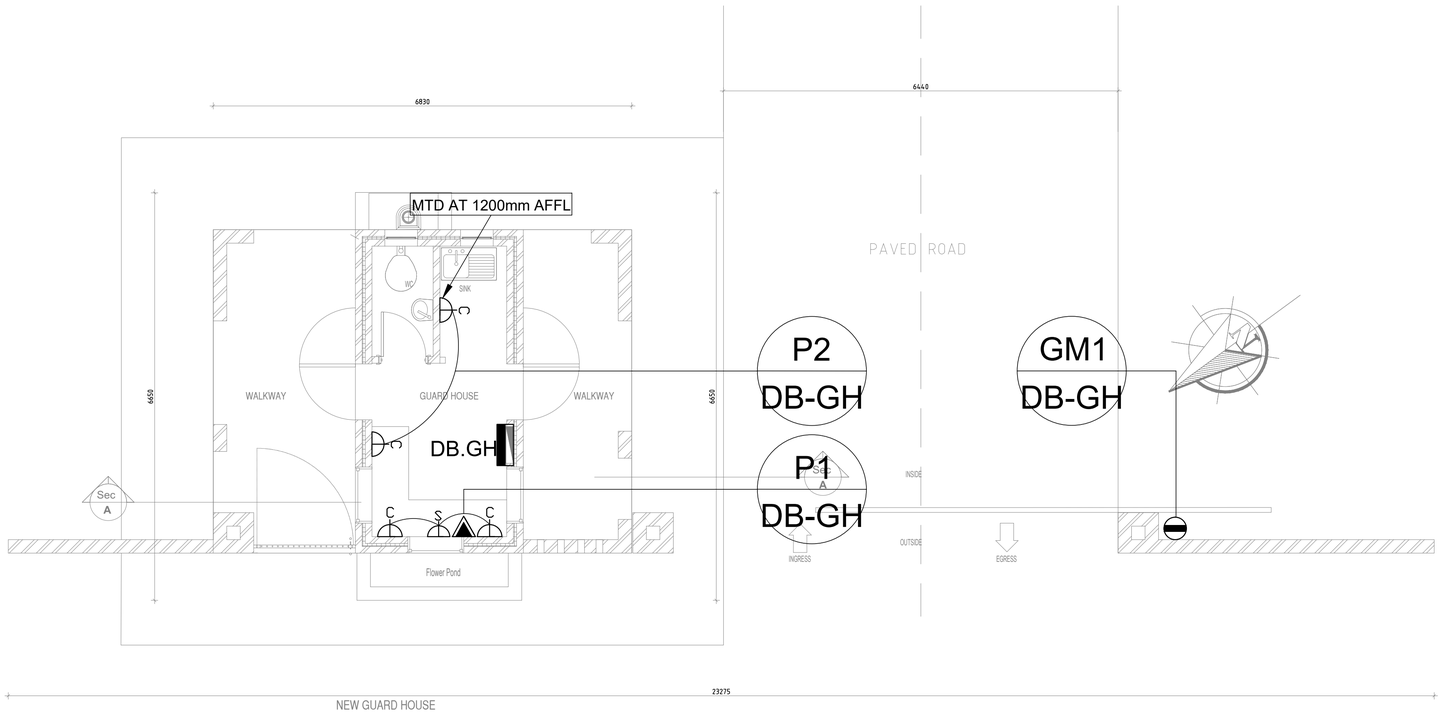
Drawing

NEW SPORT FACILITY
POWER AND LIGHTING LAYOUT

FOR TENDER

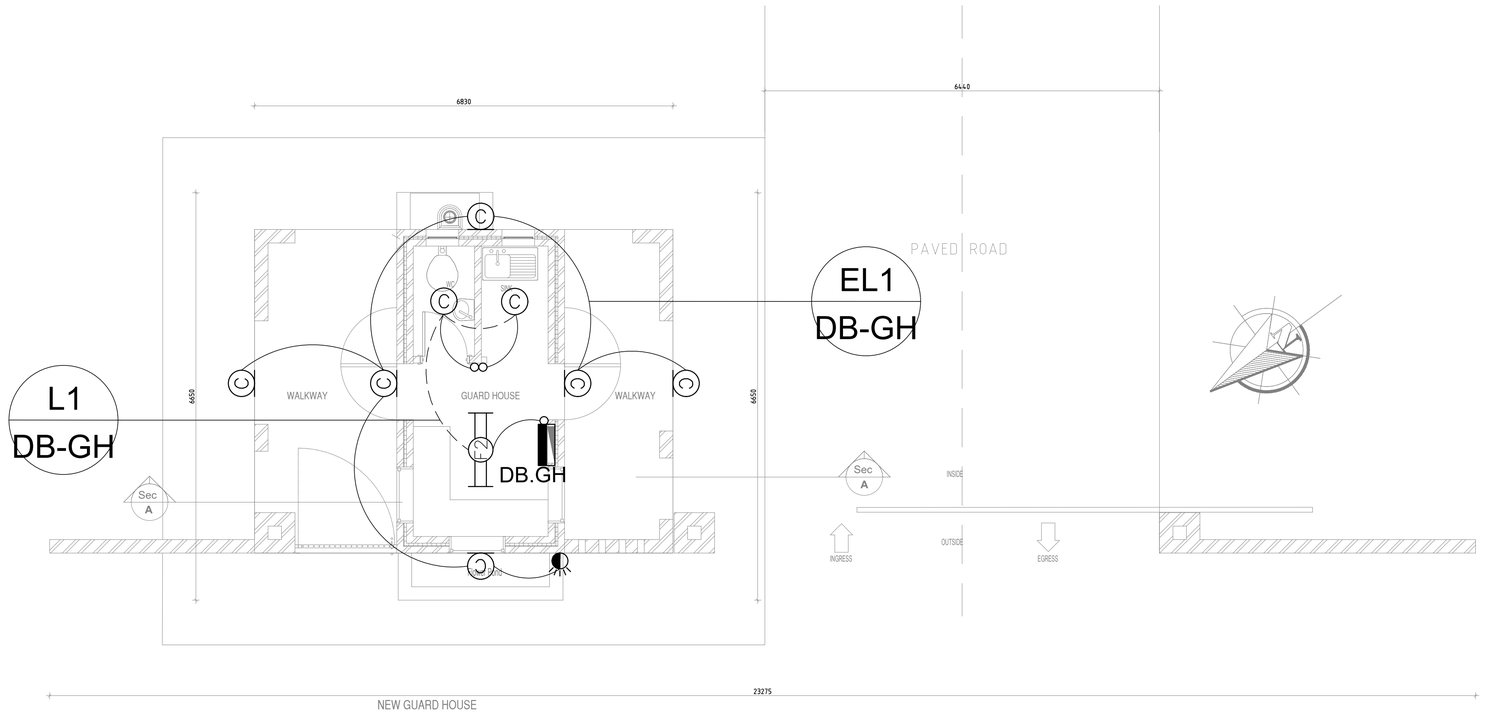
Scale	Date	Designed	Drawn
1:100	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-07	0



NEW GUARD HOUSE – POWER LAYOUT

SCALE 1:50



NEW GUARD HOUSE – LIGHTING LAYOUT

SCALE 1:50

LEGEND

- 16A ROUND 3-PIN SWITCH SOCKET AND SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- 16A ROUND 3-PIN DOUBLE SWITCHED SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- COMBINED DATA AND TELEPHONE POINTS.
- ISOLATOR
- ELECTRICAL DISTRIBUTION BOARD - COLOR ELECTRIC ORANGE FLUSH MOUNTED UNLESS SPECIFIED OTHERWISE BY ARCHITECT AND LOCKABLE DOORS INSTALLED WITH TOP OF BOARD 2000mm ABOVE FINISHED FLOOR LEVEL(AFFL)

LEGEND

- 2 x 18W T8 LED, OPEN CHANNEL LUMINAIRE.
- 2 X 22W T8 LED, SURFACE MOUNTED VAPOURPROOF LUMINAIRE. IP65
- 15W LED ROUND ENERGY SAVING CEILING MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- 15W LED ROUND ENERGY SAVING WALL MOUNTED BULKHEAD LUMINAIRE WITH POLYCARBONATE DIFFUSER. IP65
- SINGLE LEVER 16A SWITCH
- DAY/NIGHT SWITCH

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

Consultants:

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Project

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

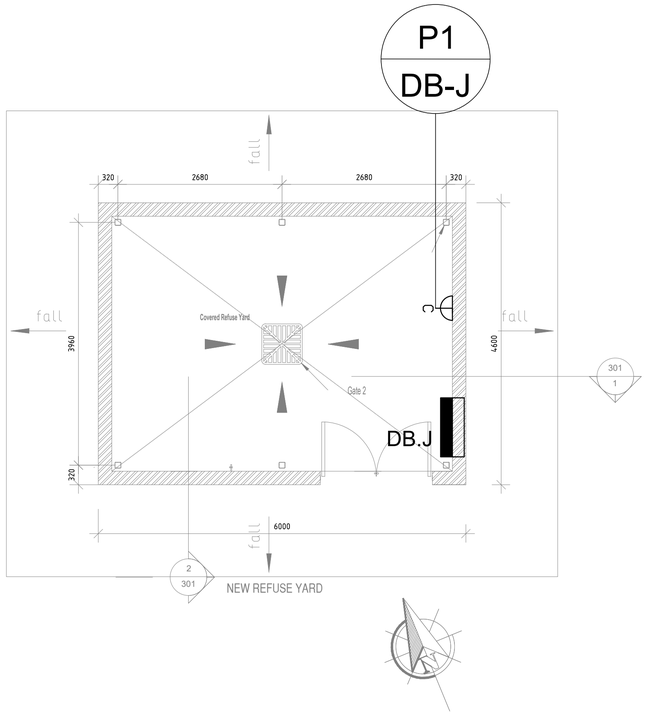
Drawing

NEW GUARD HOUSE
POWER AND LIGHTING LAYOUT

FOR TENDER

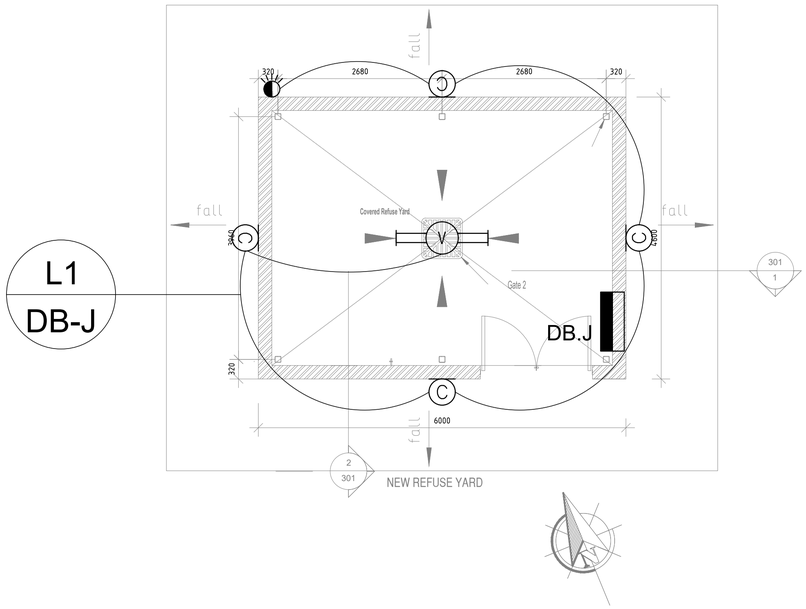
Scale	Date	Designed	Drawn
1:50	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-08	0



NEW REFUSE YARD – POWER LAYOUT

SCALE 1:50



NEW REFUSE YARD – LIGHTING LAYOUT

SCALE 1:50

LEGEND

- 16A ROUND 3-PIN SWITCH SOCKET AND SANS 164-2(IEC) SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- 16A ROUND 3-PIN DOUBLE SWITCHED SOCKET @300mm aff (UNLESS OTHERWISE INDICATED)
- COMBINED DATA AND TELEPHONE POINTS.
- ISOLATOR
- ELECTRICAL DISTRIBUTION BOARD - COLOR ELECTRIC ORANGE FLUSH MOUNTED UNLESS SPECIFIED OTHERWISE BY ARCHITECT AND LOCKABLE DOORS INSTALLED WITH TOP OF BOARD 2000mm ABOVE FINISHED FLOOR LEVEL(AFFL)

LEGEND

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- 2 X 22W T8 LED, SURFACE MOUNTED VAPOURPROOF LUMINAIRE. IP65
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- SINGLE LEVER 16A SWITCH
- DAY/NIGHT SWITCH

Number	Date	Initials	Details
0	30.06.2023	J.L	FOR TENDER

Consultants:

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Project

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

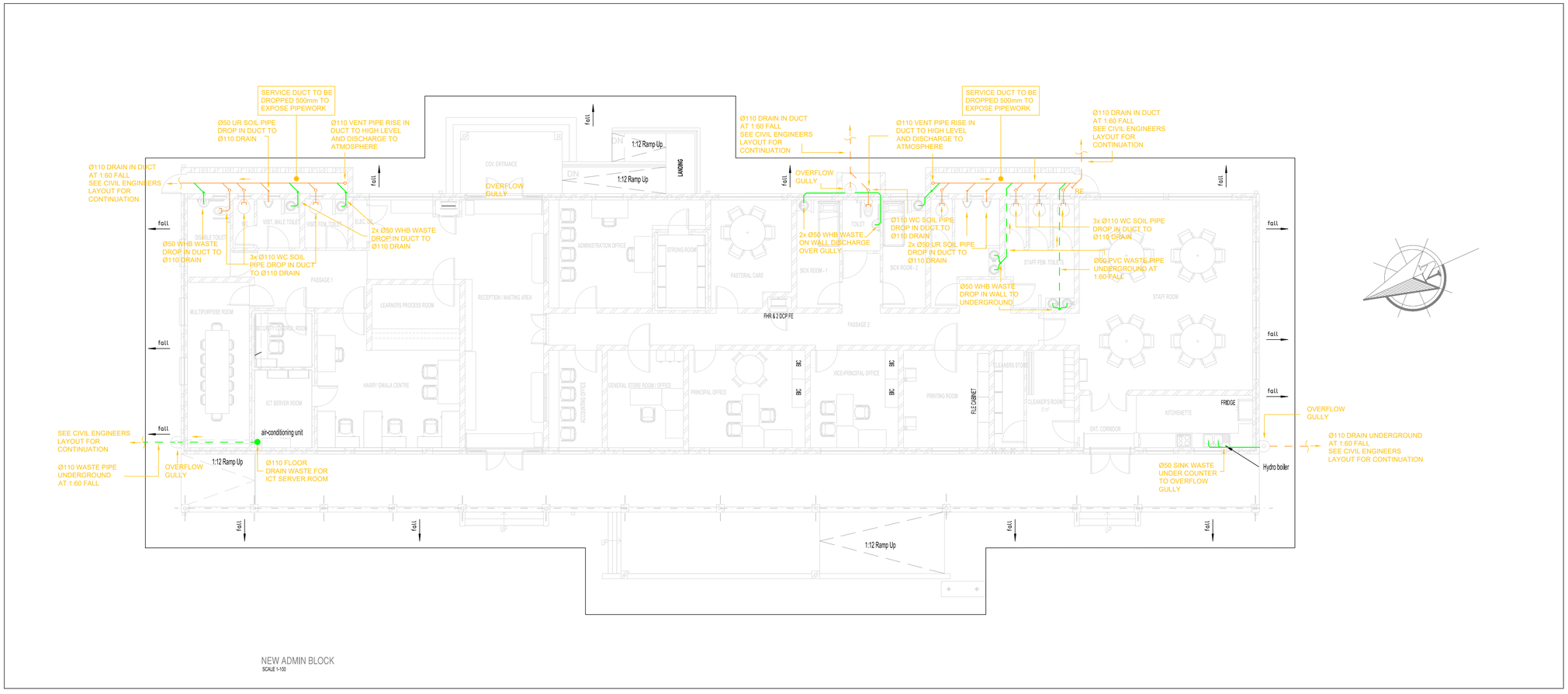
Drawing

NEW REFUSE YARD
POWER AND LIGHTING LAYOUT

FOR TENDER

Scale	Date	Designed	Drawn
1:50	JUNE 2023	T.M	J.L

Project No	Drawing No	Revision
RI-613	RI-613-E-09	0



NEW ADMIN BLOCK
SCALE 1:100

SANITARY DRAINAGE LEGEND

uPVC SOIL PIPE
uPVC WASTE PIPE

DRAINAGE NOTES

1: The Contractor is responsible for correct field dimensions, clearances, height, quantities, fabrication processes, techniques of construction and co-ordination of his work with that of all other trades and is to provide all devices necessary for safe and satisfactory operation.

2: The Contractor must adhere to the co-ordination principle shown on the drawing and must inspect all the architectural and structural drawings and other design drawings pertaining to the works and acquaint himself with the general arrangement of all other services and ensure that in fixing his work it will not obstruct the fixing or future maintenance of other services.

3: This drawing to be read in conjunction with the architectural drawings & the cold & hot water reticulation drawings for coordination of services.

4: All drainage pipes below floor/ground are to be heavy duty uPVC pipes laid in strict accordance with manufacture's specifications.

5: All waste water pipes shall be uPVC to SABS 967 and shall be installed in accordance with the manufacturer's instructions and specifications and relevant local authority requirements.

6: All waste pipes to be fully supported to prevent distortion.

7: All drainage pipe change of direction to be provided with slow bends (600mm radius) or inspection eye.

8: All pipes shall be laid to falls as indicated on drawings.
9: Plumbing contractor to inspect existing drainage installation and determine invert levels and falls before laying new underground drainage pipes.

10: All pipe joints must be water tight; flexible joints shall generally allow a 5 degree distortion between pipes without breaking the joint seal.

11: Cleaning Eyes/Rodding ways and access points to drain pipes shall be provided at all changes in gradient and direction.

12: All levels and directions to be checked on site and any discrepancies to be reported to the Engineer immediately, before commencing with any work.

13: All PVC pipework exposed to the atmosphere fixed on walls or the roof shall be painted with 2 x coats of white acrylic paint.

14: All materials and workmanship to be carried out in accordance with SANS 10400 and SANS 10252-2:1993

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

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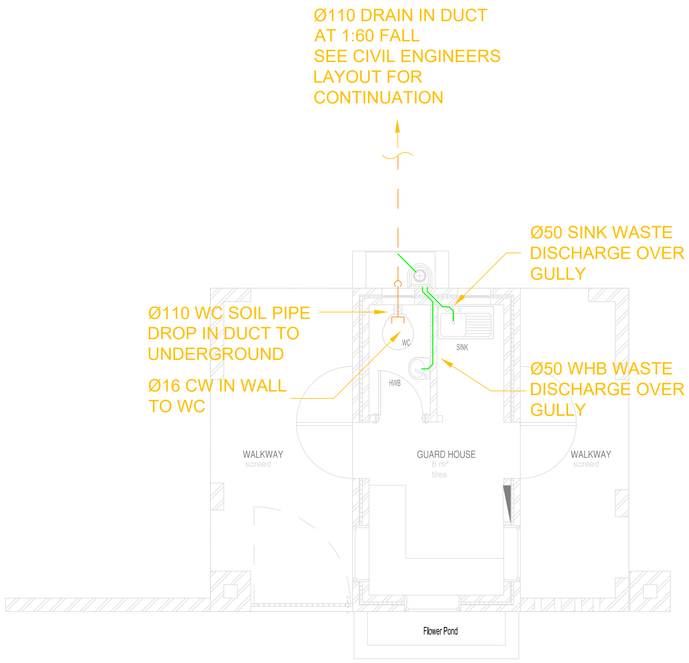
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

ADMINISTRATION BLOCK
SANITARY DRAINAGE LAYOUT

Design by	SD	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		
Drg. No	RI 613-D-01			Rev.	TD



NEW GUARD HOUSE
SCALE 1:50

SANITARY DRAINAGE LEGEND

uPVC SOIL PIPE
uPVC WASTE PIPE

DRAINAGE NOTES

1: The Contractor is responsible for correct field dimensions, clearances, height, quantities, fabrication processes, techniques of construction and co-ordination of his work with that of all other trades and is to provide all devices necessary for safe and satisfactory operation.

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14: All materials and workmanship to be carried out in accordance with SANS 10400 and SANS 10252-2:1993

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

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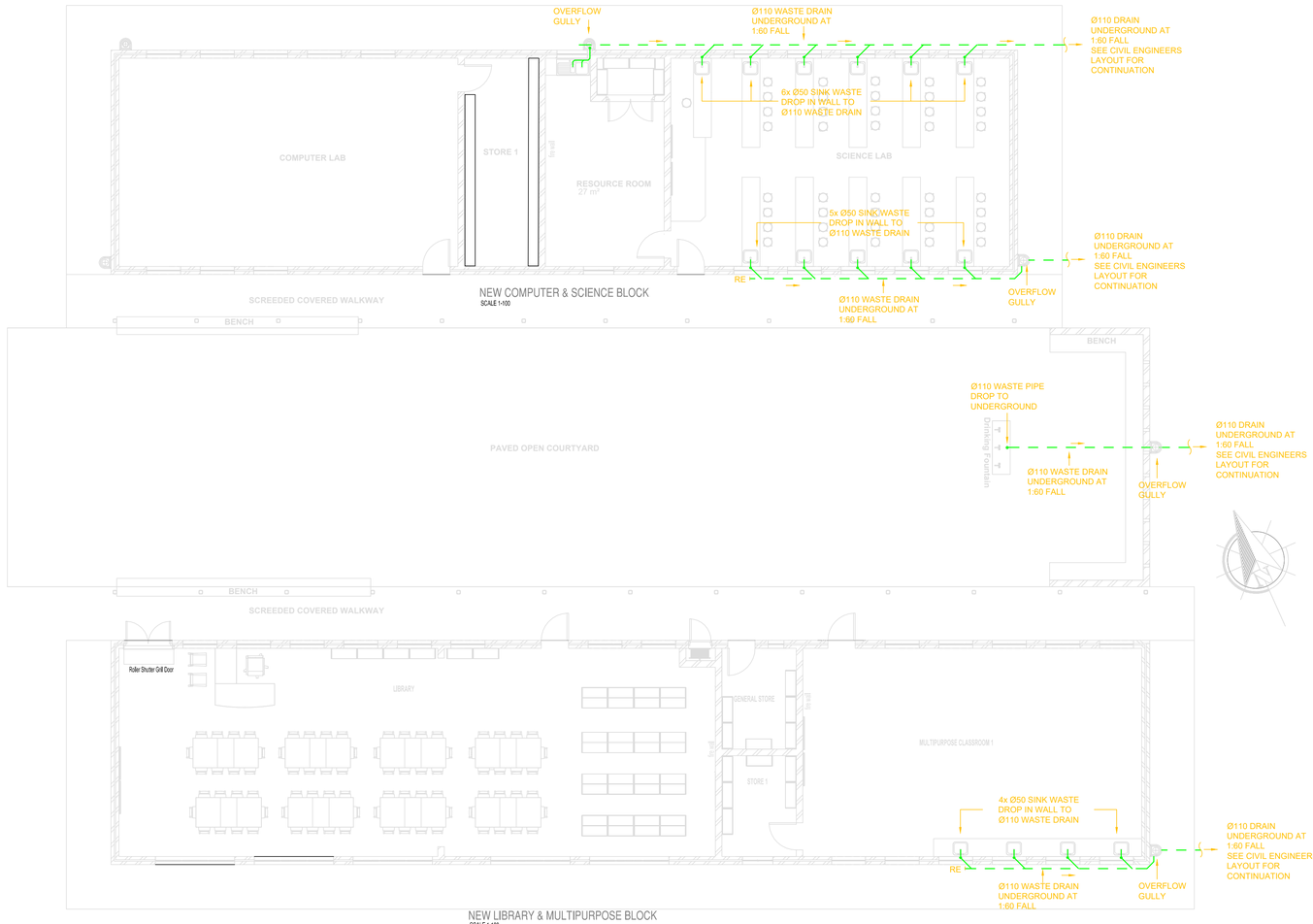
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

GUARD HOUSE
SANITARY DRAINAGE LAYOUT

					Comments
Design by	SD	DRAWING STATUS			
Drawn by	AK	1	Proposal		
Checked	JM	2	Design	●	
Approved	JM	3	Tender		
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		
Drg. No	RI 613-D-02			Rev.	TD



SANITARY DRAINAGE LEGEND

uPVC SOIL PIPE
uPVC WASTE PIPE

DRAINAGE NOTES

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REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

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PROJECT

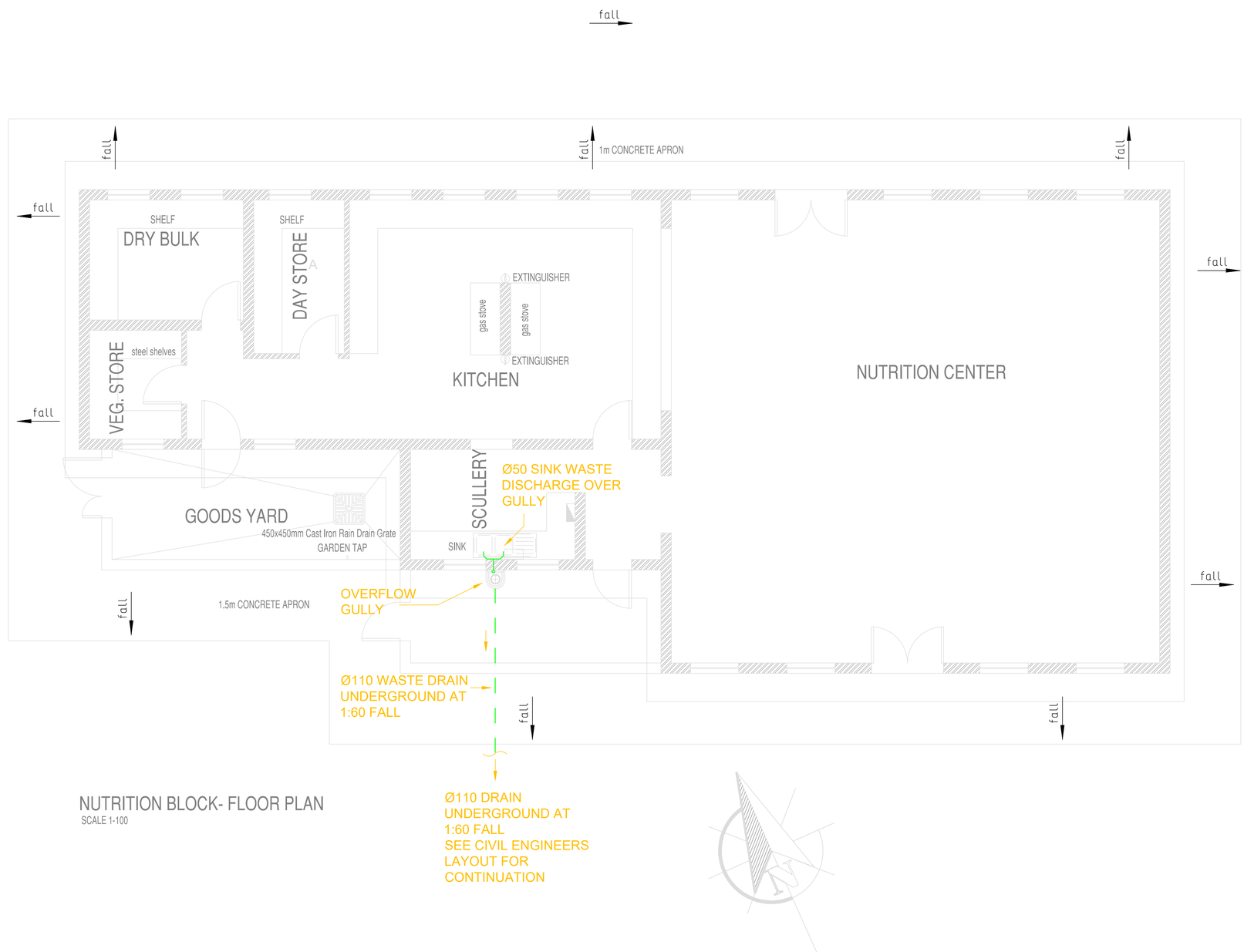
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

LIBRARY BLOCK
SANITARY DRAINAGE LAYOUT

Design by	SD	DRAWING STATUS				Comments
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 100	6	CAD No.			
Drg. No.	RI 613-D-03				Rev.	TD



NUTRITION BLOCK- FLOOR PLAN

SCALE 1-100

SANITARY DRAINAGE LEGEND

uPVC SOIL PIPE

uPVC WASTE PIPE

DRAINAGE NOTES

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REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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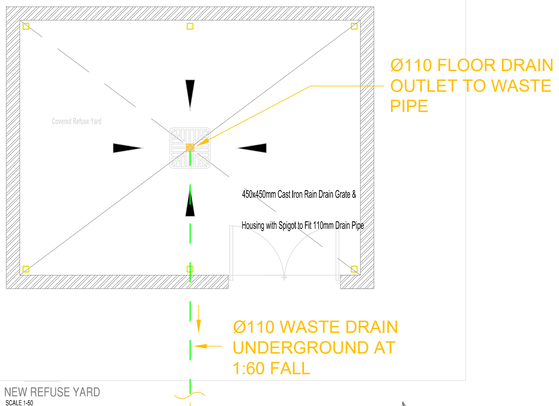
PROPOSED ADDITION & REFURBISHMENTS

TITLE

NUTRITION BLOCK
SANITARY DRAINAGE LAYOUT

						Comments
Design by	SD	DRAWING STATUS				
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 50	6	CAD No.			

Drg. No. RI 613-D-04 Rev. TD



Ø110 FLOOR DRAIN
OUTLET TO WASTE
PIPE

Ø110 WASTE DRAIN
UNDERGROUND AT
1:60 FALL

NEW REFUSE YARD
SCALE 1-50

Ø110 DRAIN
UNDERGROUND AT
1:60 FALL
SEE CIVIL ENGINEERS
LAYOUT FOR
CONTINUATION

SANITARY DRAINAGE LEGEND

uPVC SOIL PIPE
uPVC WASTE PIPE

DRAINAGE NOTES

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REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

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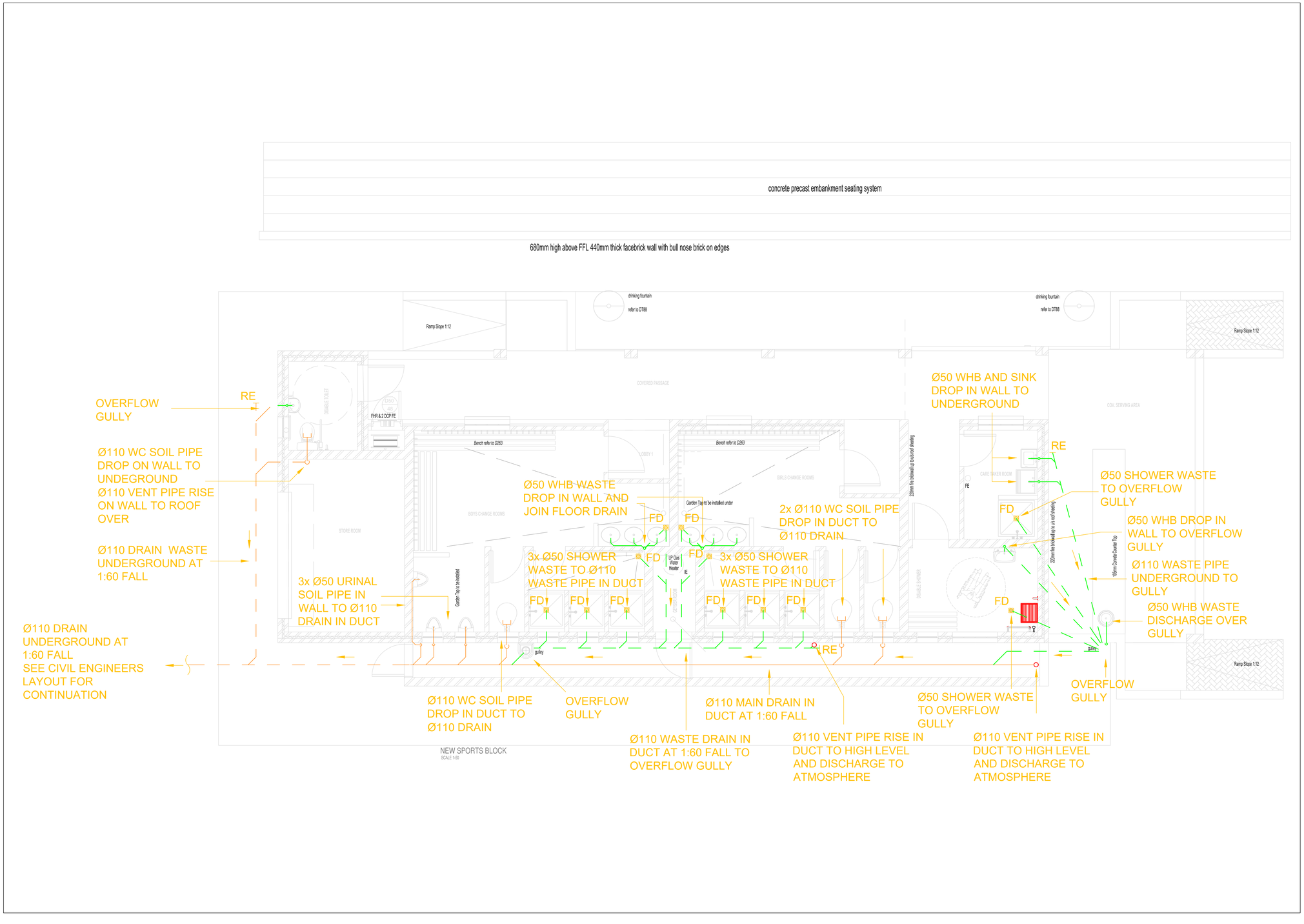
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

LIBRARY BLOCK
SANITARY DRAINAGE LAYOUT

						Comments
Design by	SD	DRAWING STATUS				
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 50	6	CAD No.			
Drg. No.	RI 613-D-05				Rev.	TD



SANITARY DRAINAGE LEGEND

uPVC SOIL PIPE
uPVC WASTE PIPE

DRAINAGE NOTES

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REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

CONSULTANT

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IKANENG SECONDARY SCHOOL

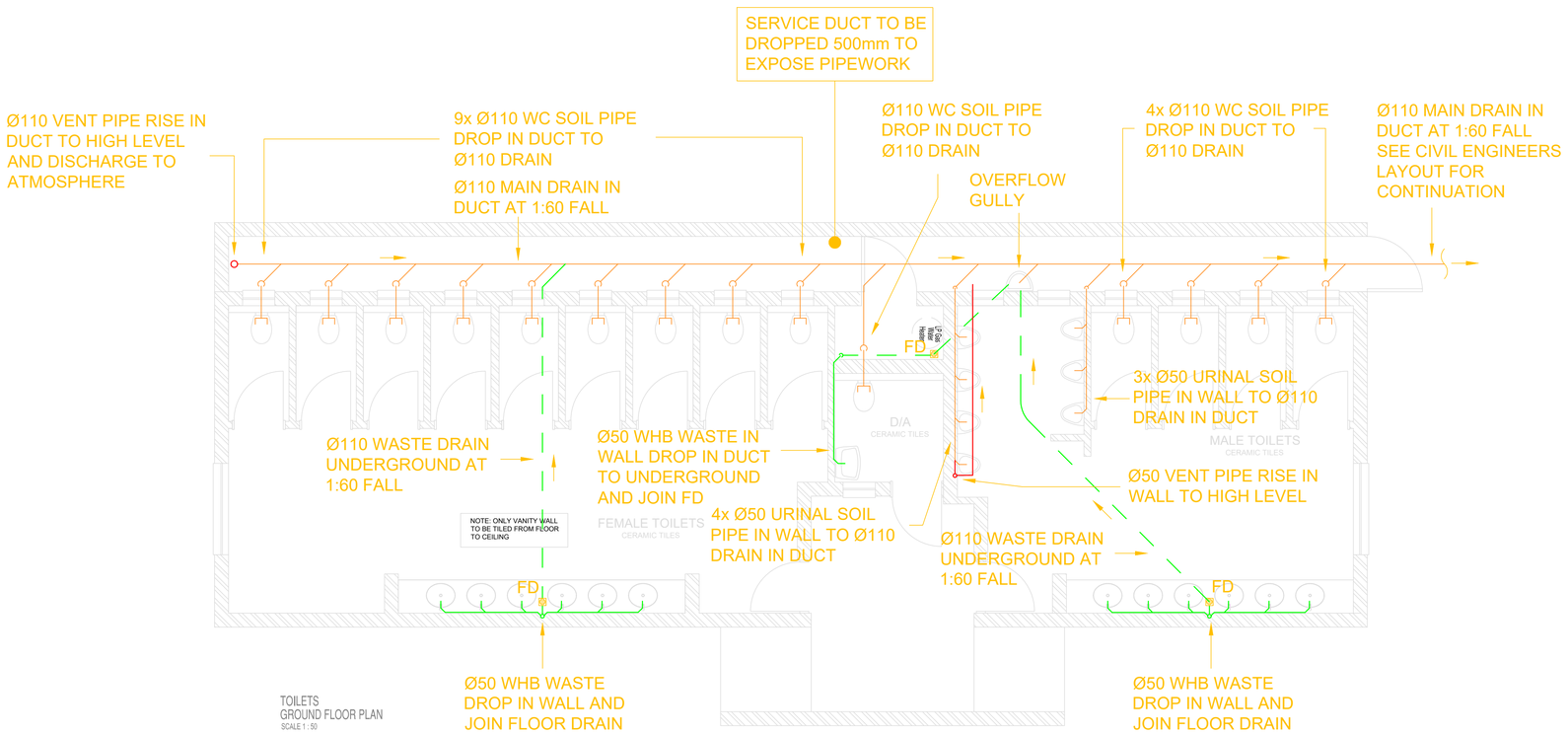
PROPOSED ADDITION & REFURBISHMENTS

TITLE

SPORT BLOCK
SANITARY DRAINAGE LAYOUT

Design by	SD	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design	●	
Approved	JM	3	Tender		
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 50	6	CAD No.		

Drg. No. RI 613-D-06 Rev. TD



TOILETS
GROUND FLOOR PLAN
SCALE 1 : 50

SANITARY DRAINAGE LEGEND

uPVC SOIL PIPE
uPVC WASTE PIPE

DRAINAGE NOTES

1: The Contractor is responsible for correct field dimensions, clearances, height, quantities, fabrication processes, techniques of construction and co-ordination of his work with that of all other trades and is to provide all devices necessary for safe and satisfactory operation.

2: The Contractor must adhere to the co-ordination principle shown on the drawing and must inspect all the architectural and structural drawings and other design drawings pertaining to the works and acquaint himself with the general arrangement of all other services and ensure that in fixing his work it will not obstruct the fixing or future maintenance of other services.

3: This drawing to be read in conjunction with the architectural drawings & the cold & hot water reticulation drawings for coordination of services.

4: All drainage pipes below floor/ground are to be heavy duty uPVC pipes laid in strict accordance with manufacture's specifications.

5: All waste water pipes shall be uPVC to SABS 967 and shall be installed in accordance with the manufacturer's instructions and specifications and relevant local authority requirements.

6: All waste pipes to be fully supported to prevent distortion.

7: All drainage pipe change of direction to be provided with slow bends (600mm radius) or inspection eye.

8: All pipes shall be laid to falls as indicated on drawings.
9: Plumbing contractor to inspect existing drainage installation and determine invert levels and falls before laying new underground drainage pipes.

10: All pipe joints must be water tight; flexible joints shall generally allow a 5 degree distortion between pipes without breaking the joint seal.

11: Cleaning Eyes/Rodding ways and access points to drain pipes shall be provided at all changes in gradient and direction.

12: All levels and directions to be checked on site and any discrepancies to be reported to the Engineer immediately, before commencing with any work.

13: All PVC pipework exposed to the atmosphere fixed on walls or the roof shall be painted with 2 x coats of white acrylic paint.

14: All materials and workmanship to be carried out in accordance with SANS 10400 and SANS 10252-2:1993

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

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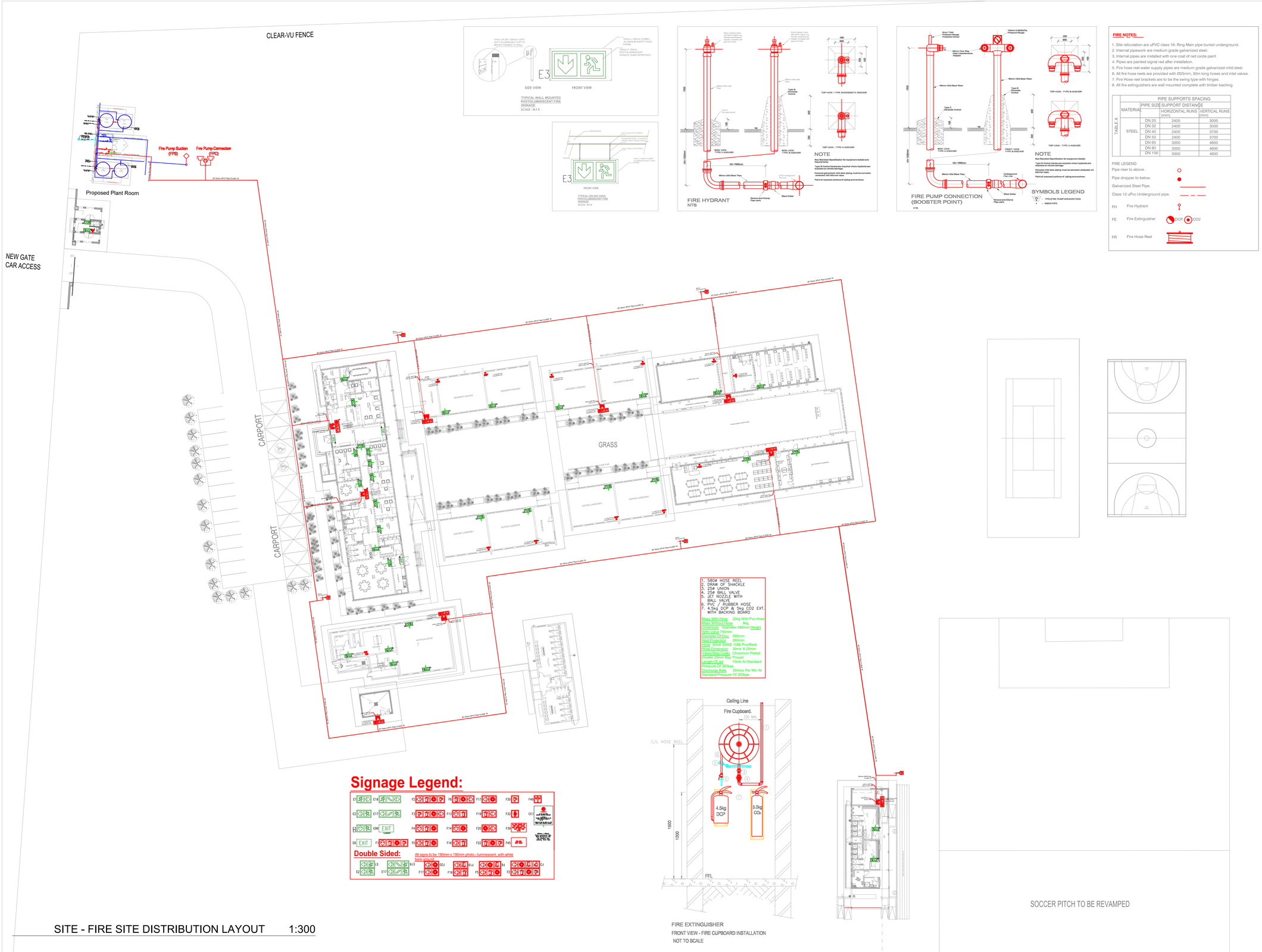
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

TOILET BLOCK
SANITARY DRAINAGE LAYOUT

Design by	SD	DRAWING STATUS				Comments
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 50	6	CAD No.			
Drg. No.	RI 613-D-07				Rev.	TD



FIRE NOTES:

1. Site reticulation are uPVC class 16- Ring Main pipe buried underground.
2. Internal pipework are medium grade galvenized steel.
3. Internal pipes are installed with one coat of red oxide paint
4. Pipes are painted signal red after installation.
5. Fire hose reel water supply pipes are medium grade galvanized mild steel.
6. All fire hose reels are provided with Ø25mm, 30m long hoses and inlet valves.
7. Fire Hose reel brackets are to be the swing type with hinges.
8. All fire extinguishers are wall mounted complete with timber backing.

TABLE A	MATERIAL	PIPE SIZE	PIPE SUPPORTS SPACING: SUPPORT DISTANCE HORIZONTAL RUNS (mm)	VERTICAL RUNS (mm)
	STEEL	DN 25	2400	3000
		DN 32	2400	3000
		DN 40	2400	3700
		DN 50	2400	3700
		DN 65	3000	4600
		DN 80	3000	4600
		DN 100	3000	4600

FIRE LEGEND

Pipe riser to above.

Pipe dropper to below.

Galvanized Steel Pipe.

Class 12 uPvc Underground pipe.

FH Fire Hydrant

FE Fire Extinguisher DCP CO2

FR Fire Hose Reel

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
   To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
   To be installed as per SANS-0105 and 4.37.
5. **Water supply**
   To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be installed on escape door.
7. **Width of escape door**
   All escape doors to be minimum 813mm.
8. **Floor coverings**
   As per SANS-10400 - 4.14
9. **Wall coverings**
   As per SANS-10400 - 4.15.
10. **Emergency lighting**
    As per SANS-10400 - 4.30.
11. **Fire signage**
    As per SANS-1186.
13. **Structural Stability:**
    As per SANS - 10400 - 4.7
14. **Safety Distance**
    As per SANS - 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
    As per SANS - 10400-4.54.
16. **Ventilation**
    As Per SANS 10400- 4042

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

CONSULTANT

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PROJECT

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

SITE PLAN
FIRE PROTECTION LAYOUT

Design by	AK	DRAWING STATUS		Comments
Drawn by	AK	1 Proposal		
Checked	JM	2 Design		
Approved	JM	3 Tender	●	
Control		4 Construction		
Date	05.11.22	5 As Built		
Scale	1 : 100	6 CAD No.		
Drg. No	RI 613-FP-00		Rev.	TD



ADMINISTRATION GROUND FLOOR PLAN 1:100

FIRE PROTECTION

FIRE SIGNS	DISCRIPTION	QTY
E3	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	4
E6 EXIT	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	2
F4	LOCATION OF FIRE EQUIPTMENT SIZE : 150 X450mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	2
F30	FIRE HYDRANT SIZE : 150 X 150mm COLOUR : RED FIRE HYDRANT ON WHITE BACKGROUND	1
	ESCAPE ROUTE PATH	

NOTES

SIGNNAGES TO BE PHOTO LUMINISCENT

SIGNAGES TO HAVE ALUMINUM FRAME.

SIGNAGES AT CLASSROOMS TO WALL MOUNTED AT HIGH LEVEL

FIRE NOTES:

1. Site reticulation are uPVC class 12- Ring Main pipe buried underground.
2. Internal pipework are medium grade galvanized steel.
3. Internal pipes are installed with one coat of red oxide paint
4. Pipes are painted signal red after installation.
5. Fire hose reel water supply pipes are medium grade galvanized mild steel.
6. All fire hose reels are provided with Ø25mm, 30m long hoses and inlet valves.
7. Fire Hose reel brackets are to be the swing type with hinges.
8. All fire extinguishers are wall mounted complete with timber backing.
9. This drawings to be read in conjunction with Gauteng DID Standard Specifications.
11. Please refer to the following Gauteng DID Standard Drawings;
    DID - E M1 Rev 2 for Fire Protection.

REFERENCE TO STANDARD DRAWINGS	
EQUIPMENT	STANDARD DRAWIN
Fire Extinguishers and Hose-Reel Detail	ME-E 01 02 02~
Standpipe Fire Hydrant	ME-E 01 04 01~
Fire Pump Hydrany (FPH)	ME-E 01 04 02~
Fire Cupboard (FC)	ME-E 01 05 01~
Fire Cabinet (FCa)	ME-E 01 05 02~
Fire Cabinet (FCa)	ME-E 01 05 03~
Fire Hose-Reel	ME-E 01 05 04~

TABLE A

MATERIAL	PIPE SIZE	PIPE SUPPORTS SPACING SUPPORT DISTANCE HORIZONTAL RUNS (mm)	VERTICAL RUNS (mm)
STEEL	DN 25	2400	3000
	DN 32	2400	3000
	DN 40	2400	3700
	DN 50	2400	3700
	DN 65	3000	4600
	DN 80	3000	4600
	DN 100	3000	4600

FIRE LEGEND

Pipe riser to above.

Pipe dropper to below.

Galvanized Steel Pipe.

Class 12 uPvc Underground pipe.

FH Fire Hydrant

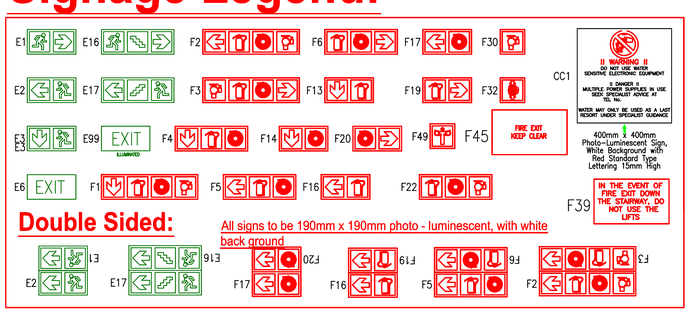
FE Fire Extinguisher DCP CO2

FR Fire Hose Reel

FIRE NOTES:

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
   To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
   To be installed as per SANS-0105 and 4.37.
5. **Water supply**
   To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be installed on escape door.
7. **Width of escape door**
   All escape doors to be minimum 813mm.
8. **Floor coverings**
   As per SANS-10400 - 4.14
9. **Wall coverings**
   As per SANS-10400 - 4.15.
10. **Emergency lighting**
    As per SANS-10400 - 4.30.
11. **Fire signage**
    As per SANS-1186.
13. **Structural Stability:**
    As per SANS - 10400 - 4.7
14. **Safety Distance**
    As per SANS - 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
    As per SANS - 10400-4.54.
16. **Ventilation**
    As Per SANS 10400- 4042

Signage Legend:



REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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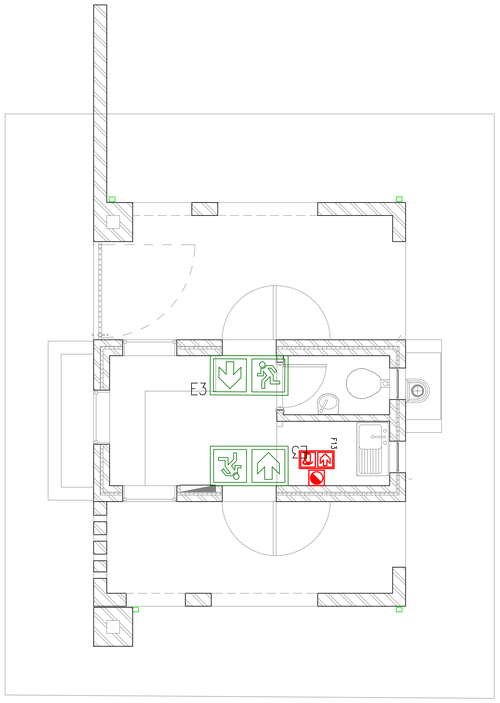
IKANENG SECONDARY SCHOOL

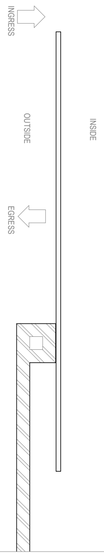
PROPOSED ADDITION & REFURBISHMENTS

TITLE

ADMINISTRATION BLOCK
FIRE PROTECTION LAYOUT

Design by	AK	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 50	6	CAD No.		
Drg. No	RI 613-FP-01			Rev.	TD





NEW GATE
CAR ACCESS

GUARD HOUSE GROUND FLOOR PLAN **1:50**

FIRE PROTECTION

FIRE SIGNS	DISCRIPTION	QTY
E3	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	1
F13	LOCATION OF FIRE EQUIPTMENT SIZE : 150 X300mm COLOUR : WHITE FIGURE ON WHITE BACKGROUND	1
	ESCAPE ROUTE PATH	

NOTES

SIGNNAGES TO BE PHOTO LUMINSCENT

SIGNAGES TO HAVE ALUMINUM FRAME.

SIGNAGES AT CLASSROOMS TO WALL MOUNTED AT HIGH LEVEL



TYPICAL WALL MOUNTED PHOTOLUMINISCENT FIRE SIGNAGE
SCALE : N.T.S

FIRE NOTES:

1. Site reticulation are uPVC class 12- Ring Main pipe buried underground.
2. Internal pipework are medium grade galvanized steel.
3. Internal pipes are installed with one coat of red oxide paint
4. Pipes are painted signal red after installation.
5. Fire hose reel water supply pipes are medium grade galvanized mild steel.
6. All fire hose reels are provided with Ø25mm, 30m long hoses and inlet valves.
7. Fire Hose reel brackets are to be the swing type with hinges.
8. All fire extinguishers are wall mounted complete with timber backing.
9. This drawings to be read in conjunction with Gauteng DID Standard Specifications.
11. Please refer to the following Gauteng DID Standard Drawings;
    DID - E M1 Rev 2 for Fire Protection.

REFERENCE TO STANDARD DRAWINGS	
EQUIPMENT	STANDARD DRAWIN
Fire Extinguishers and Hose-Reel Detail	ME-E 01 02 02-
Standpipe Fire Hydrant	ME-E 01 04 01-
Fire Pump Hydrony (FPH)	ME-E 01 04 02-
Fire Cupboard (FC)	ME-E 01 05 01-
Fire Cabinet (FCa)	ME-E 01 05 02-
Fire Cabinet (FCa)	ME-E 01 05 03-
Fire Hose-Reel	ME-E 01 05 04-

TABLE 4.2

MATERIAL	PIPE SIZE	PIPE SUPPORTS SPACING SUPPORT DISTANCE HORIZONTAL RUNS (mm)	VERTICAL RUNS (mm)
STEEL	DN 25	2400	3000
	DN 32	2400	3000
	DN 40	2400	3700
	DN 50	2400	3700
	DN 65	3000	4600
	DN 80	3000	4600
	DN 100	3000	4600

FIRE LEGEND

Pipe riser to above.

Pipe dropper to below.

Galvanized Steel Pipe.

Class 12 uPvc Underground pipe.

FH Fire Hydrant

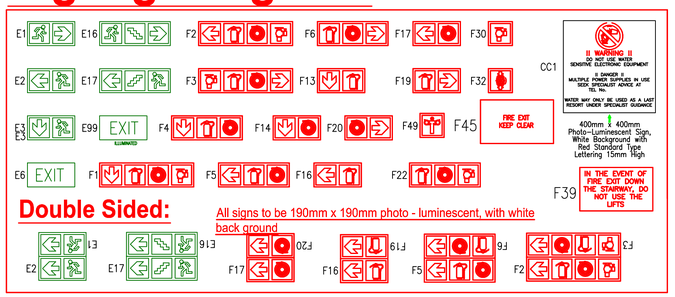
FE Fire Extinguisher — DCP, CO2

FR Fire Hose Reel

FIRE NOTES:

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
   To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
   To be installed as per SANS-0105 and 4.37.
5. **Water supply**
   To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be installed on escape door.
7. **Width of escape door**
   All escape doors to be minimum 813mm.
8. **Floor coverings**
   As per SANS-10400 - 4.14
9. **Wall coverings**
   As per SANS-10400 - 4.15.
10. **Emergency lighting**
    As per SANS-10400 - 4.30.
11. **Fire signage**
    As per SANS-1186.
13. **Structural Stability:**
    As per SANS - 10400 - 4.7
14. **Safety Distance**
    As per SANS – 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
    As per SANS - 10400-4.54.
16. **Ventilation**
    As Per SANS 10400- 4042

Signage Legend:



REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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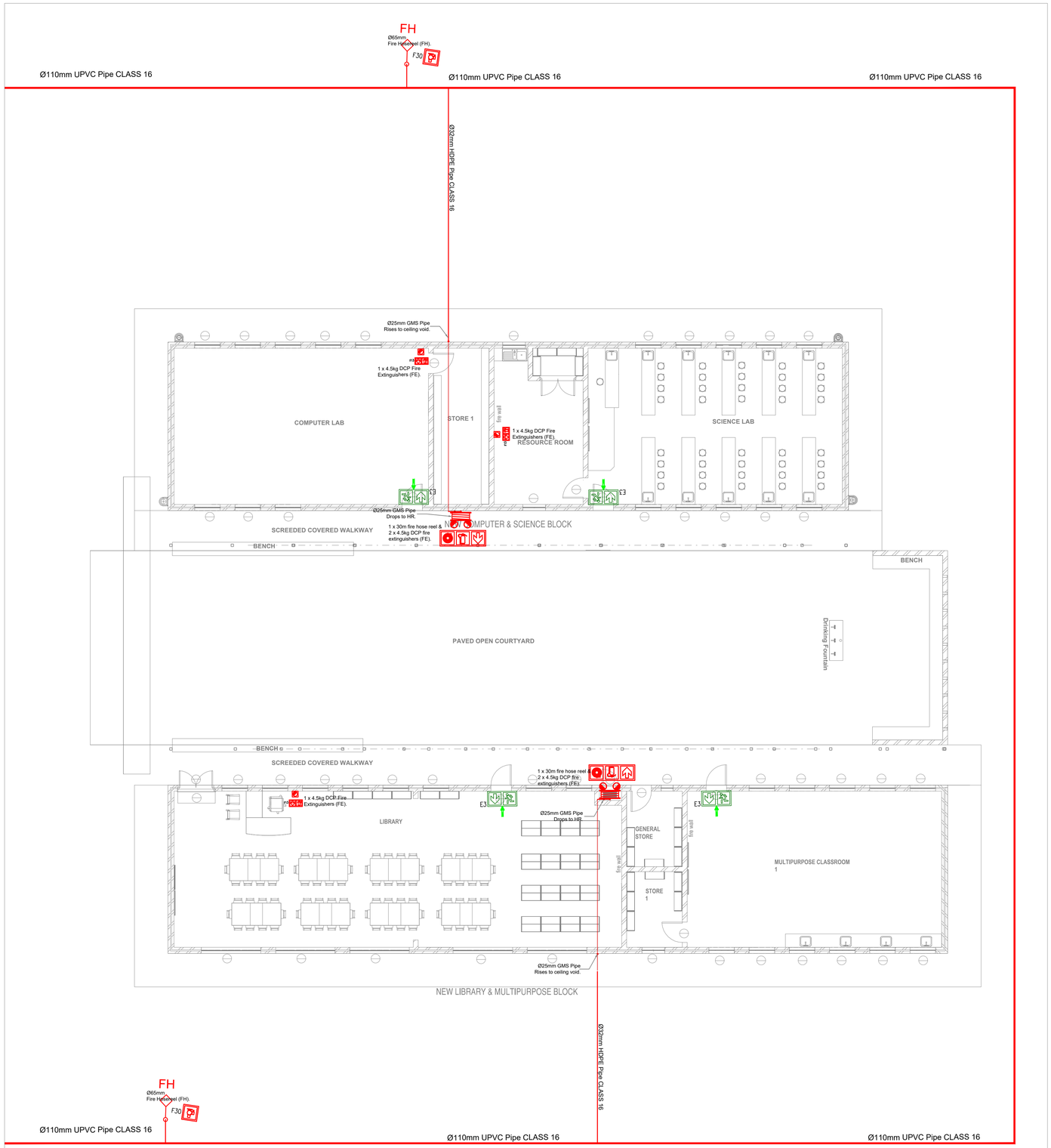
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

GUARD HOUSE
FIRE PROTECTION LAYOUT

Design by	AK	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 50	6	CAD No.		
Drg. No	RI 613-FP-02			Rev.	TD



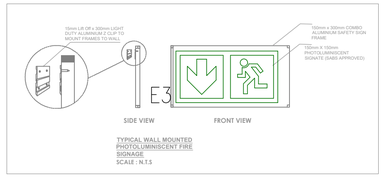
BLOCK EP-GROUND FLOOR PLAN 1:100 ; AREA: 922 m²

FIRE PROTECTION

FIRE SIGNS	DISCRIPTION	QTY
E3	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	8
E6 EXIT	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	4
F4	LOCATION OF FIRE EQUIPTMENT SIZE : 150 X450mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	2
F30	FIRE HYDRANT SIZE : 150 X 150mm COLOUR : RED FIRE HYDRANT ON WHITE BACKGROUND	1
	ESCAPE ROUTE PATH	

NOTES

- SIGNAGES TO BE PHOTO LUMINISCENT
- SIGNAGES TO HAVE ALUMINUM FRAME.
- SIGNAGES AT CLASSROOMS TO WALL MOUNTED AT HIGH LEVEL



TYPICAL WALL MOUNTED PHOTOLUMINISCENT FIRE SIGNAGE
SCALE : N.T.S

FIRE NOTES:

1. Site reticulation are uPVC class 12- Ring Main pipe buried underground.
2. Internal pipework are medium grade galvanized steel.
3. Internal pipes are installed with one coat of red oxide paint
4. Pipes are painted signal red after installation.
5. Fire hose reel water supply pipes are medium grade galvanized mild steel.
6. All fire hose reels are provided with Ø25mm, 30m long hoses and inlet valves.
7. Fire Hose reel brackets are to be the swing type with hinges.
8. All fire extinguishers are wall mounted complete with timber backing.
9. This drawings to be read in conjunction with Gauteng DID Standard Specifications.
11. Please refer to the following Gauteng DID Standard Drawings;
    DID - E M1 Rev 2 for Fire Protection.

REFERENCE TO STANDARD DRAWINGS	
EQUIPMENT	STANDARD DRAWIN
Fire Extinguishers and Hose-Reel Detail	ME-E 01 02 02-
Standpipe Fire Hydrant	ME-E 01 04 01-
Fire Pump Hydrony (FPH)	ME-E 01 04 02-
Fire Cupboard (FC)	ME-E 01 05 01-
Fire Cabinet (FCa)	ME-E 01 05 02-
Fire Cabinet (FCa)	ME-E 01 05 03-
Fire Hose-Reel	ME-E 01 05 04-

TABLE 4:

PIPE SUPPORTS SPACING			
MATERIAL	PIPE SIZE	SUPPORT DISTANCE	
		HORIZONTAL RUNS (mm)	VERTICAL RUNS (mm)
STEEL	DN 25	2400	3000
	DN 32	2400	3000
	DN 40	2400	3700
	DN 50	2400	3700
	DN 65	3000	4600
	DN 80	3000	4600
	DN 100	3000	4600

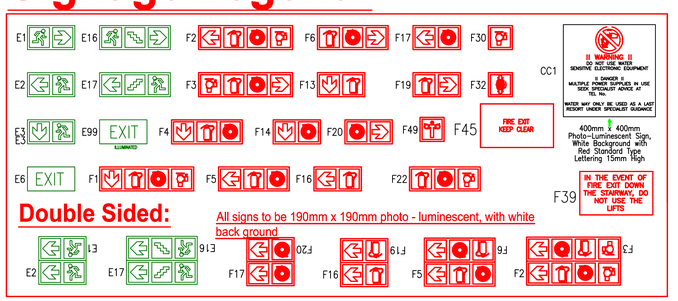
FIRE LEGEND

- Pipe riser to above.
- Pipe dropper to below.
- Galvanized Steel Pipe.
- Class 12 uPvc Underground pipe.
- FH Fire Hydrant
- FE Fire Extinguisher — DCP / CO2
- FR Fire Hose Reel

FIRE NOTES:

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
   To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
   To be installed as per SANS-0105 and 4.37.
5. **Water supply**
   To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be to installed on escape door.
7. **Width of escape door**
   All escape doors to be minimum 813mm.
8. **Floor coverings**
   As per SANS-10400 - 4.14
9. **Wall coverings**
   As per SANS-10400 - 4.15.
10. **Emergency lighting**
    As per SANS-10400 - 4.30.
11. **Fire signage**
    As per SANS-1186.
13. **Structural Stability:**
    As per SANS - 10400 - 4.7
14. **Safety Distance**
    As per SANS – 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
    As per SANS - 10400-4.54.
16. **Ventilation**
    As per SANS 10400- 4042

Signage Legend:



Double Sided:

All signs to be 190mm x 190mm photo - luminescent, with white back ground

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

CONSULTANT

RIVONINGO CONSULTING ENGINEERS

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PROJECT

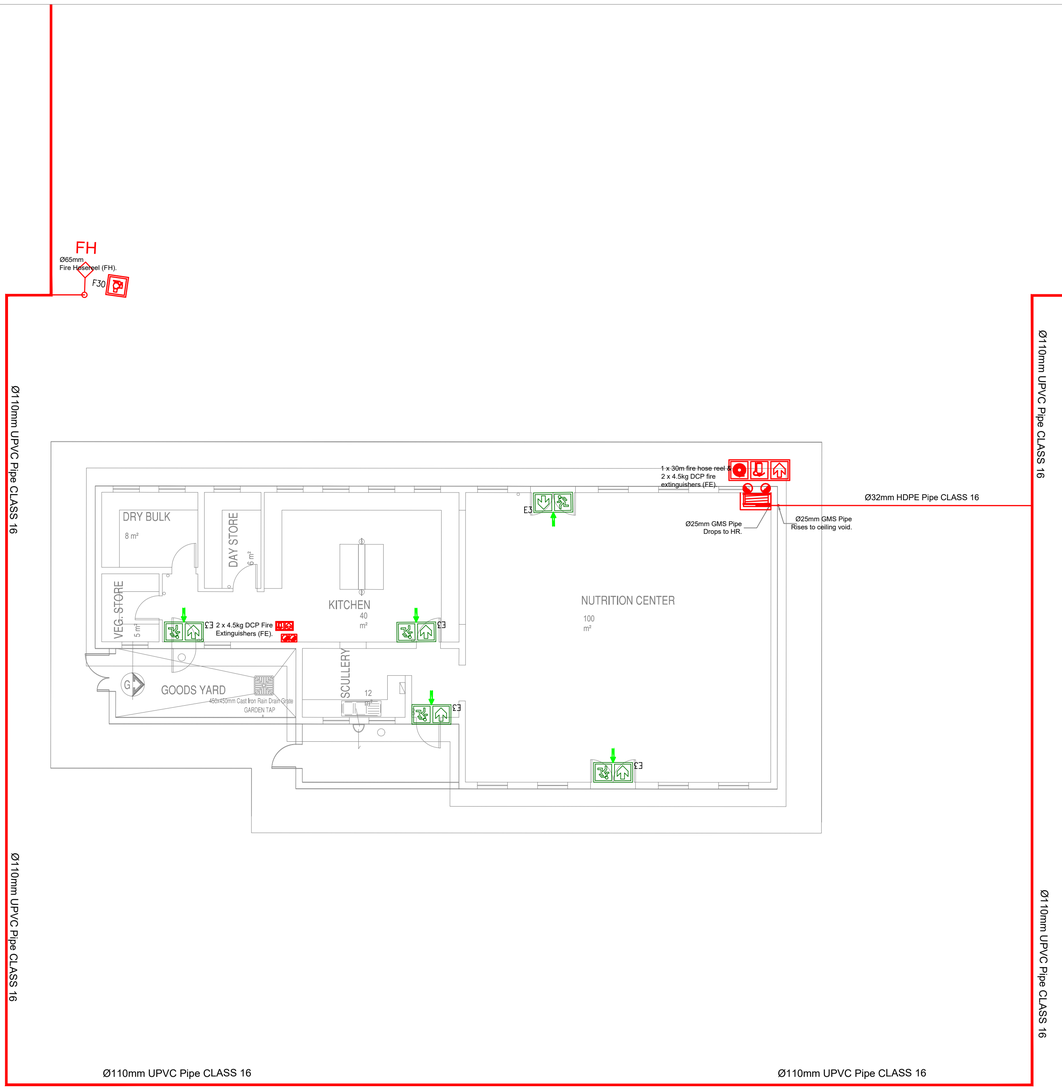
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

LIBRARY BLOCK
FIRE PROTECTION LAYOUT

Design by	AK	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 50	6	CAD No.		
Drg. No	RI 613-FP-03			Rev.	TD



NUTRITION BLOCK **1:100**

FIRE NOTES:

1. Site reticulation are uPVC class 12- Ring Main pipe buried underground.
2. Internal pipework are medium grade galvanized steel.
3. Internal pipes are installed with one coat of red oxide paint
4. Pipes are painted signal red after installation.
5. Fire hose reel water supply pipes are medium grade galvanized mild steel.
6. All fire hose reels are provided with Ø25mm, 30m long hoses and inlet valves.
7. Fire Hose reel brackets are to be the swing type with hinges.
8. All fire extinguishers are wall mounted complete with timber backing.
9. This drawings to be read in conjunction with Gauteng DID Standard Specifications.
11. Please refer to the following Gauteng DID Standard Drawings;
DID - E M1 Rev 2 for Fire Protection.

REFERENCE TO STANDARD DRAWINGS	
EQUIPMENT	STANDARD DRAWIN
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Fire Pump Hydrony (FPH)	ME-E 01 04 02-
Fire Cupboard (FC)	ME-E 01 05 01-
Fire Cabinet (FCa)	ME-E 01 05 02-
Fire Cabinet (FCa)	ME-E 01 05 03-
Fire Hose-Reel	ME-E 01 05 04-

TABLE A		PIPE SUPPORTS SPACING	
	MATERIAL	PIPE SIZE	SUPPORT DISTANCE
			HORIZONTAL RUNS (mm) / VERTICAL RUNS (mm)
	STEEL	DN 25	2400 / 3000
		DN 32	2400 / 3000
		DN 40	2400 / 3700
		DN 50	2400 / 3700
		DN 65	3000 / 4600
		DN 80	3000 / 4600
		DN 100	3000 / 4600

FIRE LEGEND

Pipe riser to above.

Pipe dropper to below.

Galvanized Steel Pipe.

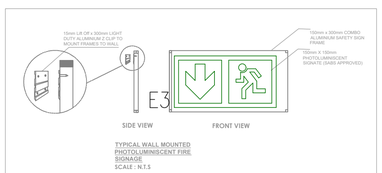
Class 12 uPvc Underground pipe.

FH Fire Hydrant

FE Fire Extinguisher — DCP / CO2

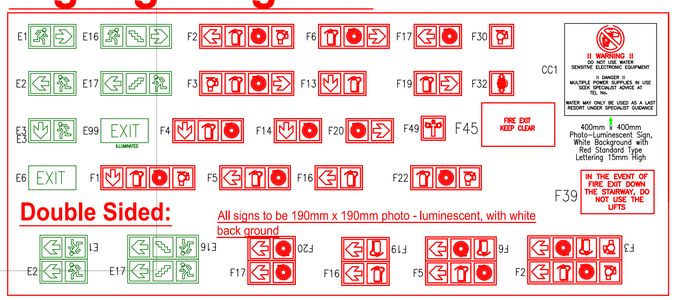
FR Fire Hose Reel

FIRE PROTECTION		
FIRE SIGNS	DISCRIPTION	QTY
E3	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	6
E6 EXIT	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	2
F4	LOCATION OF FIRE EQUIPTMENT SIZE : 150 X450mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	2
F30	FIRE HYDRANT SIZE : 150 X 150mm COLOUR : RED FIRE HYDRANT ON WHITE BACKGROUND	1
	ESCAPE ROUTE PATH	
NOTES		
SIGNNAGES TO BE PHOTO LUMINISCENT		
SIGNAGES TO HAVE ALUMINIUM FRAME.		
SIGNAGES AT CLASSROOMS TO WALL MOUNTED AT HIGH LEVEL		



TYPICAL WALL MOUNTED PHOTOLUMINISCENT FIRE SIGNAGE
SCALE : N.T.S

Signage Legend:



Double Sided:

All signs to be 190mm x 190mm photo - luminescent, with white back ground



FIRE NOTES:

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
To be installed as per SANS-0105 and 4.37.
5. **Water supply**
To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be to be installed on escape door.
7. **Width of escape door**
All escape doors to be minimum 813mm.
8. **Floor coverings**
As per SANS-10400 - 4.14
9. **Wall coverings**
As per SANS-10400 - 4.15.
10. **Emergency lighting**
As per SANS-10400 - 4.30.
11. **Fire signage**
As per SANS-1186.
13. **Structural Stability:**
As per SANS - 10400 - 4.7
14. **Safety Distance**
As per SANS – 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
As per SANS - 10400-4.54.
16. **Ventilation**
As Per SANS 10400- 4042

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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PROJECT

IKANENG SECONDARY SCHOOL

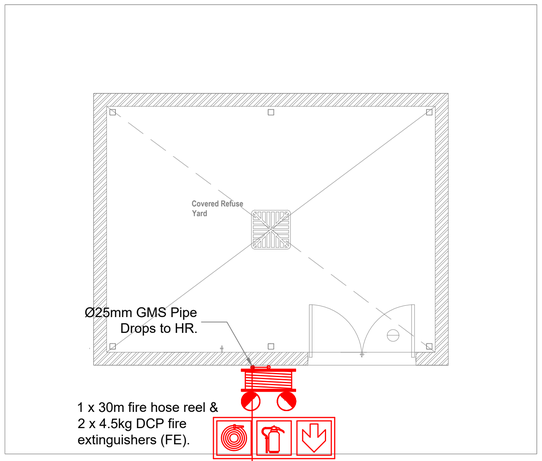
PROPOSED ADDITION & REFURBISHMENTS

TITLE

NUTRITION BLOCK
FIRE PROTECTION LAYOUT

Design by	AK	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		
Drg. No	RI 613-FP-04			Rev.	TD

Ø110mm UPVC Pipe CLASS 16



Ø110mm UPVC Pipe CLASS 16

REFUSE BLOCK **1:50**

FIRE NOTES:

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
   To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
   To be installed as per SANS-0105 and 4.37.
5. **Water supply**
   To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be installed on escape door.
7. **Width of escape door**
   All escape doors to be minimum 813mm.
8. **Floor coverings**
   As per SANS-10400 - 4.14
9. **Wall coverings**
   As per SANS-10400 - 4.15.
10. **Emergency lighting**
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11. **Fire signage**
    As per SANS-1186.
13. **Structural Stability:**
    As per SANS - 10400 - 4.7
14. **Safety Distance**
    As per SANS - 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
    As per SANS - 10400-4.54.
16. **Ventilation**
    As Per SANS 10400- 4042

FIRE PROTECTION

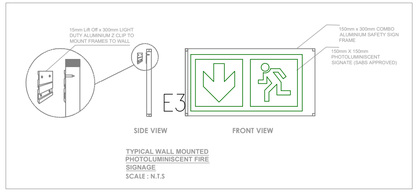
FIRE SIGNS	DISCRIPTION	QTY
E3	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	1
F4	LOCATION OF FIRE EQUIPTMENT SIZE : 150 X450mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	1
	ESCAPE ROUTE PATH	

NOTES

SIGNNAGES TO BE PHOTO LUMINISCENT

SIGNAGES TO HAVE ALUMINUM FRAME.

SIGNAGES AT CLASSROOMS TO WALL MOUNTED AT HIGH LEVEL



TYPICAL WALL MOUNTED PHOTOLUMINISCENT FIRE SIGNAGE
SCALE : N.T.S

FIRE NOTES:

1. Site reticulation are uPVC class 12- Ring Main pipe buried underground.
2. Internal pipework are medium grade galvanized steel.
3. Internal pipes are installed with one coat of red oxide paint
4. Pipes are painted signal red after installation.
5. Fire hose reel water supply pipes are medium grade galvanized mild steel.
6. All fire hose reels are provided with Ø25mm, 30m long hoses and inlet valves.
7. Fire Hose reel brackets are to be the swing type with hinges.
8. All fire extinguishers are wall mounted complete with timber backing.
9. This drawings to be read in conjunction with Gauteng DID Standard Specifications.
11. Please refer to the following Gauteng DID Standard Drawings;
    DID - E M1 Rev 2 for Fire Protection.

REFERENCE TO STANDARD DRAWINGS	
EQUIPMENT	STANDARD DRAWN
Fire Extinguishers and Hose-Reel Detail	ME-E 01 02 02-
Standpipe Fire Hydrant	ME-E 01 04 01-
Fire Pump Hydrany (FPH)	ME-E 01 04 02-
Fire Cupboard (FC)	ME-E 01 05 01-
Fire Cabinet (FCo)	ME-E 01 05 02-
Fire Cabinet (FCo)	ME-E 01 05 03-
Fire Hose-Reel	ME-E 01 05 04-

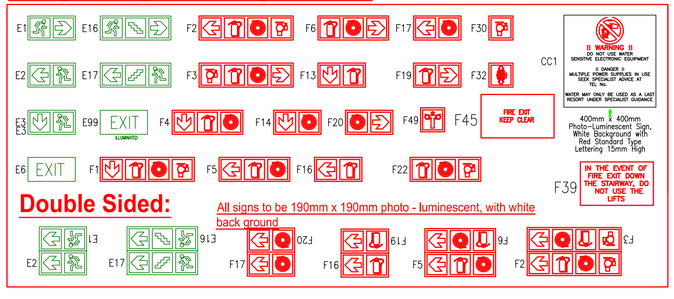
TABLE A

PIPE SUPPORTS SPACING			
MATERIAL	PIPE SIZE	SUPPORT DISTANCE	
		HORIZONTAL RUNS (mm)	VERTICAL RUNS (mm)
STEEL	DN 25	2400	3000
	DN 32	2400	3000
	DN 40	2400	3700
	DN 50	2400	3700
	DN 65	3000	4600
	DN 80	3000	4600
	DN 100	3000	4600

FIRE LEGEND

Pipe riser to above.
Pipe dropper to below.
Galvanized Steel Pipe.
Class 12 uPvc Underground pipe.
FH Fire Hydrant
FE Fire Extinguisher DCP CO2
FR Fire Hose Reel

Signage Legend:



Double Sided:

All signs to be 190mm x 190mm photo - luminescent, with white back ground

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

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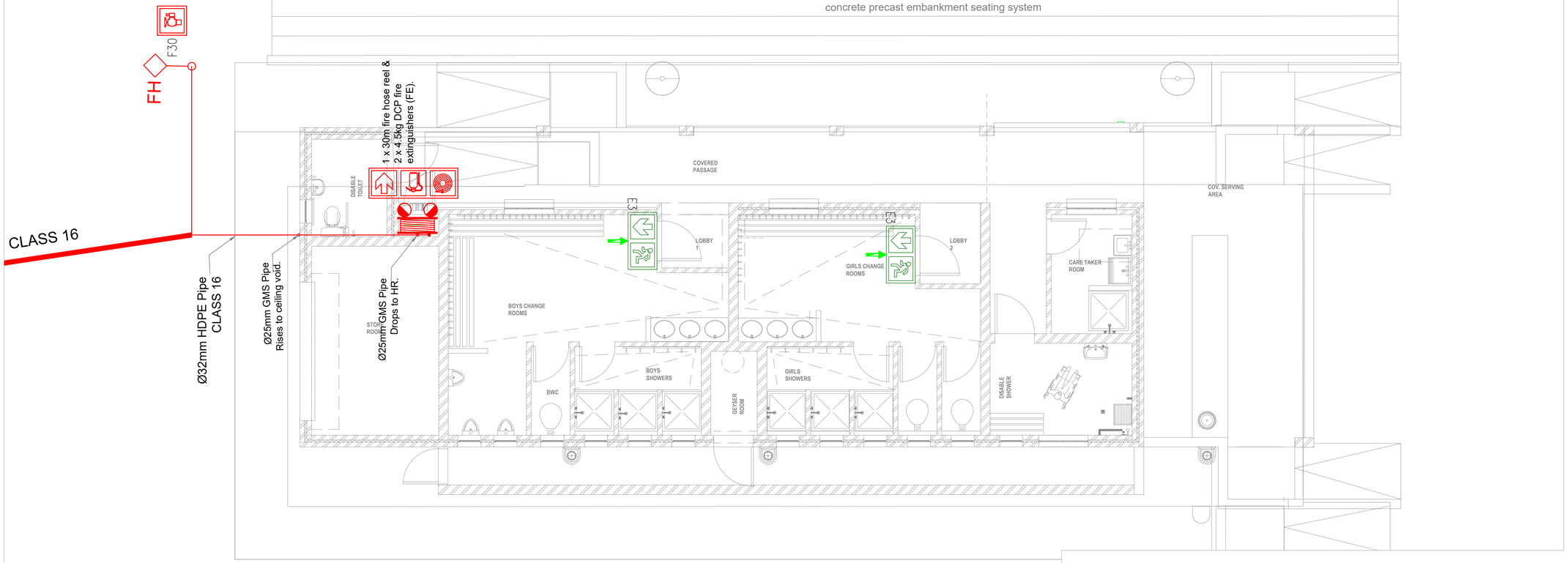
PROPOSED ADDITION & REFURBISHMENTS

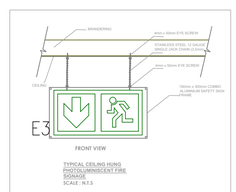
TITLE

REFUSE BLOCK
FIRE PROTECTION LAYOUT

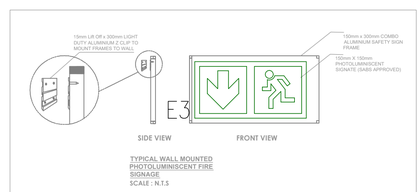
Design by	AK	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		

Drg. No RI 613-FP-05 Rev. TD





TYPICAL CEILING HUNG PHOTOLUMINESCENT FIRE SIGNAGE
SCALE : N.T.S



TYPICAL WALL MOUNTED PHOTOLUMINESCENT FIRE SIGNAGE
SCALE : N.T.S

SPORT BLOCK 1:50

AREA: 147 m^2

FIRE NOTES:

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
   To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
   To be installed as per SANS-0105 and 4.37.
5. **Water supply**
   To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be installed on escape door.
7. **Width of escape door**
   All escape doors to be minimum 813mm.
8. **Floor coverings**
   As per SANS-10400 - 4.14
9. **Wall coverings**
   As per SANS-10400 - 4.15.
10. **Emergency lighting**
    As per SANS-10400 - 4.30.
11. **Fire signage**
    As per SANS-1186.
13. **Structural Stability:**
    As per SANS - 10400 - 4.7
14. **Safety Distance**
    As per SANS - 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
    As per SANS - 10400-4.54.
16. **Ventilation**
    As Per SANS 10400- 4042

FIRE PROTECTION

FIRE SIGNS	DISCRIPTION	QTY
E3	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	0
E6 EXIT	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	2
F4	LOCATION OF FIRE EQUIPTMENT SIZE : 150 X450mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	1
F30	FIRE HYDRANT SIZE : 150 X 150mm COLOUR : RED FIRE HYDRANT ON WHITE BACKGROUND	1
	ESCAPE ROUTE PATH	

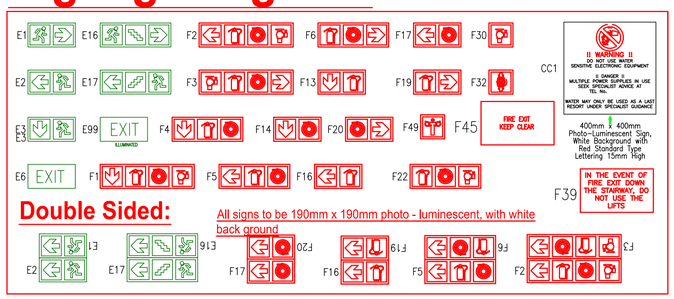
NOTES

SIGNNAGES TO BE PHOTO LUMINISCENT

SIGNAGES TO HAVE ALUMINUM FRAME.

SIGNAGES AT CLASSROOMS TO WALL MOUNTED AT HIGH LEVEL

Signage Legend:



FIRE NOTES:

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
   To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
   To be installed as per SANS-0105 and 4.37.
5. **Water supply**
   To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be installed on escape door.
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    As per SANS - 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
    As per SANS - 10400-4.54.
16. **Ventilation**
    As Per SANS 10400- 4042

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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PROPOSED ADDITION & REFURBISHMENTS

TITLE

SPORT BLOCK
FIRE PROTECTION LAYOUT

Design by	AK	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		
Drg. No	RI 613-FP-06			Rev.	TD



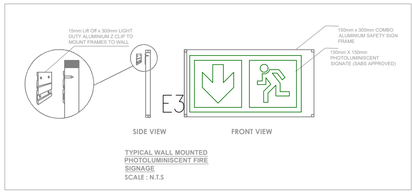
REFUSE BLOCK 1:50

FIRE PROTECTION

FIRE SIGNS	DISCRIPTION	QTY
E3	DIRECTION OF FIRE ESCAPE ROUTE SIZE : 150 X 300mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	6
F4	LOCATION OF FIRE EQUIPTMENT SIZE : 150 X450mm COLOUR : WHITE FIGURE ON GREEN BACKGROUND	2
	ESCAPE ROUTE PATH	

NOTES

- SIGNNAGES TO BE PHOTO LUMINSCENT
- SIGNAGES TO HAVE ALUMINUM FRAME.
- SIGNAGES AT CLASSROOMS TO WALL MOUNTED AT HIGH LEVEL

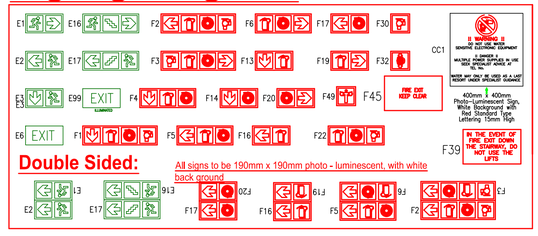


TYPICAL WALL MOUNTED PHOTOLUMINISCENT FIRE SIGNAGE
SCALE : N.T.S

FIRE NOTES:

1. Design as per SANS-10400 of 2011
2. **SANS-10400 -Part A** - building classification - **A3**
3. **Fire Hose Reels**
   To be installed as per SANS-534 and 4.37.
4. **Fire extinguishers**
   To be installed as per SANS-0105 and 4.37.
5. **Water supply**
   To be independent from domestic - too comply to SANS-10400 - part W
6. Only approved locking devices to be installed on escape door.
7. **Width of escape door**
   All escape doors to be minimum 813mm.
8. **Floor coverings**
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11. **Fire signage**
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13. **Structural Stability:**
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14. **Safety Distance**
    As per SANS - 10400 - 4.2.
15. **Access For Fire & Rescue Purpose.**
    As per SANS - 10400-4.54.
16. **Ventilation**
    As Per SANS 10400- 4042

Signage Legend:



Double Sided: All signs to be 190mm x 190mm photo - luminescent, with white back ground

FIRE NOTES:

1. Site reticulation are uPVC class 12- Ring Main pipe buried underground.
2. Internal pipework are medium grade galvanized steel.
3. Internal pipes are installed with one coat of red oxide paint
4. Pipes are painted signal red after installation.
5. Fire hose reel water supply pipes are medium grade galvanized mild steel.
6. All fire hose reels are provided with Ø25mm, 30m long hoses and inlet valves.
7. Fire Hose reel brackets are to be the swing type with hinges.
8. All fire extinguishers are wall mounted complete with timber backing.
9. This drawings to be read in conjunction with Gauteng DID Standard Specifications.
11. Please refer to the following Gauteng DID Standard Drawings;
    DID - E M1 Rev 2 for Fire Protection.

REFERENCE TO STANDARD DRAWINGS	
EQUIPMENT	STANDARD DRAWIN
Fire Extinguishers and Hose-Reel Detail	ME-E 01 02 02-
Standpipe Fire Hydrant	ME-E 01 04 01-
Fire Pump Hydrany (FPH)	ME-E 01 04 02-
Fire Cupboard (FC)	ME-E 01 05 01-
Fire Cabinet (FCo)	ME-E 01 05 02-
Fire Cabinet (FCo)	ME-E 01 05 03-
Fire Hose-Reel	ME-E 01 05 04-

TABLE A

MATERIAL	PIPE SIZE	PIPE SUPPORTS SPACING SUPPORT DISTANCE HORIZONTAL RUNS (mm)	 VERTICAL RUNS (mm)
STEEL	DN 25	2400	3000
	DN 32	2400	3000
	DN 40	2400	3700
	DN 50	2400	3700
	DN 65	3000	4600
	DN 80	3000	4600
	DN 100	3000	4600

FIRE LEGEND

- Pipe riser to above.
- Pipe dropper to below.
- Galvanized Steel Pipe.
- Class 12 uPvc Underground pipe.
- FH Fire Hydrant
- FE Fire Extinguisher — DCP CO2
- FR Fire Hose Reel

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

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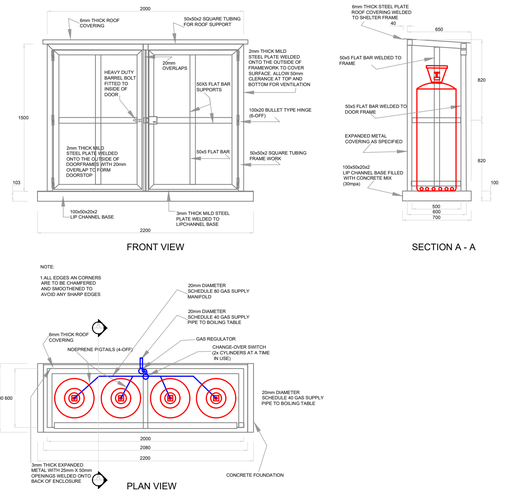
PROPOSED ADDITION & REFURBISHMENTS

TITLE

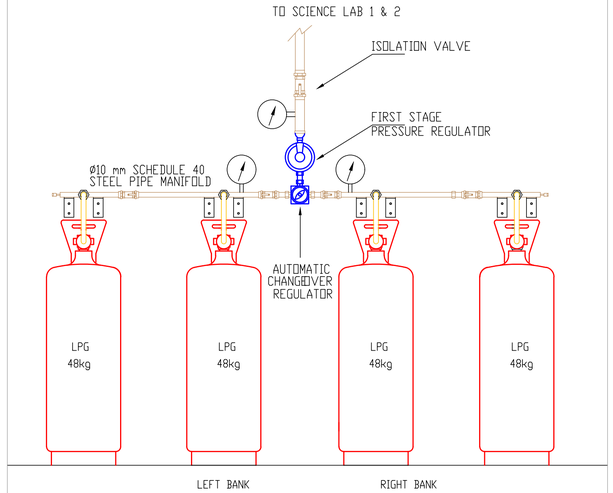
CLASS ROOMS BLOCK
FIRE PROTECTION LAYOUT

Design by	AK	DRAWING STATUS		Comments
Drawn by	AK	1 Proposal		
Checked	JM	2 Design		
Approved	JM	3 Tender	●	
Control		4 Construction		
Date	05.11.22	5 As Built		
Scale	1 : 100	6 CAD No.		

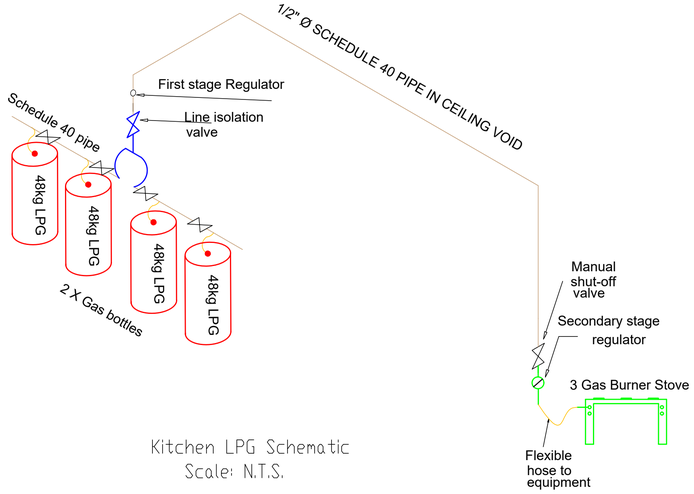
Drg. No. RI 613-FP-07 Rev. TD



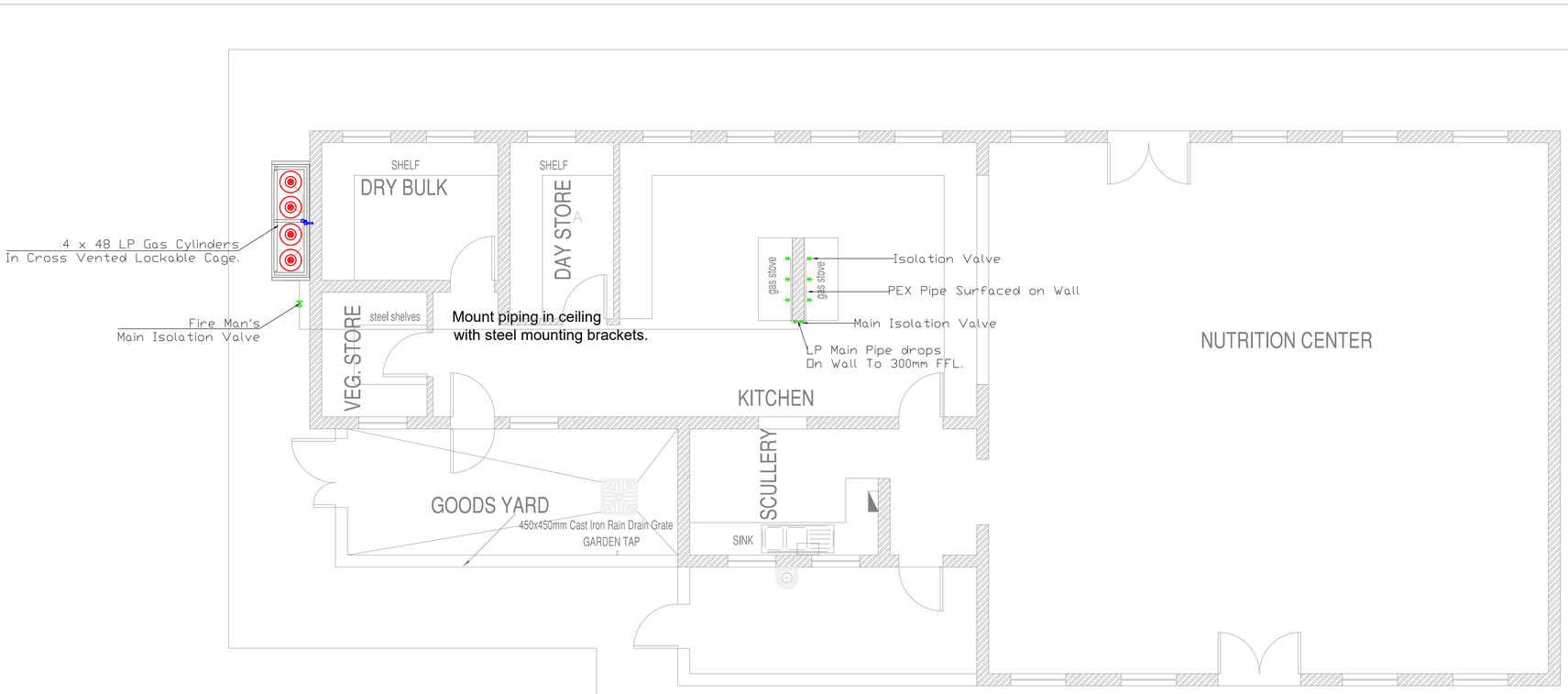
DETAIL 1: FREE STANDING LP GAS CYLINDER ENCLOSURE FOR FOUR 48KG CYLINDERS
SCALE : N.T.S



TYPICAL LPG CYLINDER INSTALLATION DETAIL
NTS



Kitchen LPG Schematic
Scale: N.T.S.



NUTRITION - KITCHEN
SCALE: 1:100

SYMBOL LEGEND

- Bunsen burner with 10mm flexible hose and isolating valve.
- Isolating valve.
- Lockable Isolating valve.
- Stop Cock

LINE LEGEND

- Schedule 40 Steel piping. Piping shall be installed inside a Purpose made trunking at ceiling height but below ceiling
- 10mm flexible hose

Min pipe sizes to each point are as follows

LPG–10
- Pipe size diameter
- Pipe content (Liquified petroleum gas)

1. All dimensions to be verified on site prior to setting out, generation of workshop drawings and construction.
2. Workshop drawings to be submitted for approval prior to ordering, manufacture and installation.
3. Installation to be done by competent installer to as required by SANS 10087.
4. Installer shall sought approval of local authority before commencing with installation.

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

CONSULTANT

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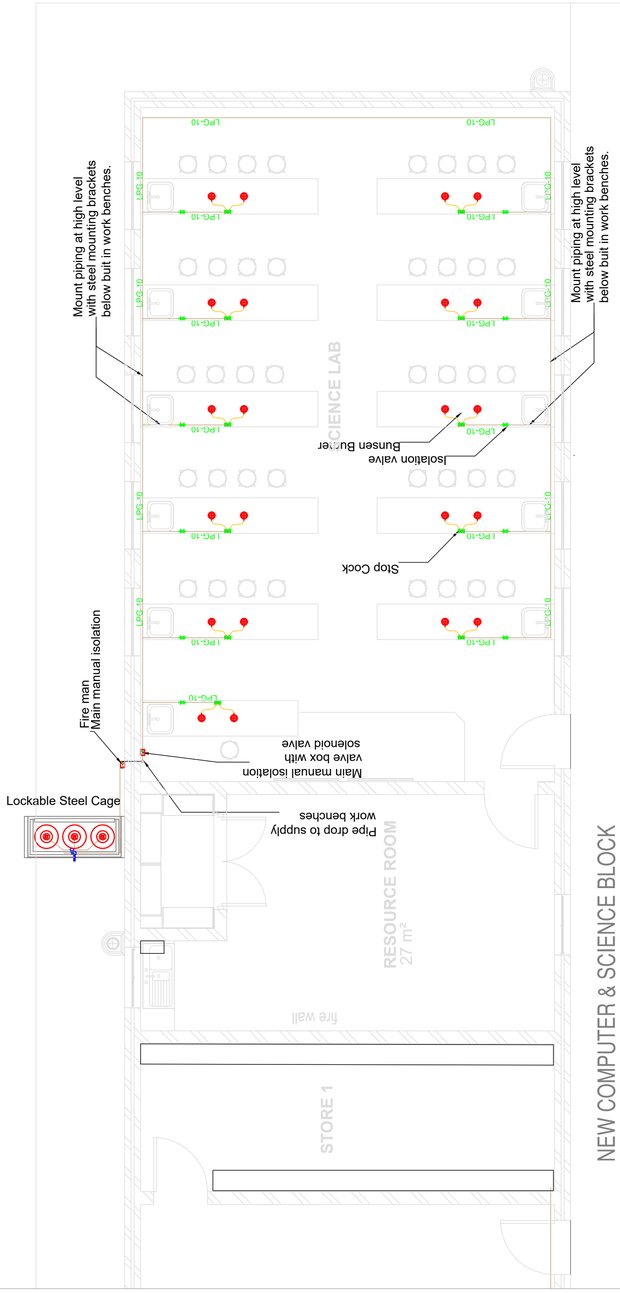
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

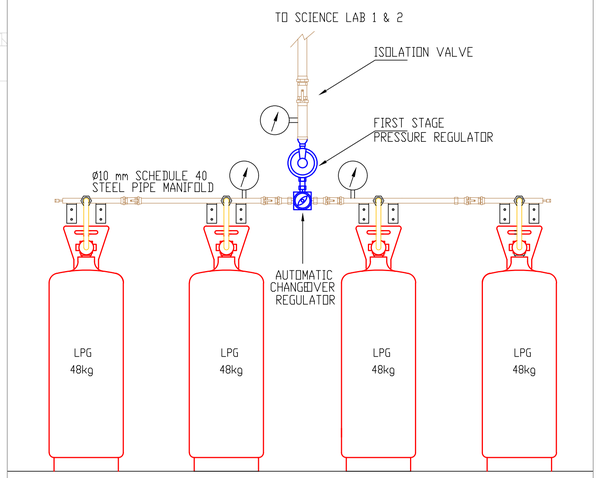
TITLE

NUTRITION BLOCK
LP GAS LAYOUT

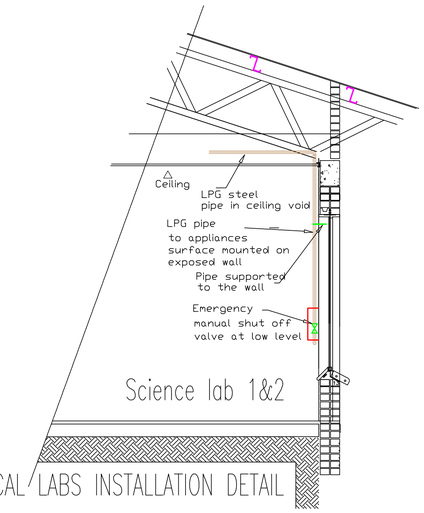
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Design by	AK	DRAWING STATUS				
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 50	6	CAD No.			
Drg. No	RI 613–LP–01				Rev.	TD



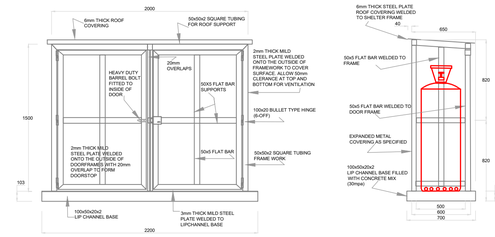
SCIENCE LAB
SCALE: 1:50

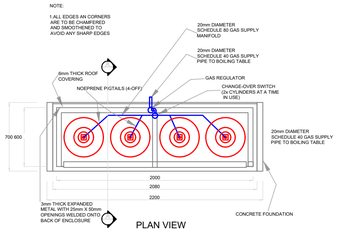


TYPICAL LPG CYLINDER INSTALLATION DETAIL
NTS



TYPICAL LABS INSTALLATION DETAIL
NTS





DETAIL 1: FREE STANDING LP GAS CYLINDER ENCLOSURE FOR FOUR 48KG CYLINDERS
SCALE : N.T.S

SYMBOL LEGEND

- Bunsen burner with 10mm flexible hose and isolating valve.
- Isolating valve.
- Lockable isolating valve.
- Stop Cock

LINE LEGEND

Schedule 40 Steel piping.
Piping shall be installed inside a Purpose made trunking at ceiling hieght but below ceiling.

10mm flexible hose

Min pipe sizes to each point are as follows

LPG-10
- Pipe size diameter
- Pipe content (Liquified petroleum gas)

1. All dimesions to be verified on site prior to setting out,generation of workshop drawings and construction.
2. Workshop drawings to be submitted for approval prior to ordering, manufacture and installation.
3. Installation to be done by competent installer to as required by SANS 10087.
4. Installer shall sought approval of local authority before connencing with installation.

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

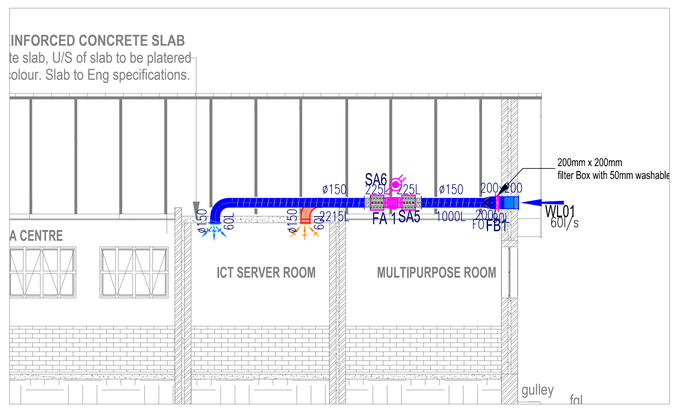
TITLE

SCIENCE LAB BLOCK
LP GAS LAYOUT

		DRAWING STATUS			Comments
Design by	AK	1	Proposal		
Drawn by	AK	2	Design		
Checked	JM	3	Tender	●	
Approved	JM	4	Construction		
Control		5	As Built		
Date	05.11.22	6	CAD No.		
Scale	1 : 50				
Drg. No	RI 613-LP-02			Rev.	TD



ADMINISTRATION BLOCK
SCALE: 1:50



SECTION 01
SCALE: 1:50

EQUIPMENT SCHEDULE

A/C UNITS

ITEM NO	DESCRIPTION	TOTAL COOL KW.	HEAT. KW.	Air. l/s	Power Req.
AC 01	Midwall Split Unit	5.2	HEAT PUMP	-	220V-1PH-50Hz- 1.8Kw

Fans

Item No.	Size Description	Flow l/s	RPM	S.Pr. Pa	Power Req.
FA 01	TD150/150 SILENT FRESH AIR FAN COMPLETE WITH FILTER BOX	60	-	180	220V-1PH 50Hz-0.08kW
EF 01	TD150/150 SILENT FRESH AIR FAN COMPLETE WITH FILTER BOX	60	-	-150	220V-1PH 50Hz- 0.08kW

Weather Louvre

Item No.	No.Off	Size/Description	Air Flow l/s	OBD	Remarks
WL 01	1	WEATHER LOUVRE 200x200 or Equal	60	No	-
WL 02	1	WEATHER LOUVRE 200x200 or Equal	60	No	-

Disc Valve

Item No.	No.Off	Size/Description	Air Flow l/s	OBD	Remarks
CV 01	1	DISC VALVE Ø150	60	No	-
CV 02	1	DISC VALVE Ø150	60	No	-

LEGEND

NOTES

1. This drawing is to be read in conjunction with the relevant Architectural, Structural and Electrical drawings.
2. The Contractor is responsible for correct field dimensions, clearances, heights, quantities, fabrication processes, techniques of construction and co-ordination of his work with that of all other trades and is to provide all devices necessary for safe and satisfactory operation.
3. The Contractor must adhere to the co-ordination principal shown on the drawing and must inspect all the architectural drawings and other design drawings pertaining to the works and acquaint himself with the general arrangement of all other services and ensure that in fixing his work it will not obstruct the fixing or future maintenance of other services.
4. All duct sizes shown are sheet metal sizes.
5. All ducting to be manufactured and installed in accordance with SANS 1238:2005 and SANS 10173:2003
6. All toilet air extract and Kitchen make-up air ducting to be uninsulated.
7. All exposed ducting on roof to be painted if so required by the Architect to an approved colour.
8. All extract air flexible ducts to be of the acoustic type.
9. All openings, sleeves etc. and making good after installation of air conditioning or ventilation equipment and pipework is by the Builder, including cut-outs in doors for door grilles.
10. Power supply to all air conditioning and ventilation equipment is by the Electrical contractor.
11. Finall positions of all air conditioning equipment and fans is to be determined on site after co-ordination with the other services and building elements.
12. All condensate drains shall be directed to the nearest drain point.
13. **This drawing must not be used for manufacture of ductwork, etc. The contractor is to produce his own Working / Shop drawings for approval by the Engineer before manufacture and installation.**

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J-M

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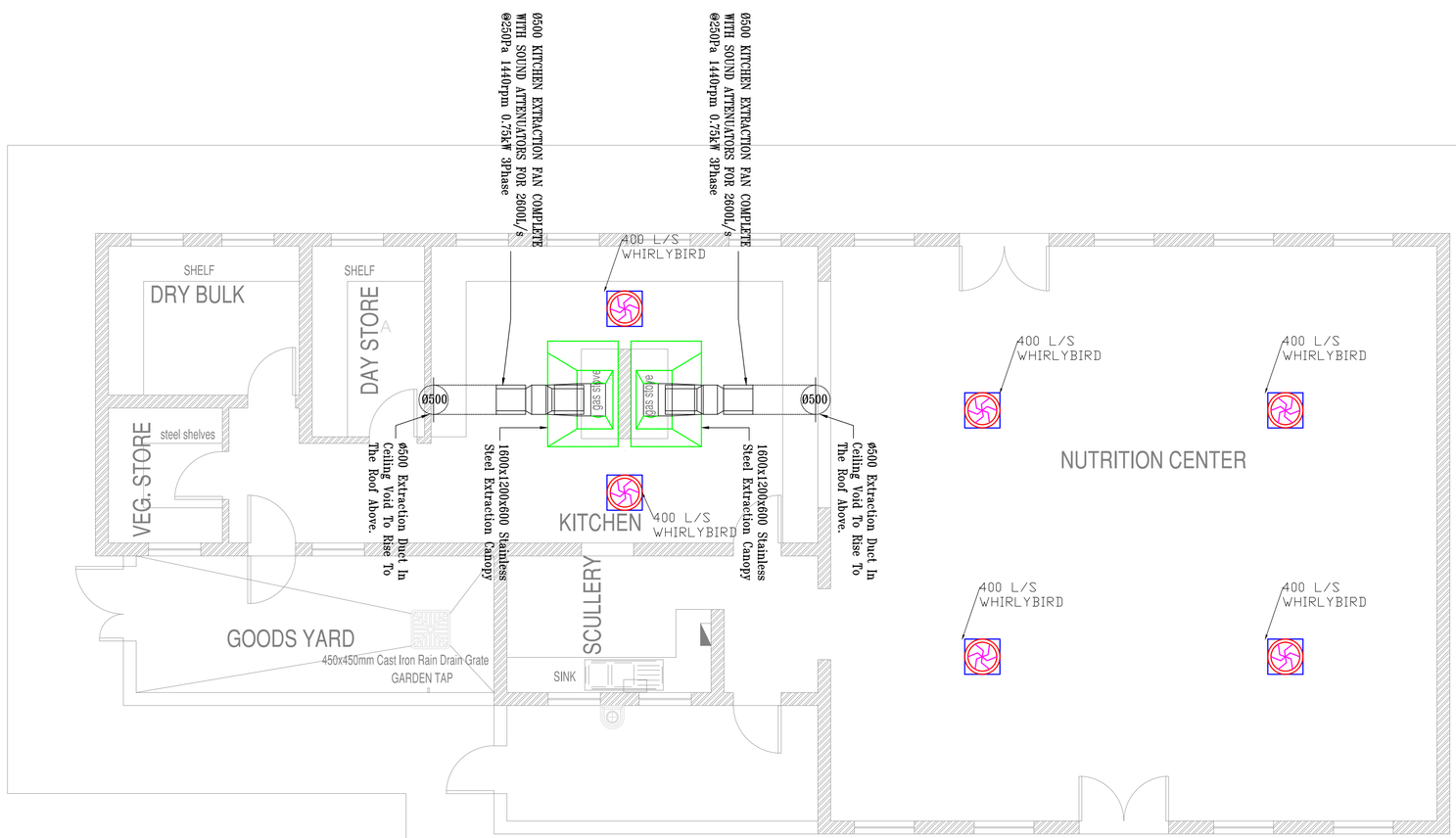
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

NUTRITION BLOCK
HVAC LAYOUT

Design by	AK	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 50	6	CAD No.		
Drg. No	RI 613-M-03			Rev.	TD



NUTRITION BLOCK- FLOOR PLAN

SCALE 1-100

EQUIPMENT SCHEDULE

A/C UNITS

ITEM NO	DESCRIPTION	TOTAL COOL KW	HEAT. KW.	Air. l/s	Power Req.
AC 01	Under Ceiling Split Unit	11.66	HEAT PUMP	-	220V-1PH-50Hz- 9Kw

LEGEND

NOTES

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8. All extract air flexible ducts to be of the acoustic type.
9. All openings, sleeves etc. and making good after installation of air conditioning or ventilation equipment and pipework is by the Builder, including cut-outs in doors for door grilles.
10. Power supply to all air conditioning and ventilation equipment is by the Electrical contractor.
11. Finall positions of all air conditioning equipment and fans is to be determined on site after co-ordination with the other services and building elements.
12. All condensate drains shall be directed to the nearest drain point.
13. **This drawing must not be used for manufacture of ductwork, etc. The contractor is to produce his own Working / Shop drawings for approval by the Engineer before manufacture and installation.**

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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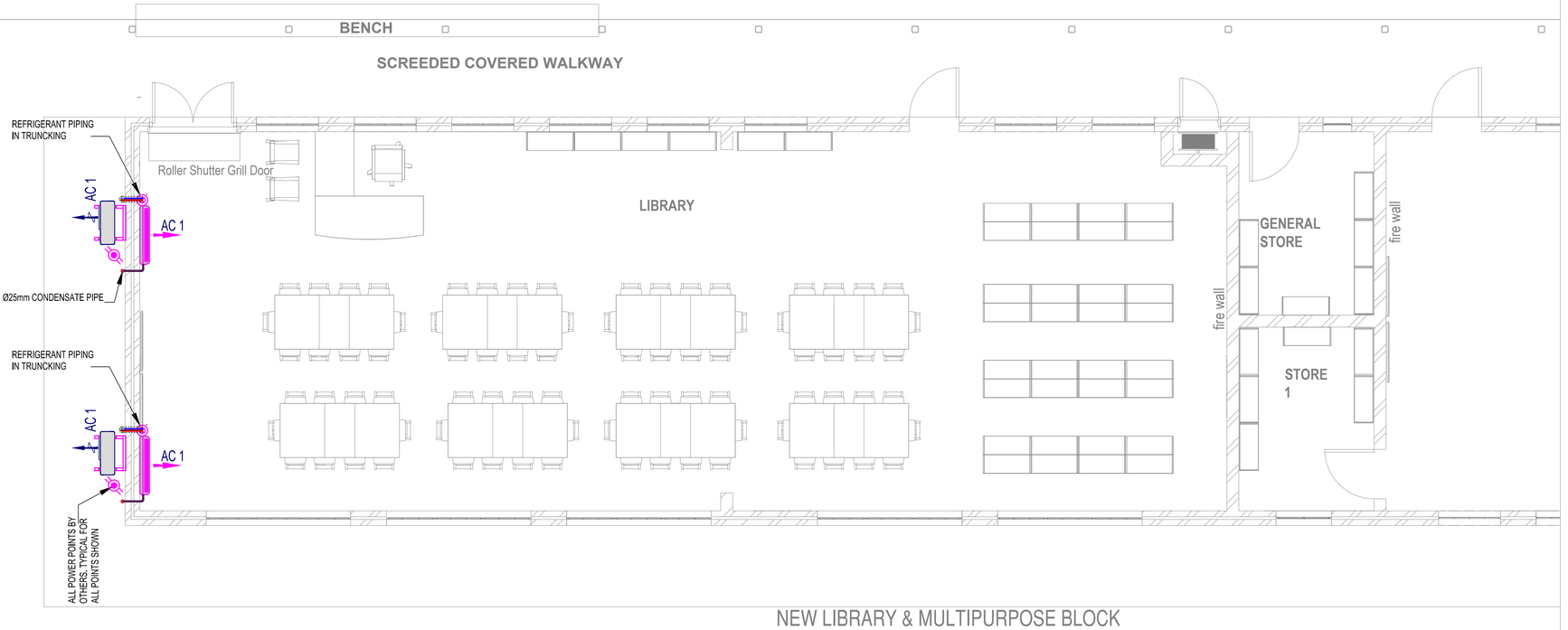
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

NUTRITION BLOCK
HVAC LAYOUT

					Comments
Design by	AK	DRAWING STATUS			
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 50	6	CAD No.		
Drg. No	RI 613-M-02			Rev.	TD



NEW LIBRARY & MULTIPURPOSE BLOCK

SCALE 1-100

EQUIPMENT SCHEDULE					
A/C UNITS					
ITEM NO	DESCRIPTION	TOTAL COOL KW	HEAT. KW.	Air. l/s	Power Req.
AC 01	Under Ceiling Split Unit	11.66	HEAT PUMP	-	220V-1PH-50Hz- 9Kw

LEGEND

NOTES

1. This drawing is to be read in conjunction with the relevant Architectural, Structural and Electrical drawings.
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12. All condensate drains shall be directed to the nearest drain point.
13. **This drawing must not be used for manufacture of ductwork, etc. The contractor is to produce his own Working / Shop drawings for approval by the Engineer before manufacture and installation.**

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Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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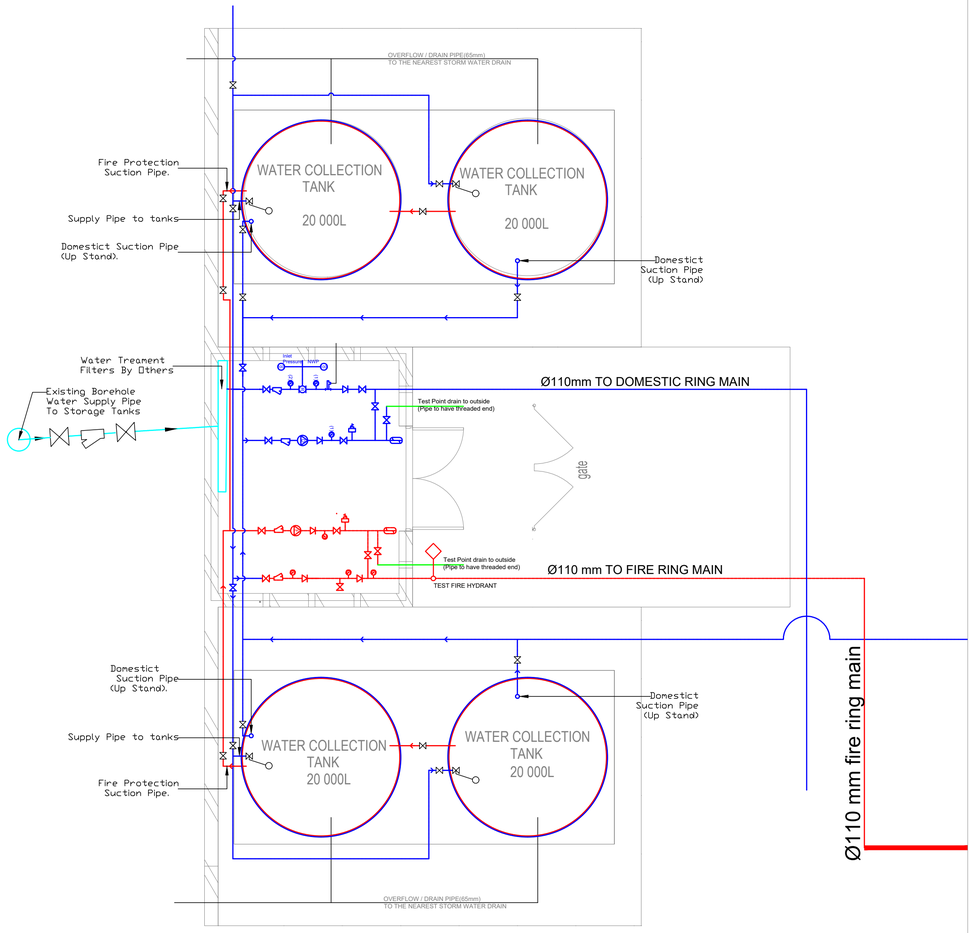
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

LIBRARY BLOCK
HVAC LAYOUT

						Comments
Design by	AK	DRAWING STATUS				
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 50	6	CAD No.			
Drg. No	RI 613-M-03				Rev.	TD



PLANT ROOM GROUND FLOOR PLAN 1:50

Special Note:

All work must comply with the Standard Quality Specification for Fire Protection DID-E M1 Latest Revision.

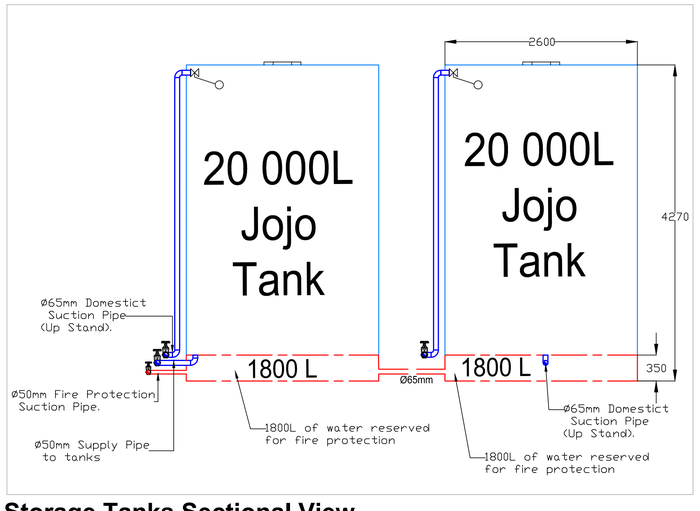
For Plant Room N domestic installation see ME-E 02 02 03.

For typical site layout see ME-E 01 06 02.

Legend:

For symbols see ME-E 01 01 01.

- 100mm Dial pressure gauge. (1) - 600kPa range. (2) - 2500kPa range.
- Pressure Tank.
- Fire Pump.
- Strainer
- Isolation Valve
- Pressure Reducing Valve
- Pressure Switch.



Storage Tanks Sectional View
Scale: NTS

Note:

In general piping inside the plant room must be mounted on the wall at least 1m from finished floor level with sufficient work space.

All piping related to the plant room and plant room installation is to be done in galvanized mild steel.

All fire piping around plant room must be painted as specified.
Fire Water - Signal Red
A laminated color coding legend is required and should be mounted in close proximity to diagrams.

Isolation valves for both main and emergency by-pass connections must be clearly marked as to its purpose and normal state.

Laminated diagrams of both the piping and electrical installation are to be mounted to a wall in the most visible position at eye level.

Pumps are to mounted on 150mm high mounting frames with sufficient vibration elimination.

Tanks are to be installed on raised footing to ensure a suction head of at least 500mm.

For installations where more than one tank is used connection must be duplicated.

Pipe sizes indicated are internal diameter.

In general the fire pump hydrant and fire pump connection must be installed in close proximity to the main gate.

The fire pump suction point only required when specified in project specifications.

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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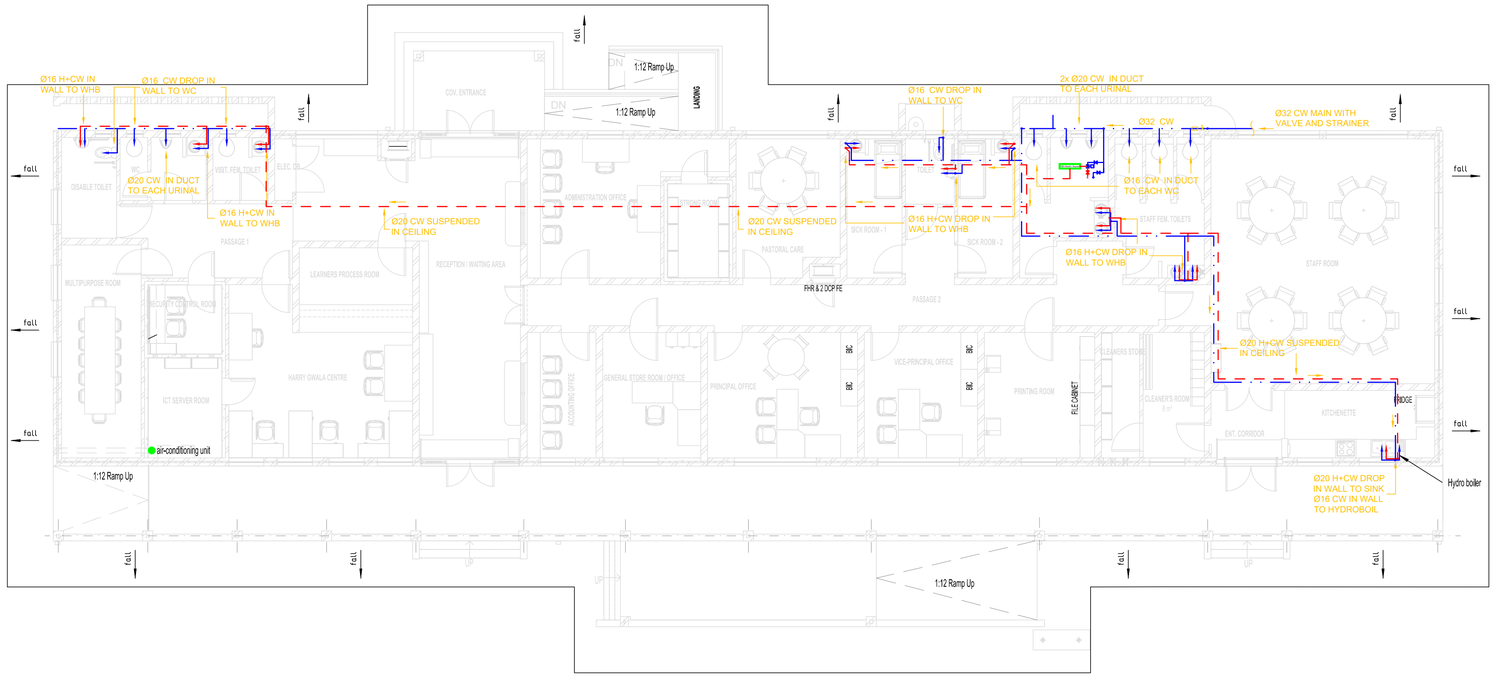
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

PROPOSED PLANT ROOM
PUMPS & TANKS LAYOUT

					Comments
Design by	AK	DRAWING STATUS			
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		
Drg. No	RI 613-PR-00			Rev.	TD



NEW ADMIN BLOCK
SCALE 1-100

PLUMBING LEGEND

- INTERNAL COLD WATER RETICULATION (CW)
- INTERNAL HOT WATER RETICULATION (HW)
- COLD / HOT WATER PIPE DROP/RISER
- CW — COLD WATER SUPPLY
- HW — HOT WATER SUPPLY
- ISOLATION VALVE

PLUMBING NOTES

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4: All underground cold water pipework to be high pressure TypeIV Class12 HDPE pipes and all above ground and surface pipework &fittings to hydrants and hose reels to be medium quality galvanised mild steel (GMS) to SANS62 as amended.

5: All hot and cold water pipes to be Multilayer PEXAL pipe.

6: All hot and cold water pipes in roof spaces, under soffits and on duct walls to be surface-mounted and fixed with standard pipe saddles and brackets spaced evenly in accordance with the Manufacturer's approved maximum spacing of fixings for internal piping.

7: All jointing of pipes to be cleaned after installation; hemps to be removed and solder joints to be wiped.

8: Isolation stop cocks to be provided to all cold and hot water pipes to sanitryware as necessary, i.e stop cocks to both hot & cold water pipes to wash basins and sinks, and only one stop cock on the cold water pipe to water closet.

9: All internal hot water pipes larger than 15mm diameter are to be insulated with thermal insulation as per Engineer's specification and approval.

10: All surface mounted pipes to be installed in straight parallel lines with rubber line brackets.

11: After installation of pipes and before any valves are connected, the entire pipework must be thoroughly flushed.

12: All materials and workmanship is to be carried out in accordance with SANS 10400 and SANS 10252-1:2004

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

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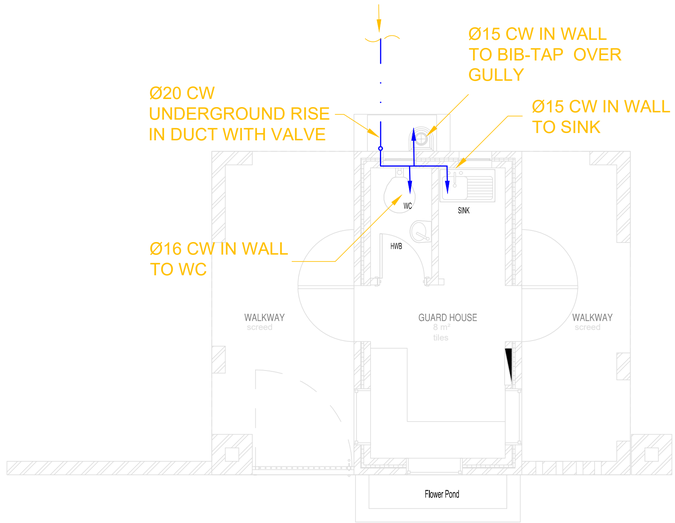
PROPOSED ADDITION & REFURBISHMENTS

TITLE

ADMINISTRATION BLOCK
DOMESTIC WATER SUPPLY LAYOUT

						Comments
Design by	SD	DRAWING STATUS				
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 100	6	CAD No.			
Drg. No.	RI 613-W-01				Rev.	TD

SEE CIVIL ENGINEERS
LAYOUT FOR
CONTINUATION



NEW GUARD HOUSE
SCALE 1:50

PLUMBING LEGEND

- INTERNAL COLD WATER RETICULATION (CW)
- INTERNAL HOT WATER RETICULATION (HW)
- COLD / HOT WATER PIPE DROP/RISER
- CW — COLD WATER SUPPLY
- HW — HOT WATER SUPPLY
- ⋈ — ISOLATION VALVE

PLUMBING NOTES

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4: All underground cold water pipework to be high pressure TypeIV Class12 HDPE pipes and all above ground and surface pipework &fittings to hydrants and hose reels to be medium quality galvanised mild steel (GMS) to SANS62 as amended.

5: All hot and cold water pipes to be Multilayer PEXAL pipe.

6: All hot and cold water pipes in roof spaces, under soffits and on duct walls to be surface-mounted and fixed with standard pipe saddles and brackets spaced evenly in accordance with the Manufacturer's approved maximum spacing of fixings for internal piping.

7: All jointing of pipes to be cleaned after installation; hemps to be removed and solder joints to be wiped.

8: Isolation stop cocks to be provided to all cold and hot water pipes to sanitryware as necessary, i.e stop cocks to both hot & cold water pipes to wash basins and sinks, and only one stop cock on the cold water pipe to water closet.

9: All internal hot water pipes larger than 15mm diameter are to be insulated with thermal insulation as per Engineer's specification and approval.

10: All surface mounted pipes to be installed in straight parallel lines with rubber line brackets.

11: After installation of pipes and before any valves are connected, the entire pipework must be thoroughly flushed.

12: All materials and workmanship is to be carried out in accordance with SANS 10400 and SANS 10252-1:2004

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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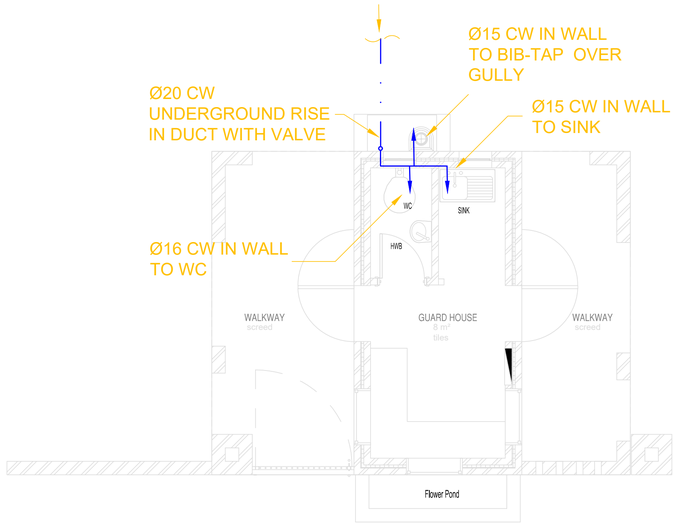
PROPOSED ADDITION & REFURBISHMENTS

TITLE

GUARD BLOCK
DOMESTIC WATER SUPPLY LAYOUT

Design by	SD	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design	●	
Approved	JM	3	Tender		
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		
Drg. No	RI 613-W-02			Rev.	TD

SEE CIVIL ENGINEERS
LAYOUT FOR
CONTINUATION



NEW GUARD HOUSE
SCALE 1:50

PLUMBING LEGEND

- INTERNAL COLD WATER RETICULATION (CW)
- INTERNAL HOT WATER RETICULATION (HW)
- COLD / HOT WATER PIPE DROP/RISER
- CW — COLD WATER SUPPLY
- HW — HOT WATER SUPPLY
- ⋈ — ISOLATION VALVE

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5: All hot and cold water pipes to be Multilayer PEXAL pipe.

6: All hot and cold water pipes in roof spaces, under soffits and on duct walls to be surface-mounted and fixed with standard pipe saddles and brackets spaced evenly in accordance with the Manufacturer's approved maximum spacing of fixings for internal piping.

7: All jointing of pipes to be cleaned after installation; hemps to be removed and solder joints to be wiped.

8: Isolation stop cocks to be provided to all cold and hot water pipes to sanitryware as necessary, i.e stop cocks to both hot & cold water pipes to wash basins and sinks, and only one stop cock on the cold water pipe to water closet.

9: All internal hot water pipes larger than 15mm diameter are to be insulated with thermal insulation as per Engineer's specification and approval.

10: All surface mounted pipes to be installed in straight parallel lines with rubber line brackets.

11: After installation of pipes and before any valves are connected, the entire pipework must be thoroughly flushed.

12: All materials and workmanship is to be carried out in accordance with SANS 10400 and SANS 10252-1:2004

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	J.M

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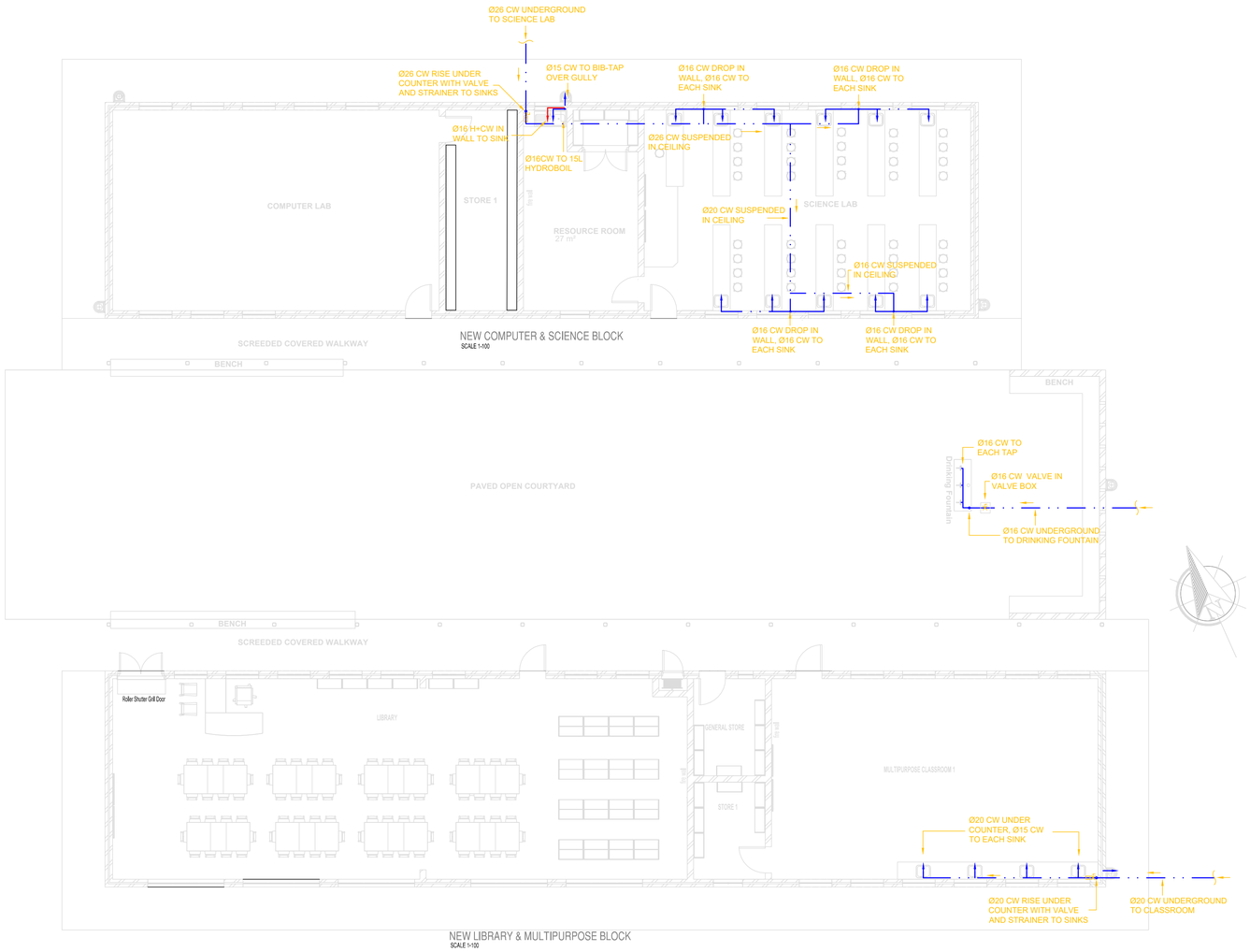
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

GUARD BLOCK
DOMESTIC WATER SUPPLY LAYOUT

Design by	SD	DRAWING STATUS			Comments
Drawn by	AK	1	Proposal		
Checked	JM	2	Design	●	
Approved	JM	3	Tender		
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		
Drg. No	RI 613-W-02			Rev.	TD



PLUMBING LEGEND

- INTERNAL COLD WATER RETICULATION (CW)
- INTERNAL HOT WATER RETICULATION (HW)
- COLD / HOT WATER PIPE DROP/RISER
- CW — COLD WATER SUPPLY
- HW — HOT WATER SUPPLY
- ISOLATION VALVE

PLUMBING NOTES

1: This drawing in not to be used as a construction/ installation drawing and the Contractor shall prepare his own construction/ installation drawings to be submitted to the Engineer for approval before any installation work is carried out.

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11: After installation of pipes and before any valves are connected, the entire pipework must be thoroughly flushed.

12: All materials and workmanship is to be carried out in accordance with SANS 10400 and SANS 10252-1:2004

REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

CONSULTANT

RIVONINGO CONSULTING ENGINEERS

Unit G15, Pinewood Office Park,
33 Riley Road, Woodmead Extension,
Sandton

Tel: 011 234 4196/4053
Fax: 011 234 2990
E-mail: info@rivoningo.com

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PROJECT

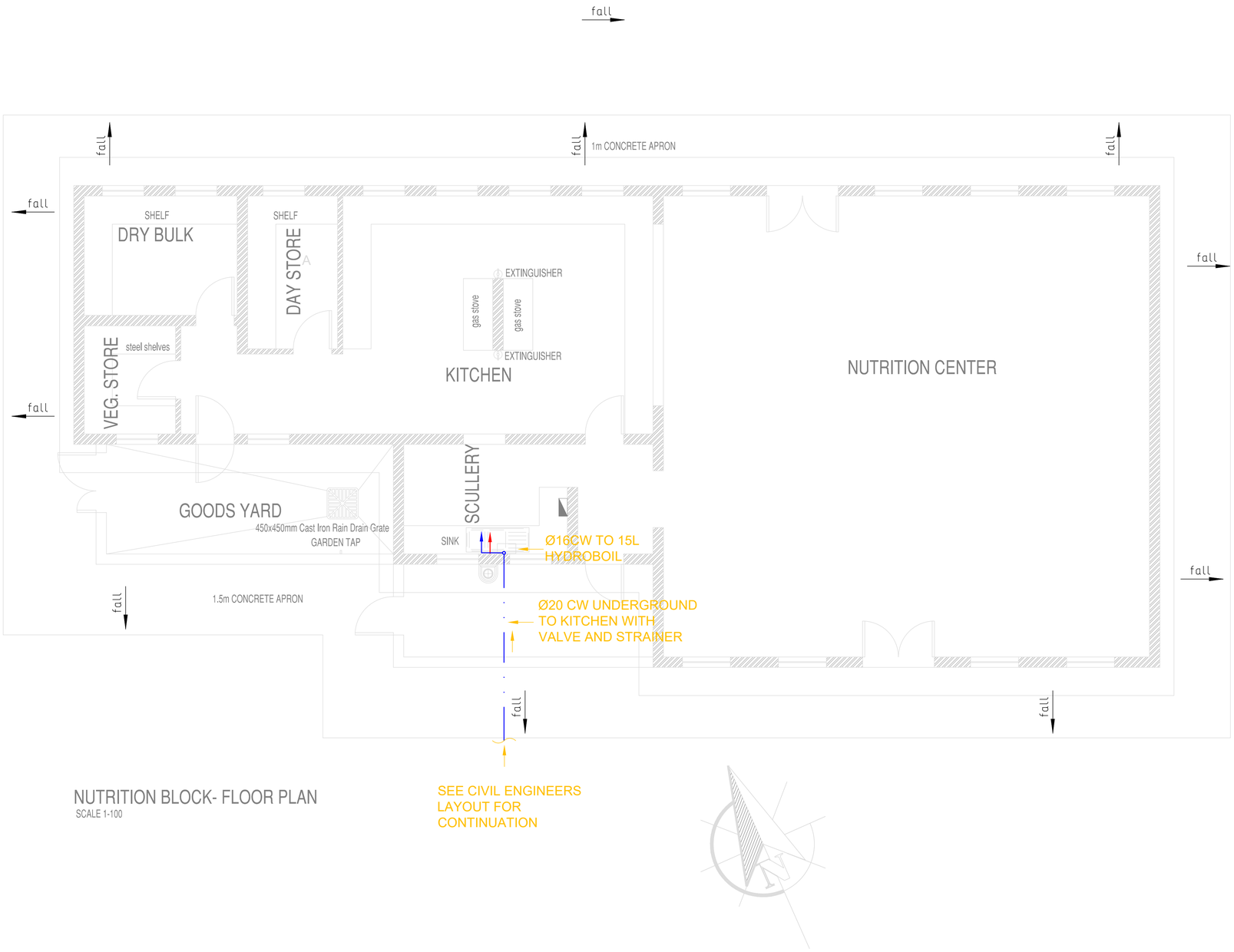
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

LIBRARY BLOCK
DOMESTIC WATER SUPPLY LAYOUT

Design by	SD	DRAWING STATUS				Comments
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender		●	
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 100	6	CAD No.			
Drg. No	RI 613-W-03			Rev.	TD	



NUTRITION BLOCK- FLOOR PLAN

SCALE 1-100

PLUMBING LEGEND

- INTERNAL COLD WATER RETICULATION (CW)
- INTERNAL HOT WATER RETICULATION (HW)
- COLD / HOT WATER PIPE DROP/RISER
- CW — COLD WATER SUPPLY
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- ISOLATION VALVE

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TD	ISSUED FOR TENDER	12.07.23	JM

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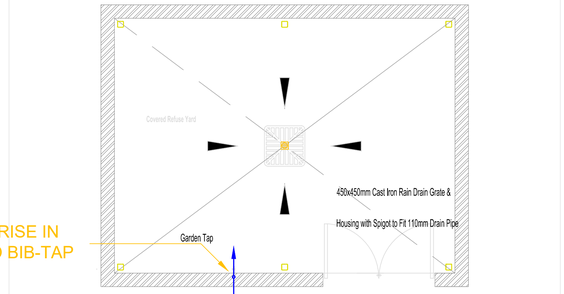
IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

NUTRITION BLOCK
DOMESTIC WATER SUPPLY LAYOUT

					Comments
Design by	SD	DRAWING STATUS			
Drawn by	AK	1	Proposal		
Checked	JM	2	Design		
Approved	JM	3	Tender	●	
Control		4	Construction		
Date	05.11.22	5	As Built		
Scale	1 : 100	6	CAD No.		
Drg. No	RI 613-W-04			Rev.	TD



Ø20 CW RISE IN WALL TO BIB-TAP

Ø20 CW UNDERGROUND TO BIB-TAP

NEW REFUSE YARD
SCALE 1-50

SEE CIVIL ENGINEERS LAYOUT FOR CONTINUATION

PLUMBING LEGEND

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- INTERNAL HOT WATER RETICULATION (HW)
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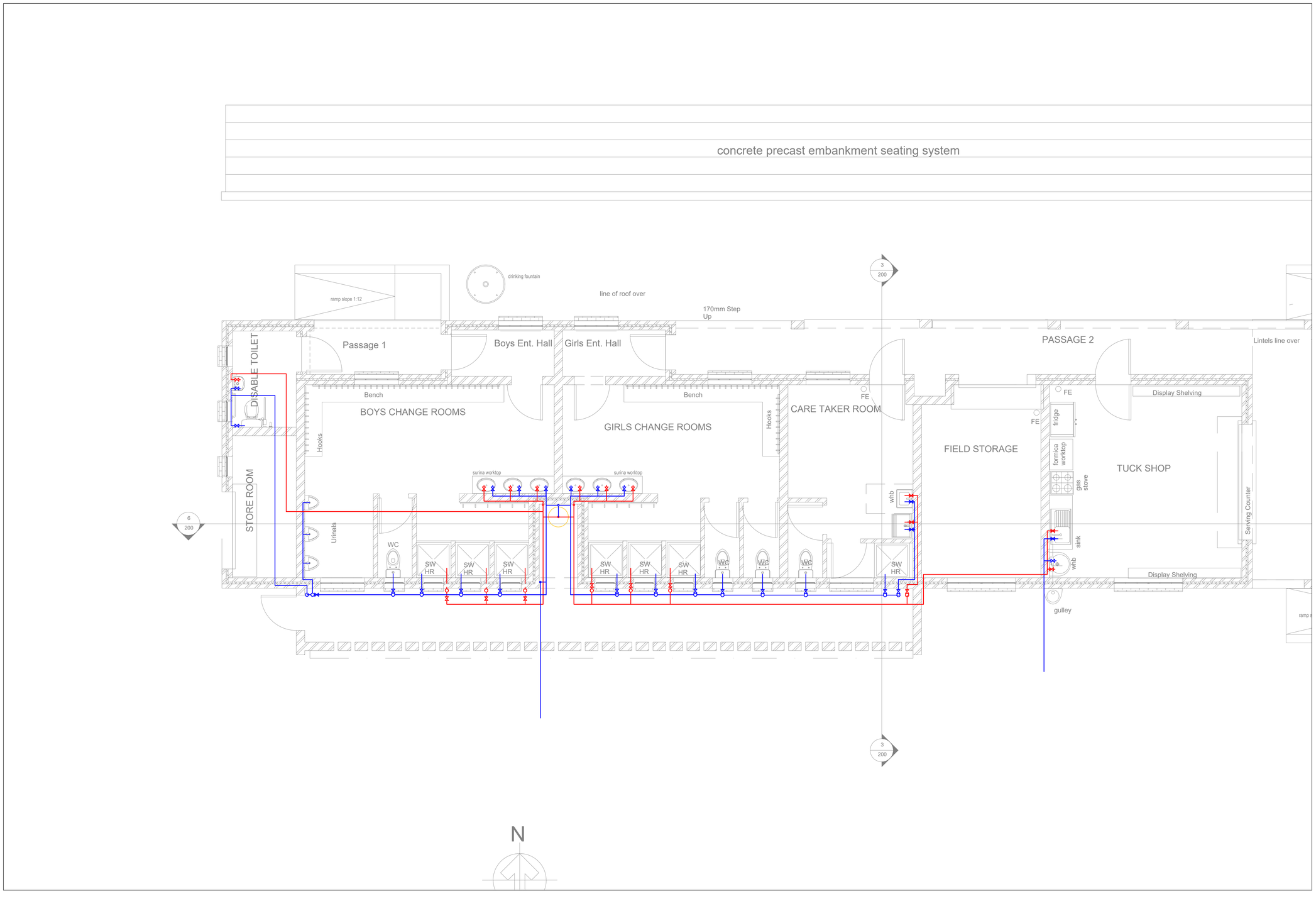
PROPOSED ADDITION & REFURBISHMENTS

TITLE

LIBRARY BLOCK
DOMESTIC WATER SUPPLY LAYOUT

						Comments
Design by	SD	DRAWING STATUS				
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 100	6	CAD No.			

Drg. No. RI 613-W-05 Rev. TD



PLUMBING LEGEND

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- INTERNAL HOT WATER RETICULATION (HW)
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REVISIONS

Rev.	Description	Date	Ckd.
TD	ISSUED FOR TENDER	12.07.23	JM

CONSULTANT

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PROJECT

IKANENG SECONDARY SCHOOL

PROPOSED ADDITION & REFURBISHMENTS

TITLE

SPORT BLOCK
DOMESTIC WATER SUPPLY LAYOUT

Design by	SD	DRAWING STATUS				Comments
Drawn by	AK	1	Proposal			
Checked	JM	2	Design			
Approved	JM	3	Tender	●		
Control		4	Construction			
Date	05.11.22	5	As Built			
Scale	1 : 50	6	CAD No.			
Drg. No.	RI 613-W-06				Rev.	TD

C4 SITE INFORMATION

C4.1 Site Information

2) DESCRIPTION OF THE WORKS

1.1 THE SITE

The site is accessible via the Van Deventer Street joining from the R 511 road. The central coordinates of the site is latitude -25.584207° longitude 27.769757° with an elevation from mean sea level of about 1126 m.

1.2 WORK AREA

The working area is the area within the boundaries

1.3 ACCESS

The contractor to arrange temporary access to the site.

1.4 GENERAL - Restrictions on site

Whilst there are no known restriction on site, the Contractor is to seek confirmation from the Principal Agent before any site establishment.

ADDENDUM A

Occupational Health and Safety Regulations

GOVERNMENT NOTICE

DEPARTMENT OF LABOUR

No. R. ..... 7 February 2014

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

CONSTRUCTION REGULATIONS, 2014

The Minister of Labour has under section 43 of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), after consultation with the Advisory Council for Occupational Health and Safety, made the regulations in the Schedule.

ADDENDUM A

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
Regulation 3 of the Construction Regulations, 2014

NOTIFICATION OF CONSTRUCTION WORK

1.(a) Name and postal address of principal contractor:

_____

(b) Name and tel. no of principal contractor's contact person:

_____

2. Principal contractor's compensation registration number: _____

3.(a) Name and postal address of client:

_____

(b) Name and tel no of client's contact person or agent:

_____

4.(a) Name and postal address of designer(s) for the project:

_____

(b) Name and tel. no of designer(s) contact person:

_____

5. Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6.(1). _____

6. Name/s of principal contractor's sub-ordinate supervisors on site appointed in terms of regulation 6.(2).

_____

7. Exact physical address of the construction site or site office:

_____

8. Nature of the construction work:

_____

_____

_____

9. Expected commencement date: _____

10. Expected completion date: _____

11. Estimated maximum number of persons on the construction site.

_____

12. Planned number of contractors on the construction site accountable to principal contractor:

_____

13. Name(s) of contractors already chosen.

_____

_____

_____

_____ _____

Principal Contractor Date

_____ _____

Client Date

- THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

- **ALL PRINCIPAL CONTRACTORS** THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

ADDENDUM B

Occupational Health and Safety Specification

REFURBISHMENT AND UPGRADING OF WITBANK HOSPITAL (HERITAGE BUILDING) ORTHOPAEDIC WARDS BLOCK

INDEPENDENT DEVELOPMENT TRUST

(Hereinafter referred to as the Employer)

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

This specification shall be used in conjunction with all other applicable safety specifications, legislation and regulations in force at the time of the contract. Where unique site specifications are in force, those site specifications shall take precedence over this Specification.

The Independent Development Trust (IDT)
Glenwood Office Park
Cnr. Oberon and Sprite Street
Faerie Glen
Pretoria
0182

ADDENDUM “A”

PRO-FORMA AGREEMENT IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY ACT 1993

PRO-FORMA AGREEMENT IN TERMS OF

OCCUPATIONAL HEALTH AND SAFETY ACT 1993 – SECTION 37 (2)

NEW CONSTRUCTION SAFETY REGULATIONS

The above-mentioned regulations were promulgated in the Govt. Gazette on Friday, 18 March 2014 under the Occupational Health & Safety Act (85 of 1993) and are now in force.

The Employer and the Contractor hereby agree, in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act 1993 (Act 85 of 1993, hereinafter referred to as the Act), that the following arrangements and procedures shall apply between them to ensure compliance by the Contractor with the provisions of the Act, namely:

(a) The Contractor undertakes to acquaint the appropriate officials and employees of the Contractor with all the relevant provisions of the Act and the regulations promulgated in terms of the Act, and the Employer's Health and Safety Specifications included in the contract documents.

(b) The Contractor undertakes that all relevant duties, obligations and prohibitions imposed in terms of the Act and Regulations and the Employer's Health and Safety Specifications included in the contract documents will be complied with in all respects.

(c) In relation to any work or activity performed by the Contractor, his workmen or any other person for whose acts or omissions the Contractor is responsible in terms of the Contract, the Contractor hereby accepts sole liability for such due compliance with the relevant duties, obligations and prohibitions imposed by the Act and Regulations and expressly absolves the Employer from itself being obliged to comply with any of the aforesaid duties, obligations and prohibitions.

(d) The Contractor agrees that any duly authorised officials of the Employer shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the Contractor has complied with his undertakings as set out more fully in paragraphs (a) and (b) above, which steps may include, but will not be limited to, the right to inspect any appropriate site or premises occupied by the Contractor, or to inspect any appropriate records held by the Contractor.

(e) The Contractor shall be obliged to report forthwith in writing to the Representative/Agent full details of any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the Act and Regulations, pursuant to work performed in terms of this Contract.

(f) Forward “safety meeting” minutes to the representative/Agent.

For the Employer: _____ Date: _____

Witnesses: 1) : _____ 2) _____

For the Contractor: _____ Date: _____

Witnesses: 1) : _____ 2) _____

ADDENDUM “B”

NOTIFICATION OF CONSTRUCTION WORK

NOTIFICATION OF CONSTRUCTION WORK
(Regulation 3 of the Construction Regulations, 2014)

1. CONTRACTOR

1.1 Name and postal address of Contractor:

_____
_____
_____

1.2 Name and telephone number of Contractor's contact person :

_____

1.3 Contractor's compensation registration number :

_____

1.4 Name and telephone number of Contractor's Construction Supervisor :

_____

1.5 Physical address of the construction site or site office:

_____
_____
_____

1.5 Estimated number of persons on the construction site:

_____

1.6 Estimated number of Subcontractors on the construction site accountable to the Contractor:

_____

2. EMPLOYER

2.1 Name and postal address of Employer :

_____
_____
_____

2.2 Name and telephone number of Employer's Principal Agent:

3. DESIGN CONSULTANTS

3.1 Name and postal address of OHS consultants:

3.1.1 Occupational Health and Safety

To be advised

3.1.2 Other (if any):

3.2 Name and telephone number of design consultant's contact person:

3.2.1 Construction project managers/ Principal Agent:

3.2.2 Architects:

3.2.3 Structural engineer :

3.2.4 Electrical engineer:

3.2.5 Mechanical engineer:

3.2.6 Civil engineer:

3.2.7 Other (if any):

4. THE WORKS

Nature of the works:

Commencement date:

_____

Completion date:

_____

Contractor: _____ Date: _____

Employer: _____ Date: _____

THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

ALL CONTRACTORS THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER CONTRACTOR ON THE SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

ADDENDUM C

Environmental Management Plan

TO BE PROVIDED BY THE SUCCESSFUL BIDDER

ADDENDUM I

Drawings

ADDENDUM J

IDT Addendum to the JBCC

ADDENDUM

To the

THE JBCC PRINCIPAL BUILDING AGREEMENT

NAME OF PROJECT: ----------

INTRODUCTION

WHEREAS, the Independent Development Trust ("IDT") made an Offer of Appointment and the Contractor has accepted such appointment subject to the conditions stipulated in the aforesaid Offer of Appointment Letter, which conditions include signing of the JBCC Agreement, Edition …… (hereinafter referred to as "Main Agreement").

AND WHEREAS, this addendum shall form part of the Main Agreement between the Employer and the Contractor.

1. ADDENDUM TO THE MAIN AGREEMENT

1.1 This Agreement will constitute an Addendum to the Main Agreement as contemplated herein;

1.2 The Terms of Reference, Accepted Proposal or BID, Standard Conditions of BID, Special Conditions of BID and adjusted Priced Bills of Quantities shall form part of the agreement between the Contractor and the Employer;

1.3 This Addendum will be deemed to incorporate, with or without variation, all the provisions of the Main Agreement, unless the context clearly requires otherwise;

1.4 All words and phrases used in this Addendum which are defined in the Main Agreement, will bear the same meaning assigned to them in the Main Agreement; and

1.5 All references in the Main Agreement to "the/this Agreement" itself, will be deemed to be references also to the Main Agreement duly amended by this Addendum.

1.6 Interpretations and Definition

1.6.01 **Financial Implications** shall means the variation amount over and above the awarded contract sum.

2. SPECIAL CONDITION

If there is any conflict between the contents or any part of this Addendum and the contents or any part of the Main Agreement and other annexures, the content of this Addendum shall prevail.

3. WAIVER OF CONTRACTOR'S LIEN

3.1 The Contractor hereby waives, in favour of the Employer, any lien or right of retention that is or may be held in respect of the Works to be executed on the Site.

3.2 The Employer, as an Organ of State, shall not be required to provide payment guarantees.

4. ASSIGNMENT OF RIGHTS OR OBLIGATIONS

4.1 Neither **party** shall assign or cede rights or obligations without the written consent of the other **party**, which consent shall not be unreasonable withheld.

4.2 Where the Contractor intend to cedes any right to monies due or to become due under this agreement as security in favour of a financial institution, a written consent in accordance with clause 4.1 above, shall be obtained from the Employer prior to entering into such cession.

4.3 Any cession entered into without the necessary written consent from the either party, shall be null and void.

4.4 The Employer shall not consent to a cession of monies due or to become due under this agreement as security in favour of a financial institution, unless such financial institution submitted to the IDT a Valid Tax Clearance Certificate, is registered as a credit provider in terms of the National Credit Act and as a vendor in the IDT's Vendor Management System.

5 INTERIM PAYMENT

5.1 The **Employer** shall, in accordance with clause 8.2.3 of the treasury regulation of March 2005, pay to the **Contractor** the amount certified in an interim **payment certificate** within **thirty (30) calendar days** of the date of submission of the **payment certificate**".

5.2 Default interest, where applicable, shall only be effective after the 30 calendar days of the date of receipt of the interim **payment certificate from the Principal Agent.**

5.3 The Employer shall be entitled to apply a set-off against a legitimate and liquid claim against the Contractor from which a valid invoice has been received.

6 TAX COMPLIANCE MEAUSRES

6.1 The Contractor hereby grant confirmation that SARS may, on on-going basis during the contract term, disclose the Contractor's tax compliance status to the employer.

6.2 Should the Contractor appoint a sub-contractor to execute a portion of a work in excess of the threshold (currently 25%) prescribed by the National Treasury, the Contractor must ensure that a sub-contractor is tax complaint and remains tax compliant for the full duration of the contract. The contractor shall obtain a written consent from its sub-contractors confirming that SARS may on on-going basis during the contract term, disclose the sub-contractor's tax compliance status to the employer.

6.3 The Contractor shall submit a valid tax clearance certificate within 10 working days from the date of expiry of the tax clearance certificate. The Employer reserve the right to demand a valid Tax Clearance Certificate prior to making any payment to the Contractor, should it become aware that the tax clearance corticated has expired.

6.4 Unless the Employer receive a written confirmation that the Contractor has challenged its tax compliance status with SARS, the Employer shall not process any payment to the Contractor, if 30 days has lapsed since the written notice by the Employer and the Contractor has failed to remedy its tax compliance status.

6.5 Employer's non-payment of the Contractor's invoice in accordance with clause 6.4 above shall not absolve the contractor from performing its obligation in terms of the contract.

6.6 Unless the Employer receives a written confirmation that the Contractor or sub-Contractor has challenged its tax compliance status with SARS, the Employer shall be entitled to cancel the contract with the Contractor or instruct the Contractor to cancel its contract with the Sub-Contractor.

6.7 Where a Contractor is a JV, each party to a JV must be tax complaint and remains tax compliant for the full duration of the contract, failing which, the Employer shall invoke paragraph 6.4 or 6.6 above.

7. APPROVAL OF VARIATION ORDERS

7.1 Upon receipt of the Variation Order (VO), the Principal Agent must professionally consider the merits of the Variation Order and make a recommendation to the Employer.

7.2 The Principal Agent shall not have the power to approve any deviation or variation which has financial implications on the Employer without the necessary written approval of the Employer, except under emergency circumstances wherein failure to undertake the work may result in loss of life.

7.3 The Employer must communicate the approval of a Variation Order in writing to the Principal Agent and the Principal Agent shall, upon receipt of confirmation of the approval of the VO, issue the necessary Contract Instruction to the contractor to undertake the works.

7.4 The Contractor shall not commence with any Variation Order Works without the written approval of the Variation Order from the Employer, except under circumstances mentioned in paragraph **7.2** above.

7.5 Should the Contractor undertakes the Variation Order Works without the necessary written approval of the Variation Order from the Employer, the Contractor shall be entirely liable for any financial and any related implications and hereby indemnify

and hold harmless the Employer from and against any and all claims, actions, damages, liabilities, injuries, costs, fees, expenses, or losses, including and without limitation, reasonable attorney's fees and costs of investigation and litigation, whatsoever which may be incurred by, or for which liability may be asserted against, the Employer arising out of the Contractor's performance or non-performance of unauthorized works, but only to the extent caused by the negligent acts, errors or omissions of the Contractor.

7.6 The Contractor shall not accept any instructions from any party, including beneficiary Department, other than the Principal Agent.

8. JOINT VENTURE AGREEMENT

8.1 Should the Joint Venture Agreement be dissolved or any of the JV partner pull out the JV Agreement for any reasons whatsoever, the Employer hereby reserve its right to terminate the contract with immediate effect.

8.2 Should the Employer decide not to terminate the contract upon the dissolution of the JV Agreement and the replacement JV partner does not meet the BBBEE threshold stipulated in the BID document, the IDT shall be entitled to cancel the contract with immediate effect.

8.3 Should the BBBEE status of the Joint Venture be changed to a lower rate than the BIDding rate, based on legislation applicable at the closing date of the

8.4 BID, the IDT shall be entitled to cancel the contract.

9. BREACH

9.1 In the event that the contractor: -

9.1.1 commits an act of insolvency; or

9.1.2 is placed under a provisional or final winding-up or judicial management order; or

9.1.3 is placed under or applied for business rescue; or

9.1.4 makes an assignment of more than 25% of either its right and/or its obligation for the benefit of the third arty without the written consent of the employer; or

9.1.5 the Contractor is registered or fails to renew his registration with the CIDB or changes directorship during the course of the project, resulting in the contravention of BBBEE statutory requirement; or

9.1.6 fails to satisfy or take steps to have set aside any judgment taken against it within 14 (Fourteen) business days after such judgment has come to its notice,

then the other Employer will be entitled to terminate the Agreement on written notice.

Signed at …… on this the …… day of ……...**202……B.**

AS WITNESSES:

A. _____ _____

For and on behalf of the **Employer: (…….)**, in his/her capacity as the ----------

B. _____ _____

For and on behalf of the **Employer: (……)**,in his/her capacity as the ----------.

Signed at …… on this the …… day of ……**202…**

AS WITNESSES:

C. _____

f

D. _____ _____

For and on behalf of the **Contractor: ……**in his/her capacity as ……, who hereby confirm that he/she is duly authorized.