



**PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH
INFRASTRUCTURE AT MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED & MARIGAT INTEGRATED DAY AND
BOARDING PRIMARY SCHOOL IN BARINGO COUNTY**

TENDER NO. CFK/BBF/MAR/BAR/2026

Issued By:
The Procurement Committee,
ChildFund Kenya,
P.O. Box 14038-00800,
Nairobi.

To be Returned on or before Monday 17th of August 2026, 10:00AM

AUGUST 2026

DEFINITIONS

The following terms and expressions used in the contract document shall have the following meanings:

The Employer:	ChildFund Kenya
Represented by:	The Country Director, ChildFund Kenya, P.O. Box 114038-00800, NAIROBI.
Project Manager:	WASH & Construction Specialist ChildFund Kenya, P.O. Box 114038-00800, NAIROBI
Contractor:	The firm appointed to carry out the constructions
Site:	Marigat Special School for Visually Impaired & Marigat Integrated Day and Boarding Primary School in Baringo county

SECTION I

INVITATION FOR TENDERS

Tender reference No. CFK/BBF/MAR/BAR/2026

Tender Name. PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED & MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL IN BARINGO COUNTY.

- 1.1 **ChildFund**, invites tenders for the PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED & MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL IN BARINGO COUNT.
- 1.2 Prices quoted should be **NET INCLUSIVE OF ALL TAXES**, must be in Kenya shillings and shall remain valid for hundred and twenty (120) days from the closing date of tender.
- 1.5 Completed tender documents are to be submitted in soft to KenyaProcurement@ChildFund.org on or before **Monday 17th of August 2026, 10:00AM**

For *(Accounting Officer/ Procuring Entity)*

FORM OF TENDER

TO: _____[Name of Employer] _____[Date]

_____ [Name of
Contract]

Dear Sir,

1. In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs. _____[Amount in figures]Kenya Shillings _____[Amount in words]

2. We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Project Manager's notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix to Conditions of Contract.

3. We agree to abide by this tender until _____[Insert date], and it shall remain binding upon us and may be accepted at any time before that date.

4. Unless and until a formal Agreement is prepared and executed this tender together with your written acceptance thereof, shall constitute a binding Contract between us.

5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this _____ day of _____ 20_____

Signature _____ in the capacity of _____

duly authorized to sign tenders for and on behalf of
_____ [Name of Employer]
of _____ [Address of Employer]

Witness; Name _____

Address _____

Signature _____

Date _____

TENDER QUESTIONNAIRE

Please fill in block letters.

1. Full names of tenderer

.....

2. Full address of tenderer to which tender correspondence is to be sent
(unless an agent has been appointed below)

.....

3. Telephone number (s) of tenderer

.....

4. Telex address of tenderer

.....

5. Name of tenderer's representative to be contacted on matters of the tender
during the tender period

.....

6. Details of tenderer's nominated agent (if any) to receive tender notices.
This is essential if the tenderer does not have his registered address in
Kenya (name, address, telephone, telex)

.....

.....

Signature of Tenderer

Make copy and deliver to: _____ (*Name of Employer*)

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a), 2 (b) or 2 (c) and 2 (d) whichever applies to your type of business.

You are advised that it is a serious offence to give false information on this Form.

Part 1 – General

Business Name

Location of business premises; Country/Town.....

Plot No..... Street/Road

Postal Address..... Tel No.....

Nature of Business.....

Current Trade Licence No..... Expiring date.....

Maximum value of business which you can handle at any time: K.
pound.....

Name of your bankers.....

Branch.....

Part 2 (a) – Sole Proprietor

Your name in full..... Age.....

Nationality..... Country of Origin.....

*Citizenship details

Part 2 (b) – Partnership

Give details of partners as follows:

	<i>Name in full</i>	<i>Nationality</i>	<i>Citizenship Details</i>	<i>Shares</i>
1.				
2.				
3.				

Part 2(c) – Registered Company:

Private or public.....

State the nominal and issued capital of the Company-

Nominal Kshs.....

Issued Kshs.....

Give details of all directors as follows:

Name in full. Nationality. Citizenship Details*. Shares.

1.
.....

2.
.....

3.
.....

4.
.....

Part 2(d) – Interest in the Firm:

Is there any person / persons in(Name of Employer) who
has interest in this firm? Yes/No.....(Delete as necessary)

I certify that the information given above is correct.

.....
(Title) (Signature) (Date)

- Attach proof of citizenship

TERMS OF REFERENCE (ToR)

PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED & MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL IN BARINGO COUNTY

1. Background

ChildFund Kenya is a child-focused international non-governmental organization committed to improving the lives of children and young people through sustainable interventions in education, health, livelihoods, humanitarian response, and Water, Sanitation and Hygiene (WASH).

ChildFund Kenya is implementing the **Building Brighter Futures: Enhancing Education and WASH Infrastructure in Selected Schools in Baringo County Project**. The project seeks to improve learning environments for vulnerable children through the rehabilitation and construction of education and WASH infrastructure while strengthening digital learning opportunities through the establishment of ICT Centres.

As part of project implementation, ChildFund Kenya intends to engage qualified and experienced building contractors to undertake renovation and construction works at the following schools:

- **Marigat Special School for Visually Impaired**
- **Marigat Integrated Day and Boarding Primary School in Baringo county**

2. Objective of the Assignment

The objective of this assignment is to engage competent contractors to execute high-quality construction and renovation works in accordance with the approved architectural and engineering designs, Bills of Quantities (BoQs), technical specifications, and contract conditions within the stipulated project timeline.

3. Scope of Works

The contractor shall undertake all works described in the attached Bills of Quantities and technical drawings.

4. Deliverables

The successful contractor shall deliver:

- Completed works in accordance with approved drawings and specifications.
- Quality workmanship meeting Kenyan construction standards.
- Defects rectified during the defects notification period.
- Operation and maintenance manuals for installed equipment (where applicable).

5. Contract Duration

The expected contract duration is **90 calendar days** from the date of site possession.

The contractor shall submit a detailed work programme indicating the sequencing of activities and expected completion dates.

6. Contractor Responsibilities

The contractor shall:

- Mobilize adequate personnel, plant and equipment.
- Execute works in accordance with the contract documents.
- Maintain quality assurance throughout implementation.
- Ensure continuous site supervision by qualified technical personnel.
- Provide all labour, materials, tools and equipment unless otherwise specified.
- Protect existing school infrastructure.
- Maintain a clean and safe working environment.
- Coordinate activities with the school administration.
- Submit bi-weekly progress reports.
- Attend site meetings convened by ChildFund Kenya.

7. Health, Safety and Environmental Requirements

The contractor shall comply with all applicable Occupational Safety and Health (OSH) legislation and shall:

- Provide appropriate Personal Protective Equipment (PPE) to all workers.
- Maintain safe working conditions.
- Secure the construction site to protect learners and school staff.
- Implement measures to minimize dust, noise and environmental impacts.
- Properly dispose of construction waste.
- Maintain adequate first aid facilities on site.

8. Safeguarding Requirements

As construction activities will take place within school environments, the contractor shall comply with ChildFund Kenya's Safeguarding Policy and Code of Conduct.

Specifically, the contractor shall:

- Ensure all workers sign ChildFund's Code of Conduct before commencing work.
- Prohibit child labour.
- Prevent Sexual Exploitation, Abuse and Harassment (PSEAH).
- Ensure respectful engagement with children, teachers and community members.
- Report any safeguarding concerns immediately to ChildFund Kenya.

Failure to comply with safeguarding requirements may result in immediate termination of the contract.

9. Quality Standards

All works shall comply with:

- The approved drawings.
- Bills of Quantities.
- Ministry of Education infrastructure guidelines.
- National Construction Authority (NCA) standards.
- Kenya Building Code.
- Relevant Kenya Bureau of Standards (KEBS) specifications.
- Good engineering practice.

ChildFund Kenya reserves the right to reject any work or materials that do not meet the required standards.

10. Supervision and Contract Management

The works shall be supervised by ChildFund Kenya's Construction and WASH Team.

The contractor shall cooperate fully with:

- ChildFund Kenya technical staff.
- Project consultants.
- Clerk of Works (where appointed).
- School management.

11. Defects Notification Period

The contractor shall provide a **six (6) months Defects Notification Period** commencing from the date of Practical Completion.

Any defects arising during this period shall be rectified at the contractor's own cost within the period specified by ChildFund Kenya.

12. Payment Terms

Payments shall be made based on certified work completed, in accordance with the contract payment schedule.

No advance payment shall be made unless expressly provided for in the Contract Agreement.

Applicable statutory deductions shall be made in accordance with Kenyan law.

13. Confidentiality

The contractor shall treat all project information, drawings, specifications and documents received from ChildFund Kenya as confidential and shall not disclose them to third parties without prior written approval.

14. ChildFund Kenya's Rights

ChildFund Kenya reserves the right to:

- Amend the scope of works where necessary.
- Conduct inspections at any stage of implementation.

- Reject substandard workmanship.
- Suspend or terminate the contract in accordance with the contract conditions.
- Award contracts in whole or in part.

INSTRUCTIONS TO TENDERERS

EVALUATION CRITERIA

Preliminary Evaluation (Knock Out Stage-Missing out a single requirement is outright disqualification).

- a) Valid Certificate of Registration /Incorporation
- b) Valid NCA 4 and above Certificate in building works
- c) Valid NCA practicing License
- d) Valid Single Business Permit
- e) Valid VAT registration Certificate
- f) Valid Tax Compliance Certificate
- g) Company profile

Technical Evaluation – Out of 80, Passmark 50/80:

- a) Cv of Key Personnel relevant to the tender (Attach evidence) (20mks)
 - i. Holder of degree or diploma in relevant Building/engineering field 5yrs and Above (10),0-2yrs(5)
 - ii. At least 2No. Certificate holder of key personnel in relevant engineering field (5mks)
 - iii. 2No. Trade Test/Artisan – 5yrs and Above- (5),0-2yrs (2)
- b) Proof of Ownership of Machinery & Equipment (20mks)
 - i. Transport ,Atleast 2 no.(10mks)
 - ii. Construction (Atleast 3NO.(10mks)
- c) Key experience
 - i. Evidence of performing similar works in the last in the last five years for at least (5) reputable clients (copies of contract agreement or works completion certificates with their values must be attached. Each Completion certificate is 6marks. (30mks)
- d) Financial statements (6 mks)
 - i. Audited accounts for the last three years (2020-2022) (3 marks)
 - ii. Certified bank statements for the last 6 months (3 marks)

- e) Contractors proposed method statement and works program (4mks)

Financial Evaluation - Out of 20

Financial evaluation shall be based on the following formulae:

The maximum score under this stage of evaluation is 20 points.

The below criteria will be used for financial evaluation.

Financial Score = 20 (LQA/BQA)

KEY:

LQA= Lowest Quoted Amount

BQA= Bidder Quoted Amount

Award Criteria

The bidder with the highest Combined score for **technical and financial evaluation** shall be awarded the tender.

BILL OF QUANTITIES

NOTES ON BILLS OF QUANTITIES

- ☐ The Bills of Quantities form part of the contract documents and are to be read in conjunction with the contract drawings and general specifications of materials and works.
- ☐ The prices quoted shall be deemed to include for all obligations under the contract including but not limited to supply of materials, labour, delivery to site, and storage on site, installation, testing, commissioning and all taxes (including **16% VAT**).
- ☐ All prices omitted from any item, section or part of the Bills of Quantities shall be deemed to have been included to another item, section or part.
- ☐ The brief description of the items given in the Bills of Quantities are for the purpose of establishing a standard to which the Contractor shall adhere to. Otherwise alternative brands of **equal** and **approved** quality will be accepted.
- ☐ Should the Contractor install any material not specified here-in before receiving approval from the Services Engineer, the Contractor shall remove the material in question and, at his own cost, install the proper material.
 - ☐ The grand total of prices in the price summary page must be carried forward to the **Form of Tender**

**CONSTRUCTION OF 13NO. CLASSROOMS
AT MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED & MARIGAT
INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>PROPOSED CLASSROOM</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURE</u> <u>(ALL PROVISIONAL)</u> Site Preparation				
A	Excavate oversite average 150mm deep to remove top vegetable soil and spread on site as directed.	sm	98		
B	Excavate trenches for wall foundation commencing from reduced level but not exceeding 1.5m deep.	cm	27		
C	Extra over all excavations for excavating in rock	cm	5		
	Planking and strutting				
D	Allow for all necessary earthwork support to sides of foundation trenches	Item			
	Keeping excavations free of water				
E	Allow for all keeping excavations free of water and mud by pumping, bailing or other approved means.	Item			
	Fillings /Disposal				
F	Return, fill and ram selected imported murram material around foundation.	cm	18		
G	Load, wheel and deposite surplus excavated material where directed by architect on site not exceeding 50metres away.	cm	9		
	Hardcore fillings				
H	300mm thick under floors compacted in 150mm layers.	cm	25		
J	50mm thick quarry dust blinding to surfaces of hardcore	sm	82		
	Anti - termite treatment				
K	Chemical anti- termite treatment executed complete by an approved specialist under a ten (10) year guarantee to the surfaces of blinded hardcore.	sm	82		
	Damp proof membrane				
L	500 gauge polythene or other equal and approved damp proof membrane laid under surface bed with 300mm side and end laps (measured net-allow for laps).	sm	98		
	Insitu Plain Concrete mix 1:3:6 in:				
M	50mm thick concrete blinding under strip foundations	sm	26		
	Insitu vibrated reinforced concrete mix 1:2:4 in				
N	200mm thick strip foundations	cm	6		
O	150mm thick floor beds	sm	92		
Carried to Collection					

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	REINFORCEMENT				
A	Mesh fabric reinforcement to BS 4483 and setting in concrete with 300mm side and end laps(measured net allow for laps) Fabric mesh ref: A142 weighing 0.54Kg per square metre in floor bed and ramps.	sm	92		
B	High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:- 8mm longitudinal bars in strip foundation	Kg	50		
C	10mm cross(main) bars in strip foundation	kg	77.5		
D	Sawn Formwork to: Edges of ground floor slab over 75mm but not exceeding 150mm high. Sub-wall Walling in natural coursed stone obtained from an approved quarry,jointed and bedded in cement sand mortar (1:3)	lm	29		
E	200mm walls	sm	40		
F	Three ply bituminous felt damp proof courses bedded in cement sand mortar (1:3) measured seperately. 200mm wide horizontal layer.	lm	30		
G	Plinths 12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to:- Concrete or masonry wall plinths	sm	36		
H	Prepare and apply two coats bituminous paint on render to:- Rendered concrete or stone surfaces	sm	36		
	Carried to collection below				
	<u>Collection</u>				
	Brought forward from page MVI&MIPS/CLSS/01				
	Brought down from page MVI&MIPS/CLSS/02 (Above)				
TOTAL FOR ELEMENT NO.1 SUBSTRUCTURE WORKS CARRIED TO SUMMARY					

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>ELEMENT NO. 2</u> <u>VIBRATED REINFORCED SUPERSTRUCTURE</u> Insitu vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-				
A	Beams	cm	1.8		
	High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-				
B	12mm bars in beams	Kg	98		
	Mild steel reinforcement to BS 4449				
C	8mm diameter bars in beams	Kg	56		
	Formwork Sawn softwood formwork to in-situ concrete as described:-				
D	Vertical sides and soffites of beams	sm	11		
	STEEL COLUMNS Mild steel including grinding all welds smooth and painting with red oxide primer before delivery to site				
E	75mm Diameter Circular Hollow Section (C.H.S)mild steel column 3000mm long; one end built into concrete base and the other welded onto mild steel U-shaped holder batts(m.s)	No	4		
F	Extra Over above described for provision and welding of 100 x 75 mm U-shaped holder batt, twice drilled for 12 mm diameter bolt, to top end of CHS column to receive wall plate (m.s)	No	4		
<u>TOTAL ELEMENT NO.2 VIBRATED REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO SUMMARY</u>					

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
A	<u>ELEMENT No.3</u> <u>WALLING SUPERSTRUCTURE</u> Machine cut walling 200mm thick machine cut coral block walling bedded and jointed in cement and sand mortar mix 1:3 with 20mm wide hoop iron reinforcement at every alternate course	sm	76		
	<u>TOTAL ELEMENT NO.3 WALLING SUPERSTRUCTURE</u> <u>CARRIED TO SUMMARY</u>				

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>ELEMENT NO. 4</u> ROOFING				
	<u>Mild Steel Trusses including hoisting and fixing in position 3200mm above ground floor; Diagonal bracing in the roof plane using tension rods (Ø12 mm). Cross-bracing between trusses for lateral stability.</u>				
	<u>Note: The rate should include painting the steel members with one primer coat and two finishing coats of gloss oil paint</u>				
A	SHS 50x50x2mm mild steel ; External members Top & Bottom Chord(Rafters and Joists)	lm	78		
B	SHS 40x40x2 mm; Internal members (Struts ,Ties & Purlins)	lm	141		
C	30 x 30 x 2mm Thick SHS diagonal bracing in roof plane and/or vertical plane between trusses	lm	42		
D	12 mm diameter x175mm long J-bolt anchored into concrete	No	28		
E	100 x 50 mm wall plate to verandah secured with 100mm diameter steel CHS columns and including 12 mm diameter mild steel bolt 150 mm long.	lm	28		
	<u>ROOF COVERING</u>				
	28 Gauge Prepainted IT5 box profile resincot roofing sheet fixed with and including nails, cups and washers on purlins (as MRM Ltd)				
F	28gauge box profile prepainted blue roof covering nailed to Timber Purlins	sm	120		
G	Matching ridge caps	lm	11		
	Eaves filling				
H	200mm thick machine cut coral block eaves and gable filling	lm	28		
	<u>WROT CYPRESS</u>				
J	225x25mm fascia and barge board	lm	33		
	Painting				
K	Timber surfacs over 200 mm but not exceeding 300mm girth	lm	33		
	RAIN WATER GOODS				
L	150mm Diameter uPVC gutter fixed to fascia board (m.s.) with heavy duty uPVC brackets at 1000 mm centers all to approval	lm	9		
M	Extra over gutter for stopped ends.	No	2		
N	Ditto for rainwater outlets with nozzle for 100mm rainwater down pipe outlet.	No	2		
O	100mm uPVC diameter rainwater down pipe connected to water tank including all necessary accessories.	lm	3		
	TOTAL ELEMENT NO.4 ROOFING WORKS CARRIED TO SUMMARY				

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>ELEMENT No. 5</u> <u>DOORS</u>				
	Mild steel panel doors; 75x50x3mm thick frame plugged to concrete or masonry block work with 100mm long fish tail 25x25x2mm thick angle section, angles cut, mitred and welded; 16 gauge plain sheet filling, one coat manufacturer's primer complete with all necessary iron mongery; all welds ground to smooth finish				
A	Double un-equal leaf door size 1200mm wide x 2700mm high overal (D1)	No	1		
B	Glazing. 5mm thick clear sheet glass and glazing fixed with metal putty and silicone to metal doors silicon and putty	Sm	1		
	Painting and decoration				
	Prepare and apply three coats first quality super gloss oil paint to:-				
C	Surfaces of steel doors both sides measured	Sm	6		
TOTAL FOR ELEMENT NO.5 DOORS CARRIED TO SUMMARY					

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>ELEMENT NO.6</u> <u>WINDOWS</u>				
	Supply, assemble and fix the following purpose-made mild steel casement windows; standard metal section from approved manufacturer complete with frames, transomes, mullions and with and including permanent ventilators comprising "T" bar, gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of window, coupling mullions, approved ironmongery and one coat manufacturer's primer; all welding ground to smooth finish.				
A	Steel casement window size 1500x1500mm with 36 No. equal panels with 2No. Side hangs and inbuilt permanent ventilation	No	3		
B	Window, overall size 1500 x 1200mm high with 2No. openable and 2No fixed light	No	2		
	Glazing.				
C	5mm thick clear sheet glass and glazing fixed with metal putty and silicone to steel windows with silicon and putty	Sm	10		
	Window cill Precast or in situ concrete (1:2:4) complete with reinforcement, formwork, hoisting and bedding in cement sand mortar (1:3)				
D	Window cill; 250x50mm thick, weathered and throated; fairfaced	Lm	7		
	Painting Prepare and apply three coats first quality super gloss oil paint to:-				
E	Surfaces of steel windows both sides measured	Sm	19		
<u>TOTAL FOR ELEMENT NO 6 WINDOWS CARRIED TO SUMMARY.</u>					

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	ELEMENT NO. 7				
	FINISHES				
	FLOOR FINISHES				
	Floors and Skirting.Note: Tilework involves adhesive,grout and spacers				
A	40mm thick Cement Sand (1:3) and floor screed	sm	84		
B	330 X 330 X 8mm thick ceramic floor tiles	sm	84		
C	Ditto 150mm skirting	lm	32		
	EXTERNAL WALL FINISHES				
	External walls				
D	Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3)	sm	44		
E	12mm thick cement,sand render,with wood float finish to masonry walling and concrete surfaces	sm	29		
	Painting and decoration				
	Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-				
F	Rendered masonry wall and concrete surfaces	sm	29		
	Touch up primer, prepare and apply one undercoat and Two finishing coats first quality black gloss oil pain to metalwork				
G	General surfaces of mild steel 75-150mmgirth(Circular hollow section column sand holder batts)	lm	16		
	INTERNAL WALL FINISHES				
	Internal walls				
H	12mm thick cement,sand and lime plaster,with steel trowelled finish.	sm	95		
	Painting and decoration				
J	Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto.	sm	95		
K	Prepare and apply one finishing coat first quality gloss cream paint to wall skirting.	sm	40		
	FITTINGS				
	Chalk board				
L	40mm thick Cement sand mix 1:3 wiremesh reinforced Chalkboard size 1200mm high x 6000mm long with chalk rail placed at a height of 1000mm above floor slab finished with 3 coats of black paint	ITEM	2		
N	Allow for a provisional sum of fourty thousand shillings only for electrical installations	ITEM	1		
TOTAL ELEMENT No. 7 : FINISHES CARRIED TO SUMMARY					

**PROPOSED CONSTRUCTION OF 13NO. CLASSROOMS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY
IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	PAGE No	AMOUNT
	1NO CLASSROOM BLOCK SUMMARY		
1	SUBSTRUCTURE WORKS	MVI&MIPS/CLSS/02	
2	VIBRATED REINFORCED CONCRETE SUPERSTRUCTURE	MVI&MIPS/CLSS/03	
3	WALLING SUPERSTRUCTURE	MVI&MIPS/CLSS/04	
4	ROOFING	MVI&MIPS/CLSS/05	
5	DOORS	MVI&MIPS/CLSS/06	
6	WINDOWS	MVI&MIPS/CLSS/07	
7	FINISHES	MVI&MIPS/CLSS/08	
	TOTAL FOR CONSTRUCTION OF 1NO. CLASSROOM		
	<i>Multiply by 13</i>		
	TOTAL FOR CONSTRUCTION OF 13 NO. CLASSROOMS		

MVI&MIPS/CLSS/TOTAL

**RENOVATION AND EQUIPPING OF AN ICT
CENTER AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED & MARIGAT
INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

RENOVATION AND EQUIPPING OF AN ICT CENTER AT MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL

BILLS OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
1	DEMOLITIONS, ALTERATIONS AND PREPARATIONS				
A	Carefully hack the existing floor and dispose of debris on site as directed by the project manager	Sm	48		
B	Clean off the soffits of roof including eaves and make good dilapidated timber. Remove and replace all severely damaged timber roof members with new treated timber of similar size and profile, including proper jointing and fixing. Clean, treat, and repair all termite-damaged but salvageable timber elements	Ls	1		
C	Carefully remove existing door leaf and frame, including cutting or hacking surrounding masonry as necessary, removing all fittings and debris, making good all disturbed surfaces, and preparing the opening to receive a new door.	No	1		
D	Carefully rake out cracks in walls and floors to the required depth and width using hand tools, in preparation for repair works. Repair all vertical, horizontal, and floor cracks by anchoring with D8 mild steel bars, including cutting chase, placing and anchoring bars with approved non-shrink grout or epoxy resin, and making good all disturbed surfaces.	Lm	21		
E	Scrape off all loose, flaking or peeling paint, and surface dust from internal and external walls using stiff wire brushes and scrapers, to expose a clean, sound surface suitable for new painting. (m/s)	Sm	72		
F	Cart away demolition debris to approved dumping site	Item	1		
SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE					
MIPS/ICT/01					

**RENOVATION AND EQUIPPING OF AN ICT CENTER AT MARIGAT INTEGRATED
DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
2	PLASTERING AND WALL FINISHES				
A	Internal cement sand plaster 15mm thick to hacked walls	Sm	72		
B	Apply primer coat to walls	Sm	72		
C	Apply three coats emulsion paint to internal walls	Sm	72		
3	FLOOR FINISHES				
A	Cement: Sand (1:4) Screed: 40 mm thick cement: sand (1:4) screed; to receive tiles	Sm	48		
B	Supply and lay 300 X 300 X 8mm thick Ceramic floor tiles of approved color and shade with grouting ; matching colored cement.	Sm	48		
C	Skirting: Supply and fix matching skirting tiles (100 mm high)	Lm	26		
4	CEILING WORKS				
A	Timber brandering 50x50mm treated softwood fixed to roof structure	Sm	48		
B	Supply and install gypsum ceiling boards including jointing and finishing	Sm	48		
C	Cornice moulding to perimeter	Lm	26		
D	Prepare and apply three coats ceiling paint	Sm	48		
5	WINDOWS				
A	Supply and install large aluminum framed windows with clear glass to new openings	Sm	8		
B	Supply and install burlar proofing bars(grille) for security	Sm	8		
	Doors Mild steel panel doors; 75x50x3mm thick frame plugged to concrete or masonry block work with 100mm long fish tail 25x25x2mm thick angle section, angles cut, mitred and welded; 16 gauge plain sheet filling, one coat manufacturer's primer complete with all necessary iron mongery; all welds ground to smooth finish Single leaf steel door size 1200mm wide x 2100mm high overal	No	1		
	SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE				
MIPS/ICT/02					

**RENOVATION AND EQUIPPING OF AN ICT CENTER AT MARIGAT INTEGRATED
DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
3	COMPUTER EQUIPMENT				
A	Desktop computers (Core i7 or equivalent, 16GB RAM, 512GB SSD, 8th Generation, 3.7GHz, 6 Cores, 12 Threads, Full Set with 24-Inch Monitor, keyboard, mouse) Such as DELL or HP	No	10		
B	HP ProBook 440 G11 Teacher/Administrator computer/ laptop	No	1		
	NETWORKING INFRASTRUCTURE				
C	Supply and installation of Airtel 5G router for wireless connection with necessary accessories	Item	1		
	POWER AND BACKUP				
D	UPS units (650–850VA) for computer stations	No	10		
E	Electrical wiring and socket outlets for computer lab	Item	1		
F	Power extension sockets and surge protectors	No	10		
	ICT LAB FURNITURE				
G	Customized Computer desks (double workstation desks)	No	5		
H	Ergonomic student computer lab/library chairs	No	10		
J	1.2m MDF office desk feature a compact 120cm x 60cm layout, a scratch-resistant laminated finish, and integrated lockable storage.	No	1		
K	Instructor High Back Office Chair	No	1		
L	4 drawer metallic storage cabinet with lock bar	No	1		
	SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE				
MIPS/ICT/03					

RENOVATION AND EQUIPPING OF AN ICT CENTER AT MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	SUMMARY PAGE				
	ICT CENTER RENOVATION			Page No	
1	DEMOLITIONS, ALTERATIONS AND PREPARATIONS			MIPS/ICT/01	
2	PLASTERING AND FINISHES			MIPS/ICT/02	
3	FURNITURE AND FITTINGS			MIPS/ICT/03	
	TOTAL FOR 1NO. ICT CENTER CARRIED TO GRAND SUMMARY				

**CONSTRUCTION OF 29NO. PIT LATRINES
AT MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED & MARIGAT
INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

PROPOSED CONSTRUCTION OF 29NO. PIT LATRINES AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>BILLS OF QUANTITIES FOR PROPOSED 1-DOOR PIT LATRINE BLOCK</u> <u>ELEMENT NO. 1</u> <u>SUBSTRUCTURE</u> <u>(ALL PROVISIONAL)</u> This element consists of all works upto and including the floor surface bed.				
	<u>Site clearance</u>				
A.	Clear site of shrubs,grass,small trees girth not exceeding 600mm and grub roots and remove from site as directed.	sm	6		
	<u>Excavations and earth works</u>				
B	Excavate vegetable soil,shrubs and undergrowth grub there roots and burn the uprising(average 200mm deep)	sm	6		
C	Excavate for strip foundation starting from strip level depth not exceeding 1.5m deep.	cm	3		
D	Excavation to pit latrine 1500mmx2500mm wide depth not exceeding 1.5m deep.	cm	3		
E	Ditto but from 1.5m but not exceeding 3.0m deep.	cm	3		
F	Ditto but from 3.0m but not exceeding 4.5m deep.	cm	3		
G	Ditto but from 4.5m but not exceeding 6.0m deep.	cm	3		
H	Return fill and rum selected excavated material.	cm	8		
I	Cart away surplus excavated material on site not more than 20m away	cm	11		
J	<u>Planking and strutting</u> Allow for plunking and strutting	item			
K	<u>Disposal of water</u> Allow for keeping excavations free from water.	item			
L	<u>Hardcore fillings</u> Approved hardcore fill 300mm thick ,well watered and compacted to receive murrum blinding(m.s)	Cm	1		
M	<u>Quarry dust/murrum blinding</u> Approved 50mm thick murrum blinding.	Sm	2		
N	<u>Anti - termite treatment</u> Gladiator T.C.L or any other equal and approved chemical anti-termite treatment to sub soil or filling	sm	3.5		
O	<u>Insitu Plain Concrete mix 1:3:6 in:</u> 50mm thick concrete blinding under strip foundations	sm	3.5		
P	<u>Insitu vibrated reinforced concrete mix 1:2:4 in</u> 200mm thick strip foundations	cm	0.25		
Q	200mm x 200mm thick in floor beams	cm	0.25		
R	150mm thick in suspended floor beds	sm	3.5		
<u>Carried to Collection</u>					

PROPOSED CONSTRUCTION OF 29NO. PIT LATRINES AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	substructure works continued:- High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-				
A	8mm longitudinal bars in strip foundation	Kg	5		
B	10mm cross(main) bars ditto	Kg	9		
C	12mm bars as main bars in suspended floors and beams	Kg	21		
D	10mm bars as main bars in suspended floors	Kg	11		
	Mild steel reinforcement to BS 4449				
E	8mm diameter bars as links to floor beams	Kg	21		
	Mesh fabric reinforcement to BS 4483:Square mesh reference A142:weighing 2.22kilogrammes per square metre				
F	In bebs 200mm laps	sm	1		
	Formwork to:				
G	Vertical sides of strip foundations	sm	1.5		
H	Soffits and sides of floor beams and slabs exceeding 3.0m high	sm	3.5		
I	Vertical edges of beds over 75mm but not exceeding 150mm wide.	lm	5		
	Hand cut natural stones beded in cement sand mortar (1:3) including hoop iron in every alternate course				
J	200mm walls	sm	6		
	Bituminous felt damp proof courses bedded in cement sand mortar (1:4) :300mm laps:-				
K	200mm wide horizontal	lm	5.5		
	12mm cement sand (1:4) render:Steel trowelled on concrete or stonework to				
L	Plinths	sm	4		
	Prepare and apply two coats bituminous paint on render to:-				
M	Plinth	sm	4		
	<u>Carried to Collection below</u>				
	<u>Collection</u>				
	<u>Brought forward from page MVI&MIPS/PL/01</u>				
	<u>Brought down from page MVI&MIPS/PL/02 (Above)</u>				
<u>TOTAL ELEMENT NO.1 SUB-STRUCTURES CARRIED TO SUMMARY</u>					

**PROPOSED CONSTRUCTION OF 29NO. PIT LATRINES AT MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>ELEMENT NO. 2</u> <u>VIBRATED REINFORCED SUPERSTRUCTURE</u> Insitu vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-				
A	Beams	cm	0.5		
	High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-				
B	10mm bars in beams	Kg	11.5		
	Mild steel reinforcement to BS 4449				
C	8mm diameter bars in beams	Kg	9		
	Formwork Sawn softwood formwork to in-situ concrete as described:-				
D	Vertical sides and soffites of beams	sm	9		
<u>TOTAL ELEMENT NO.2 VIBRATED REINFORCED CONCRETE SUPERSTRUCTURES CARRIED TO SUMMARY</u>					

PROPOSED CONSTRUCTION OF 29NO. PIT LATRINES AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>ELEMENT No.3</u> <u>WALLING SUPERSTRUCTURE</u> Machine cut walling 150mm thick machine cut coral block walling bedded and jointed in cement and sand mortar mix 1:3 with 20mm wide hoop iron reinforcement at every alternate course				
A		sm	9.5		
B	150mm thick precast concrete permanent vent block walling	sm	0.5		
<u>TOTAL ELEMENT NO.3 WALLING SUPERSTRUCTURE</u> <u>CARRIED TO SUMMARY</u>					

MVI&MIPS/PL/04

**PROPOSED CONSTRUCTION OF 29NO. PIT LATRINES AT MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>ELEMENT NO. 4</u>				
	ROOFING <u>The following in second grade celcured cypress and all the necessary for assembling and hoisting to position as per roofing details.</u>				
A	75x50mm rafters.	lm	3		
B	50x50mm Purlins.	lm	7		
	<u>ROOF COVERING</u>				
C	28gauge Pre-painted blue box profile roof covering nailed to Timber Purlins	sm	5.5		
	Eaves filling				
D	200mm thick machine cut coral block eaves and gable filling	lm	4		
	<u>WROT CYPRESS</u>				
E	200x25mm fascia and bardge board	lm	4		
	Knot, prime,Stop and Prepare and apply three coats white brilliant gloss oil paint on-:				
F	Timber surfacs over 200 mm but not exceeding 300mm girth	lm	4		
TOTAL ELEMENT NO.4 ROOFING WORKS CARRIED TO SUMMARY					

**PROPOSED CONSTRUCTION OF 29NO. PIT LATRINES AT MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	ELEMENT No. 5				
	DOORS				
	The following in wrot graded cedar				
A	100mm x 50mm frame with one labour and fixed to block wall with fish tailed metal (m.s)	lm	9		
	Shutter				
B	45mm thick (finished) hardwood framed, ledged,braced and battened door comprising of 95 x 20mm (finished) braces,ledges and tongued and grooved matchboarding, V-jointed on one side and let flush on the other	No	1		
	Ironmongry				
	Supply and fix the following ironmongery with screws to match.				
C	100mm brass butt hinges with matching screws.	No	3		
D	25mm x 3mm fish tailed metal cramps one end screwed to 50mm timber frame while the other end fixed to block wall	No	3		
E	300mm long steel aldrop(Pad bolt)	No	1		
F	150mm Brass tower bolt	No	1		
	PAINT WORK				
	Prepare and apply 3 coats of first grade clear wood varnish				
G	Surfaccess not exceeding 300mm	lm	7		
H	General surfaces	sm	7		
TOTAL FOR ELEMENT NO.5 DOORS CARRIED TO SUMMARY					

**PROPOSED CONSTRUCTION OF 29NO. PIT LATRINES AT MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	ELEMENT NO. 6				
	FINISHES				
	Floor finishes				
A	40mm thick Cement Sand (1:4) and screed	sm	3.5		
	EXTERNAL WALL FINISHES				
	External walls				
B	Extra over dressed stone walling for neat recessed horizontal key in cement mortar (1:3)	sm	7.5		
C	12mm thick cement,sand render,with wood float finish	sm	2.5		
D	Ditto rendered concrete surfaces	sm	1		
	Painting and decoration				
	Prepare and apply one undercoat and two finishing coats of exterior quality plastic cream emulsion paint on :-				
E	Rendered wall surfaces	sm	1.25		
F	Rendered concrete surfaces	sm	0.5		
	INTERNAL WALL FINISHES				
	Internal walls				
G	12mm thick cement,sand and lime plaster,with steel trowelled finish.	sm	12		
	Painting and decoration				
H	Prepare and apply one undercoat and two finishing coats first quality soft white plastic emulsion paint ditto.	sm	12		
J	Prepare and apply one finishing coat first quality gloss cream paint to wall skirting.	sm	3		
	External works				
K	50mm thick precast concrete (1:2:4) paving slab size 600 x 600mm jointed with (1:3) cement sand mortar on and including 50mm thick bed of sand	Sm	3		
	MISCELLEANOUS				
L	U.P.V.C golden brown vent pipe 100mm diameter	lm	3.5		
M	U.P.V.C ballon guard(vent cap) 100mm diameter	lm	0.5		
TOTAL ELEMENT No. 6: FINISHES CARRIED TO SUMMARY					

**PROPOSED CONSTRUCTION OF 29NO. PIT LATRINES AT MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	PAGE No	AMOUNT
	SUMMARY FOR THE PIT LATRINE		
1	SUBSTRUCTURE WORKS	MVI&MIPS/PL/ 02	
2	VIBRATED REINFORCED CONCRETE SUPER STRUCTURES	MVI&MIPS/PL/ 03	
3	SUPERSTRUCTURE WALLING	MVI&MIPS/PL/ 03	
4	ROOFING	MVI&MIPS/PL/ 05	
5	DOORS	MVI&MIPS/PL/ 06	
7	FINISHES	MVI&MIPS/PL/ 07	
TOTAL FOR CONSTRUCTION OF 1-DOOR PIT LATRINE			
TOTAL FOR CONSTRUCTION OF 29-DOOR PIT LATRINES CARRIED TO MAIN SUMMARY			
MVI&MIPS/PL/TOTAL			

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

**CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED &
MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	<u>PROPOSED NEW BOYS DORMITORY AT MARIGAT SCHOOL FOR THE VISUALLY IMPAIRED</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES (PROVISIONAL)</u>				
	<i>(NOTE: Tenderer to allow for working space in their rates)</i>				
	<u>Site clearance</u>				
A	Clear site of works of grass, shrubs, bush and small trees, grub up roots, fill with selected soil and burn debris	SM	246		
B	Cut down trees girth exceeding 1200mm-1500mm,split into fire wood or as directed by project manager.	NO	5		
C	Uprooting tree stamps girth 1200mm-1500mm	NO	5		
D	Excavate oversite average 150mm deep to remove vegetable top soil, wheel and deposit as directed	SM	246		
	<u>Bulk excavation</u> <u>Excavations including maintaining and supporting sides and keeping free from water, mud and fallen material, supporting and underpinning adjacent structures as need be, trimming sides and bottom of excavations</u>				
E	Excavate trench for foundation not exceeding 1.50 metres deep, starting from reduced levels, ditto	CM	85		
	<u>Disposal</u>				
F	Return, fill and ram selected imported material around foundations.	CM	45		
G	Load, wheel and deposit surplus excavated material away from site	CM	40		
	<u>Hardcore or other approved filling, as described</u>				
H	300mm layers of well compacted hardcore filling blinded with 50mm thick quarry dust layer to receive surface bed	CM	70		
J	Approved imported filling to make up levels	SM	233		
	<u>Anti - termite to treatment</u>				
K	Chemical anti-termite treatment, executed complete by an approved specialist under a ten-year guarantee, to surfaces of hardcore	SM	246		
	<u>Damp-proof membrane</u>				
L	1,000 gauge polythene or other equal and approved damp-proof membrane, laid over blinded hardcore (measured separately) with 300mm side and end laps (measured nett-allow for laps)	SM	246		
	Carried to Collection				
MVI/N.DRM/01					

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
A	<u>Plain concrete class 15 in:</u> 50mm blinding under strip foundations.	SM	56		
B	<u>Reinforced concrete class (25) as described, in:-</u> Strip footing	CM	12		
C	150mm thick surface bed	SM	246		
D	<u>Reinforcement, as described:-</u> <u>High yield reinforcement bars to B.S 4461</u> 10mm bars	KG	107		
E	8 mm bars	KG	58		
F	<u>Mesh fabric reinforcement to B.S 4483 and setting in concrete with</u> <u>300mm side and end laps (measured nett-allow for laps).</u> Fabric ref. A142 in surface in surface bed	SM	246		
G	<u>Sawn formwork as described to:-</u> Vertical sides of strip footing	SM	38		
H	Edge of ground floor slab, over 75mm but not exceeding 150mm high.	LM	76		
I	<u>Natural hard approved quarry stonewalling bedded and</u> <u>jointed in cement and sand (1:4) mortar, reinforcement with and including</u> <u>25mm wide x 20 gauge hoop iron (measured separately) at every alternate</u> <u>course as</u> 200mm thick walling	SM	139		
	Carried to Collection				
MVI/N.DRM/02					

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	<u>Damp-proof courses, as described, to walls</u>				
A	200mm wide	LM	80		
B	100mm wide	LM	76		
	Carried to Collection				
	<u>COLLECTION</u>				
	From Page MVI/N.DRM/01				
	From Page MVI/N.DRM/02				
	From MVI/N.DRM/02 above				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURES</u>				
	Carried to Main Summary				
MVI/N.DRM/03					

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

[illegible]

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

[illegible]

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	PROPOSED BOYS DORM AT MARIGAT SCHOOL FOR THE VISUALLY IMPAIRED ELEMENT NO. 4				
	<u>ROOF COVERING AND FINISHES (no allowances measured net)</u>				
A	The following Timber roof to details. Comprising of 100mm x 50mm members and 75 x 50mm purlins. to structural engineer specifications and approvals. gauge 28 box profiled roofing sheets. including all rainwater goods. Or equal and approved roofing by structural engineer	SM	279		
	<u>Ceiling finishes</u>				
B	Ceiling boards on 50 x 50mm timber bladding secretly secured with nails, 75mm cornice including painting all to project managers approval	SM	233		
	<u>ELEMENT NO. 4</u>				
	<u>ROOF CONSTRUCTION</u>				
	Carried to Main summary				

MVI/N.DRM/06

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	<u>PROPOSED BOYS DORM AT MARIGAT SCHOOL FOR THE VISUALLY IMPAIRED ELEMENT NO. 5</u>				
	<u>FINISHES</u>				
	<u>External Wall finishes</u>				
	<i>15mm thick Cement and sand (1:4) backings etc</i>				
A	15mm thick troweled smooth to plinths	SM	25		
B	Ditto to external natural stone surfaces and concrete surfaces	SM	205		
	<u>Internal wall finishes</u>				
	<i>12mm (minimum) two coat lime plaster as described to</i>				
C	Concrete or masonry surfaces internally	SM	576		
	<u>Internal Floor Finishes</u>				
	<i>Cement and sand (1:3) screeds, backings, beds etc</i>				
D	32mm bed finished to receive ceramic floor tiles (measured separately)	SM	233		
	<u>Ceramic floor tiling</u>				
E	Provide a prime cost rate of [Kes 1,500.00/sm] for supply of ceramic floor tiles (tenderer to add the cost of collection, delivery, grouting, adhesive, spaces and allother materials and laying to completion) as selected by the Architect: take delivery and fix only proprietary 300 x 300 x 10mm ceramic tiles to floors on prepared bed (m.s) with dheseive; jointed and pointed in matching coloured proprietary approval. grouting: spacers and expansion joint as necessary: all to Architect's approvals	SM	233		
F	Ditto but wall tiles	SM	75		
	Carried to Collection				
MVI/N.DRM/07					

PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	<u>Painting and decorating</u>				
	<u>Prepare and apply three coats first quality matt emulsion paint on:-</u>				
A	Plastered walls internally	SM	576		
B	Ditto externally	SM	205		
C	Plinths but black bituminous paint	SM	25		
	Carried to Collection				
	<u>COLLECTION</u>				
	From Page MVI/N.DRM/07				
	From above				
ELEMENT NO. 5 FINISHES	Carried to Main summary				
MVI/N DRM/08					

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	<u>PROPOSED BOYS DORM AT MARIGAT SCHOOL FOR THE VISUALLY IMPAIRED</u>				
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<i>Supply, assemble and fix the following purpose made 25 x 4mm Z-section heavy duty steel casement windows with and including 25 x 4mm mild steel flats same vertical and horizontal intervals as mullions , 25mm mild steel bulgar proofing incorporating complete with fixing lugs on, hooded mosquito-proofed permanent vent, pin type hinges including all necessary cutting, and ironmongery as Kensmetal or equal and approved (Refer to attached window schedules)</i>				
A	Window overall size 600 x 600mm high	NO	8		
B	Window overall size 1,200 x 1,500mm high	NO	14		
	<u>Glazing</u>				
C	4mm Ordinary clear sheet glass and glazing to metal in panes over 0.1 but but not exceeding 0.50 metres square or as directed by project manager	SM	25		
D	Ditto obscure	SM	3		
	ELEMENT NO. 6 WINDOWS				
	Carried to Main Summary				
MVI/N.DRM/09					

PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	<u>PROPOSED BOYS DORM AT</u> <u>MARIGAT SCHOOL FOR THE VISUALLY IMPAIRED</u> <u>ELEMENT NO. 7</u> <u>DOORS</u> <u>Steel doors to structural engineers details or to be approved by project manager</u>				
A	900mm x 2,400mm complete with all nessesary iron mongery single swing doors.	NO	2		
B	Ditto but 1,800mm wide	NO	3		
C	Ditto but 1,200mm wide	NO	3		
	<u>flush doors</u>				
D	45mm thich solid core fiushdoors complete with frames, quantrants architraves and all nessesary ironmongery	NO	6		
	<u>Painting and decorating</u> <u>Prepare and apply three coats polyurethane clear polish to woodwork</u>				
E	General timber surfaces	SM	30		
	<u>Prepare and apply three coats of gloss paint to:</u>				
F	Metal surfaces	SM	31		
	ELEMENT NO. 7 DOORS				
	Carried to Main Summary				
MVI/N.DRM/10					

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	<u>PROPOSED BOYS DORM AT MARIGAT SCHOOL FOR THE VISUALLY IMPAIRED</u>				
	<u>SECTION No. 2 - SPECIALIST INSTALLATIONS</u> (to be deducted as a whole or valued on site by project manager)				
A	Provide a sum of Kenya Shillings One Hundred Thousand only for Electrical installations	Item			100,000
B	Allow a sum of Kenya shillings Two Hundred and Fifty Thousand only for Mechanical works.	Item			250,000
	<u>SECTION NO. 2 -SPECIALIST INSTALLATIONS</u> <u>TOTAL AMOUNT CARRIED TO THE GRAND SUMMARY</u>		Kes		350,000
MVI/N.DRM/10					

**PROPOSED CONSTRUCTION OF A NEW BOYS DORMITORY AT MARIGAT SPECIAL SCHOOL
FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNITS	QTY	RATE	AMOUNT
	<u>PROPOSED BOYS DORM AT MARIGAT SCHOOL FOR THE VISUALLY IMPAIRED</u>				
	<u>MAIN SUMMARY</u>				
1	Substructures				
2	Reinforced Concrete Frame				
3	Walling				
4	Roof Finishes				
5	Finishes				
6	Windows				
7	Doors				
8	Specialist installation				350,000
	<u>SECTION NO. 4 TOTAL AMOUNT CARRIED TO THE GRAND SUMMARY</u>	Kes			

**RENOVATION OF THE EXISTING BOY'S
DORMITORY SANITATION FACILITIES AT
MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED & MARIGAT
INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

**PROPOSED RENOVATION OF BOYS DORMITORY AT MARIGAT SCHOOL FOR THE VISUALLY
IMPAIRED**

BILLS OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
1	DEMOLITIONS, ALTERATIONS AND PREPARATIONS				
A	Carefully remove existing toilet fittings including pans and cisterns	Item	1		
B	Carefully hack the existing floor and dispose of debris on site as directed by the project manager	Sm	24		
C	Clean off the soffits of roof including eaves and make good dilapidated timber. Remove and replace all severely damaged timber roof members with new treated timber of similar size and profile, including proper jointing and fixing. Clean, treat, and repair all termite-damaged but salvageable timber elements using approved wood	Ls	1		
D	Hack defective wall plaster to receive new plaster	Sm	66		
E	Carefully remove existing door leaf and frame, including cutting or hacking surrounding masonry as necessary, removing all fittings and debris, making good all disturbed surfaces, and preparing the opening to receive a new door.	No	7		
F	Carefully rake out cracks in walls and floors to the required depth and width using hand tools, in preparation for repair works. Repair all vertical, horizontal, and floor cracks by anchoring with D8 mild steel bars, including cutting chase, placing and anchoring bars with approved non-shrink grout or epoxy resin, and making good all disturbed surfaces.	Lm	18		
G	Scrape off all loose, flaking or peeling paint, and surface dust from internal and external walls using stiff wire brushes and scrapers, to expose a clean, sound surface suitable for new painting. (m/s)	Sm	66		
H	Cart away demolition debris to approved dumping site	Item	1		
SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE					
MVI/DRM/REN/01					

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
2	PLASTERING AND WALL FINISHES				
A	Internal cement sand plaster 15mm thick to hacked walls	Sm	66		
B	Apply primer coat to walls	Sm	72		
C	Apply three coats emulsion paint to internal walls	Sm	72		
3	FLOOR FINISHES				
A	New cement sand screed 40mm thick	Sm	18		
B	Supply and install non-slip ceramic floor tiles suitable for wet areas	Sm	18		
C	Supply and fix ceramic wall tiles including adhesive and grout up to a 1.5m height	Sm	66		
4	PLUMBING AND SANITARY INSTALLATIONS				
A	Supply and install ceramic water closet complete with cistern and fittings	Sm	48		
B	Installation of flushing systems including connection to water supply	Item	1		
C	Testing and commissioning of sanitary system	Item	1		
5	DRAINAGE REHABILITATION				
A	Excavate trench for drainage pipe to septic tank	Lm	30		
B	Supply and install 110mm uPVC soil pipe to septic tank	Lm	30		
C	Provide sand bedding to drainage pipes, Backfilling and compaction	Lm	30		
D	Testing and connection to septic tank	Item	1		
	SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE				
MVI/DRM/REN/02					

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
6	ACCESSIBILITY FITTINGS AND ACCESSORIES				
	DOORS				
A	Supply and install stainless steel grab bars(2m long) beside toilet cubicles	No	16		
B	Reading tables (6–8 seater)	No	4		
C	Library reading chairs	No	24		
D	Librarian desk	No	1		
E	Librarian Desk chair	No	1		
7.00	DOORS				
A	Supply and install hardwood flush doors complete with frames	No	6		
B	Provide lever-type door handles suitable for accessible facilities	No	6		
SUB-TOTAL CARRIED FORWARD TO SUMMARY PAGE					
MVI/DRM/REN/03					

**CONSTRUCTION OF A 30-POINT HAND
WASHING STATION AT MARIGAT
SPECIAL SCHOOL FOR VISUALLY
IMPAIRED & MARIGAT INTEGRATED DAY
AND BOARDING PRIMARY SCHOOL**

**PROPOSED CONSTRUCTION OF A 30-POINT HAND WASHING STATION AT MARIGAT
SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
1	All Provisional Excavations				
A	Excavate top vegetable soil average depth 150mm and deposit on site as directed	66	SM		
B	Excavate foundation strip n.e 900mm deep and deposit on site as directed.	21	CM		
C	Backfill foundation with selected excavated materials	12	CM		
	Fillings				
D	Approved hand-packed hardcore filling; deposited and compacted in 150 mm thick layers; 300 mm thick	36	CM		
E	Stone dust blinding to surfaces of hardcore; 50 mm thick	36	SM		
	Surface treatment Chemical anti-termit treatment, with "Termidor 25EC" insecticide to the satisfaction of the Engineer				
F	To surfaces of hardcore blinding and wall tops	66	SM		
	in situ concrete Mass concrete (C15/20)				
G	To strip foundations ; 150 mm thick	27	SM		
H	100 mm thick to strip foundation	54	SM		
	Walling Natural stone wall; jointed and bedded in cement : sand (1:3) mortar				
J	150 mm thick; foundation walling below floor slab (M. S.)	24	SM		
K	100 mm thick ground floor slab with wiremesh	48	SM		
SUB-TOTAL CARRIED TO COLLECTION					

**PROPOSED CONSTRUCTION OF A 30-POINT HAND WASHING STATION AT MARIGAT
SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
L	Concrete work top 75 mm thick in situ concrete (class 20/20 mm) worktop; including 6mm diameter mild steel reinforcement bars at 150mm centers both ways, on 150mm thick walls	27	SM		
M	Sawn formwork to ; horizontal soffits of worktop	21	SM		
N	Sawn formwork to ; vertical edge of worktop over 75mm but not exceeding 150mm girth	54	LM		
	<u>FINISHES</u>				
	25 mm thick two coats cement/sand (1:4) plaster to:				
O	Concrete and masonry work to receive ceramic tiles	105	SM		
	Ceramic wall tiles				
P	250mm x 300mm ceramic wall tiles	105	SM		
	External wall plaster				
	25 mm cement sand (1:3)render:Steel trowelled on concrete or stonework to:-				
Q	Concrete or masonry wall plinths	105	SM		
	<u>Painting and Decorating</u> Prepare and apply three coats plastic emulsion paint as described to:				
R	Plastered concrete and masonry walls; external	36	SM		
	<u>Trench excavation</u>				
S	Excavation for pipe trenches for 32mm pipes in any material other than rock with a maximum depth not exceeding 600mm	16	CM		
	<u>Pipeline</u>				
T	Supply,lay and joint 32mm HDPE pipe with associated accessories	135	LM		
	<u>Soap dispenser</u> Wall mounted soap dispenser with a capacity of about one litre press soap release action complete with fixing screws. Allow for initial soap supply. To be as Starmix or approved equivalent.	30	NO		
SUB-TOTAL CARRIED TO COLLECTION					

**PROPOSED CONSTRUCTION OF A 30-POINT HAND WASHING STATION AT MARIGAT
SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

ITEM	DESCRIPTION	QTY	UNIT	RATE	KSHS.
	<u>MECHANICAL WORKS CONTINUED</u>				
	<u>Plumbing</u>				
A	Supply and install tubing and fittings as described and shown on the drawings. Tenderers must allow for ipework, couplings etc necessary for the proper and satisfactory functioning of the system when pricing the following in PN 20 PPRC conforming to the current European standards for PPR installations and to the Engineer's approval, pipe jointing shall be by polyfusion or use of electric coupling Rates must allow for all the Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints, etc				
	<u>PPR Pipes</u>				
B	32mm dia pipe chased in walls/floors	12	LM		
C	25mm ditto	18	LM		
	Extra-over PPR pipework for the following:-				
	<u>Bends/elbows</u>				
D	25 x 20 mm female Elbow	12	NO		
E	25mm plain elbow	12	NO		
F	1/2" female Elbow	6	NO		
G	3/4" female elbow	8	NO		
H	1" female elbow	12	NO		
J	1,1/4" plain elbow	8	NO		
K	3/4" Male elbow	8	NO		
	<u>Sockets</u>				
L	32mm male socket	14	NO		
M	32mm female socket	14	NO		
N	3/4" X 1/2" Reducer socket	12	NO		
P	1/2" Female socket	8	NO		
Q	1/2" Plain socket	6	NO		
R	1" socket	13	NO		
S	1" female socket	12	NO		
T	1,1/4" female socket	8	NO		
U	1" male socket	12	NO		
V	3/4" Plain socket	12	NO		
W	3/4" Male socket	12	NO		
	<u>Tees</u>				
X	25x1/2" female threaded tee	18	NO		
Y	1/2" female threaded tee	9	NO		
Z	3/4" female threaded tee	6	NO		
AA	1/4" tee	6	NO		
BB	1" tee	6	NO		
CC	1" X 3/4" Female tee	6	NO		
	<u>Gate valve</u>				
DD	1" Pegra gate valve	6	NO		
	<u>G.I Nipples</u>				
EE	1/2" G.I nipple	32	NO		
	<u>Waste pipe</u>				
FF	1,1/4" waste pipe	6	NO		
	<u>waste tee</u>				
GG	1,1/4" waste tee	18	NO		
HH	Inspection tee	10	NO		
	<u>waste bends</u>				
JJ	1,1/4" waste bend	8	NO		
	<u>Tap</u>				
KK	Lockable 1/2" bibtap	8	NO		
LL	Lockable 3/4" bibtap	6	NO		
	HWS PG-3 CARRIED TO COLLECTION				
MVI&MIPS/HWS PG-3					

**PROPOSED CONSTRUCTION OF A 30-POINT HAND WASHING STATION AT MARIGAT
SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

ITEM	DESCRIPTION	PAGE NO.	AMOUNT
	<u>COLLECTION FOR THE 20-POINT HAND WASHING STATION</u>		
1	TOTAL FROM HWS PG-1	MVI&MIPS/HWS PG-1	
2	TOTAL FROM HWS PG-2	MVI&MIPS/HWS PG-2	
3	TOTAL FROM HWS PG-3	MVI&MIPS/HWS PG-3	
TOTAL FOR 30-POINT HAND WASHING STATION CARRIED TO GRAND SUMMARY			

MVI&MIPS/HWS/TOTAL

**PIPELINE EXTENSIONS AT MARIGAT
SPECIAL SCHOOL FOR VISUALLY
IMPAIRED & MARIGAT INTEGRATED DAY
AND BOARDING PRIMARY SCHOOL**

**PROPOSED PIPELINE EXTENSIONS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED
MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL**

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSh)	AMOUNT (KSh)
A	Site Clearance and stripping Provide for site clearance atleast 0.6m wide along the set-out pipeline route. Alsso provide for stripping of vegetation and top soil not exceeding 50mm depth Site clearance and stripping	SM	240.0		
B	Earthworks Provide for excavation of pipeline trench of not exceeding 600mm deep by 600mm wide. Excavation and backfilling in normal soil	CM	196.0		
C	Pipeline layng and backfilling Provide for pipeline laying and backfilling. Rtes to include labour and all necessary equpiment as well as wastes during fitting of the pipeline 32mm PPR PN-16 pipe.	Rolls	8.0		
D	Allow for a provisional sum of Kshs Fifty Thousand only for plumbing connections	Item	1.0		
	TOTAL FOR PIPELINE EXTENSIONS CARRIED TO GRAND SUMMARY				

MVI&MIPS/PE/TOTAL

**PLUMBING INSTALLATIONS AT MARIGAT
SPECIAL SCHOOL FOR VISUALLY
IMPAIRED & MARIGAT INTEGRATED DAY
AND BOARDING PRIMARY SCHOOL**

**PLUMBING INSTALLATIONS AT CATHOLIC INTERGRATED PRIMARY
SCHOOL IN WAJIR COUNTY**

Item	Description	Qty	Unit	Rate (Kshs)	Cost (Kshs)
	<u>PLUMBING</u> Supply, deliver, install, test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors.				
A	Sato Pan Supply and install SATO latrine pan complete with self-sealing trap door, connection components, bedding mortar, fixing materials, and all necessary accessories. The rate shall include fitting to the pit latrine slab, making good around the installation, testing for proper operation, and handing over a fully functional unit in accordance with the manufacturer's specifications.	29	No.		
B	WC Connector 100mm diameter WC connector	2	No.		
C	Manhole Double sealed Access cover 600 x 450mm comprising:	1	No.		
D	Floor Traps 100Ø, 100 x 50 x 40 mm diameter 4-way Light Grey floor trap complete with stainless steel grating and cover.	1	No.		
E	Gutter 150mm Diameter uPVC gutter fixed to fascia board (m.s.) with heavy duty uPVC brackets at 1000 mm centers all to approval	38	Lm		
F	Extra over gutter for stopped ends.	5	No.		
G	Ditto for rainwater outlets with nozzle for 100mm	5	No.		
H	100mm uPVC diameter rainwater down pipe connected to water tank including all necessary accessories.	9	Lm		
J	Supply, deliver and install vertical close end plastic moulded tank of capacity 10,000 litre size 2400 diameter x 2800mm high. The tank to be assembled complet with cover and having screwed connections for inlet, outlet and overflow, 32mm medium pressure ball valve, drain pipes and any other necessary item for its proper functioning. The tank shall be mounted on a flat platform slab and shall be as ROTO model or equal and approved.	1	No		
	Total Cost for plumbing installation Works Carried Forward to Summary Page				
MVI&MIPS/PLB/TOTAL					

**DRAINAGE WORKS AT MARIGAT
SPECIAL SCHOOL FOR VISUALLY
IMPAIRED & MARIGAT INTEGRATED DAY
AND BOARDING PRIMARY SCHOOL**

DRAINAGE AND BIODIGESTER AT CATHOLIC INTERGRATED PRIMARY SCHOOL

BILL OF QUANTITIES FOR DRAINAGE WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	EXTERNAL COMPONENTS				
	Drainage External Channels				
A	Excavate trench average depth 750 mm to receive upvc , return fill and ram surplus material.	CM	5.50		
B	150 mm diameter heavy duty upvc pipe in ground.	Lm	26.00		
C	Mass concrete class 15 (1:3:6)	CM	1.00		
	18m³ Biodigester				
	(Works to be undertaken by a specialist personnel)				
A	Oversite excavation to reduce levels not exceeding 250mm deep from existing ground level, spread on site as directed, and cart away surplus.	CM	7.96		
B	Excavate foundation 2.125 metres deep commencing from reduced level.	CM	67.60		
C	Excavate hard rock 2.0 metres deep	CM	63.62		
D	Backfill excavated foundation with approved materials	CM	52.71		
H	50mm thick blinding to foundation class 15 (1:3:6)	CM	1.57		
I	Reinforced concrete class 20/20 (1:2:4) to Base foundation	CM	4.77		
J	Reinforced concrete class 20/20 (1:2:4) to Dome structure	CM	1.18		
K	Reinforced concrete class 20/20 (1:2:4) to Manholes base	CM	1.00		
L	Cypres sawn formwork to Dome structure	SM	6.00		
M	D12mm bars to base	KG	68.00		
N	D10mm bars to dome structure	KG	68.00		
	<u>Natural quarry stone walling in cement and sand (1:3) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course</u>				
H	200mm thick masonry walling	SM	12.00		
	<u>Machine cut stone walling in cement and sand (1:3) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternate course</u>				
I	150mm thick machine cut stones @ manholes	SM	2.00		
	Total carried to next page for biodigester				
MVI&MIPS/DRNG/TOTAL					

DRAINAGE AND BIODIGESTER AT CATHOLIC INTERGRATED PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Total carried from the previous page for drainage and biodigester				
	CONT'D FOR BIODIGESTER				
	PIPING SYSTEM				
	<u>Make good and attend in all trades on the plumber installing the following points, including cutting all chases and holes, notching and boxing timber etc. making good all finishes and leave clean to satisfaction of the R.E</u>				
A	6" uPVC waste pipe (heavy duty)	LM	8.00		
B	6" 90° bend	NO	2.00		
C	4" uPVC waste pipe(heavy duty)	LM	4.00		
D	4" Upvc bend	NO	2.00		
E	6" Tee	NO	4.00		
	<u>Square C.I manhole cover & frame(H.D)</u>				
F	600x600mm	NO	2.00		
G	450x450mm	NO	2.00		
	SOAK PIT (2m width x 10m Length x 2.5m h)				
C	Excavate 2.25 metres deep commencing from reduced level and cart away	CM	22.00		
G	Fill 1250mm hardcore boulders as shown in the drawings	CM	10.00		
H	Perforated 1000g DPM	SM	8.00		
I	Fill 1250mm red soil as shown in the drawings	CM	8.00		
	Total Element Drainage and Biodigester				
MVI&MIPS/DRNG/TOTAL					

**ELECTRICAL INSTALLATIONS AT
MARIGAT SPECIAL SCHOOL FOR
VISUALLY IMPAIRED & MARIGAT
INTEGRATED DAY AND BOARDING
PRIMARY SCHOOL**

ELECTRICAL INSTALLATIONS AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
	<u>ELECTRICAL INSTALLATIONS</u>				
	Supply,install,test and commission the following:- LIGHTING POINTS Lighting points wired with 3 x 1.5mm ² single core PVCI copper cables drawn in concealed 20mm diameter HG PVCI conduit for:-				
A	a) One way switching SWITCHES 10Amps,moulded plate flush mounted switches with screw covers,as CLIPSAL,BG or approved equivalent being:-	No	84		
B	a) 1 gang 1 way	No	22		
C	c) 2 gang 1 way	No	12		
D	e) 3 gang 1 way LIGHTING FITTINGS Lighting fittings complete with lamps and all other necessary accessories:-	No	18		
E	a) 1200, Standard LED T5 tube + fitting as METSEC or approved equivalent	No	54		
F	b) 10W Flood light fitting LED	No	12		
	SUB-MAIN CIRCUIT Circuit comprising 5 x 6mm ² SC PVCI copper cables drawn in concealed 25mm diameter HG PVC conduits from meter box to DB				
G	DISTRIBUTION BOARD 8-Ways ,100Amps , Flush mounted distribution board complete with 100Amps. Integral TPN isolator with hinged cover as MEM,CRABTREE or approved equivalent being:- Mcb's for item 1.16 above being:-	Im	42		
H	a)10Amps,SP	No	4		
J	b)15Amps,SP	No	25		
K	c)20Amps,SP	No	6		
L	d)30Amps,SP	No	3		
M	80/6A TPN switch fuse (KMBG) as MEM or approved equivalent	No	4		
N	Electrical Earthing comprising 6.0mm ² Single core copper cables drawn in H/G Conduits 1500mm by 15mm diameter copper electrode complete with clamp and pre - cast concrete inspection pit with cover	No	4		
O		Item			
TOTAL ELEMENT NO.10 ELECTRICAL INSTALLATIONS CARRIED TO GRAND SUMMARY					

MVI&MIPS/ELEC/TOTAL

**CONTIGENCIES AT MARIGAT SPECIAL
SCHOOL FOR VISUALLY IMPAIRED &
MARIGAT INTEGRATED DAY AND
BOARDING PRIMARY SCHOOL**

CONTINGENCY COSTS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
A	Anticipated Contingencies Note: Tobe utilized at the discretion of the Project Engineer				
	Quantity variations: Minor increases in quantities arising from site conditions or design refinements.	Item	1	550,000.0	550,000.00
TOTAL FOR CONTINGENCY COSTS					550,000.00

MVI&MIPS/CONT/TOTAL

**GRAND SUMMARY FOR CONSTRUCTION
OF CLASSROOMS AND WASH
INFRASTRUCTURE AT MARIGAT SPECIAL
SCHOOL FOR VISUALLY IMPAIRED &
MARIGAT INTEGRATED DAY AND
BOARDING PRIMARY SCHOOL**

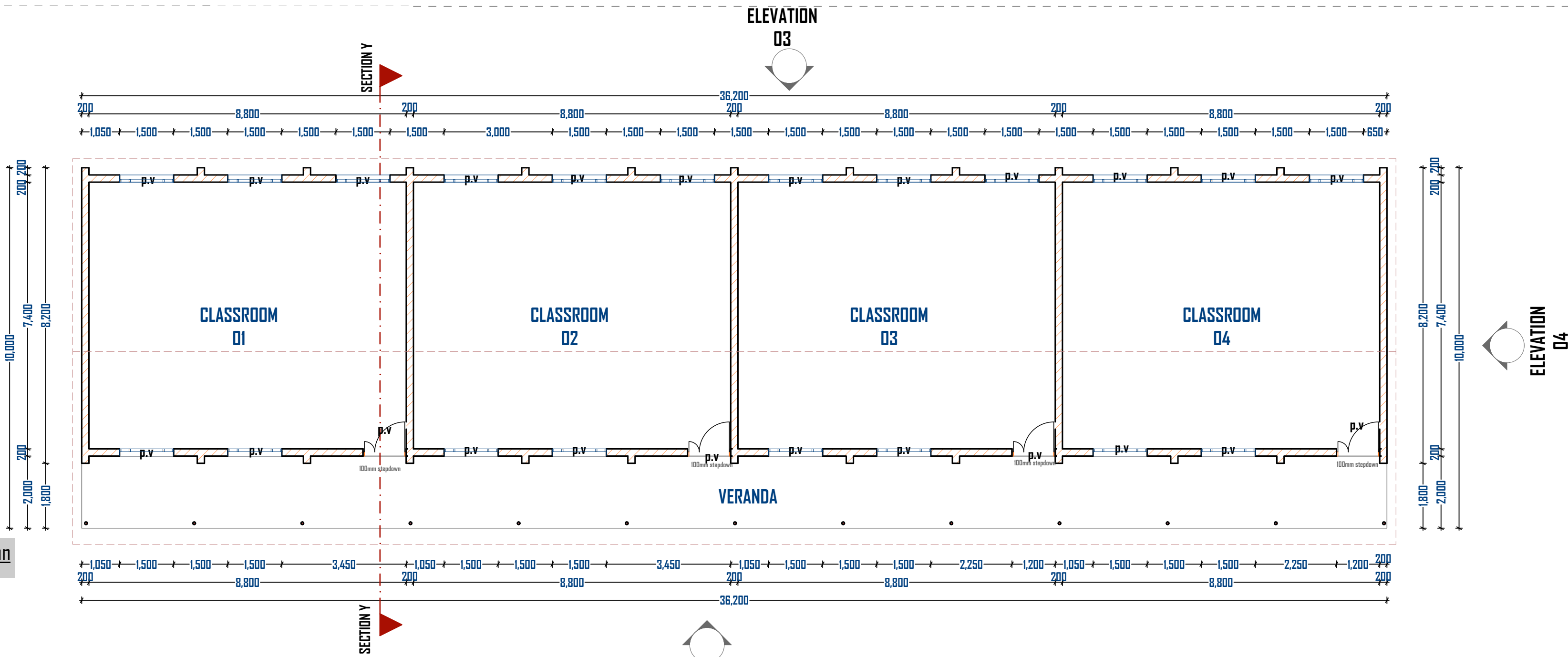


PROPOSED CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED & MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL IN BARINGO COUNTY

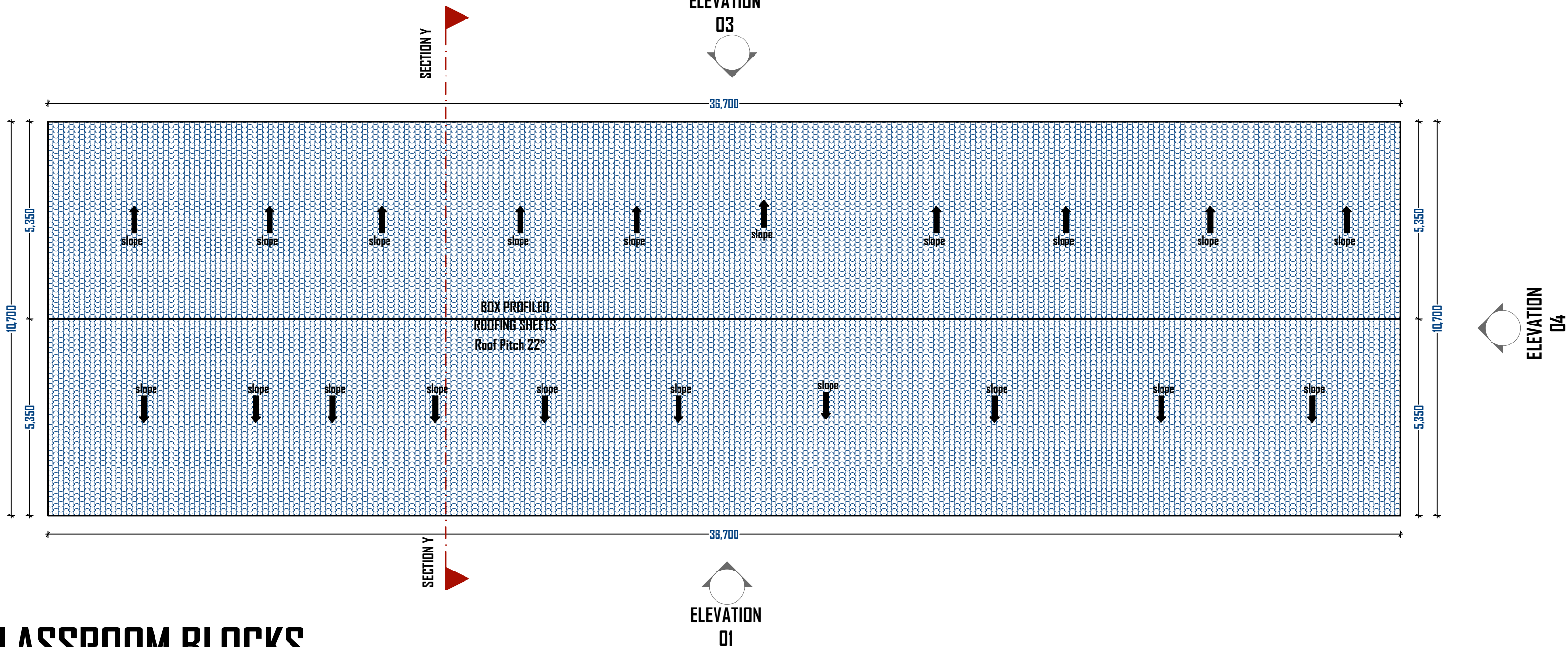
MAIN SUMMARY

ITEM	DESCRIPTION	PAGE NO	TOTALS (KES)
Bill No. 01	13 NO. CLASSROOMS BLOCK	MVI&MIPS/CLSS/TOTAL	
BILL NO.2	RENOVATION & EQUIPPING OF 1 NO ICT CENTER	MIPS/ICT/04	
BILL NO.3	CONSTRUCTION OF 29-DOOR PIT LATRINES	MVI&MIPS/PL/TOTAL	
BILL NO.4	CONSTRUCTION OF A NEW BOY'S DORMITORY FOR THE VI	MVI/N.DRM/10	
BILL NO.5	RENOVATION OF EXISTING BOYS DORMITORY SANITATION FACILITIES	MVI/DRM/REN/TOTAL	
BILL NO.6	CONSTRUCTION OF A 30-POINT HAND WASHING STATION	MVI&MIPS/HWS/TOTAL	
BILL NO.7	PIPELINE EXTENSIONS	MVI&MIPS/PE/TOTAL	
BILL NO.8	PLUMBING	MVI&MIPS/PLB/TOTAL	
BILL NO.9	DRAINAGE	MVI&MIPS/DRNG/TOTAL	
BILL NO.10	ELECTRICAL INSTALLATIONS	MVI&MIPS/ELEC/TOTAL	
BILL NO.11	CONTIGENCIES	MVI&MIPS/CONT/TOTAL	550,000.00
GRAND SUMMARY FOR CONSTRUCTION OF CLASSROOMS AND WASH INFRASTRUCTURE AT MARIGAT SPECIAL SCHOOL FOR VISUALLY IMPAIRED & MARIGAT INTEGRATED DAY AND BOARDING PRIMARY SCHOOL IN BARINGO COUNTY			

Ground Floor Layout Plan
scale 1:100



Roof Plan
scale 1:100



- GENERAL NOTES
1. DIMENSIONS TO BE CHECKED ON SITE. WRITTEN DIMENSIONS RULES OVERSCALED DRAWINGS. ANY DISCREPANCY IN DIMENSIONS TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.
 2. DEPTH AT FOUNDATION TO BE DETERMINED ON SITE. ALL FOUNDATIONS R.C. COLUMNS AND R.C. WORKS TO STRUCTURAL ENGINEERS' DETAIL.
 3. HEAVY DUTY POLYTHENE SHEETING AND TERMITE TREATMENT TO BE PROVIDED UNDER BASEMENT FLOOR SLAB. DPC TO BE THREE PLY BITUMINOUS FELT LAID UNDER ALL WALLS.
 4. P.V. DENOTES PERMANENT VENTILATION.
 5. ALL WALLS TO BE REINFORCED WITH HOOP IRON AT EVERY ALTERNATIVE COURSE.
 6. PLUMBING AND DRAINAGE WORK TO COMPLY WITH MOH REQUIREMENTS. S & V P's TO BE CAST IRON DEEP SEAL OR ANTI VAC TRAPS TO ALL FITTINGS CONNECTED TO S V P's OR WASTE PIPES. ALL BENDS AND JUNCTIONS TO HAVE INSPECTION PLATES.

For and on behalf of:
Developer:

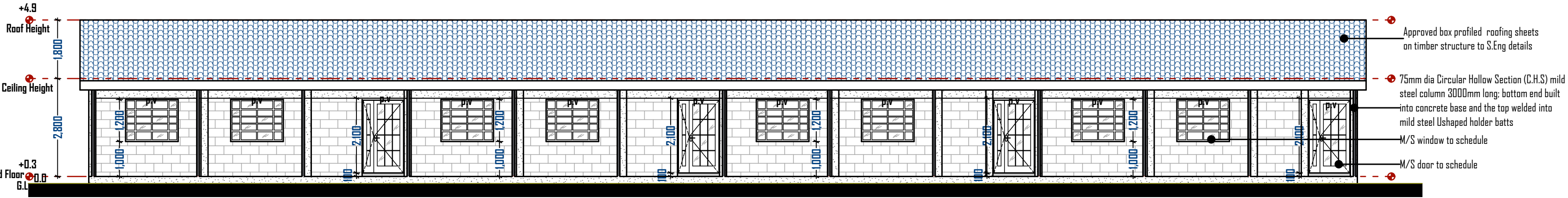


Project:
PROPOSED CLASSROOM DESIGN

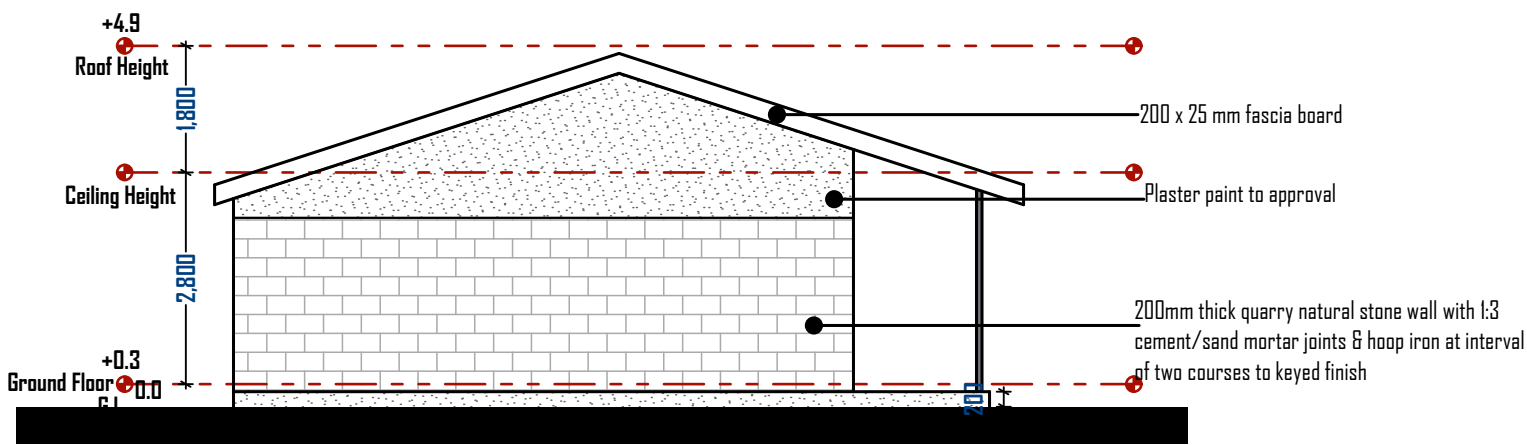
Plot No.	Road
County Baringo	Town Marigat
Project Manager	
Drawing Title: Ground & Roof Plans	Scale: 1:100
Drawing No: CFK03	Project No: Rev. No:
Drawn By: Nathan.M	Checked By: Nathan.M
CADD File: PC MAC	
Date: JULY 2021	Layout: A2 LANDSCAPE

PROPOSED CLASSROOM BLOCKS

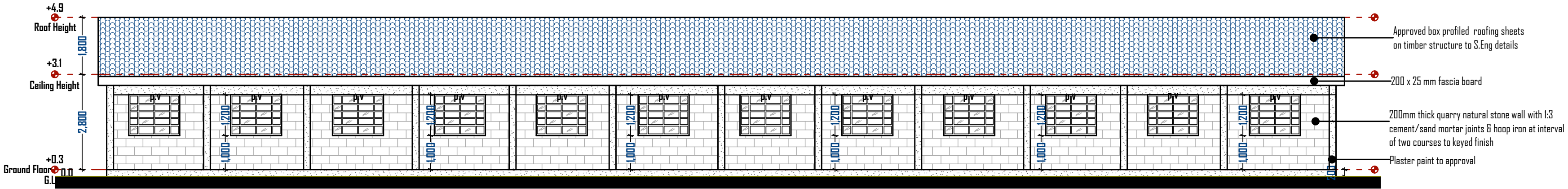
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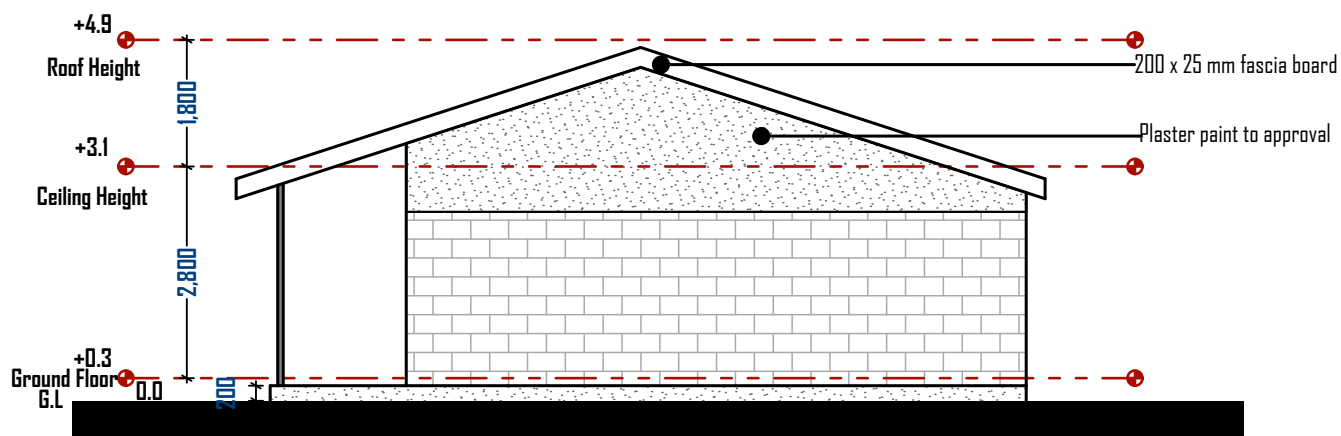
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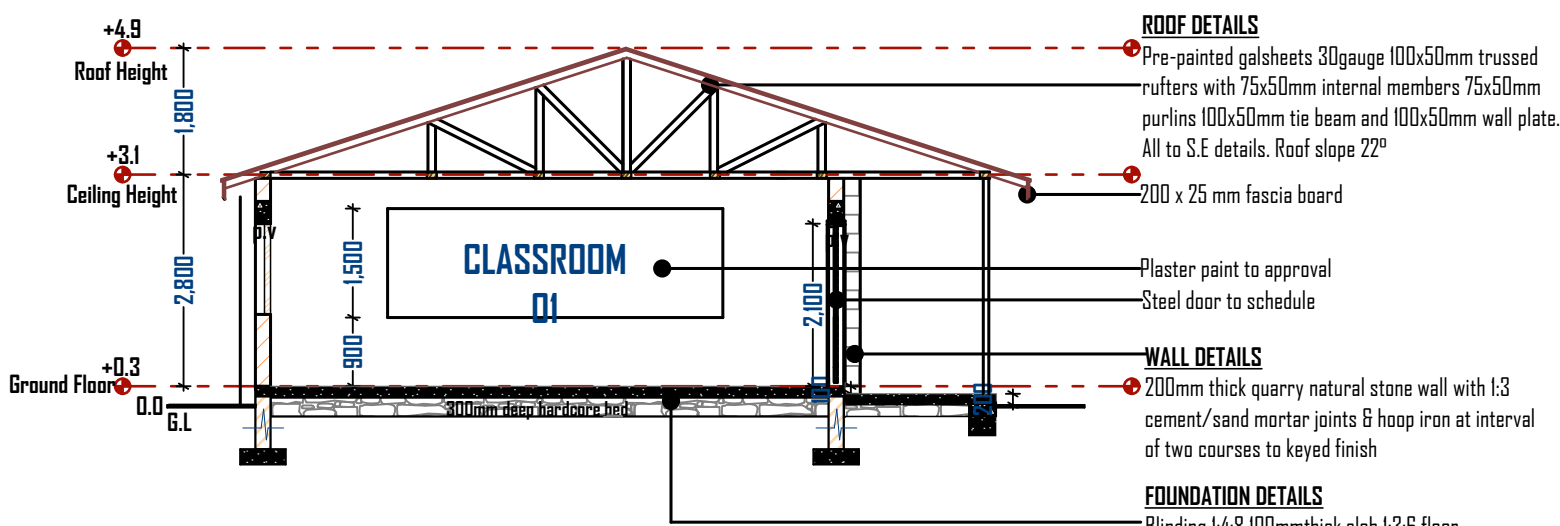
Elevation 03
scale 1:100



Elevation 04
scale 1:100



Section Y-Y
scale 1:100



PROPOSED CLASSROOM BLOCKS

- GENERAL NOTES
1. DIMENSIONS TO BE CHECKED ON SITE. WRITTEN DIMENSIONS RULES OVERSCALED DRAWINGS. ANY DISCREPANCY IN DIMENSIONS TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING.
 2. DEPTH AT FOUNDATION TO BE DETERMINED ON SITE. ALL FOUNDATIONS R.C. COLUMNS AND R.C. WORKS TO STRUCTURAL ENGINEERS' DETAIL.
 3. HEAVY DUTY POLYTHENE SHEETING AND TERMITE TREATMENT TO BE PROVIDED UNDER BASEMENT FLOOR SLAB. DPC TO BE THREE PLY BITUMINOUS FELT LAID UNDER ALL WALLS.
 4. P.V. DENOTES PERMANENT VENTILATION.
 5. ALL WALLS TO BE REINFORCED WITH HOOP IRON AT EVERY ALTERNATIVE COURSE.
 6. PLUMBING AND DRAINAGE WORK TO COMPLY WITH MOH REQUIREMENTS. S & V P's TO BE CAST IRON DEEP SEAL OR ANTI VAC TRAPS TO ALL FITTINGS CONNECTED TO S V P's OR WASTE PIPES. ALL BENDS AND JUNCTIONS TO HAVE INSPECTION PLATES.

For and on behalf of
Developer:



Project:
PPROPOSED CLASSROOM DESIGN

Plot No.	Road
County Baringo	Town Marigat
Project Manager	
Drawing Title: Elevations & Section	Scale: 1:100
Drawing No: CFK04	Project No: Rev. No:
Drawn By: Nathan.M	Checked By: Nathan.M
☐ PC ☐ MAC CADD File:	
Date: JULY 2021	Layout: A2 LANDSCAPE





Roof Plan

scale 1:100

PROPOSED ECD CLASSROOM BLOCK

GENERAL NOTES

1. DIMENSIONS TO BE CHECKED ON SITE.
WRITTEN DIMENSIONS RULE OVERSCALED
DRAWINGS. ANY DISCREPANCY IN
DIMENSIONS TO BE REPORTED TO THE
ARCHITECT BEFORE PROCEEDING.

2. DEPTH AT FOUNDATION TO BE DETERMINED
ON SITE, ALL FOUNDATIONS R.C. COLUMNS
AND R.C. WORKS TO STRUCTURAL ENGINEERS'
DETAIL.

3. HEAVY DUTY POLYTHENE SHEETING AND TERMITE TREATMENT TO BE PROVIDED UNDER BASEMENT FLOOR SLAB. DPC TO BE THREE PLY BITUMINOUS FELT LAID UNDER ALL WALLS.

4. P.V. DENOTES PERMANENT VENTILATION. |

5. ALL WALLS TO BE REINFORCED WITH HOOP
IRON AT EVERY ALTERNATIVE COURSE.

6 PLUMBING AND DRAINAGE WORK TO COMPLY WITH MOH REQUIREMENTS. S & V P's TO BE CAST IRON DEEP SEAL OR ANTI VAC TRAPS TO ALL FITTINGS CONNECTED TO S V P's OR WASTE PIPES. ALL BENDS AND JUNCTIONS TO HAVE INSPECTION PLATES.

[illegible]

For and on behalf of:

Developer:

Client



Project:

PROPOSED CLASSROOM DESIGN

Plot No.	Road
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County Baringo	Town Marigat
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Earnings	Year
Project Manager	

Drawing Title:	Scale:
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Ground & Roof Plan 1:100

Drawing No: CFK05	Project No:	Rev. No:
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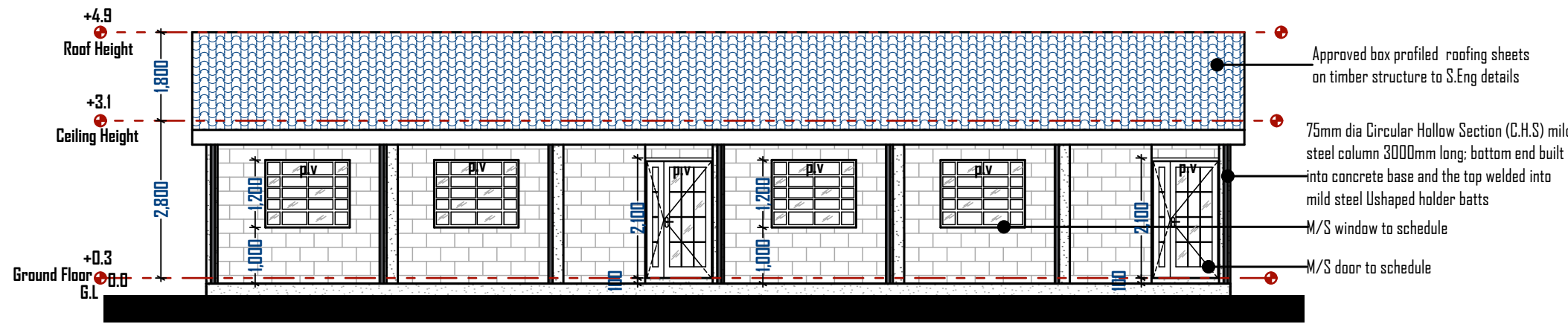
Drawn By: Nathan.M	Checked By: Nathan.M
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Nathan.IV	Nathan.IV
☒	☐
CADD. File:	

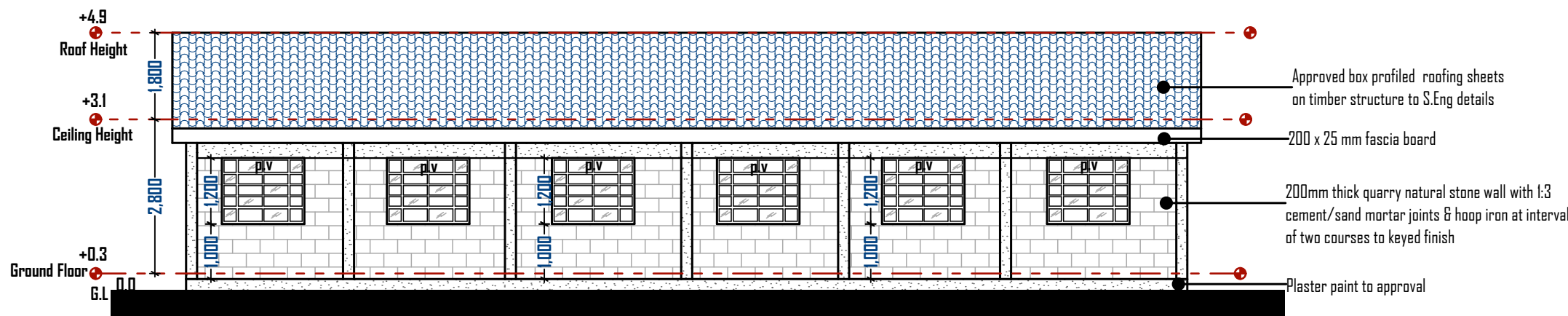
PC	MAC
Date:	Layout:

Date: **JULY 2021** Layout: **A2**

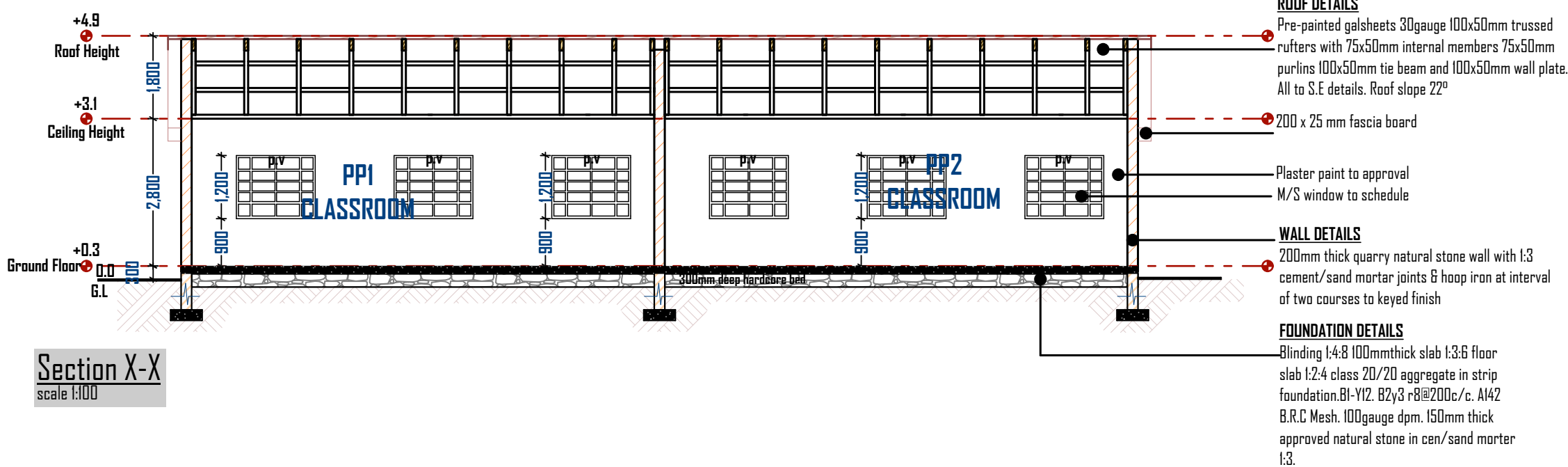
A2 LANDSCAPE |



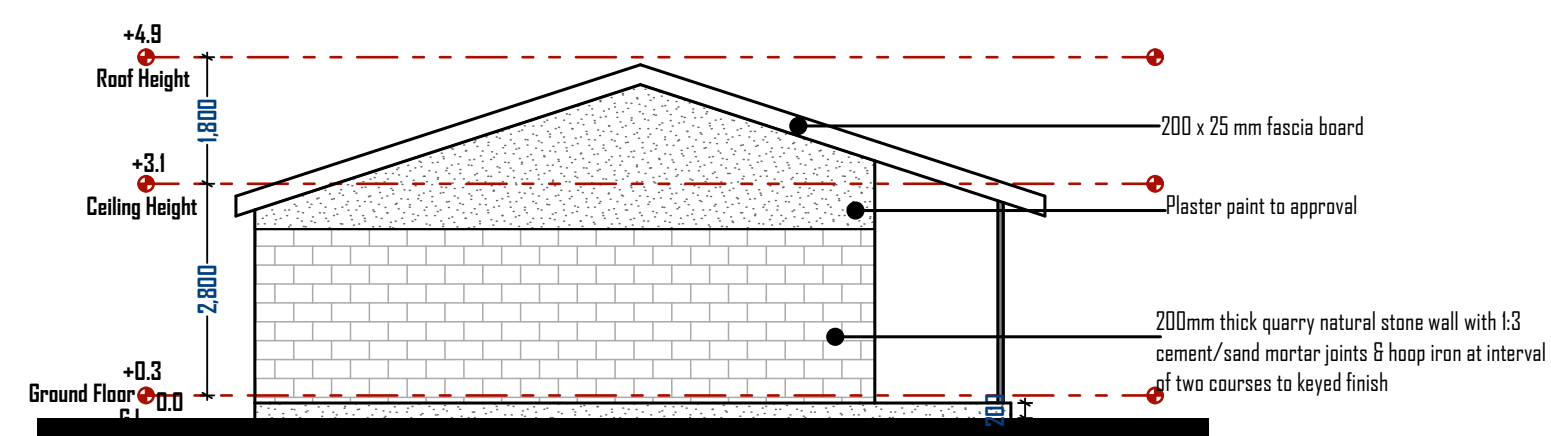
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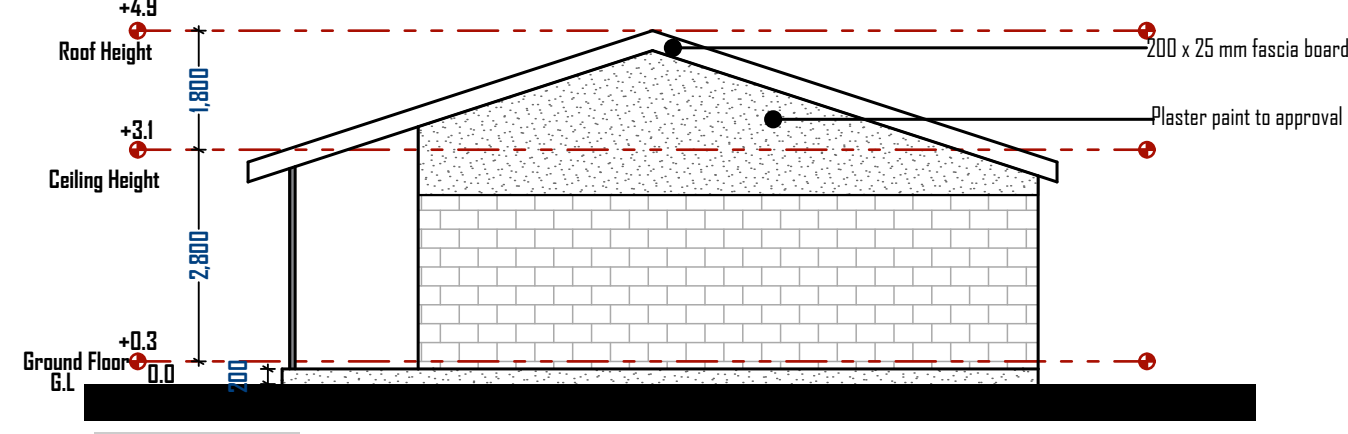
Elevation 03
scale 1:100



Section X-X
scale 1:100



Elevation 02
scale 1:100



Elevation 04
scale 1:100



- GENERAL NOTES
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For and on behalf of:
Developer:

Client

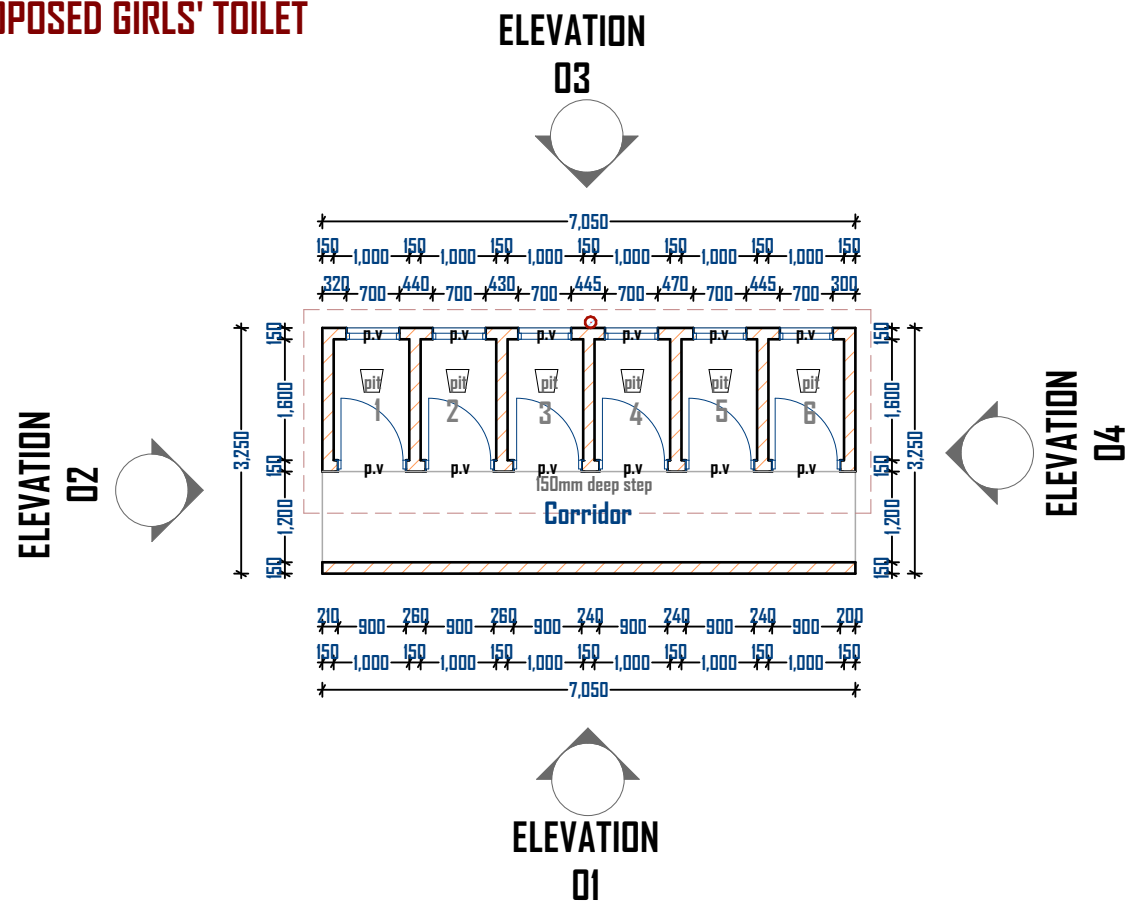


Project:
PROPOSED ECD CENTER DESIGNS

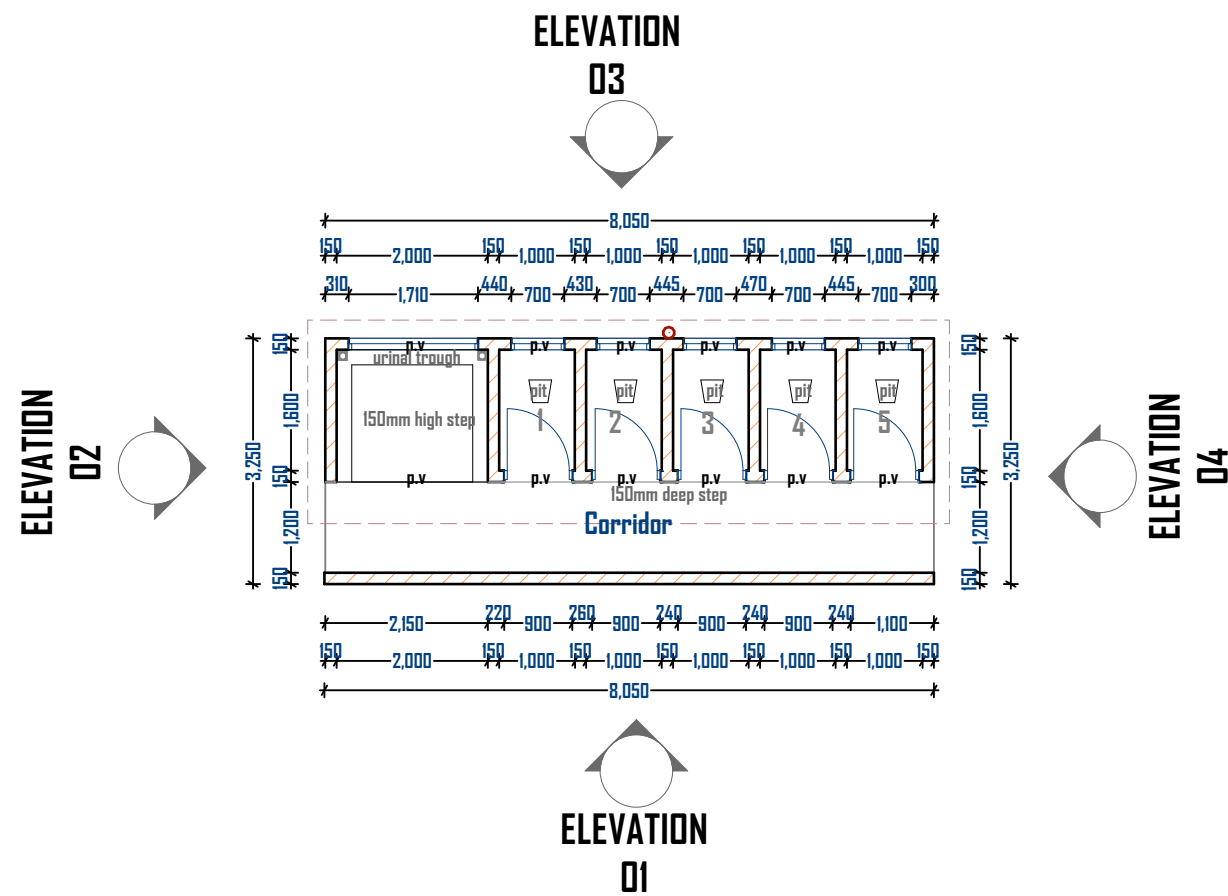
Plot No.	Road
County Baringo	Town Marigat
Project Manager	
Drawing Title: Elevations & Section	Scale: 1:100
Drawing No: CFR06	Project No: Rev. No.
Drawn By: Nathan.M	Checked By: Nathan.M
CADD. File: ☐ FC MAC	
Date: JULY 2021	Layout: A2 LANDSCAPE

PROPOSED ECD CLASSROOM BLOCK

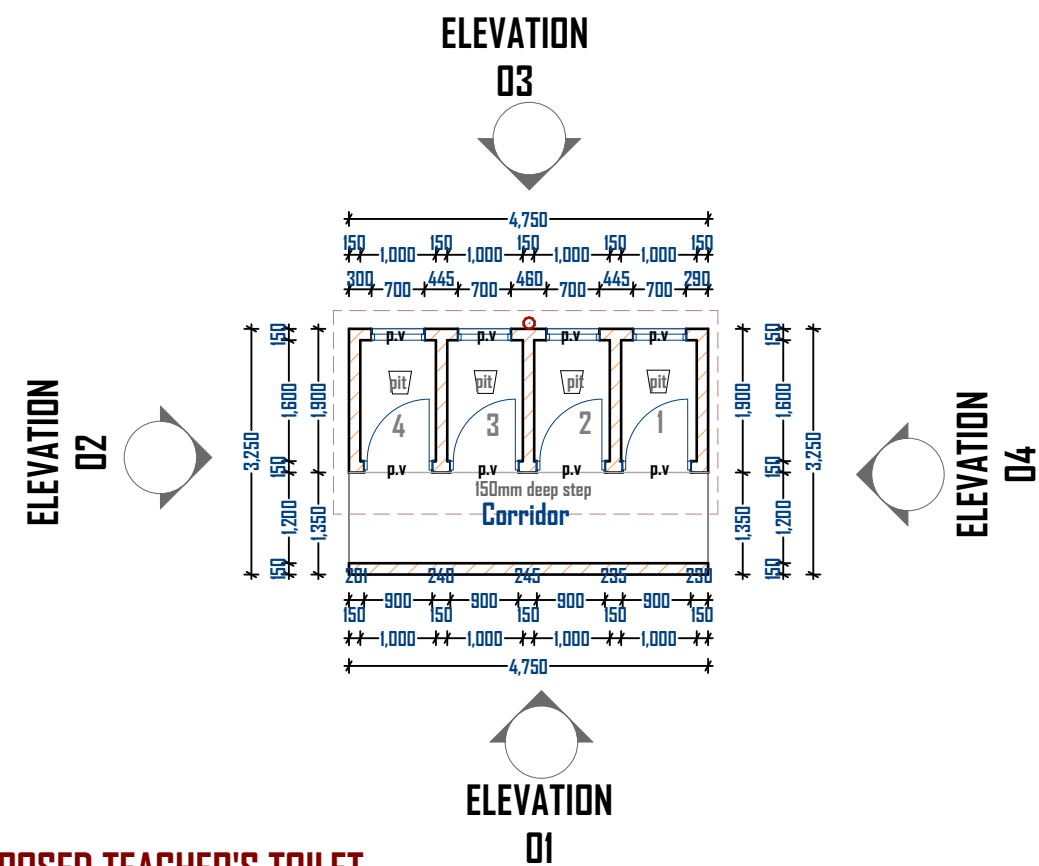
PROPOSED GIRLS' TOILET



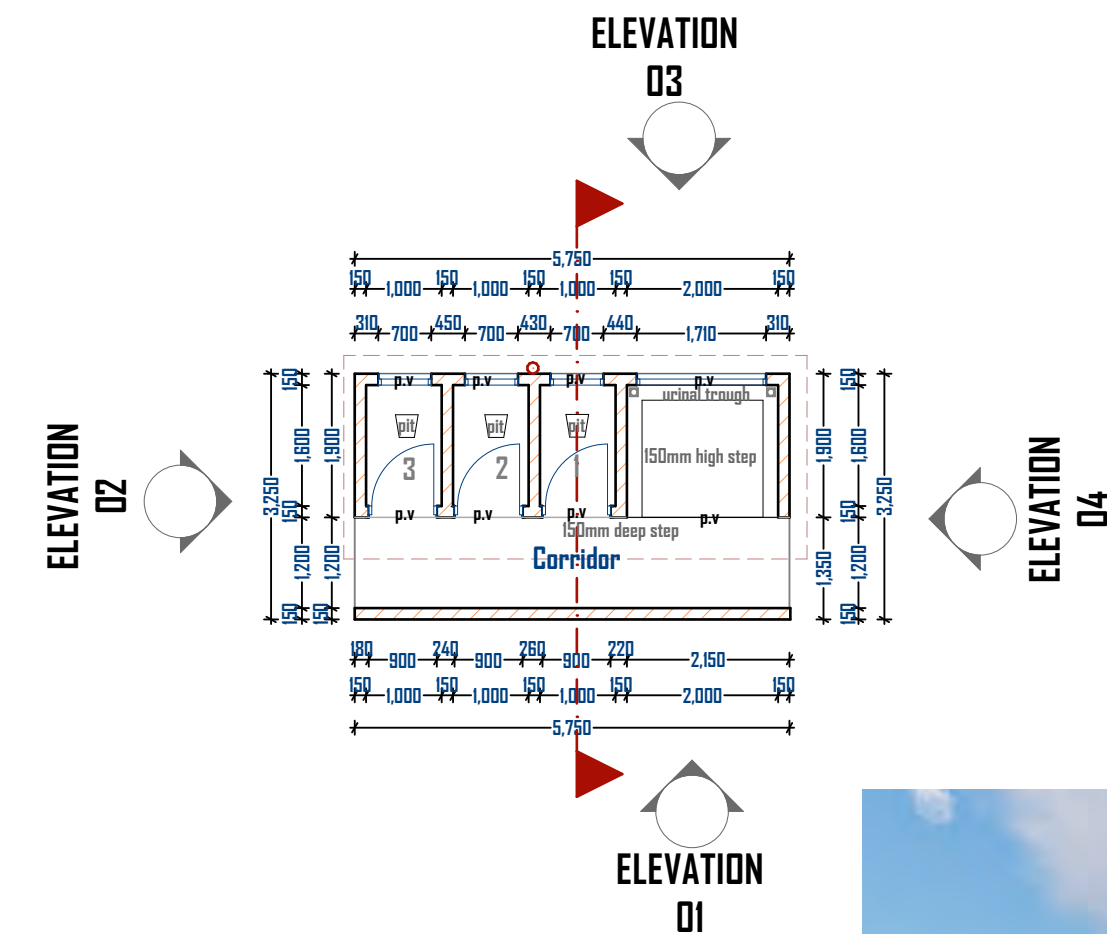
PROPOSED BOYS' TOILET



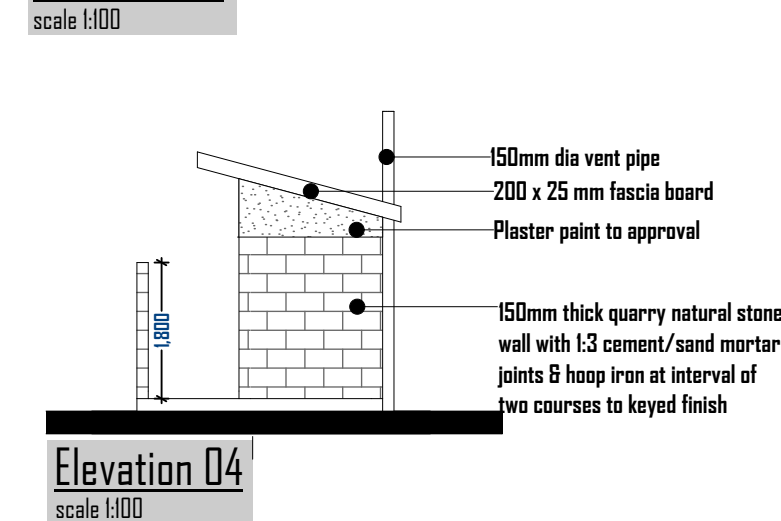
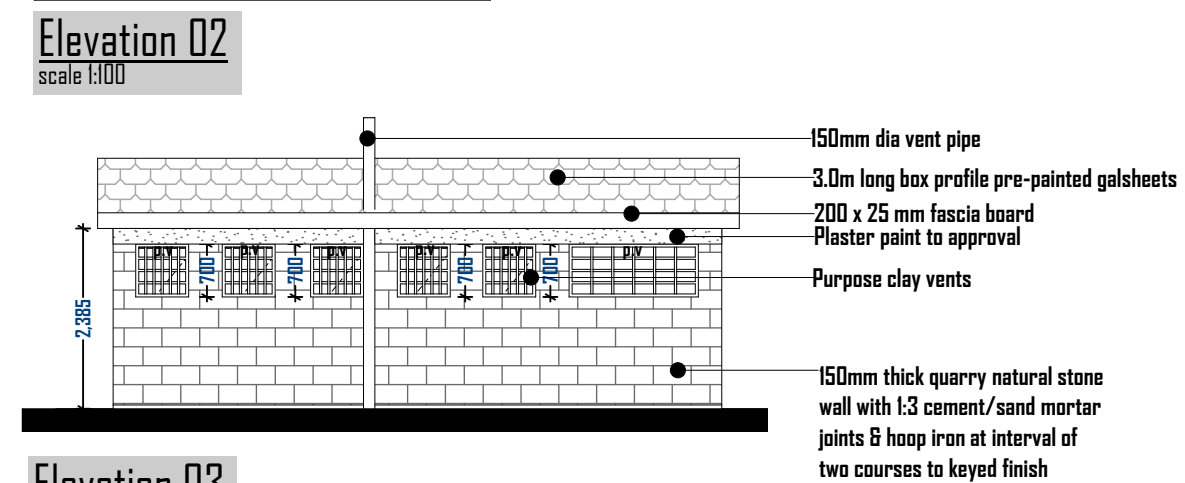
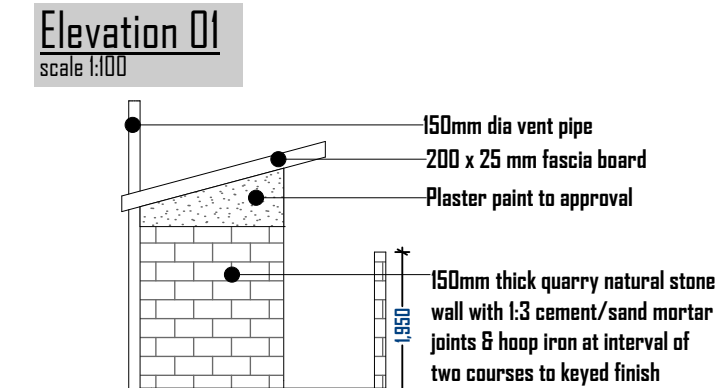
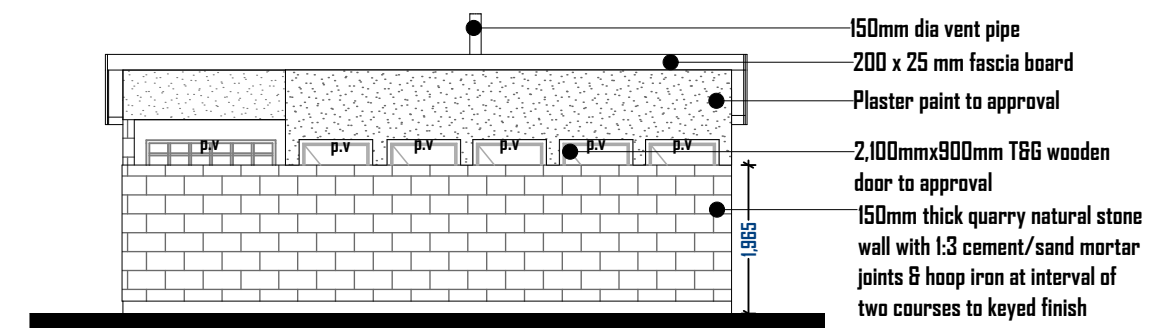
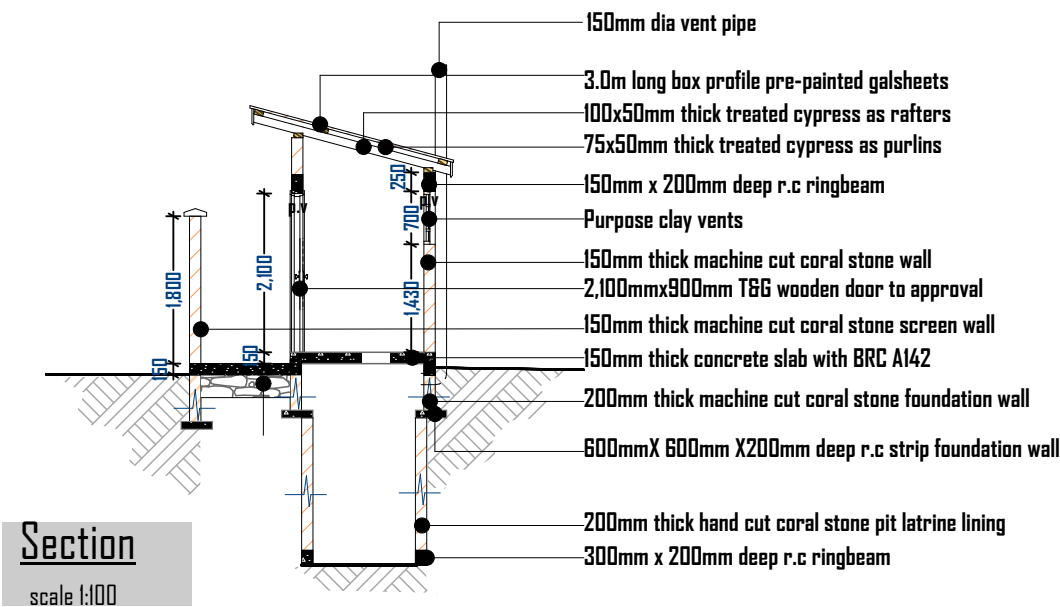
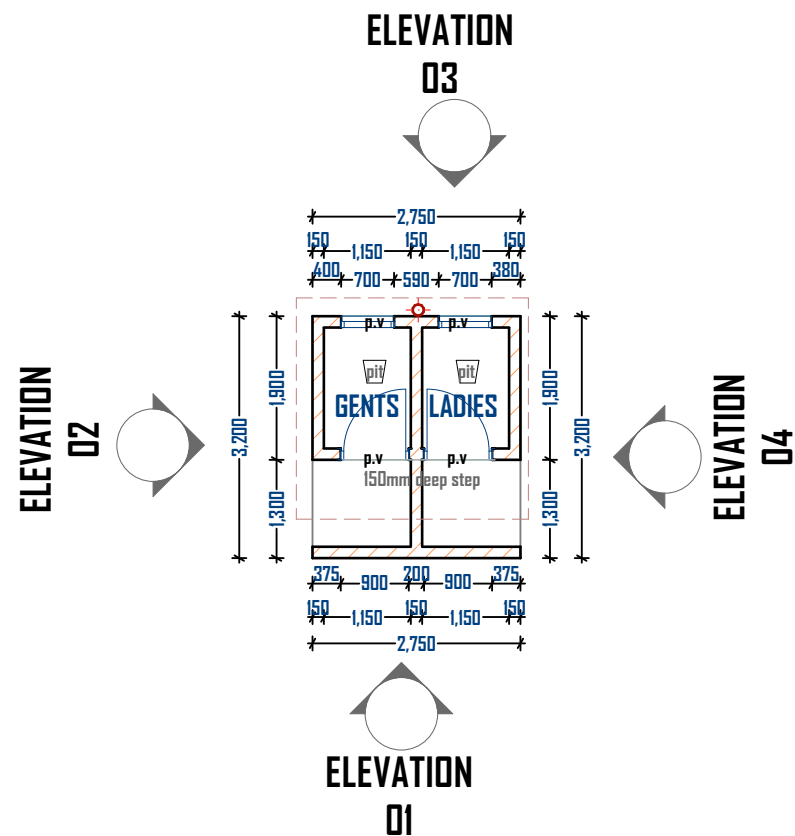
PROPOSED ECD GIRL'S TOILET



PROPOSED ECD BOYS' TOILET



PROPOSED TEACHER'S TOILET



- GENERAL NOTES
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For and on behalf of:
Developer:

Client



Project:
PROPOSED PIT LATRINES
DESIGNS

Plot No. Road
County Baringo Town Marigat
Project Manager

Drawing Title: Scale:
Plans, Elevations & Section 1:100
Drawing No: Project No: Rev. No:
CFK07

Drawn By: Checked By:
Nathan.M Nathan.M
FC MAC

Date: Layout:
JULY 2021 A2 LANDSCAPE

PROPOSED TOILET BLOCKS



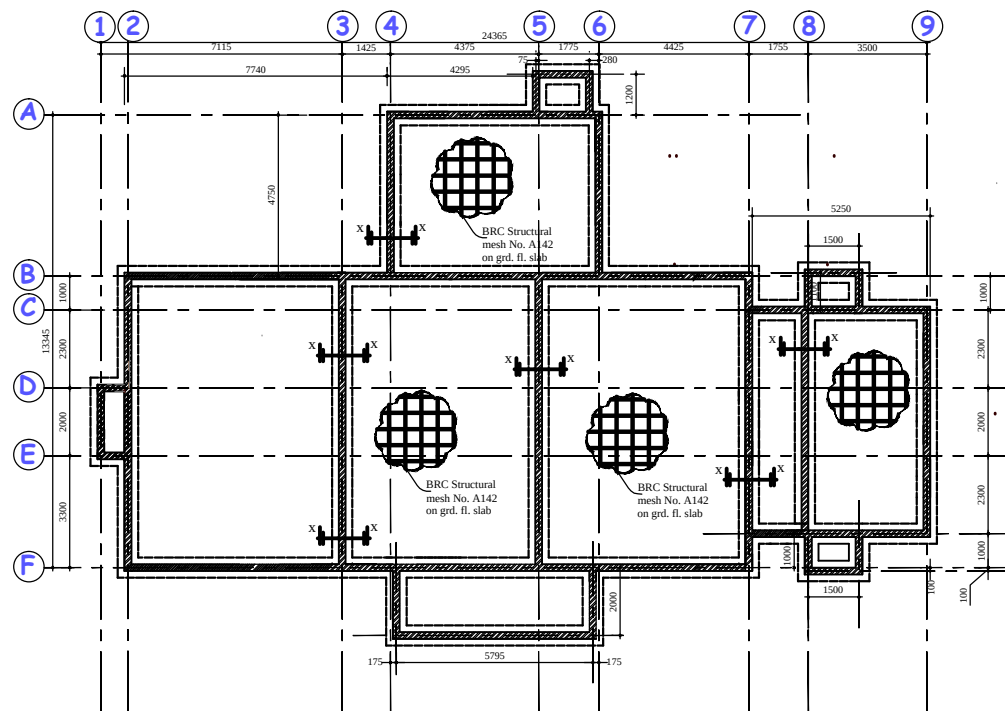


BOYS = CAPACITY= 20 PUPIL'S

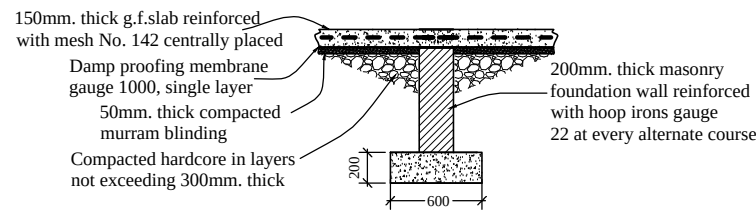
FLOOR AREA = 230 m²
ROOF VOL. = 343 m³
HOUSE VOL. = 655 m³



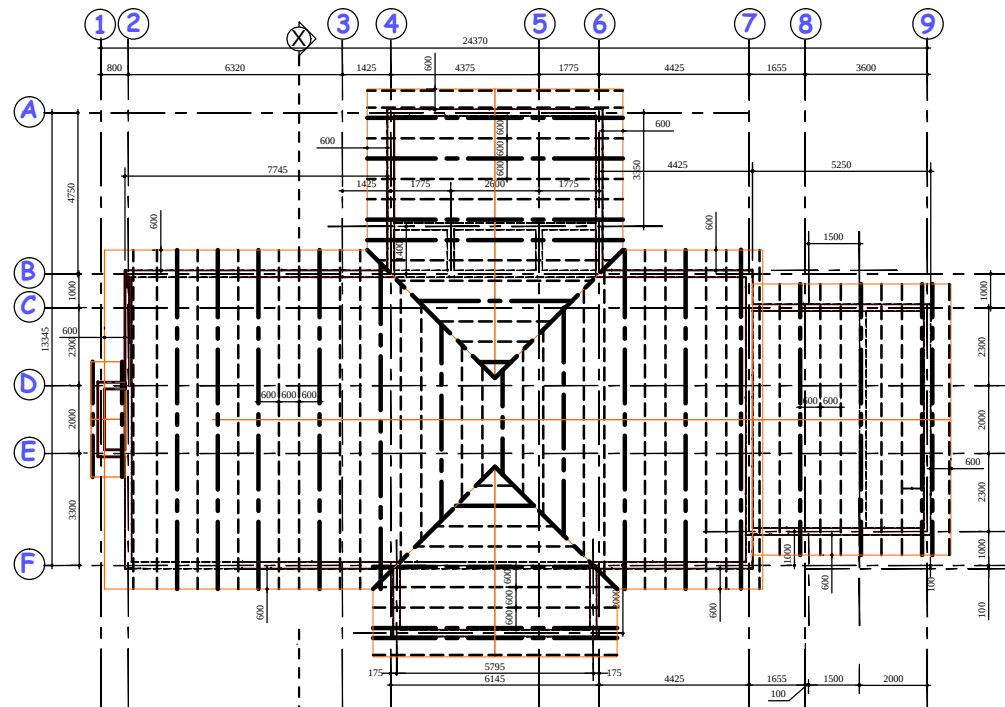
CHECKED BY	
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FOUNDATION AND GROUND FLOOR SLAB - LAYOUT & STRUCTURAL DETAILS

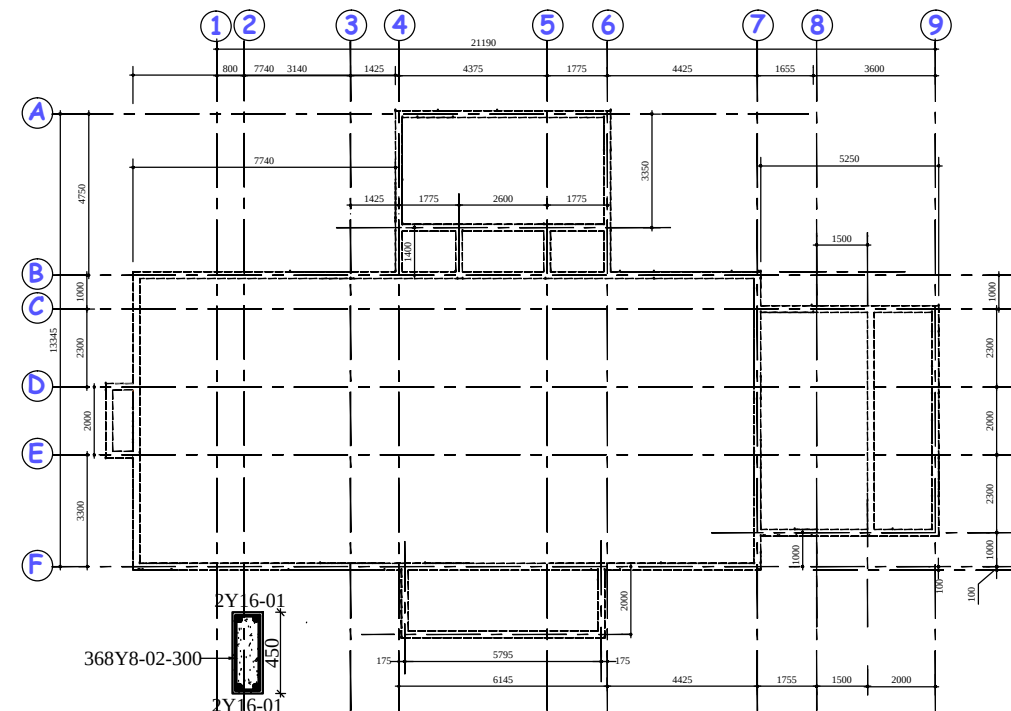


SECTION X-X
STRIP FOOTING



ROOF PLAN

<u>KEY</u>	
— — — — —	Truss (1800 max spacing c - c)
- - - - -	Rafter (600 max spacing c - c)

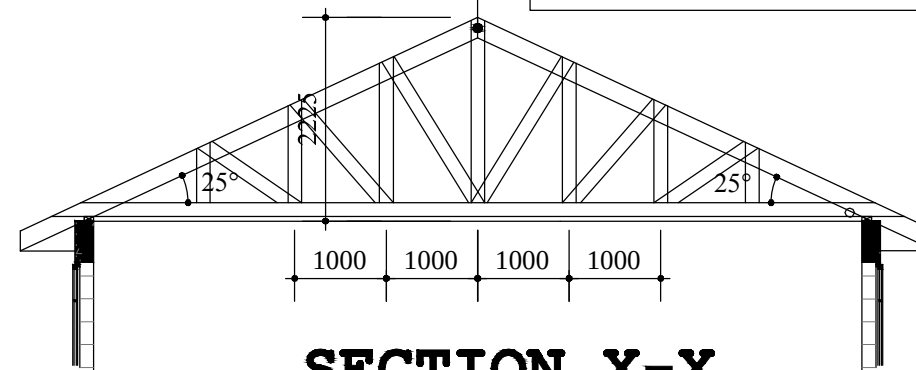


RING BEAMS STRUCTURAL DETAILS

Ring Beam size(450x200)
Beam Length=110m

ROOF NOTES PITCH=25DEG.

GCI SHEETS ON 75X50 PURLINS ON
150X 50 TRUSSES AND RAFTERS ON
150X50 CYPRESS WALL PLATE WELL SECURED TO
THE WALL TO APPROVAL.



SECTION X-X
scale 1:100

GENERAL NOTES

1. USE FIGURED DIMENSIONS ONLY.
2. ALL WINDOWS TO HAVE PY
3. ALL DOORS EXCEPT TOILETS TO HAVE PY
4. 1000G POLYETHYLENE SHEET UNDER SLAB ON 50MM
MORUM MURUM BLINDING
5. RESIN BASED BITUMINOUS FELT UNDER ALL
WALLS (WALLS DPC)
6. ALL STRUCTURAL WORKS TO ENGINEERS DETAILS

REVISIONS

No	Date	Descriptions

WINDOW SCHEDULE

Type	Length	Height	No Req

~~SECRET~~ NO 02

PROJECT

CLIENT

Title : Foundation, Ring beam, Roof Plan
& Electrical details

ECN _____

SCALE	1:100
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DATE	
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DRAWN BY	
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CHECKED BY	
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