



**Date: 3<sup>rd</sup> October 2024**

**TENDER ADVERTISEMENT**

Habitat for Humanity Kenya invites bids from interested, eligible, reputable, and competent suppliers for the supply of:

<b>TENDER REF NO</b>	<b>ITEM DESCRIPTION</b>	<b>DELIVERY LOCATION</b>
HFHK/4716/2024	<b>PROPOSED CONSTRUCTION WORKS FOR LEARNER'S IN LORMONG'I COMMUNITY,</b> As per specification provided on BOQ	Lormong'I community, Kajiado North Sub-County

Interested bidders must visit the location first before providing the quotation.

- Location: Lormong'I community, Kajiado North Sub-County

Interested bidders must enclose the following documents

- Valid KRA Pin/VAT/Tax Compliance certificate
- CR12
- Valid Business Permit
- Attachment of 3 similar works i.e. LPO's/Contracts
- At least 2-3 years of operation
- Price quoted should be inclusive of tax where applicable.
- Company profile

Detailed request for quotation may be obtained (**Free of charge**) from the Habitat for Humanity Kenya website: <https://hfhkenya.org/careers>

Duly completed and sealed tender documents in a plain envelope with the tender number **HFHK/4716/2024** and title indicated (**PROPOSED CONSTRUCTION WORKS FOR LEARNER'S IN LORMONG' COMMUNITY, KAJIADO NORTH SUB-COUNTY**) on the envelope should be deposited in the tender box placed at the Habitat for Humanity Kenya Offices on or before close of business on 18<sup>th</sup> October 2024 addressed to;

**The Chairperson, Procurement Committee,**

Habitat for Humanity Kenya

Kasuku Lane-off Lenana Road,

P.O Box 38948 – 00623, Nairobi Kenya.

**Habitat for Humanity Kenya** reserve the right to accept or reject any tender in part or wholly and does not bind itself to accept the lowest bidder. Only successful bidders will receive communication from HFHK office. Any form of canvassing either directly or indirectly shall lead to disqualification of the tender.

**PROPOSED CONSTRUCTION  
WORKS FOR LEARNER'S IN  
LORMONG'I COMMUNITY,  
KAJIADO NORTH SUB-  
COUNTY**

FOR

**HABITAT FOR HUMANITY KENYA  
P.O.BOX 38948 - 00623  
Nairobi - Kenya.**

**Cost Estimates**

*AUGUST 2024*

**FORM OF TENDER**

**PROPOSED CONSTRUCTION WORKS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

Having visited the site and examined the Tender Documents for the execution of the above works, we the undersigned are willing to Contract and perform fully, the whole of the said works in accordance with the said Bills of Quantities, Specifications and Conditions of Contract and to enter into a Contract and complete the whole of the works within the time stated in this Form of Tender.

Our Tender figure including all Preliminaries , P. C. Sums, Provisional Sums and Contingencies, VAT and based on a fixed price contract amounts to :-

**Kenya Shillings ( Words )** .....  
.....  
.....  
.....

We the undersigned agree to be bound and submit to the said Articles of Agreement, Conditions of Contract and the Priced Bills of Quantities which shall form the basis for the valuation of interim certificates and any extra or omitted work which may from time to time be ordered by the project manager

Kshs. ( figure ) .....

Signature of Tenderer.....

Name of Tenderer.....

Address of Tenderer.....

Date.....

**TIME FOR COMPLETION**

Further we the undersigned, agree to complete the whole of the works within the time stated below from the date of possession of the site as defined within the Conditions of Contract.

**Words** .....{weeks)

**Figures**.....(weeks)

**OTHER COVENANTS**

And further, we the undersigned agree that:-

We have visited the site and familiarised ourselves with the current status of the works

HFHK shall neither be bound to accept the lowest tender or any Tender nor to reimburse any expenses incurred by the tenderer in the preparation of this Tender.

**TENDER VALIDITY PERIOD**

Further we, the undersigned, agree that unless and until a formal agreement is executed, this Tender together with your acceptance thereof, shall constitute a binding Contract between us, and this Tender shall remain a valid offer for Sixty ( 60 ) days.

**EXAMINATION OF TENDER DOCUMENTS**

Further we, the undersigned, have examined all the drawings detailed previously which will form part of this Contract, together with the instructions to Tenderers, and we have no further questions relating to them and we have personally signed each document as identification.

Further we, the undersigned understand that the lowest, or any portion of any tender will not necessarily be accepted nor will any expense incurred by the Tenderer in the preparation of this Tender be allowed. Further, HFHK reserves the right to award whole or portion of the tenders and to supply only materials or equipment as may deem fit.

**Signature of Tenderer**.....

**Name of Tenderer**.....

**Address of Tenderer**.....

SITE HANDED OVER TO CONTRACTOR ON.....	
CONTRACT PERIOD IS WEEKS	
COMPLETION DATE OF WORKS DATE.....	

**The contractor is reminded that cost, quality and time is of greatest essence.**

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# **ECDE CLASSES CONSTRUCTION WORKS**

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**PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Ksh)</b>	<b>AMOUNT (Ksh)</b>
	<b><u>ELEMENT NO. 1</u></b>				
	<b><u>SUBSTRUCTURE WORKS (ALL PROVISIONAL)</u></b>				
	<u>Excavations</u>				
1.1	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	120	SM		
1.2	Excavation to reduced level commencing from ground level 300mm deep and not exceeding 1500mm	80	SM		
1.3	Excavate for strip foundations not exceeding 1500 mm deep commencing from reduced level	15	CM		
1.4	Extra over all excavations and earthworks for breaking up rock where encountered	1	CM		
1.5	Plank and strut to uphold sides of excavations: keep excavations free from all fallen material	1	Item		
1.6	Keep excavations free from ground and surface water	1	Item		
1.7	Load and cart away surplus excavated material from site	93	CM		
1.8	Return, fill and ram excavated material around	6	CM		
	<u>Level surfaces</u>				
1.9	Level and compact for strip foundation	10	SM		
	<u>Hardcore filling</u>				
1.10	300mm thick hardcore or other approved inert material: well watered and compacted in 150 mm thick (maximum) layers	67	SM		
	<u>Hardcore blinding</u>				
1.11	50 mm Thick approved lean mix blinding to surfaces of hardcore	67	SM		
	<u>Polythene underlay</u>				
1.12	Gauge 500 polythene underlay laid on hardcore blinding	67	SM		
<b>PAGE 4 CARRIED TO COLLECTION</b>					

PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<u>Antitermite treatment</u>				
1.13	Approved anti-termite treatment with 10years guarantee	67	SM		
	<u>50mm thick mass concrete (1:4:8) in:-</u>				
1.14	Blinding under strip foundation	20	SM		
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
1.15	Strip foundation	4	CM		
1.16	150mm thick floor slab	65	SM		
1.17	150mm thick Ramp	6	SM		
	<u>Sawn formwork to:-</u>				
1.18	Sides: strip foundation	7	SM		
1.19	Edges: slabs over 75 but not exceeding 150 mm girth	36	LM		
	<u>Reinforcement (Remeasured)</u>				
	<u>High tensile square twisted steel bars to B.S. 4441</u>				
1.20	8mm dia bars	20	Kgs		
1.21	10mm dia bars	31	Kgs		
	<u>Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett- allow for laps</u>				
1.22	Fabric ref. A142 weighing 2.22kg/ sq.metre,in surface bed.	65	SM		
	<u>Approved Natural Stonework; roughly squared; bedded in cement and sand mortar (1:4); 25mm wide x 20 Gauge hoop iron strapping every alternate courses</u>				
1.23	200mm thick walls	40	SM		
	<u>Render to plinth Finishes</u>				
1.24	12mm thick cement/ sand render	9	SM		
	<u>Paintwork</u>				
1.25	Prepare and apply three coats of black bituminous paint to plinth	9	SM		
<b>PAGE 5 CARRIED TO COLLECTION</b>					

PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<p><b><u>COLLECTION</u></b></p> <p><b>From page 4</b></p> <p><b>From page 5 (above)</b></p>				
	<b>TOTAL FOR SUBSTRUCTURE CARRIED TO SUMMARY</b>				



PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<p><b><u>ELEMENT No. 2</u></b>  <b><u>REINFORCED CONCRETE (R.C) WORKS</u></b>  <u>In situ reinforced concrete class 20/20: vibrated: in</u></p>				
2.1	Ring beams	2	CM		
	<u>High tensile, square twisted bar reinforcement to BS 4461</u>				
2.2	8mm dia bars	52	Kgs		
2.3	12mm dia bars	60	Kgs		
	<u>Sawn formwork as described to:-</u>				
2.4	Sides of ring beam	18	SM		
<b>TOTAL FOR R.C WORKS CARRIED TO SUMMARY</b>					

**PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b><u>ELEMENT No. 3</u></b> <b><u>WALLING</u></b> <u>Dressed Natural stone jointed and bedded in cement and sand mortar (1:4) as described in:-</u>				
3.1	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	87	SM		
	<u>Gable walls</u>				
3.2	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	9	SM		
	<u>Dump proof course</u>				
3.3	200mm wide "Pluvex" or other equal and approved dumproof course laid and bedded in and including cement and sand mortar (1:4)	32	LM		
	<b>TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY</b>				

PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b><u>ELEMENT No. 4</u></b>				
	<b><u>ROOF: ROOF STRUCTURE</u></b>				
	<u>All in sawn cypress: second grade: clean: treated with approved wood preservative: including jointing and connections as necessary</u>				
	<b><u>The following in Roof Support</u></b>				
4.1	150 x 50 mm Rafters	65	LM		
4.2	150 x 50 mm Kingpost	12	LM		
4.3	150 x 50 Tie beam	57	LM		
4.4	100 x 50 Internal Members	78	LM		
	<b><u>Common Members</u></b>				
4.5	50 x 50 mm purlins	115	LM		
4.6	Ditto; Wall plate: fixed to concrete or masonry with approved bolts at 1000 mm centres	36	LM		
4.7	G28 IT5 roofing sheets fixed to timber purlins with approved nails	92	SM		
4.8	Ditto ridge caps	8	LM		
	<b><u>RAINWATER GOODS</u></b>				
	<u>26 gauge, galvanised iron sheet with one coat red oxide primer before fixing as described in:</u>				
4.9	150 x 200 mm box gutter, fixed to timber fascia (m.s.) with approved straps	18	LM		
4.10	Extra over ditto for 100 mm diameter nozzle outlet.	2	NO		
4.11	Ditto, but for stopped ends	2	NO		
4.12	Ditto but for bend	2	NO		
4.13	100 mm diameter rain water down pipe fixed to masonry with approved holderbats	11	LM		
4.14	Extra over ditto for swan-neck	2	NO		
4.15	Ditto, but for shoe	2	NO		
	<b><u>EAVES FINISHES</u></b>				
	<u>Wrot cypress: prime grade</u>				
4.16	225 x 25 mm Fascia/barge board	28	LM		
	<u>Prepare and apply three coats gloss oil paint on:-</u>				
4.17	Surfaces of woodwork, 200 - 300 mm girth externally	28	LM		
4.18	External metal surfaces of large pipe	11	LM		
4.19	General metal surfaces of gutters	18	LM		
4.20	Extra for bend	2	NO		
4.21	Extra for shoe	2	NO		
	<b>TOTAL FOR ROOF AND RAINWATER GOODS CARRIED TO SUMMARY</b>				

PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<p><b><u>ELEMENT NO. 5</u></b>  <b><u>WINDOWS</u></b>  <b><u>Casements</u></b>  <u>Steel casement windows purpose made primed steel complete in opening and fixed lights complete with fasteners and stays ;steel lugs built into stone work and complete with burglar proofing in 15 mm diamond patten solid bars with circular top to architects approval.</u></p>				
5.1	Window size 1800 x 1500 mm high	2	No.		
5.2	Ditto 2100 x 900 mm high	2	No.		
	<b><u>Glazing</u></b>				
5.3	4 mm thick clear sheet glass and glazing to metal with metallic putty in different panes	12	SM		
	<b><u>Painting</u></b>				
5.4	Prepare and apply three coats of gloss oil paint to metal surfaces of windows; internally	12	SM		
5.5	Ditto; externally	12	SM		
	<b>TOTAL FOR WINDOWS CARRIED TO SUMMARY</b>				
	<p><b><u>ELEMENT No. 6</u></b>  <b><u>DOORS</u></b>  <u>Metal Door: Supply and fix mild steel door complete with frames, stiles, rails and hinges; locking accessories; one coat of red oxide primer before fixing:-</u></p>				
6.1	50 mm thick single leaf door size 900 x 2400 mm high	1	No.		
	<b><u>Ironmongery</u></b>				
6.2	38mm rubber door stops as described	1	No.		
	<b><u>Painting</u></b>				
6.3	Prepare and apply three coats of gloss oil to metal surfaces	4	SM		
	<b>TOTAL FOR DOORS CARRIED TO SUMMARY</b>				

PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b><u>ELEMENT NO. 7 FINISHES</u></b>				
	<b><u>WALL FINISHES</u></b>				
	<b><u>EXTERNAL</u></b>				
	<u>Key pointing</u>				
7.1	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	87	SM		
	<u>19mm thick render as described to:</u>				
7.2	Ring beam masonry work	18	SM		
	<u>Paintwork</u>				
7.3	Prepare and apply three coats external plastic emulsion paint to ring beam	29	SM		
	<b><u>INTERNAL</u></b>				
	<u>Gauged plaster 1:1:9 as described to:</u>				
7.4	Walls and concrete surfaces internally (walls and ring beam)	77	SM		
	<u>Paintwork</u>				
7.5	Prepare and apply three coats plastic emulsion paint to plastered surfaces.	77	SM		
	<b><u>FLOOR FINISHES</u></b>				
	<b><u>Internal Finishes</u></b>				
	<u>Steel trowelled cement and sand screed (1:4) in:</u>				
7.6	32mm thick Coloured screed smooth finish	66	SM		
	<b>TOTAL FOR FINISHES CARRIED TO SUMMARY</b>				
	<b><u>ELEMENT NO. 8 EXTERNAL WORKS</u></b>				
	<b><u>Paving slabs:-</u></b>				
8.1	600×600mm pre-cast concrete slabs including excavating, carting away, levelling bottom, laying and compacting 150mm murrum bed, anti-termite treatment and 50mm thick quarry dust blinding.	21	SM		
8.2	50MM CHS verandah steel post support 2100mm	5	PCS		
8.3	Supply and install 10,000litre water tank complete with base and fixing accessories	1	NO		
	<b>TOTAL FOR EXTERNAL WORKS CARRIED TO SUMMARY</b>				

**PROPOSED ECDE CLASSROOMS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Ksh)</b>	<b>AMOUNT (Ksh)</b>
	<b>SUMMARY OF BUILDERS WORK</b>				
1	SUBSTRUCTURES	1	Unit		
2	REINFORCED CONCRETE WORKS	1	Unit		
3	WALLING	1	Unit		
4	ROOFING	1	Unit		
5	WINDOWS	1	Unit		
6	DOORS	1	Unit		
7	FINISHES	1	Unit		
8	EXTERNAL WORKS	1	Unit		
	<b>TOTAL COST ESTIMATE FOR ONE CLASS</b>				
	Number of Classrooms	2	No		
	<b>GRAND TOTAL COST FOR TWO CLASSROOMS</b>				

**GIRL'S LATRINE BLOCK  
CONSTRUCTION WORKS**

**PROPOSED GIRLS LATRINE BLOCK FOR  
LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Ksh)</b>	<b>AMOUNT (Ksh)</b>
	<b><u>SUBSTRUCTURE WORKS (ALL PROVISIONAL)</u></b>				
	<u>Excavations</u>				
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	26	SM		
B	Excavation to reduced level commencing from ground level 300mm deep and not exceeding 1500mm	20	SM		
C	Latrine pit excavation measuring 4.9m*2.6m*4m deep commencing from reduced level	51	CM		
D	Excavate for strip foundations not exceeding 1500 mm deep commencing from reduced level	6	CM		
E	Extra over all excavations and earthworks for breaking up rock where encountered	1	CM		
F	Plank and strut to uphold sides of excavations: keep excavations free from all fallen material	1	Item		
G	Keep excavations free from ground and surface water	1	Item		
H	Load and cart away surplus excavated material from site	60	CM		
I	Return, fill and ram excavated material around	8	CM		
	<b>TOTAL PAGE 14 CARRIED TO COLLECTION</b>				



**PROPOSED GIRLS LATRINE BLOCK FOR  
LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
A	<u>In situ reinforced concrete class 20/20: vibrated: in</u> Strip foundation	3	CM		
B	<u>Approved Natural Stonework; roughly squared; bedded in cement and sand mortar (1:4); 25mm wide x 20 Gauge hoop iron strapping every alternate courses</u> 200mm thick walls around the latrine pit	68	SM		
	<u>200mmx300mm ring beam with 4Y12 reinforcement bars at mid- height on pit wall. In situ reinforced concrete class 20/20 vibrated as described in:</u>				
C	200mm*300mm RC beams (mid-wall)	1	CM		
D	150mm thick floor slab	17	SM		
E	200mm*400mm RC beams (at ground slab)	1	CM		
	<u>Sawn formwork to:-</u>				
F	Sides: strip foundation	8	SM		
G	Sides and soffittes of beams	12	SM		
H	Soffittes of slab	12	SM		
I	Edges: slabs over 75 but not exceeding 150 mm girth	17	LM		
	<u>High tensile square twisted steel bars to B.S. 4441</u>				
J	8mm dia bars	99	Kgs		
K	10mm dia bars	179	Kgs		
L	12mm dia bars	131	Kgs		
M	16mm dia bars	80	Kgs		
N	Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett- allow for laps. Fabric ref. A142 weighing 2.22kg/sq. metre in surface bed	17	SM		
	<u>Approved Natural Stonework; roughly squared; bedded in cement and sand mortar (1:4); 25mm wide x 20 Gauge hoop iron strapping every alternate courses</u>				
O	100mm thick walls (superstructure)	36	SM		
<b>TOTAL PAGE 15 CARRIED TO COLLECTION</b>					

**PROPOSED GIRLS LATRINE BLOCK FOR  
LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
A	<u>Render to plinth Finishes</u> 12mm thick cement/ sand render	5	SM		
B	<u>Paintwork</u> Prepare and apply three coats of black bituminous paint to plinth render	5	SM		
<b><u>REINFORCED CONCRETE (R.C) WORKS</u></b>					
<u>Insitu reinforced concrete class 20/20: vibrated: in</u>					
C	Ring beams	1	CM		
<u>High tensile, square twisted bar reinforcement to BS 4461</u>					
D	8mm dia bars	25	Kgs		
E	12mm dia bars	72	Kgs		
<u>Sawn formwork as described to:-</u>					
F	Sides of ring beam	12	SM		
<u>Damp proof course</u>					
G	150mm wide "Pluvex" or other equal and approved dumproof course laid and bedded in and including cement and sand mortar (1:4)	10	LM		
<b><u>ROOF STRUCTURE</u></b>					
<u>All in sawn cypress: second grade: clean: treated with approved wood preservative: including jointing and connections as necessary</u>					
<b><u>The following in Roof Support</u></b>					
H	100 x 50mm rafters	18	LM		
I	150 x 25mm fascia board	14	LM		
J	75 x 50mm Ditto; Wall plate: fixed to concrete or masonry with approved bolts at 1000 mm centres	10	LM		
K	G28 IT5 roofing sheets fixed to timber purlins with approved nails	12	SM		
<b>TOTAL PAGE 16 CARRIED TO COLLECTION</b>					

**PROPOSED GIRLS LATRINE BLOCK FOR  
LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Ksh)</b>	<b>AMOUNT (Ksh)</b>
	<p><b><u>WINDOWS</u></b></p> <p><b><u>Casements</u></b></p> <p><u>Steel casement windows purpose made primed steel complete in opening and fixed lights complete with fasteners and stays; steel lugs built into stone work to client's approval</u></p>				
N	Window size 600 x 600 mm high	5	No.		
	<p><b><u>Glazing</u></b></p> <p>4 mm thick clear sheet glass and glazing to metal with metallic putty in different panes</p>	2	SM		
<b>TOTAL PAGE 17 CARRIED TO COLLECTION</b>					

**PROPOSED GIRLS LATRINE BLOCK FOR  
LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<u>Painting</u>				
A	Prepare and apply three coats of gloss oil paint to metal surfaces of windows; internally	2	SM		
B	Ditto; externally	2	SM		
	<b><u>DOORS</u></b>				
	<u>Metal Door:</u> <u>Supply and fix mild steel door complete with frames, stiles, rails and hinges; Locking accessories; one coat of red oxide primer before fixing:-</u>				
C	50mm thick single leaf door size 800 x 2100 mm high	5	No.		
	<u>Ironmongery</u>				
D	38mm rubber door stops as described	5	No.		
	<u>Painting</u>				
E	Prepare and apply three coats of gloss oil to metal surfaces	15	SM		
	<b><u>WALL FINISHES</u></b>				
	<u>EXTERNAL</u>				
	<u>Key pointing</u>				
F	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	26	SM		
	<u>19mm thick render as described to:</u>				
G	Ring beam masonry work	4	SM		
	<u>Paintwork</u>				
H	Prepare and apply three coats external plastic emulsion paint to ring beam	4	SM		
	<u>INTERNAL</u>				
	<u>Gauged plaster 1:1:9 as described to:</u>				
I	Walls and concrete surfaces internally (walls and ring beam)	55	SM		
	<u>Paintwork</u>				
J	Prepare and apply three coats plastic emulsion paint to plastered surfaces.	55	SM		
K	Supply and fix 100mm diam vent pipe	3	M		
<b>TOTAL PAGE 18 CARRIED TO COLLECTION</b>					

**PROPOSED GIRLS LATRINE BLOCK FOR  
LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Ksh)</b>	<b>AMOUNT (Ksh)</b>
	<b><u>FLOOR FINISHES: Internal Finishes</u></b>				
	<u>Steel trowelled cement and sand screed (1:4) in:</u>				
A	32mm thick Coloured screed smooth finish	13	SM		
B	Connection of urinal unit including complete drainage	1	Unit		
	<b>TOTAL PAGE 19 CARRIED TO COLLECTION</b>				
	<b>SUMMARY OF BUILDERS WORK</b>				
1	PAGE 14 COLLECTION				
2	PAGE 15 COLLECTION				
3	PAGE 16 COLLECTION				
4	PAGE 17 COLLECTION				
5	PAGE 18 COLLECTION				
6	PAGE 19 ABOVE				
	<b>TOTAL COST ESTIMATE FOR LATRINES</b>				
	<b>GRAND TOTAL COST FOR LATRINES</b>				

**BOY'S LATRINE BLOCK  
CONSTRUCTION WORKS**

PROPOSED BOYS LATRINE BLOCK FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
<b><u>SUBSTRUCTURE WORKS (ALL PROVISIONAL)</u></b>					
<u>Excavations</u>					
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	26	SM		
B	Excavation to reduced level commencing from ground level 300mm deep and not exceeding 1500mm	20	SM		
C	Latrine pit excavation measuring 4.9m*2.6m*4m deep commencing from reduced level	51	CM		
D	Excavate for strip foundations not exceeding 1500 mm deep commencing from reduced level	6	CM		
E	Extra over all excavations and earthworks for breaking up rock where encountered	1	CM		
F	Plank and strut to uphold sides of excavations: keep excavations free from all fallen material	1	Item		
G	Keep excavations free from ground and surface water	1	Item		
H	Load and cart away surplus excavated material from site	60	CM		
I	Return, fill and ram excavated material around	8	CM		
<b>TOTAL PAGE 21 CARRIED TO COLLECTION</b>					

PROPOSED BOYS LATRINE BLOCK FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
A	<p><u>Insitu reinforced concrete class 20/20: vibrated: in</u> Strip foundation</p> <p><u>Approved Natural Stonework; roughly squared; bedded in cement and sand mortar (1:4); 25mm wide x 20 Gauge hoop iron strapping every alternate courses</u></p>	3	CM		
B	<p>200mm thick walls around the latrine pit</p> <p><u>200mmx300mm ring beam with 4Y12 reinforcement bars at mid-height on pit wall. Insitu reinforced concrete class 20/20 vibrated as described in:</u></p>	68	SM		
C	200mm*300mm RC beams (mid-wall)	1	CM		
D	150mm thick floor slab	17	SM		
E	200mm*400mm RC beams (at ground slab)	1	CM		
	<u>Sawn formwork to:-</u>				
F	Sides: strip foundation	8	SM		
G	Sides and soffittes of beams	12	SM		
H	Soffittes of slab	12	SM		
I	Edges: slabs over 75 but not exceeding 150 mm girth	17	LM		
	<u>High tensile square twisted steel bars to B.S. 4441</u>				
J	8mm dia bars	99	Kgs		
K	10mm dia bars	179	Kgs		
L	12mm dia bars	131	Kgs		
M	16mm dia bars	80	Kgs		
N	<p>Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett-allow for laps. Fabric ref. A142 weighing 2.22kg/sq. metre in surface bed</p> <p><u>Approved Natural Stonework; roughly squared; bedded in cement and sand mortar (1:4); 25mm wide x 20 Gauge hoop iron strapping every alternate courses</u></p>	17	SM		
O	100mm thick walls (superstructure)	36	SM		
<b>TOTAL PAGE 22 CARRIED TO COLLECTION</b>					



PROPOSED BOYS LATRINE BLOCK FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
A	<u>Render to plinth Finishes</u> 12mm thick cement/ sand render	5	SM		
B	<u>Paintwork</u> Prepare and apply three coats of black bituminous paint to plinth render	5	SM		
<b><u>REINFORCED CONCRETE (R.C) WORKS</u></b>					
<u>Insitu reinforced concrete class 20/20: vibrated: in</u>					
C	Ring beams	1	CM		
<u>High tensile, square twisted bar reinforcement to BS 4461</u>					
D	8mm dia bars	25	Kgs		
E	12mm dia bars	72	Kgs		
<u>Sawn formwork as described to:-</u>					
F	Sides of ring beam	12	SM		
<u>Damp proof course</u>					
G	150mm wide "Pluvex" or other equal and approved dumproof course laid and bedded in and including cement and sand mortar (1:4)	10	LM		
<b><u>ROOF STRUCTURE</u></b>					
<u>All in sawn cypress: second grade: clean: treated with approved wood preservative: including jointing and connections as necessary</u>					
<b><u>The following in Roof Support</u></b>					
H	100 x 50mm rafters	18	LM		
I	150 x 25mm fascia board	14	LM		
J	75 x 50mm Ditto; Wall plate: fixed to concrete or masonry with approved bolts at 1000 mm centres	10	LM		
K	G28 IT5 roofing sheets fixed to timber purlins with approved nails	12	SM		
<b>TOTAL PAGE 23 CARRIED TO COLLECTION</b>					

PROPOSED BOYS LATRINE BLOCK FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<p><b><u>WINDOWS</u></b></p> <p><b><u>Casements</u></b></p> <p><u>Steel casement windows purpose made primed steel complete in opening and fixed lights complete with fasteners and stays; steel lugs built into stone work to client's approval</u></p>				
N	Window size 600 x 600 mm high	4	No.		
	<p><b><u>Glazing</u></b></p> <p>4 mm thick clear sheet glass and glazing to metal with metallic putty in different panes</p>				
O		2	SM		
<b>TOTAL PAGE 24 CARRIED TO COLLECTION</b>					

PROPOSED BOYS LATRINE BLOCK FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<u>Painting</u>				
A	Prepare and apply three coats of gloss oil paint to metal surfaces of windows; internally	2	SM		
B	Ditto; externally	2	SM		
	<b><u>DOORS</u></b>				
	<u>Metal Door:</u> <u>Supply and fix mild steel door complete with frames, stiles, rails and hinges; Locking accessories; one coat of red oxide primer before fixing:-</u>				
C	50mm thick single leaf door size 800 x 2100 mm high	4	No.		
	<u>Ironmongery</u>				
D	38mm rubber door stops as described	4	No.		
	<u>Painting</u>				
E	Prepare and apply three coats of gloss oil to metal surfaces	13	SM		
	<b><u>WALL FINISHES</u></b>				
	<u>EXTERNAL</u>				
	<u>Key pointing</u>				
F	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	26	SM		
	<u>19mm thick render as described to:</u>				
G	Ring beam masonry work	4	SM		
	<u>Paintwork</u>				
H	Prepare and apply three coats external plastic emulsion paint to ring beam	4	SM		
	<u>INTERNAL</u>				
	<u>Gauged plaster 1:1:9 as described to:</u>				
I	Walls and concrete surfaces internally (walls and ring beam)	55	SM		
	<u>Paintwork</u>				
J	Prepare and apply three coats plastic emulsion paint to plastered surfaces.	55	SM		
K	Supply and fix 100mm diam vent pipe	3	M		
<b>TOTAL PAGE 25 CARRIED TO COLLECTION</b>					

PROPOSED BOYS LATRINE BLOCK FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b><u>FLOOR FINISHES: Internal Finishes</u></b>				
A	<u>Steel trowelled cement and sand screed (1:4) in:</u> 32mm thick Coloured screed smooth finish	13	SM		
B	Connection of urinal unit including complete drainage	1	Unit		
<b>TOTAL PAGE 26 CARRIED TO COLLECTION</b>					
	<b>SUMMARY OF BUILDERS WORK</b>				
1	PAGE 21 COLLECTION				
2	PAGE 22 COLLECTION				
3	PAGE 23 COLLECTION				
4	PAGE 24 COLLECTION				
5	PAGE 25 COLLECTION				
6	PAGE 26 ABOVE				
<b>TOTAL COST ESTIMATE FOR LATRINES</b>					
<b>GRAND TOTAL COST FOR LATRINES</b>					

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# **DINING-HALL BLOCK CONSTRUCTION WORKS**

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PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
<b><u>SUBSTRUCTURE WORKS (ALL PROVISIONAL)</u></b>					
<u>Excavations</u>					
A	Clearing site of all bushes, shrubs, undergrowth and the like; small trees not exceeding 600mm girth; disposing arisings	120	SM		
B	Excavation to reduced level commencing from ground level 300mm deep and not exceeding 1500mm	80	SM		
C	Excavate for strip foundations not exceeding 1500 mm deep commencing from reduced level	15	CM		
D	Extra over all excavations and earthworks for breaking up rock where encountered	1	CM		
E	Plank and strut to uphold sides of excavations: keep excavations free from all fallen material	1	Item		
F	Keep excavations free from ground and surface water	1	Item		
G	Load and cart away surplus excavated material from site	93	CM		
H	Return, fill and ram excavated material around	6	CM		
<u>Level surfaces</u>					
I	Level and compact for strip foundation	10	SM		
<u>Hardcore filling</u>					
J	300mm thick hardcore or other approved inert material: well watered and compacted in 150 mm thick (maximum) layers	67	SM		
<u>Hardcore blinding</u>					
K	50 mm Thick approved lean mix blinding to surfaces of hardcore	67	SM		
<u>Polythene underlay</u>					
L	Gauge 500 polythene underlay laid on hardcore blinding	67	SM		
<b>PAGE 28 CARRIED TO COLLECTION</b>					<b>0.00</b>

PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<u>Antitermite treatment</u>				
A	Approved anti-termite treatment with 10years guarantee	67	SM		
	<u>50mm thick mass concrete (1:4:8) in:-</u>				
B	Blinding under strip foundation	20	SM		
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
C	Strip foundation	4	CM		
D	150mm thick floor slab	65	SM		
E	150mm thick Ramp	6	SM		
	<u>Sawn formwork to:-</u>				
F	Sides: strip foundation	7	SM		
G	Edges: slabs over 75 but not exceeding 150 mm girth	36	LM		
	<u>Reinforcement (Remeasured)</u>				
	<u>High tensile square twisted steel bars to B.S. 4441</u>				
H	8mm dia bars	20	Kgs		
I	10mm dia bars	31	Kgs		
	<u>Mesh fabric reinforcement to B.S 4483 and setting in concrete with 300mm side and end laps (measured nett- allow for laps</u>				
J	Fabric ref. A142 weighing 2.22kg/ sq.metre,in surface bed.	65	SM		
	<u>Approved Natural Stonework; roughly squared; bedded in cement and sand mortar (1:4); 25mm wide x 20 Gauge hoop iron strapping every alternate courses</u>				
K	200mm thick walls	40	SM		
	<u>Render to plinth Finishes</u>				
L	12mm thick cement/ sand render	9	SM		
	<u>Paintwork</u>				
M	Prepare and apply three coats of black bituminous paint to plinth	9	SM		
<b>PAGE 29 CARRIED TO COLLECTION</b>					

PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<p><b><u>COLLECTION</u></b></p> <p>From page 28</p> <p>From page 29 (above)</p>				
	<b>TOTAL FOR SUBSTRUCTURE CARRIED TO SUMMARY</b>				0.00



PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b><u>REINFORCED CONCRETE (R.C) WORKS</u></b>				
	<u>Insitu reinforced concrete class 20/20: vibrated: in</u>				
A	Ring beams	2	CM		
	<u>High tensile, square twisted bar reinforcement to BS 4461</u>				
B	8mm dia bars	52	Kgs		
C	12mm dia bars	60	Kgs		
	<u>Sawn formwork as described to:-</u>				
D	Sides of ring beam	18	SM		
	<b>TOTAL FOR R.C WORKS CARRIED TO SUMMARY</b>				<b>0.00</b>

PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b><u>WALLING</u></b>				
	<u>Dressed Natural stone jointed and bedded in cement and sand mortar (1:4) as described in:-</u>				
E	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	87	SM		
	<u>Gable walls</u>				
F	200mm thick walls with and including 25x3mm thick hoop iron strips every alternate course.	9	SM		
	<u>Dump proof course</u>				
G	200mm wide "Pluvex" or other equal and approved dumproof course laid and bedded in and including cement and sand mortar (1:4)	32	LM		
	<b>TOTAL FOR EXTERNAL WALLS CARRIED TO SUMMARY</b>				<b>0.00</b>

PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b><u>ROOF: ROOF STRUCTURE</u></b>				
	<u>All in sawn cypress: second grade: clean: treated with approved wood preservative: including jointing and connections as necessary</u>				
	<b><u>The following in Roof Support</u></b>				
A	150 x 50 mm Rafters	65	LM		
B	150 x 50 mm Kingpost	12	LM		
C	150 x 50 Tie beam	57	LM		
D	100 x 50 Internal Members	78	LM		
	<b><u>Common Members</u></b>				
E	50 x 50 mm purlins	115	LM		
F	Ditto; Wall plate: fixed to concrete or masonry with approved bolts at 1000 mm centres	36	LM		
G	G28 IT5 roofing sheets fixed to timber purlins with approved nails	92	SM		
H	Ditto ridge caps	8	LM		
	<b><u>RAINWATER GOODS</u></b>				
	<u>26 gauge, galvanised iron sheet with one coat red oxide primer before fixing as described in:</u>				
I	150 x 200 mm box gutter, fixed to timber fascia (m.s.) with approved straps	18	LM		
J	Extra over ditto for 100 mm diameter nozzle outlet.	2	NO		
K	Ditto, but for stopped ends	2	NO		
L	Ditto but for bend	2	NO		
M	100 mm diameter rain water down pipe fixed to masonry with approved holderbats	11	LM		
N	Extra over ditto for swan-neck	2	NO		
O	Ditto, but for shoe	2	NO		
	<b><u>EAVES FINISHES</u></b>				
	<u>Wrot cypress: prime grade</u>				
P	225 x 25 mm Fascia/barge board	28	LM		
	<u>Prepare and apply three coats gloss oil paint on:-</u>				
Q	Surfaces of woodwork, 200 - 300 mm girth externally	28	LM		
R	External metal surfaces of large pipe	11	LM		
S	General metal surfaces of gutters	18	LM		
T	Extra for bend	2	NO		
U	Extra for shoe	2	NO		
	<b>TOTAL FOR ROOF AND RAINWATER GOODS CARRIED TO SUMMARY</b>				0.00

PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<p><b><u>WINDOWS</u></b></p> <p><b><u>Casements</u></b></p> <p><u>Steel casement windows purpose made primed steel complete in opening and fixed lights complete with fasteners and stays ;steel lugs built into stone work and complete with burglar proofing in 15 mm diamond patten solid bars with circular top to architects approval.</u></p>				
A	Window size 1800 x 1500 mm high	2	No.		
B	Ditto 2100 x 900 mm high	2	No.		
	<p><b><u>Glazing</u></b></p>				
C	4 mm thick clear sheet glass and glazing to metal with metallic putty in different panes	12	SM		
	<p><b><u>Painting</u></b></p>				
D	Prepare and apply three coats of gloss oil paint to metal surfaces of windows; internally	12	SM		
E	Ditto; externally	12	SM		
	<b>TOTAL FOR WINDOWS CARRIED TO SUMMARY</b>				<b>0.00</b>
	<p><b><u>DOORS</u></b></p> <p><u>Metal Door: Supply and fix mild steel door complete with frames, stiles, rails and hinges; locking accessories; one coat of red oxide primer before fixing:-</u></p>				
F	50 mm thick single leaf door size 900 x 2400 mm high	1	No.		
	<p><b><u>Ironmongery</u></b></p>				
G	38mm rubber door stops as described	1	No.		
	<p><b><u>Painting</u></b></p>				
H	Prepare and apply three coats of gloss oil to metal surfaces	4	SM		
	<b>TOTAL FOR DOORS CARRIED TO SUMMARY</b>				<b>0.00</b>

PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b><u>FINISHES</u></b>				
	<b><u>WALL FINISHES</u></b>				
	<b><u>EXTERNAL</u></b>				
	<u>Key pointing</u>				
A	Extra over walling for horizontal recessed and flush vertical key pointed joints in cement and sand (1:4) mortar.	87	SM		
	<u>19mm thick render as described to:</u>				
B	Ring beam masonry work	18	SM		
	<u>Paintwork</u>				
C	Prepare and apply three coats external plastic emulsion paint to ring beam	29	SM		
	<b><u>INTERNAL</u></b>				
	<u>Gauged plaster 1:1:9 as described to:</u>				
D	Walls and concrete surfaces internally (walls and ring beam)	77	SM		
	<u>Paintwork</u>				
E	Prepare and apply three coats plastic emulsion paint to plastered surfaces.	77	SM		
	<b><u>FLOOR FINISHES</u></b>				
	<b><u>Internal Finishes</u></b>				
	<u>Steel trowelled cement and sand screed (1:4) in:</u>				
F	32mm thick Coloured screed smooth finish	66	SM		
	<b>TOTAL FOR FINISHES CARRIED TO SUMMARY</b>				<b>0.00</b>
	<b><u>EXTERNAL WORKS</u></b>				
	<b><u>Paving slabs:-</u></b>				
A	600×600mm pre-cast concrete slabs including excavating, carting away, levelling bottom, laying and compacting 150mm murrum bed, anti-termite treatment and 50mm thick quarry dust blinding.	21	SM		
B	50MM CHS verandah steel post support 2100mm	5	PCS		
C	Supply and install 10,000litre water tank complete with base and fixing accessories	1	NO		
	<b>TOTAL FOR EXTERNAL WORKS CARRIED TO SUMMARY</b>				

PROPOSED DINING HALL CONSTRUCTION FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b>SUMMARY OF BUILDERS WORK</b>				
1	SUBSTRUCTURES	1	Unit		
2	REINFORCED CONCRETE WORKS	1	Unit		
3	WALLING	1	Unit		
4	ROOFING	1	Unit		
5	WINDOWS	1	Unit		
6	DOORS	1	Unit		
7	FINISHES	1	Unit		
8	EXTERNAL WORKS	1	Unit		
<b>GRAND TOTAL COST FOR DINING HALL</b>					

**PERIMETER FENCE  
CONSTRUCTION WORKS**

**PROPOSED FENCING WORKS FOR LEARNERS IN LORMONG'I COMMUNITY, KAJIADO NORTH SUBCOUNTY.**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE (Ksh)</b>	<b>AMOUNT (Ksh)</b>
	<b>FENCE WORKS</b>				
	<u>External Boundary Fence</u>				
2.11	Excavate in normal soil for PCC pole holes 300mm Dia and 300mm deep and cart away arising as instructed by the project manager; spacing at 3m intervals	NO		462	
2.12	100 x 100 x 2500mm long precast concrete fencing posts with 600mm long crank; the posts to have 9 NO holes for attaching binding wire to be well anchored in the holes V.R.C mortar mix (m/s)	NO		462	
2.13	Ditto for corner, end and straining posts	NO		40	
	<u>in situ concrete class 20 (1:2:4)</u>				
2.14	Post holes	CM		15	
	<u>Barbed Wire</u>				
2.15	3 strands of 12Gauge(2.5mm) galvanized barbed wire fixed to cranked arm of the concrete posts all to required detail and specification	LM		1386	
	<u>Straining Wire</u>				
2.16	4 strands of 10G (3mm) galvanized straining wire fixed to concrete posts; all to project manager's detail	LM		1386	
	<u>Chain-link</u>				
2.17	Supply and fix 2400mm high (8ft), 12.5G (2.5mm) galvanized chain-link fence 80 x 80 mm mesh size fixed to precast concrete posts and tied to straining wire with tying wire ; the lower part of the chain link to be buried 150mm into curbing concrete to detail (m/s)	SM		3326	
	<u>Access Gates</u>				
2.18	Supply, fabricate and install approved steel gates of 2000mm x 2000mm equal leaves and 2 meters height; to be complete with frames, hinges, locks and any other necessary components; all to the satisfaction of the project manager	ITEM			
<b>GRAND TOTAL COST FOR PERIMETER FENCING</b>					



**PROPOSED CONSTRUCTION WORKS FOR LEARNERS IN LORMONG'I COMMUNITY,  
KAJIADO NORTH SUBCOUNTY.**

<b><u>GRAND SUMMARY</u></b>			
<b>ITEM</b>	<b>DESCRIPTION</b>		<b>TENDERER'S AMOUNT</b>
<b>1</b>	<b>PRELIMINARIES</b> <i>Preliminaries</i>		
<b>2</b>	<b>Builders Work</b> <i>2 ECDE Classrooms</i> <i>Girls Latrine Block</i> <i>Boys Latrine Block</i> <i>Dininig Hall</i> <i>Perimeter Fence</i>		- - - - -
	<b>Sub Total ( 16% VAT inclusive)</b>		-
<b>3</b>	<b>Contingency Sum</b>		
<b>TOTAL CARRIED TO FORM OF TENDER</b>			<b>-</b>

Amount of tender in words: Kenya Shilings.....

Tenderer's signature and stamp.....

Address.....

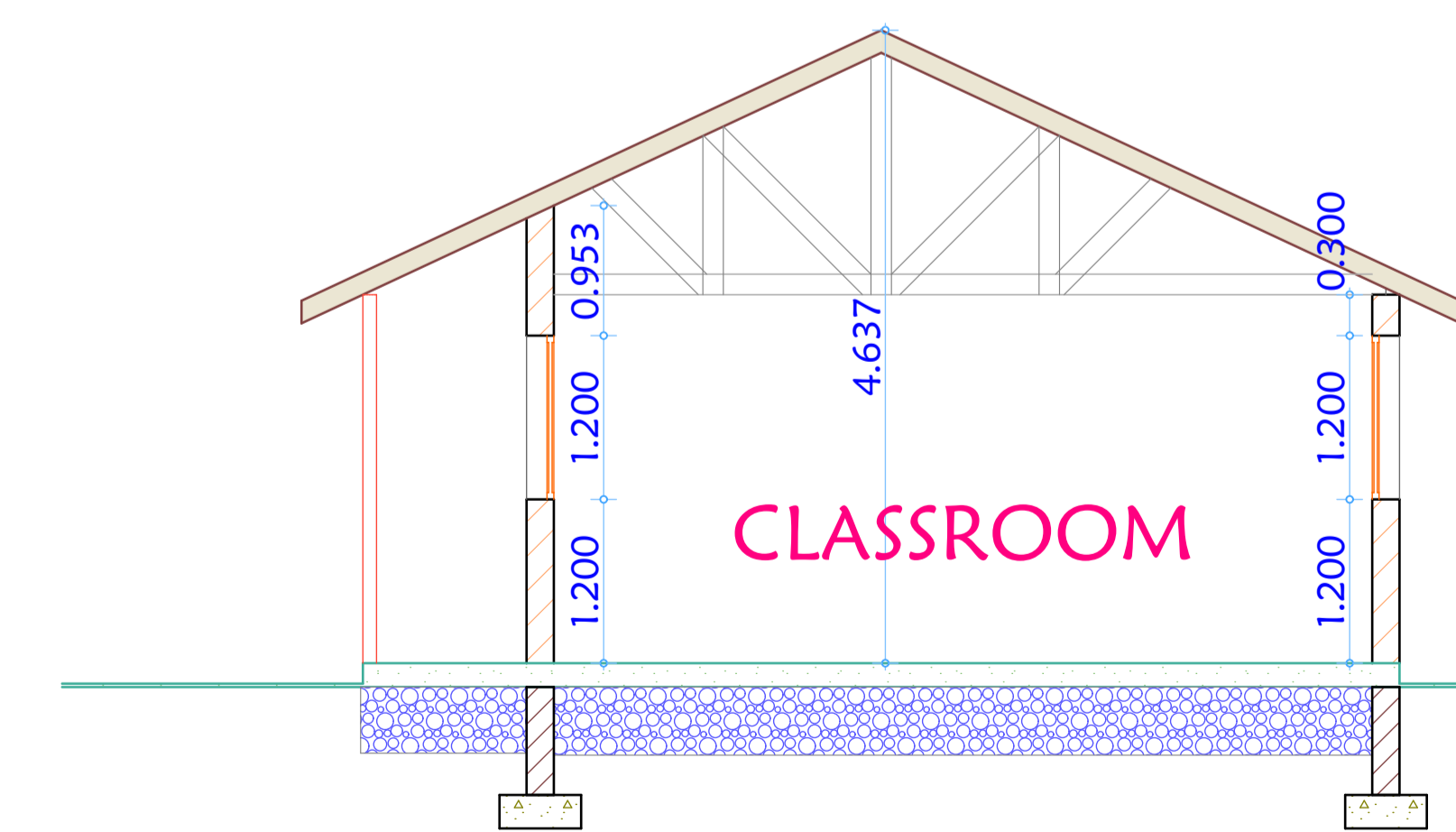
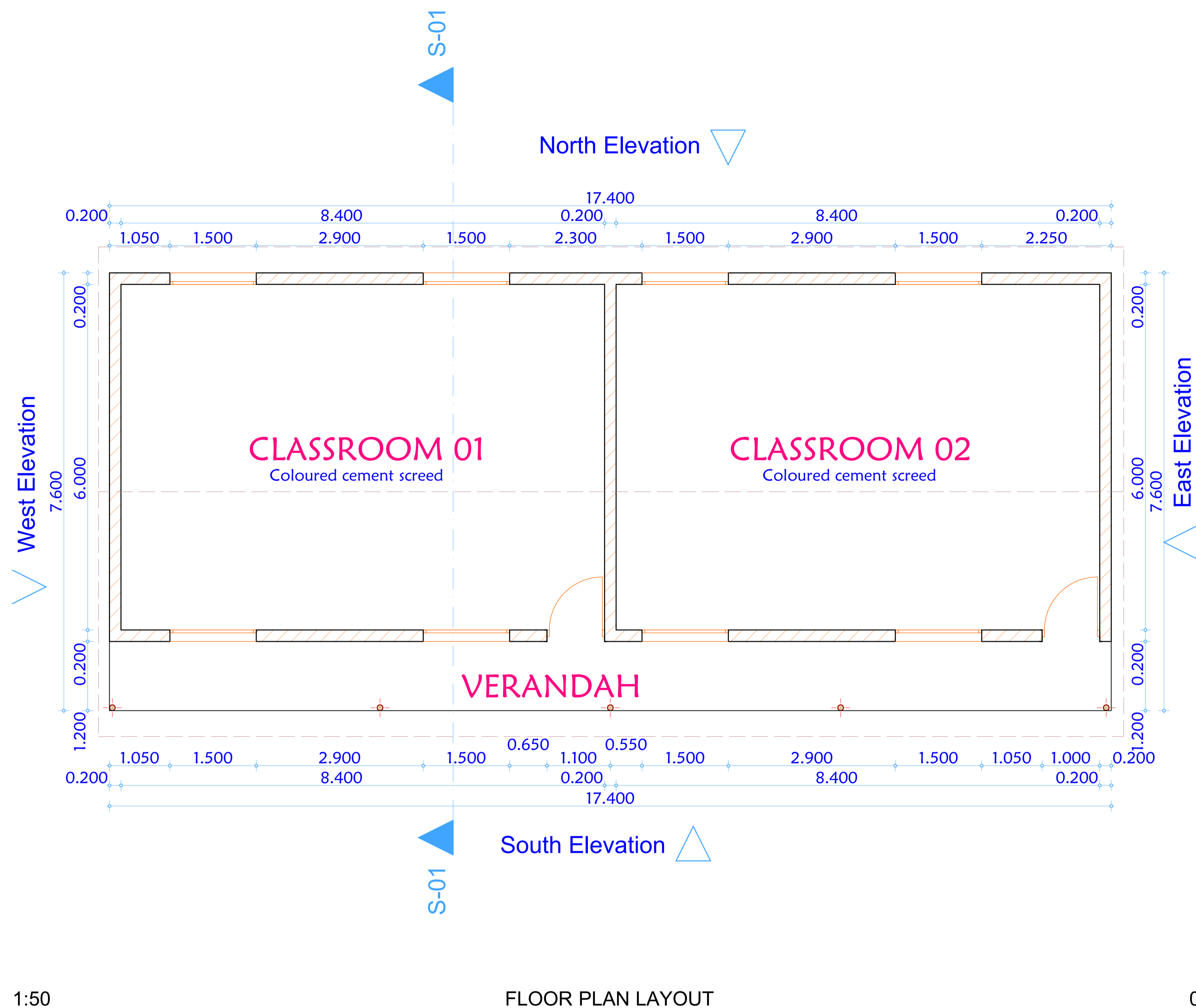
Date.....

Witness: Name and signature.....

Description.....

Address.....

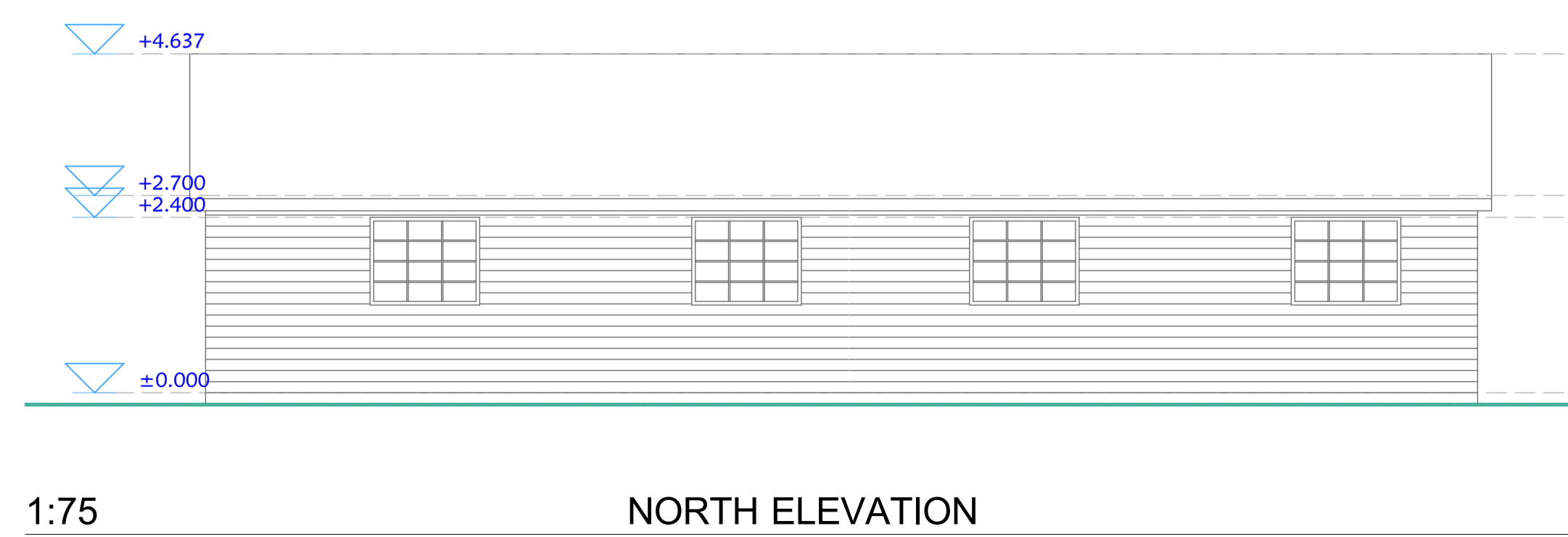
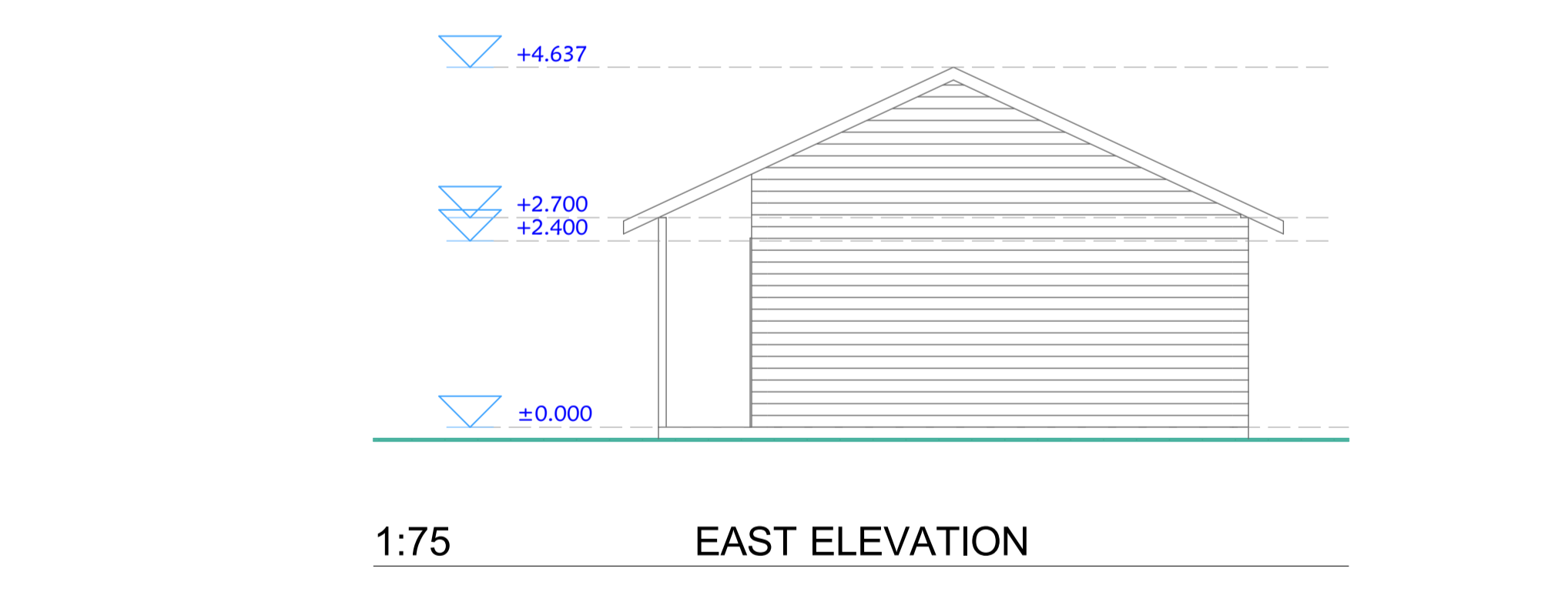
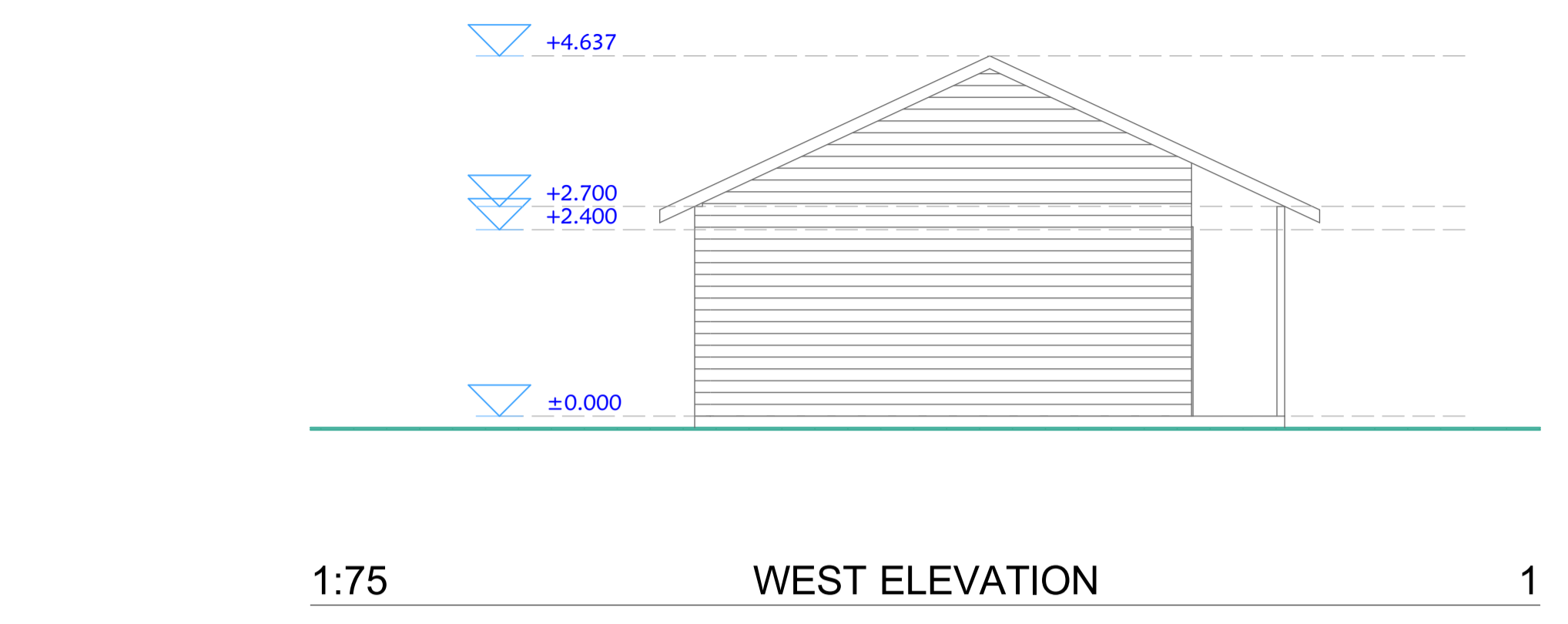
Date.....



**ROOF WORK DETAILS**  
 25° degree roof pitch  
 of 28 gauge box profile roofing  
 on 50x50mm battens on 500g polythene sheet  
 100x50mm Rafter  
 50x50mm Ceiling joist  
 100x50mm Wall plate  
 300x25mm Fascia board painted & fitted with  
 moulded plastic gutter to Stru engineer's detail

**SUPER STRUCTURE WORK DETAILS**  
 200x300mm fair finished beam to Stru eng details  
 M.S. fabricated windows to schedule  
 Interior doors as flash to schedule  
 200mm masonry walls painted cream to approval  
 M.S. parallel bar handrails to detail  
 150mm thick slab to Stru Eng's details

**SUB STRUCTURE WORK DETAILS**  
 Ceramic tile finish on 150mm thick oversite concrete  
 D.p.m on 50mm thick blinding (Murrum or quarry dust)  
 300mm thick hard-core filling in 150mm layer hand pack  
 Foundation depth as per Stru Eng's details  
 400mmx200mm thick foundation concrete on  
 50 mm blinding (Murrum or quarry dust)



- NOTES:**
- GENERAL**
- All dimensions are in mm unless otherwise specified.
  - Dimensions to be read, not scaled. Only figured dimensions to be used.
  - Contractor to check and verify all dimensions on site before commencement of any works.
- CONSTRUCTION**
- All slabs at ground level to be poured over 1000 gauge polythene sheeting on 50 mm thick murrum blinding layer which on 300 hardcore fill.
  - All soil under slabs and all around external foundations to be treated against termites.
- STRUCTURAL**
- All black cotton soil to be removed from below all building and paved surfaces.
  - All soil under slabs and all around external foundations to be treated against termites.
  - Building to be clear of black cotton soil within 3m outside the perimeter wall.
  - For all R.C works, refer to structural drawings.
  - Depth of foundation to be determined on the site to structural Engineers Approval.
- MECHANICAL**
- All plumbing and drainage to comply with local authority regulations.
  - All service ducts to be accessible from all floors.
  - SVP denotes soil vent pipe to be provided at the head of the drainage.
  - P.V permanent ventilation, to be provided on all doors and windows except bathroom and water closet doors.
  - All underground foul and waste drain pipes shall be upvc to comply with Bs 5255.
  - All inspection chamber covers and framing shall be cast iron to comply with Bs 497 table 2 grade A.
  - The storm drain pipe to comply with Bs 556 minimum slope in the drain pipes in 1%.
  - All testing of pipes must be done before plastering.

prefix	description	date

DEVELOPING PARTNERS:  
**HABITAT FOR HUMANITY KENYA, HABITAT FOR HUMANITY DEUTSCHLAND, KENYA EVANGELICAL LUTHERAN CHURCH AND MISSION EINEWELT NEUENDTALS AU**

PROJECT TITLE: **PROPOSED TWO CLASSROOMS AND TWO LATRINE BLOCKS IN KAJIADO COUNTY**

DRAWING TITLE: **WORKING DRAWINGS**

Date: 25/9/2024 Scale: As shown  
 Designed by: C.M. Drawn by: C.M.



NOTES:

**GENERAL**

- 1.All dimensions are in mm unless otherwise specified.
- 2.Dimensions to be read, not scaled.Only figured dimensions to be used.
- 3.Contractor to check and verify all dimensions on site before commencement of any works.

**CONSTRUCTION**

- 1.All slabs at ground level to be poured over 1000 gauge polythene sheeting on 50 mm thick murrum bliding layer which on 300 hardcore fill.
- 2.All soil under slabs and all around external foundations to be treated against termites.

**STRUCTURAL**

- 1.All black cotton soil to be removed from below all building and paved surfaces.
- 2.All soil under slabs and all around external foundations to be treated against termites.
- 3.For all R.C works, refer to structural drawings.
- 4.Depth of foundation to be determined on the site to structural Engineers Approval.

**MECHANICAL**

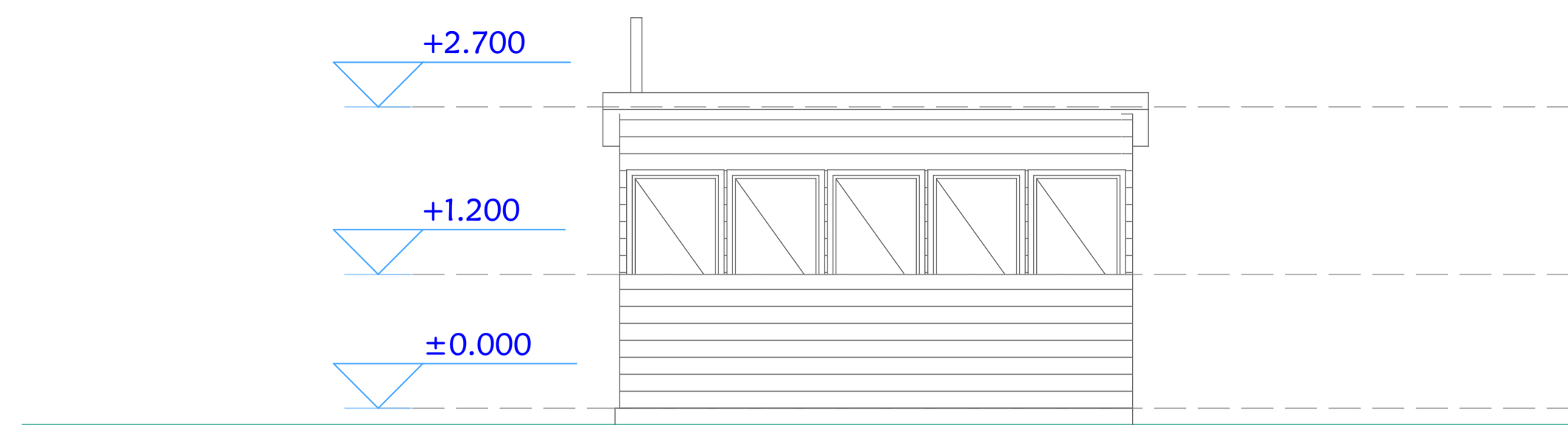
- 1.All plumbing and drainage to comply with local authority regulations.
- 2.All service ducts to be accessible from all floors .
- 3.SVP denotes soil vent pipe to be provided at the head of the drainage.
- 4.P.V permanent ventilation, to be provided on

- 5.All underground foul and waste drain pipes shall be upvc to comply with Bs 5255.
- 6.All inspection chamber covers and framing shall be cast iron to comply with Bs 497 table 2 grade A.
- 7.The storm drain pipe to comply with Bs 556 minimum slope in the drain pipes in 1%.
- 8.All testing of pipes must be done before plastering.

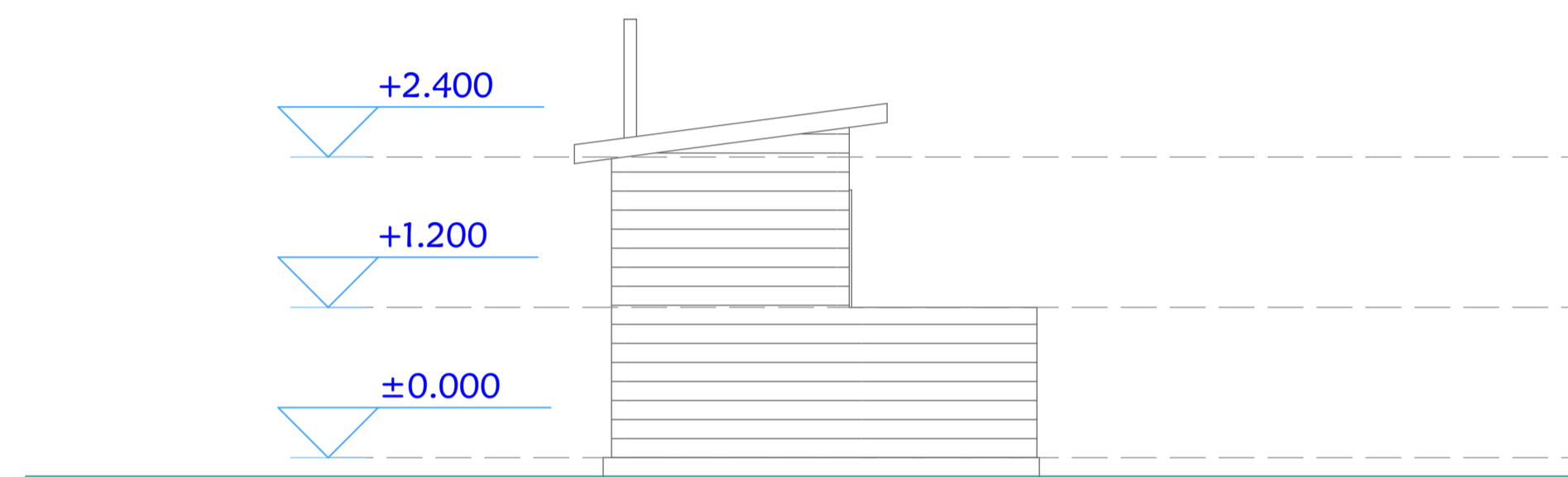
prefix	description	date

DEVELOPING PARTNERS:  
**HABITAT FOR HUMANITY KENYA, HABITAT FOR HUMANITY DEUTSCHLAND, KENYA**  
**EVANGELICAL LUTHERAN CHURCH AND MISSION EINEWELT NEUENDTALS AU**

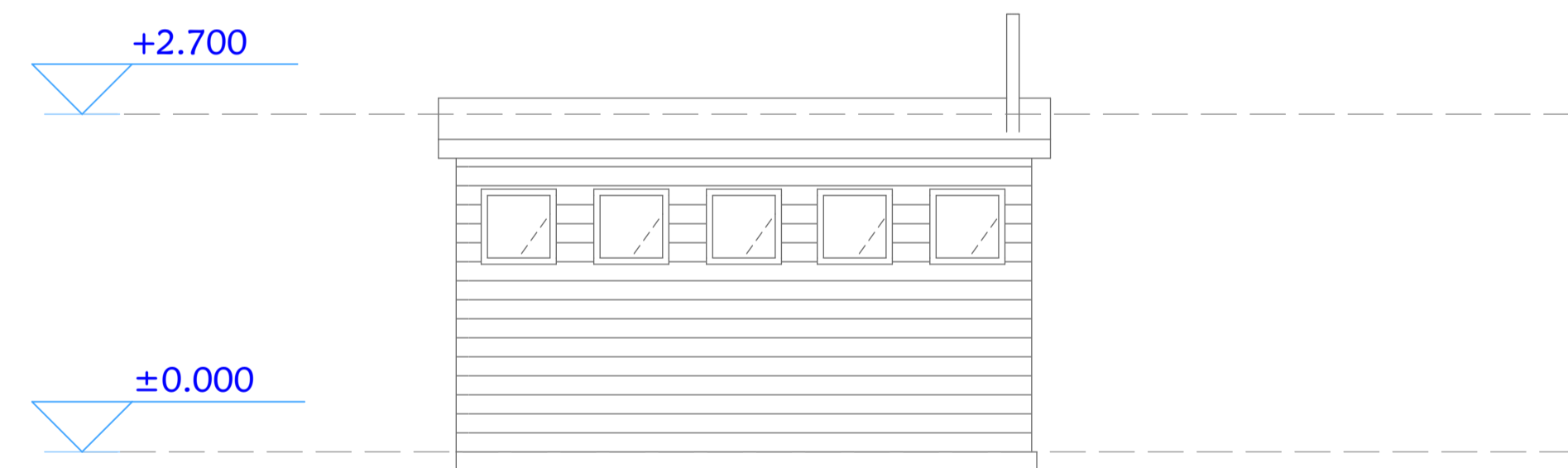
PROJECT TITLE:	<b>PROPOSED TWO CLASSROOMS AND TWO LATRINE BLOCKS IN KAJIADO COUNTY</b>
DRAWING TITLE:	WORKING DRAWINGS
Date: 25/9/2024	Scale: As shown
Designed by: C.M.	Drawn by: C.M.



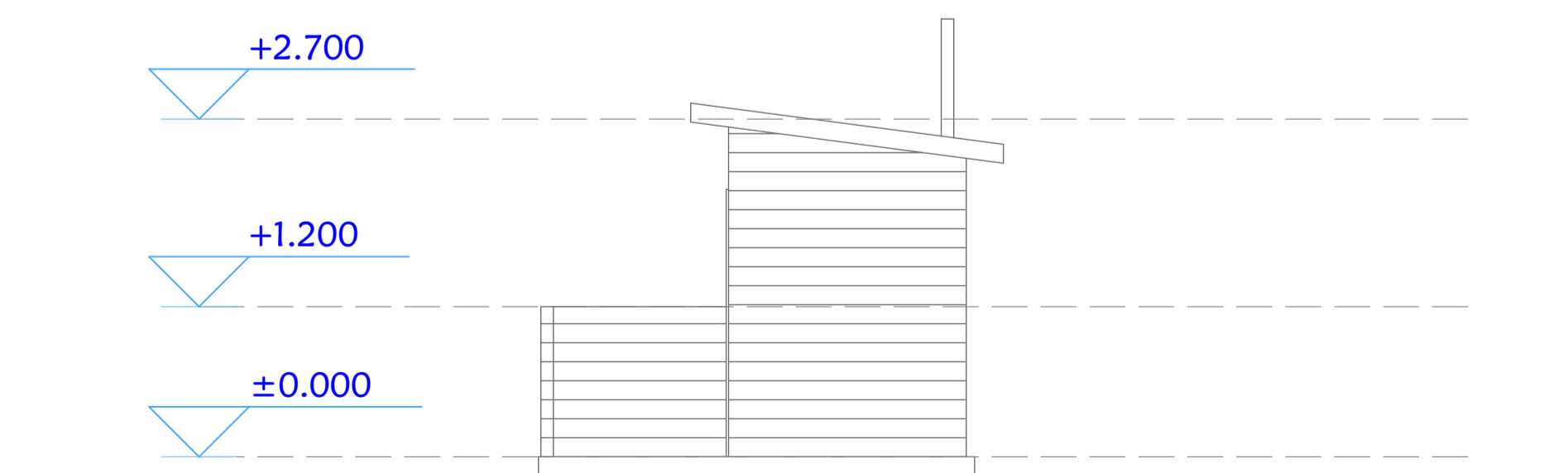
1:50 FRONT ELEVATION



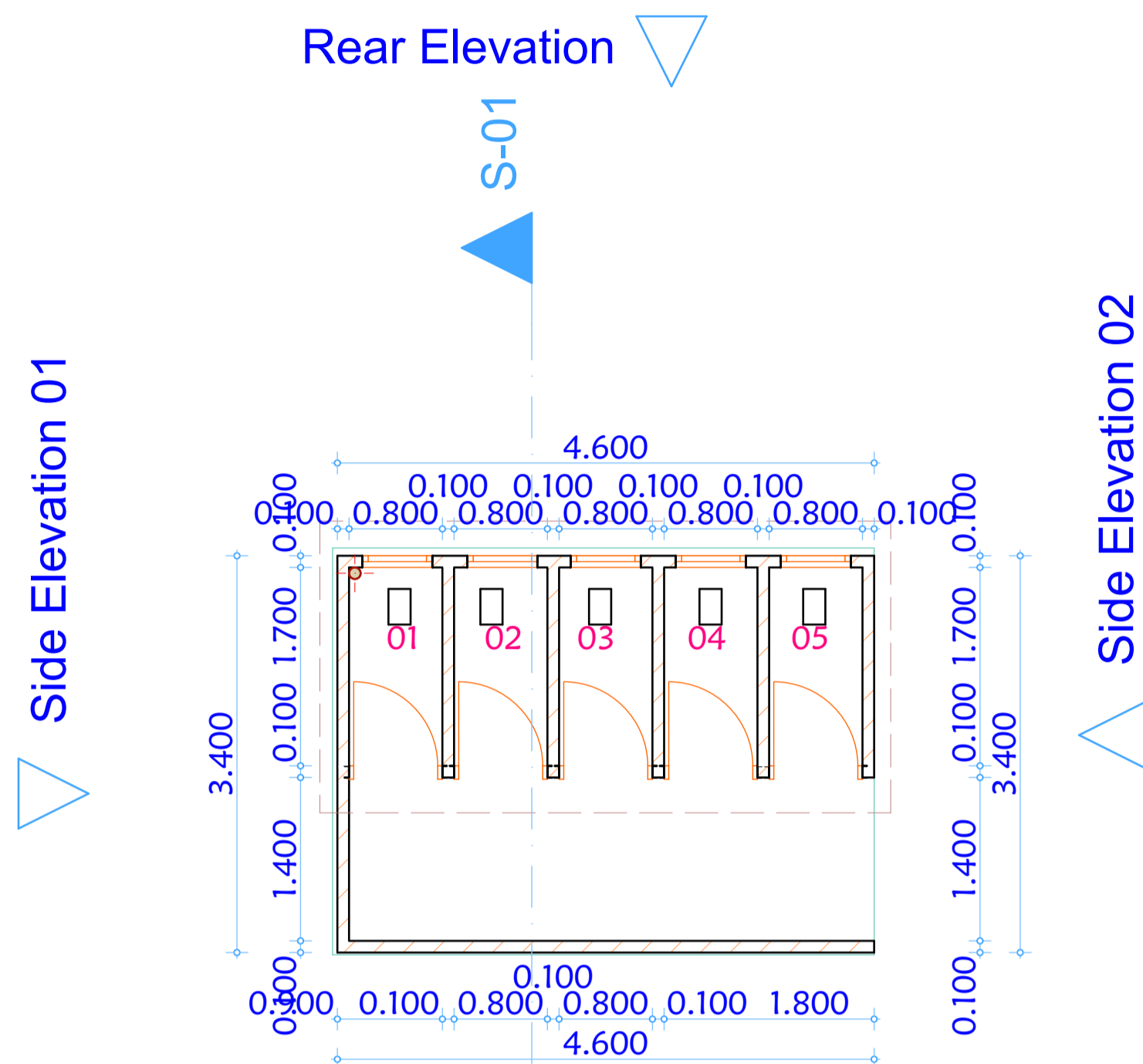
1:50 SIDE ELEVATION 01



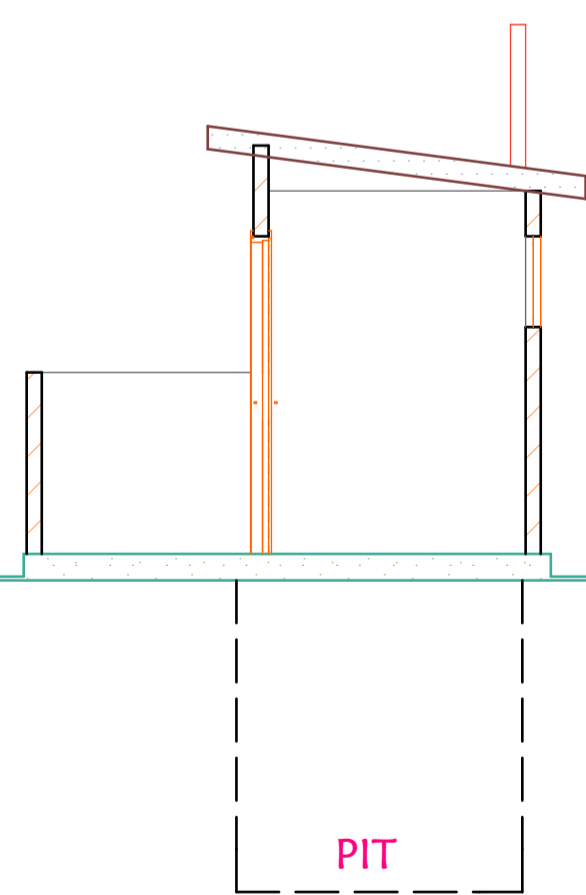
1:50 REAR ELEVATION



1:50 SIDE ELEVATION 02



1:50 FLOOR PLAN LAYOUT 0.



**ROOF WORK DETAILS**

7.5° degree roof pitch  
 of 28 gauge box profile roofing  
 on 50x50mm battens on 500g polythene sheet  
 100x50mm Rafter  
 50x50mm Ceiling joist  
 100x50mm Wall plate  
 300x25mm Fascia board painted & fitted with  
 moulded plastic gutter to Stru engineer's detail

**SUPER STRUCTURE WORK DETAILS**

200X100mm fair finished beam to Stru eng details  
 M.S. fabricated windows to schedule  
 Interior doors as flash to schedule  
 100mm masonry walls painted cream to approval  
 M.s. parallel bar handrails to detail  
 150mm thick slab to Stru Eng's details

**SUB STRUCTURE WORK DETAILS**

150mm thick oversite concrete

1:50 SECTIONAL ELEVATION S1 S-01