



## COUNTY GOVERNMENT OF NYANDARUA

DEPARTMENT OF PUBLIC WORKS, ROADS, TRANSPORT, HOUSING & ENERGY

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY  
UNITS AT MANUNGA HEALTH CENTRE

FOR

HEALTH SERVICES

# BILL OF QUANTITIES

ARCHITECT,

COUNTY ARCHITECT,  
DIR. OF PUBLIC WORKS,  
NYANDARUA COUNTY,  
P.O. BOX 701 - 20303  
OL KALOU

QUANTITY SURVEYOR,

COUNTY QUANTITY SURVEYOR,  
DIR. OF PUBLIC WORKS,  
NYANDARUA COUNTY,  
P.O. BOX 701 - 20303  
OL KALOU

ELEC/MECH ENGINEER

COUNTY ELEC / MECH. ENGINEER,  
DIR. OF PUBLIC WORKS,  
NYANDARUA COUNTY,  
P.O. BOX 701 - 20303  
OL KALOU

STRUCTURAL ENGINEER,

COUNTY ENGINEER - STRUCTURAL  
DIR. OF PUBLIC WORKS,  
NYANDARUA COUNTY,  
P.O. BOX 701 - 20303  
OL KALOU

NOVEMBER, 2023

FORM OF TENDER

TO: \_\_\_\_\_ [Date] \_\_\_\_\_

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 \_\_\_\_\_ Weeks

3 We agree to abide by this tender until *120 days from date of tender*, and it shall remain binding upon us and may be accepted at any time before end of the said days

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 the Tenderer]

of \_\_\_\_\_ [Address of the tenderer]

Witness; Name \_\_\_\_\_

Address \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_

# BUILDER'S WORK

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<p><u>ELEMENT NO. 01 - PRELIMINARIES</u></p> <p>The Contractor is to allow for all Preliminaries including site offices and stores, transport of workmen to and from site, transport of materials, supply, setting out, servicing, fueling of the plant and equipment, provision of plant operator, insurance for the works shall be the sole responsibility of the contractor and all other preliminaries incidental to these works</p>				
A	Allow for all Preliminaries associated with the works	Item	1		
	Element 01				
	PRELIMINARIES	CARRIED TO SUMMARY		KSHS	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<b>ELEMENT NO. 02 - DEMOLITION AND ALTERATION</b>				
A	Carefully demolish existing 7000x 3000mm and 2500 mm high corrugated building complete with Gulvanised sheet roofing complete with all accessories and fixing as necessary, ironsheet walling including all necessary frames. Openings including steel casement windows doors and all including iron mongery and cart away debris as directed	Item	1		
	Element 02				
DEMOLITION AND ALTERATIONS CARRIED TO SUMMARY				KSHS	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	(Kshs)
	<b>ELEMENT 03 SUBSTRUCTURE [ALL PROVISIONAL]</b>				
	<b>Site Clearance</b>				
A	Clear site of all grass, bushes, shrubs and all vegetation ; Cart away as directed by the Project Manager	SM	277		
	<b>Oversite Excavation</b>				
B	Excavate oversite to remove top soil average 200 mm deep and remove from site	CM	277		
	<b>Excavation including maintaining and supporting sides and keeping free from water, mud and fallen materials</b>				
	<b>Bulk excavations</b>				
C	- not exceeding 1.50 metres deep	CM	97		
	For foundations commencing at reduced level				
D	- not exceeding 1.5 metres deep	CM	56		
	For column bases commencing at reduced level				
E	- not exceeding 1.5 metres deep	CM	25		
F	Extra over for excavating in soft/hard rock	CM	25		
	<b>Disposal</b>				
G	Backfilling to make up levels	CM	30		
	Load and and heap all arising on site approximately (200 mm away) as directed by the Architect	CM	178		
	<b>Imported filling</b>				
H	Approved Hardcore filling to make up levels, hand packed not exceeding 300 mm thick in layers of 150mm maximum thickness	CM	77		
I	50 mm thick murrum blinding to surfaces of fill	SM	256		
	<b>Damp - proof membranes</b>				
J	1000 Gauge polythene laid under surface beds	SM	272		
	<b>Anti - termite treatment</b>				
K	Chemical anti - termite treatment executed by an approved specialist under a ten -year guarantee to surfaces of hardcore, etc.	SM	272		
	<b>Plain concrete 1:4:8</b>				
L	- Blinding under foundations and columns, thickness 50 mm	SM	100		
	Element 03				
	Substructure (All Provisional)	Carried Forward		Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	Brought Forward			Kshs.	
	<b>Vibrated reinforced concrete class 25</b>				
A	Foundations	CM	15		
B	Columns	CM	1		
C	Ground Beam	CM	9		
	<b>Beds, thickness</b>				
D	- 150 mm	SM	272		
	<b>Reinforcement</b>				
	<b>High yield deformed steel bar reinforcement to B.S. 4461</b>				
E	- 8mm Diameter bars	Kg	571		
F	- 12mm Diameter bars	Kg	800		
	<b>Steel mesh fabric reinforcement to B.S. 4483</b>				
	Layer of mesh fabric reinforcement laid in slab or bed (measured nett - no allowance made for laps)				
G	- Ref.A142 weighing 2.22 kgs per square metre	SM	272		
	<b>Lined Fair Face Formwork</b>				
H	Sides of foundations, bases, etc.	SM	50		
I	Sides of Columns	SM	7		
	Edges of beds, etc.				
J	- 150 to 225 mm	LM	68		
	<b>Natural Stone walling in cement mortar</b>				
	<b>Walling</b>				
K	- 200 mm	SM	71		
	<b>Cement and sand (1:5) rendering</b>				
	Rendering to plinths finished with a steel trowel, thickness				
L	- 12 mm	SM	30		
	<b>Prepare and apply two coats bituminous paint</b>				
M	Rendered walls	SM	30		
	<b>ELEMENT 03 SUBSTRUCTURE</b>				
	Substructure (All Provisional)	Carried to Summary		Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<b>ELEMENT 04 FRAME SUPERSTRUCTURE</b>				
	<b>Vibrated reinforced concrete class 25</b>				
A	Beams	CM	17		
B	Columns	SM	10		
	<b>Reinforcement (All Provisional)</b>				
	<b>High yield deformed steel bar reinforcement to B.S. 4461</b>				
C	- 8mm Diameter bars	Kg	400		
D	- 12mm Diameter bars	Kg	510		
	<b>Lined Fair Face Formwork</b>				
E	Sides of Columns	SM	7		
F	Sides and soffits of beams	SM	183		
	<b>Steel Columns</b>				
	<b>75 mm diameter x 3mm thick Circular Hollow Section (CHS) ; 2700mm long fixed with fish tail lugs to concrete floor slab.</b>				
G		NO	6		
	<b>On metal work</b>				
	Prepare and apply one approved etching primer , one undercoat and two coats of ' CROWN SOLO ' or any other equal and approved super gloss paint to :-				
H	General surfaces of steel columns ; not exceeding 100mm girth external	LM	17		
	<b>Element 04</b>				
	Frame Superstructure	Carried to Summary		Kshs.	



PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT 05 WALLING External Walling Machine cut stone walling in cement mortar (1:4) with neat raked horizontal joints External walling reinforced with hoop iron at each and every alternate course, thickness				
A	- 200 mm	SM	103		
B	- 200 mm - Gable Walls	SM	37		
	Machine cut stone walling in cement mortar Internal walling reinforced with hoop iron at each and every alternate course, thickness Walling reinforced as described,				
C	- 200 mm	SM	60		
	Bituminous felt damp proof courses laid on and including leveling screed of cement mortar In walling, width				
D	- 200 mm	LM	135		
	Element 05				
	Walling	Carried to Summary		Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<b>ELEMENT 06 ROOFING &amp; RAINWATER DISPOSAL</b>				
	28 Gauge prepainted galvanised mini corrugated mild steel sheet				
	Roof sheeting laid with 94 mm side laps and 200 mm end laps fixed to timber purlins with and including roofing screws, washers and caps at centres				
A	- 1200 mm	SM	287		
B	Raking cutting on sheeting	LM	61		
	Ridge sheeting , girth				
C	- 600 mm	LM	23		
	Sawn cypress (Grade I) treated as described (provisional)				
	The following structural members in trusses including bolts , cleats , hoisting , etc.,				
	Truss No. 1 (18 No.)				
	Rafters				
D	Rafters	LM	199		
	Kingpost				
E	100 x 50 mm	LM	36		
	Struts and ties				
F	- 100 x 50 mm	LM	350		
	Ceiling Joist				
G	- 150 x 50 mm	LM	178		
	Truss No. 2 (11 No.)				
	Rafters				
H	- 150 x 50 mm	LM	45		
	Ridge board				
I	- 150 x 50 mm	LM	46		
	Element 06				
	Roofing & Rainwater Disposal	Carried Forward		Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
		Brought Forward		Kshs.	
A	Purlins - 150 x 50 mm	LM	188		
	Wrought cypress treated as described				
B	Fascia and bargeboard - 300 x 38 mm	LM	71		
	UPVC Pipes & Gutters				
C	UPVC Pipes jointed with hemp gasket and cold caulking compound and fixed to walls with brackets @ 300mm c/c, size - 150 mm diameter	LM	12		
	Extra for offset in pipe , size				
D	- 100 x 100 mm	No.	4		
	Extra for shoe in pipe , diameter				
E	- 100 x 100 mm	No.	4		
	UPVC gutter half round, fixed to fascia board with brackets @ 300mm c/c, size				
F	- 100 mm diameter	LM	44		
	Extra for angle in gutter , size				
G	- 150 x 150 mm	No.	4		
	Knot, prime, stop and apply two undercoats and one gloss finishing coat paint to woodwork				
H	- General wood surfaces	SM	260		
I	- 200 to 300 mm girth	LM	97		
	Element 06				
	Roofing & Rainwater Disposal	Carried to Summary		Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	ELEMENT 07 EXTERNAL FINISHES				
	Cement and sand (1:4) rendering				
	Rendering to concrete surfaces finished with a wood float thickness				
A	- 15 mm	SM	62		
B	Ditto to reveals	SM	6		
	Prepare and apply three coats exterior quality 'permaplast' paint				
C	Rendered concrete surfaces externally	SM	62		
D	Rendered walls reveals	SM	6		
	Element 07				
	External Finishes	Carried to Summary		Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<b>ELEMENT 08 INTERNAL FINISHES</b>				
	<b>Lime Plaster</b>				
A	Plaster to walls	SM	405		
B	Plaster to sides and soffits of beams	SM	50		
	<b>Terrazzo Finish</b>				
	Supply and fix only 600x600x10mm Terrazzo floor finish on prepared screed (m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting; including pvc spacers and expansion joint as necessary; all to Architect's approval.				
C	600 x 600X10 mm Granito tiles in patterns as directed	SM	53		
D	100 mm Skirting tile <b>cut out of tiles above</b>	SM	23		
	<b>Ceramic floor and wall tiles</b>				
	Supply and and fix Ceramic non-slip floor Tiles including bedding in approved adhesive and pointing in tinted cement .	SM	170		
	<b>Ditto Skirting</b>				
F	- 100 mm high	LM	205		
G	Supply and and fix Wall Tiles including bedding in approved adhesive and pointing in tinted cement including conner .	SM	20		
	<b>Cement and Sand [1:4] beds and backings</b>				
	Beds to receive flooring, etc., finished with a steel trowel, thickness				
H	32 mm thick	SM	10		
	Backing to tile dados, etc., thickness				
I	- 12 mm	SM	20		
	<b>Prepare and apply three coats plastic emulsion paint</b>				
J	Plastered walls	SM	405		
K	Plastered sides & soffits of beams	SM	50		
L	Ceiling surfaces	SM	125		
	<b>Ceiling Finish</b>				
	Sawn Cypress				
M	75x50mm brandering at 600 centres both directions	LM	153		
	<b>Ceiling Boards</b>				
	13mm thick plain chip-board ceiling boards nailed to timber brandering (m/s);nails punched and puttied	SM	125		
	<b>Cornice</b>				
O	75x25mm moulded cornice	LM	170		
	<b>Element 08</b>				
	Internal Finishes	Carried to Summary		Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<u>ELEMENT 09- JOINERY AND FITTINGS(ALL PROVISIONAL)</u>				
	<u>WORKTOP CONCRETE WORKS</u>				
	<u>Solid concrete blockwalling in cement sand (1:4) mortar</u>				
A	100mm thick support wall	SM	4		
	<u>Reinforced concrete (1:2:4)class 20/20 in:-</u>				
B	100mm thick suspended slab	SM	17		
	<u>Reinforcements</u>				
C	B.R.C Mesh A65 in slab	SM	17		
	<u>Sawn formwork to:-</u>				
D	soffittes of suspended slab	SM	17		
E	Edge of slab 75-150mm high.	LM	35		
	<u>Base cabinets:</u>				
	<u>Mass concrete (1:3:6) as described in:-</u>				
F	sand (1:4) screed	CM	2		
	<u>Sawn formwork to:-</u>				
G	Edge of slab 75-150mm high	LM	35		
H	Extra over ditto for 25x25mm planted stop to formrebate.	LM	35		
I	50 x 25mm bearer	LM	116		
J	45 x 45mm rebated frame	LM	114		
K	Ditto but twice rebated	LM	20		
	<u>25mm thick laminated MDF boards as described in:-</u>				
L	Shelves hardwood lipped all round	SM	34		
M	Divisions ditto	SM	26		
N	Doors hardwood lipped all round	SM	34		
	<u>Ironmongery</u>				
O	Stainless steel hydraulic malpa hinges	PRS	84		
P	75mm chromium plated barrel bolt	NO	56		
Q	"Ideal" or any other equal and approved ball catch	NO	56		
R	100mm chromium 'D' handles	NO	56		
S	50mm union cupboard lock.	NO	56		
	<u>Insitu Finishings</u>				
	<u>15 mm cement sand (1:4) Backing to receive tiles on the worktops</u>				
T	Worktops	SM	17		
	<u>"Saj" Ceramic tiles, Non - slip, approved adhesive, fixed on prepared screed according to Manufacturer's instructions</u>				
U	Size 330 x 330 x 8 mm thick	SM	17		
	Element 09				
	Joinery and Fittings	Carried to Summary		Kshs	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<b>ELEMENT 10 WINDOWS</b>				
	<b>Windows cill</b>				
	<b>Precast Concrete to approval</b>				
A	150 x 25 mm cill, bedded and jointed in cement and sand 1:1 and pointed in tinted cement	LM	12		
B	Prepare and apply three coats gloss paint	SM	14		
	<b>Steel Casement Windows</b>				
	Purpose made casement windows with permanent ventilating units, manufactured from 20 x 20 x 3 mm 'Z' and 'T' mild steel sections including and complete with heavy duty brass stays and fasteners fixed to masonry jambs and concrete head				
	Window, overall size				
C	600x1500	No	1		
	<b>Triple Window</b>				
D	- 1500 x 1500 mm	No	5		
E	- 2000 x 1500 mm	No	3		
F	- 1000 x 1500 mm	No	3		
	<b>Vertical multi- sash window</b>				
G	- 600 x 600 mm	No	2		
H	- 1000 x 1500 mm	No	1		
I	- 1000 x 1500 mm	No	1		
	<b>Triple Window</b>				
J	- 2000 x 1500 mm	No	1		
	<b>Clear/Obscure sheet glass</b>				
	4 mm Glass and glazing to metal with putty in panes				
H	- 0.50 to 1.00 square metres	SM	26		
	<b>Prepare, prime and apply two undercoats and one gloss finishing coat oil paint to metal</b>				
I	Windows ( both sides measured overall )	SM	52		
	<b>Element 10</b>				
	<b>Windows</b>		Carried to Summary	Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	<b>ELEMENT II DOORS</b>				
	<b>Flush doors to B.S. 459 [Part 2]</b>				
	50 mm Solid core flush doors faced both sides with 6 mm plywood zen veneered for polishing, moulded and hardwood lipped all round, size				
A	- 900 x 2700 mm	No.	10		
	<b>Doors, frames and finishings in wrought cypress</b>				
	Glazing beads with two labours				
B	- 25 x 23 mm	LM	30		
	Beads with two labours				
C	- 25 x 25 mm	LM	75		
	Architraves with two labours				
D	- 50 x 38 mm	LM	65		
	Transome with three labours				
E	- 100 x 50 mm	LM	30		
	Frame with three labours				
F	- 200 x 50 mm	LM	65		
	<b>Steel Casement French doors</b>				
	Supply, assemble and fix the following purpose-made standard 32mm 'Z' section steel doors to comply to B.S. 990, obtained from an approved manufacturer, primed with red oxide primer before delivery to site complete with hinges, handles, catches and building in lugs as detailed on drawings with all necessary frames & ironmongery.				
G	- 1500 x 2700 mm - Double Leaf	No	1		
H	- 900 x 2700 mm	No	3		
	<b>Element II</b>				
	Doors	Carried Forward		Kshs.	



PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

Item	Description of Works	Unit	Qty	Rate	Amount (Kshs)
	Brought Forward			Kshs.	
	<b>Ironmongery - supply and fix the following or other equal and approved with matching screws</b>				
	Pairs brass butt hinges				
A	- 100 mm	No	15		
	Three lever stainless steel cylinder deadlock complete with handle				
B	- 'Union 7203 SSS'	No	10		
	Oval Satin anodised aluminium door stop [Ref: Union DS-01AS]				
C	-	No	10		
	Clear sheet glass				
	4 mm Glass and glazing to wood with beads [measured separately] in panes				
D	- 0.50 to 1.00 square metres	SM	13		
	<b>Prepare and apply one coat wood preservative to woodwork before fixing</b>				
	Frames , skirtings , etc.				
E	- not exceeding 100 mm	LM	110		
F	- 100 to 200 mm girth	LM	63		
G	- 200 to 300 mm girth	LM	63		
	<b>Prepare and spray stain three coats polyurethane varnish to woodwork</b>				
	Surfaces				
H	- not exceeding 100 mm	LM	110		
I	- 100 to 200 mm girth	LM	63		
J	- 200 to 300 mm girth	LM	63		
	Element II				
	Doors	Carried to Summary		Kshs.	

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY AT  
MANUNGA HEALTH CENTRE

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SUMMARY OF SECTION			
Element Number and Name		Page	
01	Preliminaries	RU/1	
02	Demolition and Alteration	RU/2	
03	Substructures	RU/4	
04	Frame Superstructure	RU/5	
05	Walling	RU/7	
06	Roof Structure & Covering	RU/8	
07	External Finishes	RU/9	
08	Joinery and fittings	RU/10	
09	Internal Finishes	RU/11	
10	Windows	RU/12	
11	Doors	RU/13	
TOTAL FOR PHARMACY AND LABORATORY UNITS CARRIED TO SUMMARY		KSHS	

# PROVISIONAL SUMS

<u>PROVISIONAL SUMS</u>			
<p><u>The following provisional sums are to be measured on completion and priced in accordance with the rates contained in these bills of quantities or prorata thereto or deducted in whole if not required</u></p>			
A	Allow a prime cost sum of Kshs Four Hundred and Eighty Thousand (Kshs. 480,000.00)Only for Mechanical Services.	ITEM	
B	Allow a prime cost sum of Kshs Three Hundred and Eighty Thousand (Kshs. 380,000.00)Only for Electrical Installation.	ITEM	
C	Allow a provisional sum of Kshs Sixty Thousand (Kshs. 60,000.00)Only for Supervisory expenses	ITEM	
D	Allow a provisional sum of Kenya shillings One hundred and Fifty thousand (Kshs. 150,000.00) Only for Contingencies to be expended in whole or part only at the discretion of the Project Manager	ITEM	
<b>TOTAL FOR PROVISIONAL SUMS CARRIED TO SUMMARY</b>			<b>KSHS</b>

PROPOSED CONSTRUCTION AND COMPLETION OF PHARMACY AND LABORATORY UNITS  
AT MANUNGA HEALTH CENTRE

GRAND SUMMARY

ITEM	DESCRIPTION	Page No.	FOR OFFICIAL USE ONLY	FOR TENDERER USE ONLY
			KSHS.	KSHS.
A	Pharmacy and Laboratory units - Builder's Works	RU/13		
B	P.C & Provisional Sums	PS/1		
	SUB-TOTAL			
	ADD 2% PROJECT MANAGEMENT PAYABLE TO COUNTY REVENUE ACCOUNT			
TOTAL CARRIED TO FORM OF TENDER INCLUSIVE OF 16% V.A.T.				

Amount in words. Kenya shillings .....

.....

.....Cents .....

Tenderer's Signature and stamp.....

Address .....

.....

Date .....

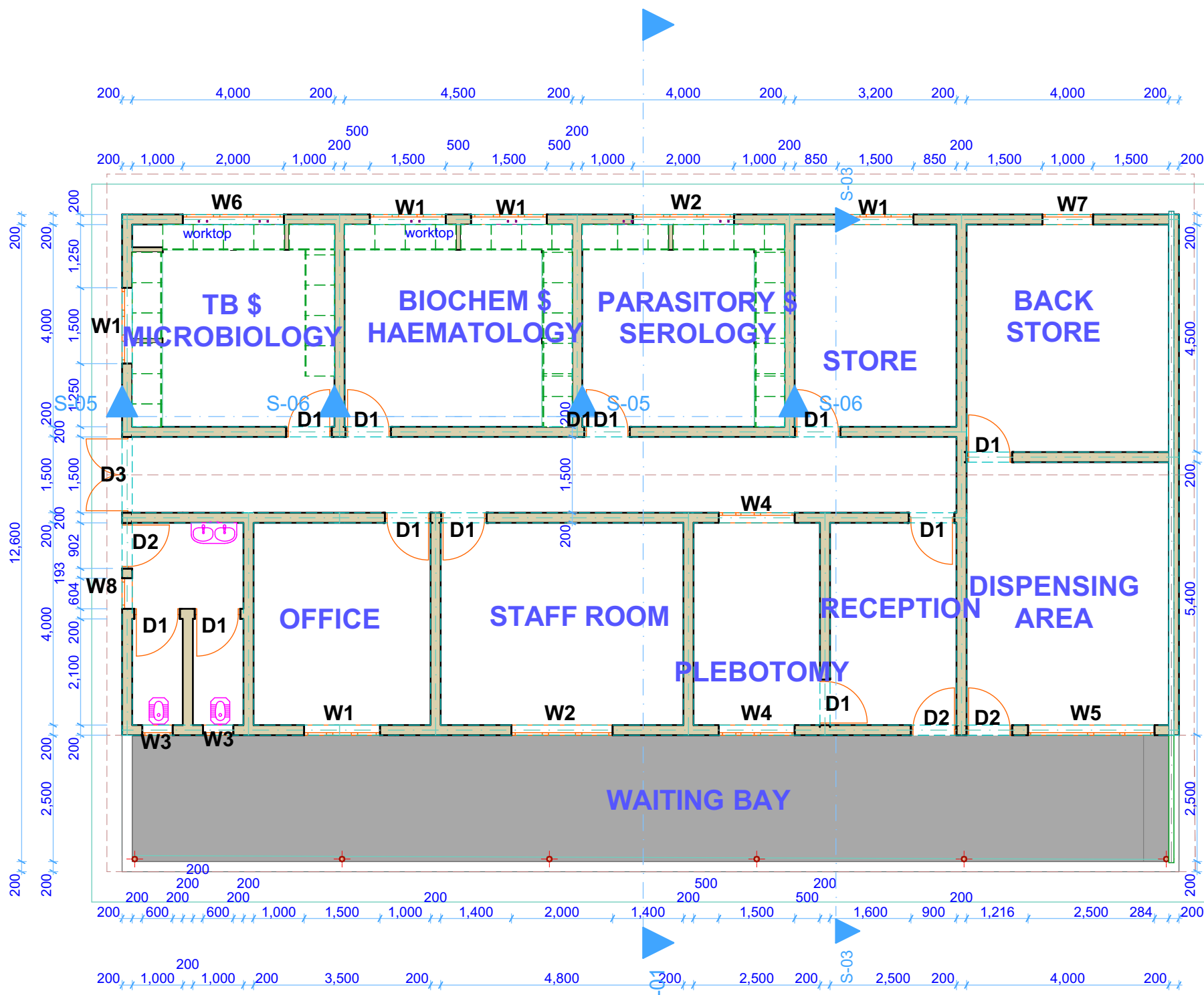
Witness Signature .....

Address .....

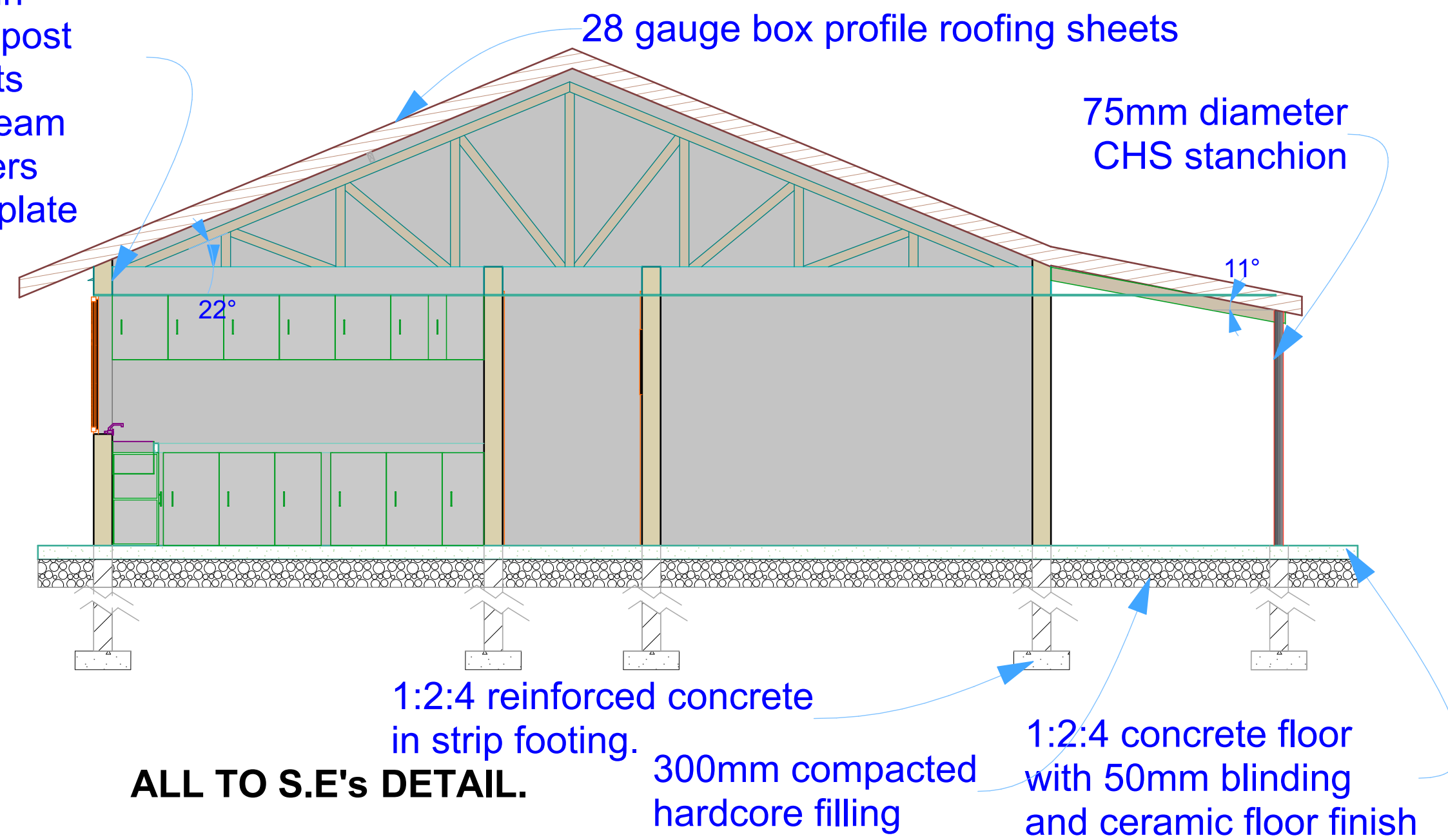
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Date .....

TIMBER TRUSS @1.2M  
 c/c WITH  
 100X50MM purlin  
 100X50MM kingpost  
 100X50MM struts  
 150X50MM tiebeam  
 100X50MM rafters  
 150X50MM wallplate



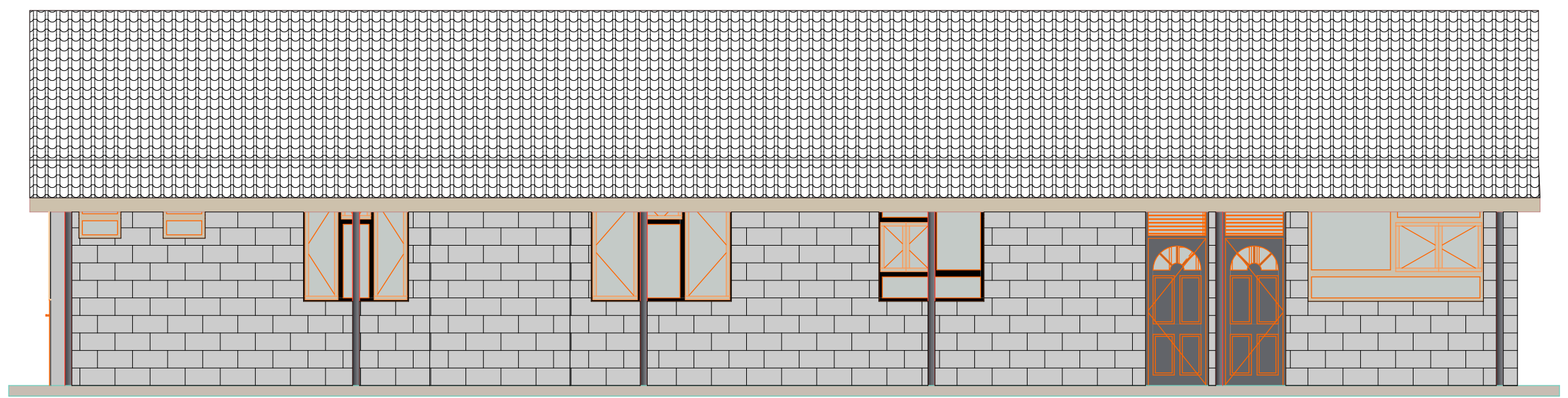
0. Ground Floor (1) 1:100



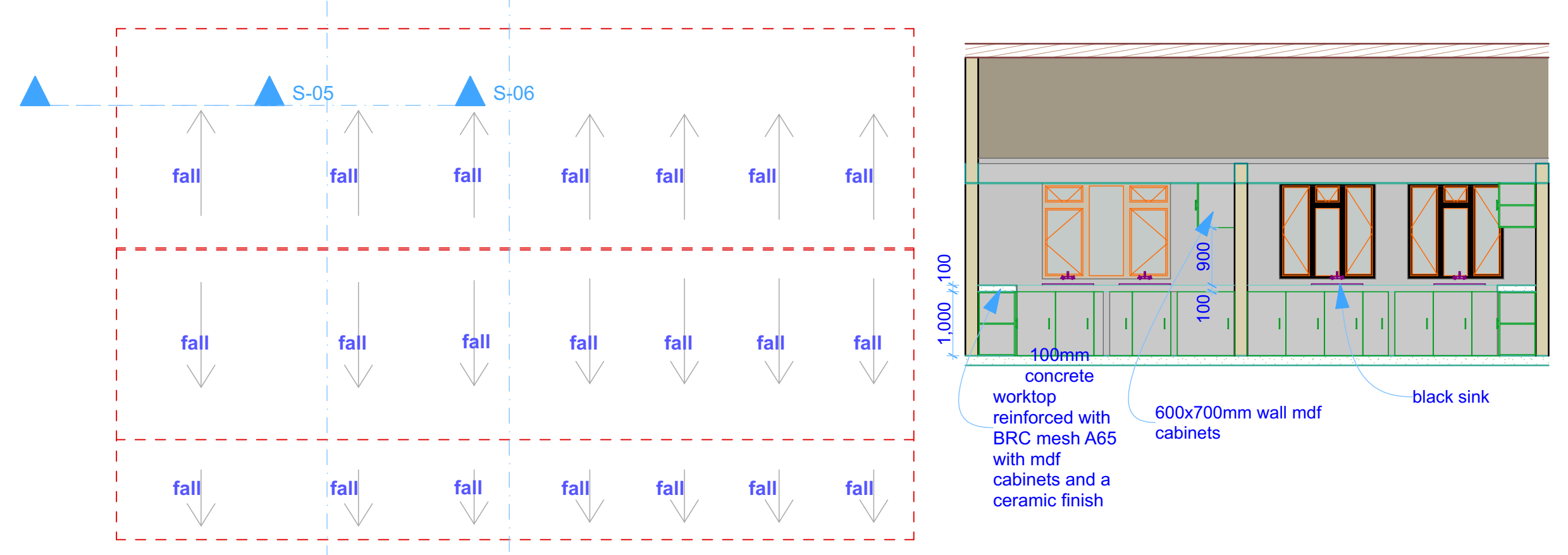
S-01 Building Section 1:52.44

**GENERAL NOTES.**

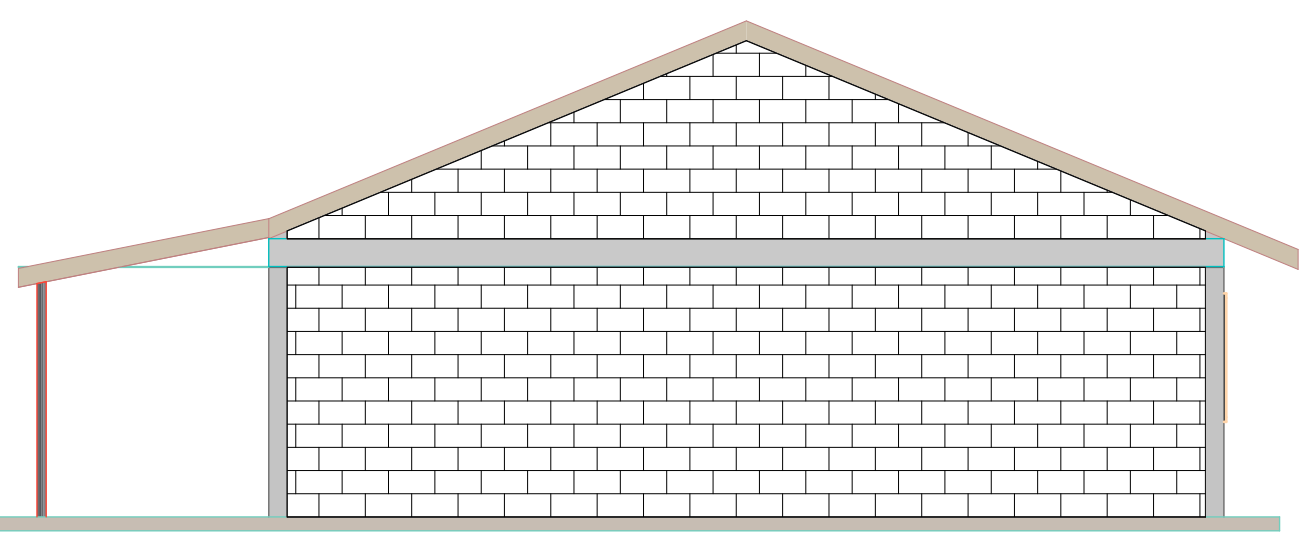
- This drawing is protected under the copyright Act, and cannot be used or reproduced in part or in whole without authors consent.
- All measurements are shown in millimeters.
- Measurements should not be scaled off the drawing.
- Any discrepancy must be notified to the architect.
- All sections should be read as per floor plan and all drawings must be read in concert with each other.
- Any discrepancy should be notified immediately to the designer and clarified by consulting respective consultants' drawings.



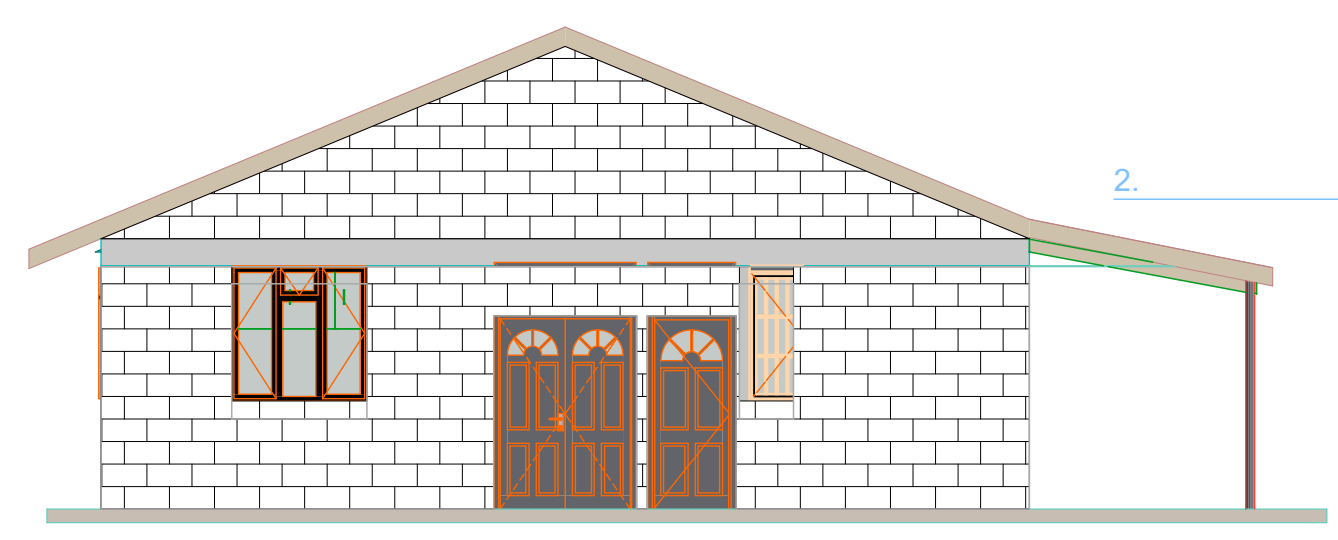
South Elevation 1:70.83



S-05 Building Section 1:74.60



East Elevation 1:81.52

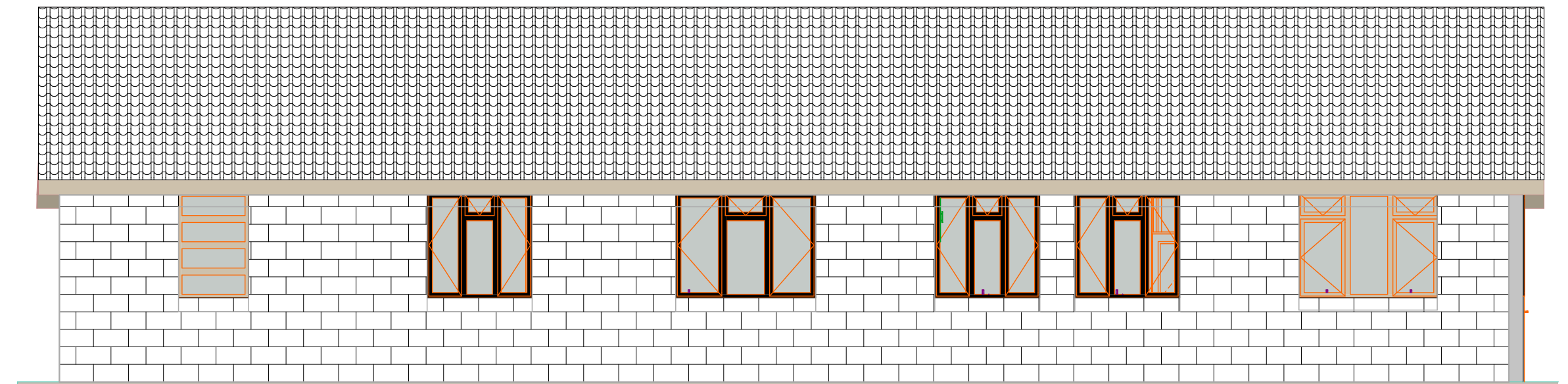


West Elevation 1:83.88

2. ROOF PLAN 1:100

Element ID	Door Schedule		
	D1	D2	D3
Opening Name	Door with Transom 26	Door with Transom 26	Double Door with Transom 26
W x H Size	900x2,700	900x2,700	1,500x2,700
height	2,700	2,700	2,700
2D Symbol			
3D Back View			
Description (Attributes)	internal panel door	exterior metal door	exterior metal double door

IES-03 Door Schedule (3) 1:1.07



North Elevation 1:70.98

Element ID	Window Schedule							
	W1	W2	W3	W4	W5	W6	W7	W8
Opening Name	Triple Window with Middle Transom 26	Triple Window with Middle Transom 26	Vertical Multi-Sash Window 26	Variable Double Sash Window 26	Variable Double Sash Window 26	Triple Window with Side Transom 26	Vertical Multi-Sash Window 26	Window 26
W x H Size	1,500x1,500	2,000x1,500	600x600	1,500x1,500	2,500x1,500	2,000x1,500	1,000x1,500	604x1,500
Sill height	1,200	1,200	2,100	1,200	1,200	1,200	1,200	1,200
Head height	2,700	2,700	2,700	2,700	2,700	2,700	2,700	2,700
2D Symbol								
3D Back View								

IES-04 Window Schedule 1:1

**Project Name.**  
 Proposed construction and completion of a laboratory and pharmacy at manunga health centre.

**CLIENT.**  
 HEALTH SERVICES.

**Drawing Title.**  
 Plan Elevations & Sections.

*Designed & Drawn by:*  
 michael njuguna.

*Approved by:*  
 OLIVER WASIKI

**Date.** NOV 2023.