

SHEET LIST

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A101	STEEL SECTION U-SHAPE

DRAWINGS AND SPECIFICATIONS

TEMPORARY LEARNING SPACE CLASSROOM BLOCKS CONSTRUCTION

All Region - Access via State HQs
Coordinates: TBD

FUNDED BY:
GLOBAL PARTNERSHIP FOR EDUCATION

DESIGNED BY

UNICEF

EDUCATION



PROJECT

CONSTRUCTION
OF
CLASSROOM BLOCK

DRAWING DATE

12th March, 2021

REVISIONS

#	DATE

TITLE

TWO CLASSROOMS

SCALE

SHEET NUMBER

PLOT DATE

FILE NAME

TLS CLASSROOMS

SITE PREPARATION

- Building Site to be graded flat with 5% slope away from structure, extending a minimum of 2.5M from perimeter
- Drainage necessary away from structure, which may require substantial fill material

CONCRETE

- River sand may be used only after thorough washing to remove fines (silt and clay)
- All aggregate to be clean and free of organic material
- Water to be clear - use flocculent on river water or any water with suspended particles

FOUNDATIONS COLUMN EXCAVATION

- 400mm x 400mm x 900mm mass concrete pad foundation under each foundation steel column
- Concrete to be 1:2:4 cement:sand:aggregate, for the footing concrete
- All aggregate to be <50mm

FOUNDATION COLUMNS FOOTINGS

- 100mm x 100mm x 3mm fixed at the depth of 600mm, fdn. column with a
- Concrete to be 1:2:4 cement:sand: aggregate, for foundation column base

All aggregate to be <50mm

SLAB

- 75mm thick reinforced concrete floor slab 1:2:4 concrete and for location without murrum; compact normal soil and sand compacted before slab to reduce the compression and expansion.
- Floor slab to be with floor screed monolithically to achieve uniform bond.

- Control joints to be located between all rooms. Joint can be insert or saw cut, 10mm minimum depth

WALL COLUMNS:

- 100mm x 100mm x 3mm thick steel hollow wall section reinforced with
- Concrete to be 1:2:4 cement:sand:aggregate, for wall column Build half wall with brick walls,

WALLS:

- NOTE: for locations without clay burnt bricks, use of local materials like Bamboos, Timbers boards, and iron sheets can be used for the walls
- 400mm high from foundation use brick work to prevent flooding,
- 1800mm Bamboo walling on front and rear face of the building
- 2800mm high from the foundation and finished with iron sheets

NOTE: For locations without murrum; use the available black cotton soil, mixed with sand and compact. spread a layer of sand on top of the compacted ground and then cast the floor slab.

DOORS

- All doors are made of Iron sheets

ROOF Metallic

- Use corrugated 28gauge colored roof sheet
- All 60mm x 40mm x 1.5mm rafters, 60mm x 40mm Tei Beam, 40mm x 40mm x 1.5mm struts and 40mm x 40mm x 1.5mm square steel purlins. All members to painted with three coats of anti rust paint or equivalent
- Purlins to be weld to rafter and to supporting cleat to provide adequate weld area and connection
- All steel members to be free of rust and all Nodes to connected with gusset plate of minimum 6mm thickness as indicated on drawings
- Rafters structure members to all be welded with adequate weld fillet of at least 6mm
- Roof structure /tie beam to be welded to 60mm x 40mm square tube.
- Roof sheets profile to be corrugated colored, 28 gauge
- All sheets to overlap 200mm



FLOOR

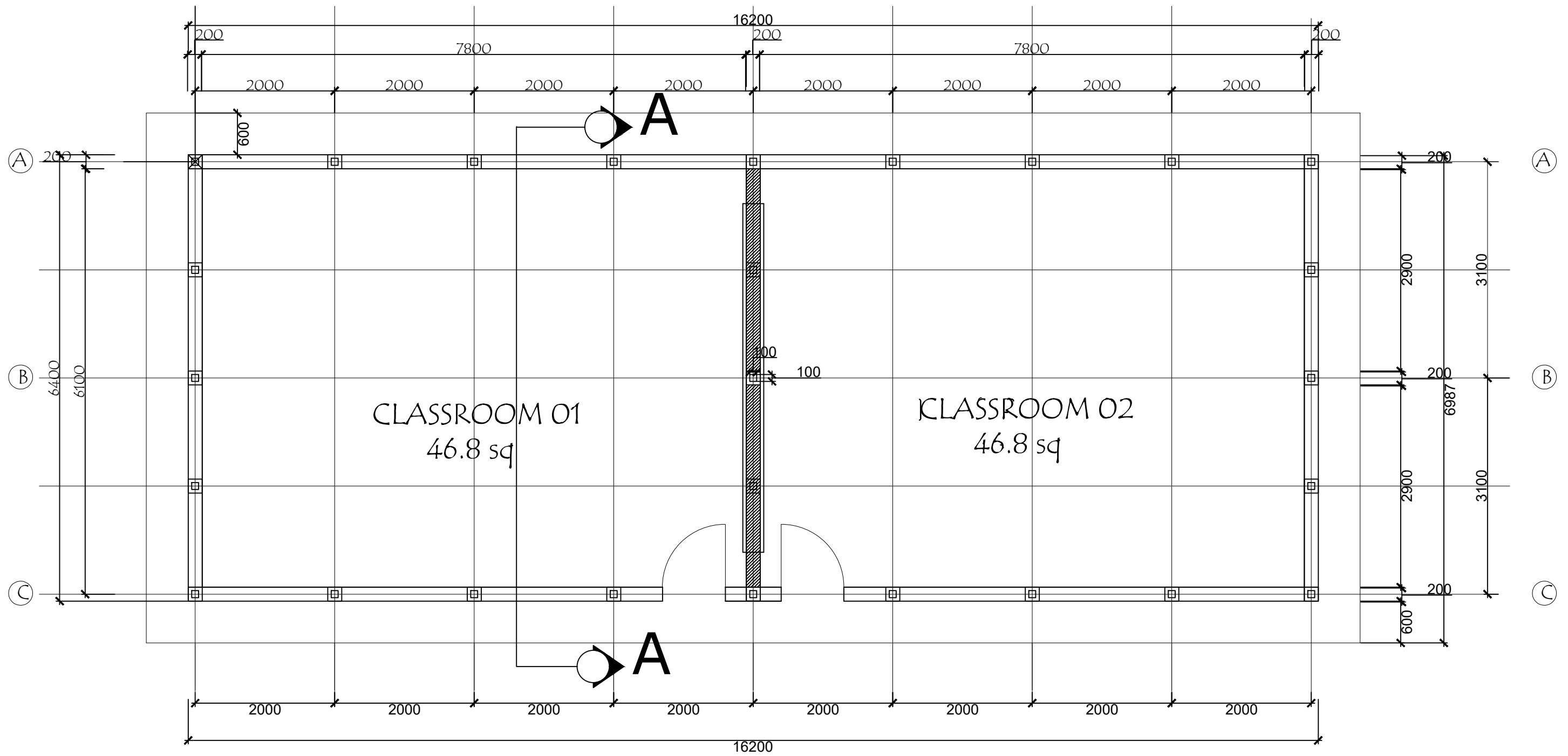
- Concrete floor to be 75mm 1:2:4 cement:sand: aggregate
- Floor screed monolithically to achieve uniform bond.
- Compact murrum, or place hardcore or compact natural soil mixed with sand to attain maximum compacted base layer. All Floor style may vary according to the location.

Type of Cement Work	Mix proportions			Dry required quantities for one cubic meter wet:				
	Cement	Sand	Gravel	Cement bags @ 50 kg	kg	Sand [m ³]	Gravel [m ³]	Stones or Boulders [m ³]
Cement Mortar	1	1	-	20.4	1020	0.71	-	-
	1	2	-	13.5	680	0.55	-	-
	1	3	-	10.2	510	1.05	-	-
Cement Plaster (20 mm w/ 12% waste)	1	4	-	7.6	380	1.05	-	-
	1	6	-	5.0	250	1.05	-	-
Cement Stone Masonries	1	4	uncoursed stone masonry	2.66	133	0.37	-	1.2
	1	6	uncoursed stone masonry	1.75	87.5	0.37	-	1.2
Cement Concrete (plain or reinforced)	1	4	coursed stone masonry	2.28	114	0.32	-	1.25
	1	6	coursed stone masonry	1.50	75	0.32	-	1.25
	1	4	: 8	3.4	170	0.47	0.94	-
"Plum" Concrete with 50% boulders	1	3	: 6 (M10)	4.4	220	0.46	0.92	-
	1	2	: 4 (M15)	6.4	320	0.45	0.90	-
"Plum" Concrete with 50% boulders	1	1 1/2	: 3 (M20)	8	400	0.42	0.84	-
	1	3	: 6	2.64	132	0.28	0.54	0.50

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UNICEF_SOUTH_SUDAN	Project Manager	EDU/UNICEF/SSD	Dwg. By	AW							
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STRUCTURAL FLOOR PLAN
46.8 sq



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A3

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Project Manager
EDU/UNICEF/SSD

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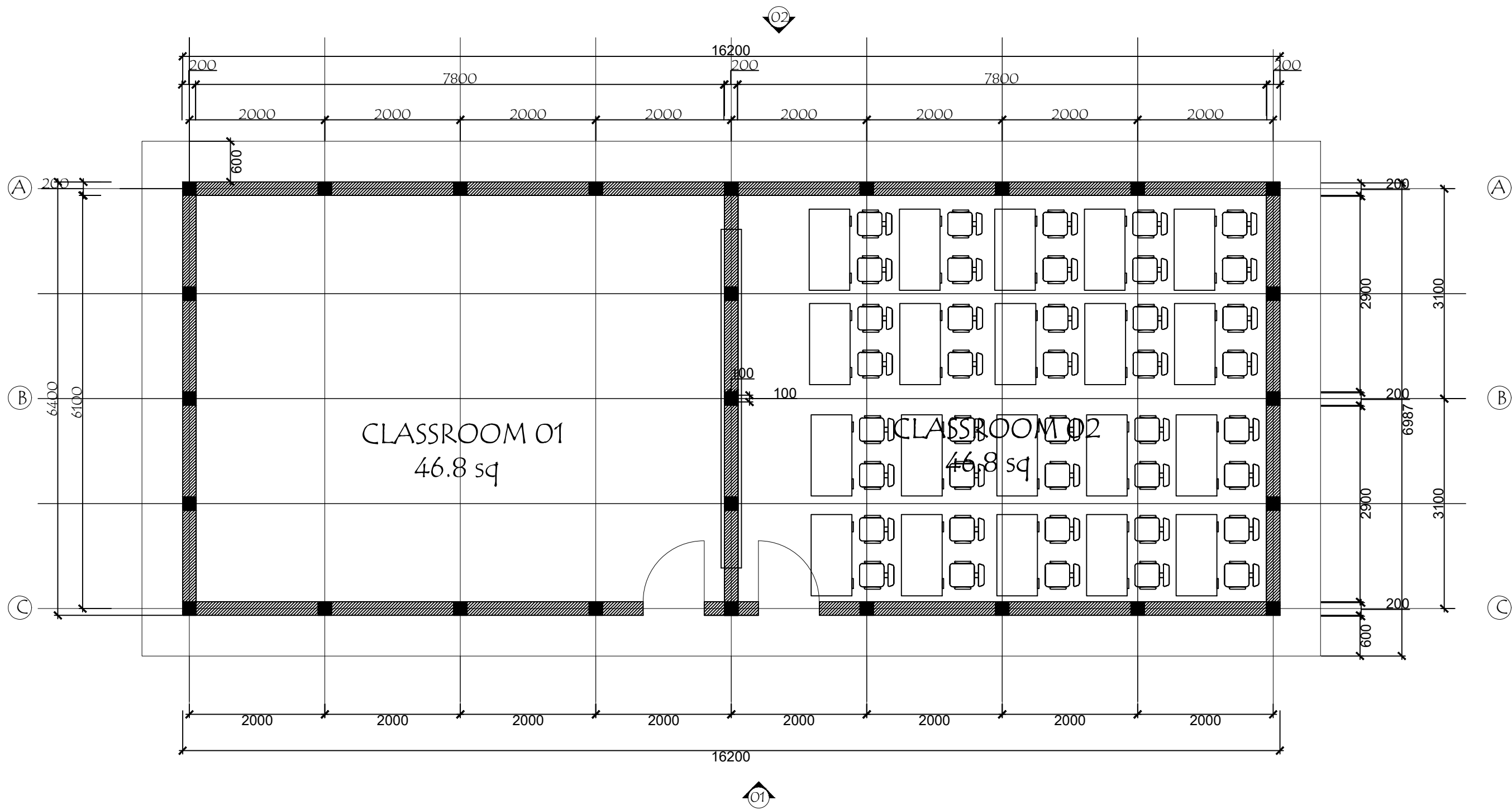
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ARCHITECTURAL FLOOR PLAN
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Project Manager

EDU/UNICEF/SSD

Dwg by

AW

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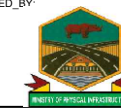
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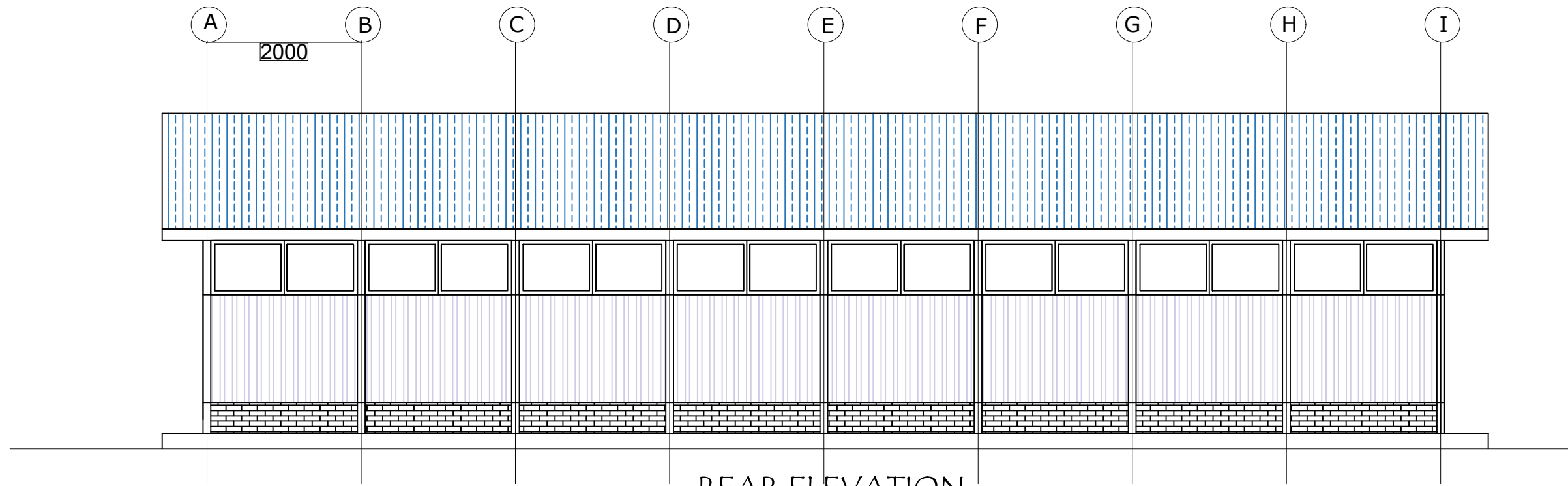
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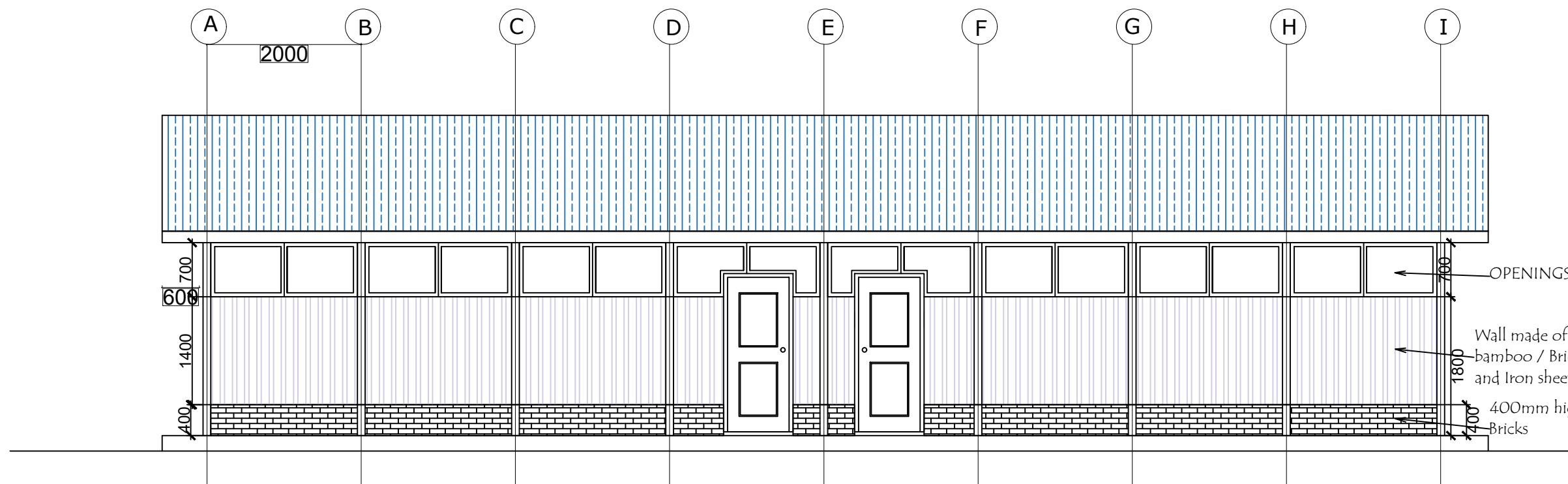
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REAR ELEVATION
Scale 1:100



FRONT ELEVATION
Scale 1:100



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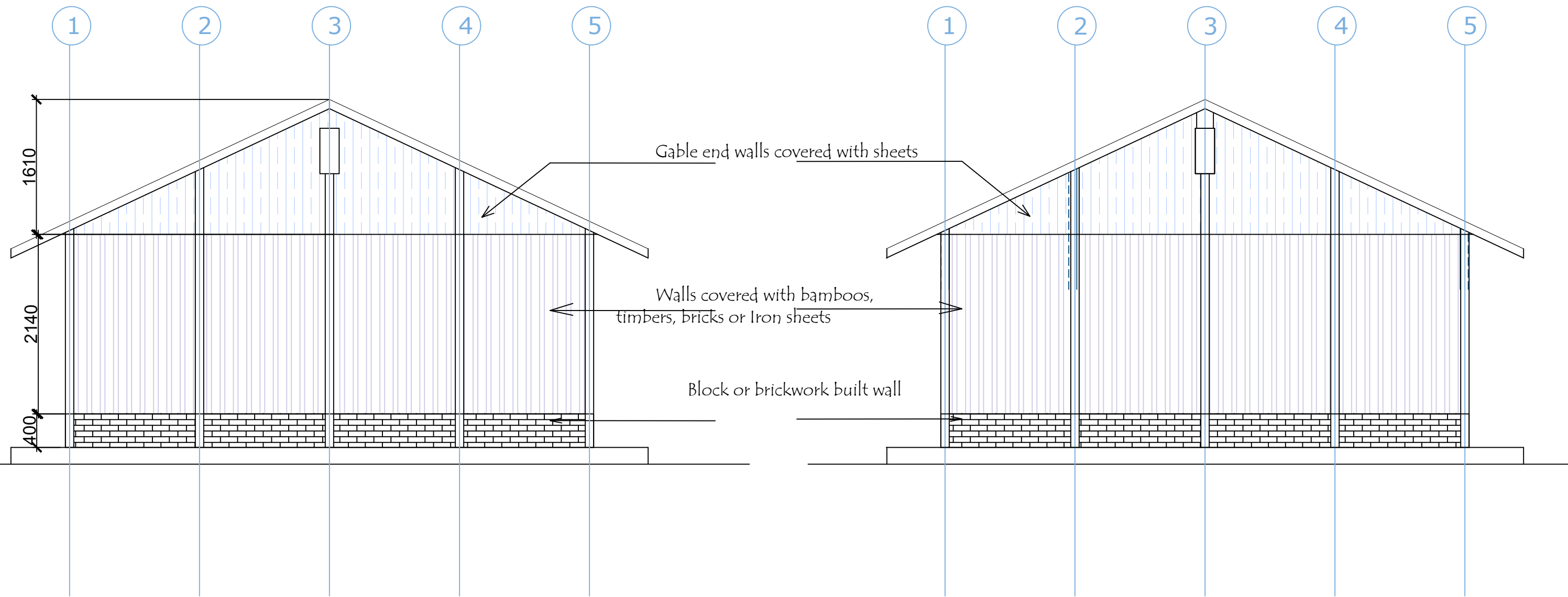
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END ELEVATION
Scale 1:100

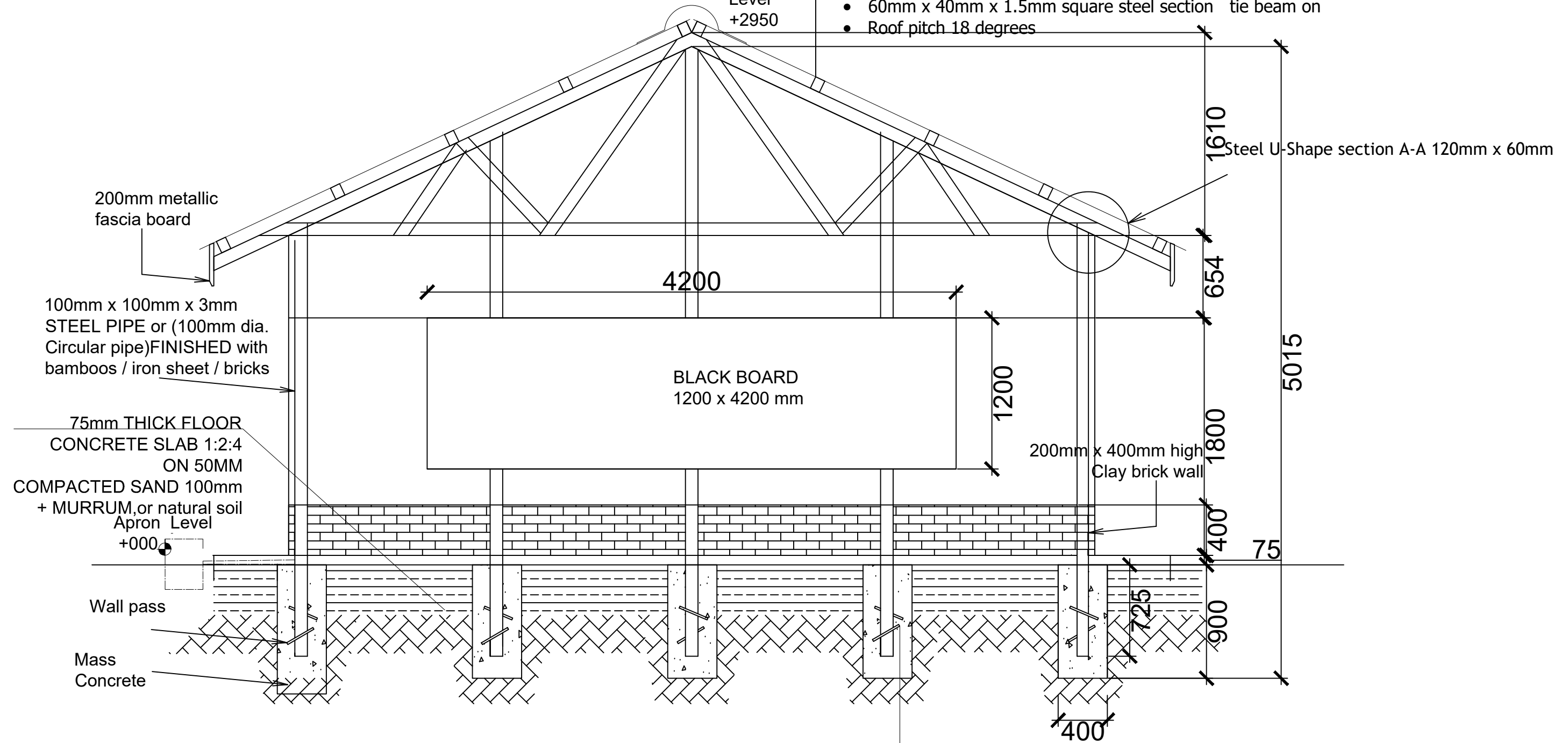
LEFT END ELEVATION
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Project Manager	EDU/UNICEF/SSD	Project Owner	2020/EDUC/SSD	5_IN	5_REVISION	5_00.00.09								

ROOF NOTES

- G28 Corrugated colored roof sheets
- 40mm X 40mm X 1.5mm thick square section Steel Purlins on
- 60mm x 40mm x 1.5mm square hollow steel section Rafters on
- 40mm x 40mm x 1.5mm Square steel hollow section struts& ties on
- 60mm x 40mm x 1.5mm square steel section tie beam on
- Roof pitch 18 degrees

Top Rafter Level
+2950



SECTION A-A scale 1:100

NOTE: IN LOCATION WITHOUT MURRAM LET'S USE THE NATURAL SOIL MIXED WITH SAND AND COMPACT TO REDUCE SHRINKAGE AND EXPANSION

FOUNDATION NOTES

- Floor screed finishing
- 20mm thick cement mortar screed 1:3
- 75mm thick RC C25 reinforced with BRC 8mm dia
- 50mm thick sand on,
- 200mm Well compacted wet murram on,
- Well compacted natural soil



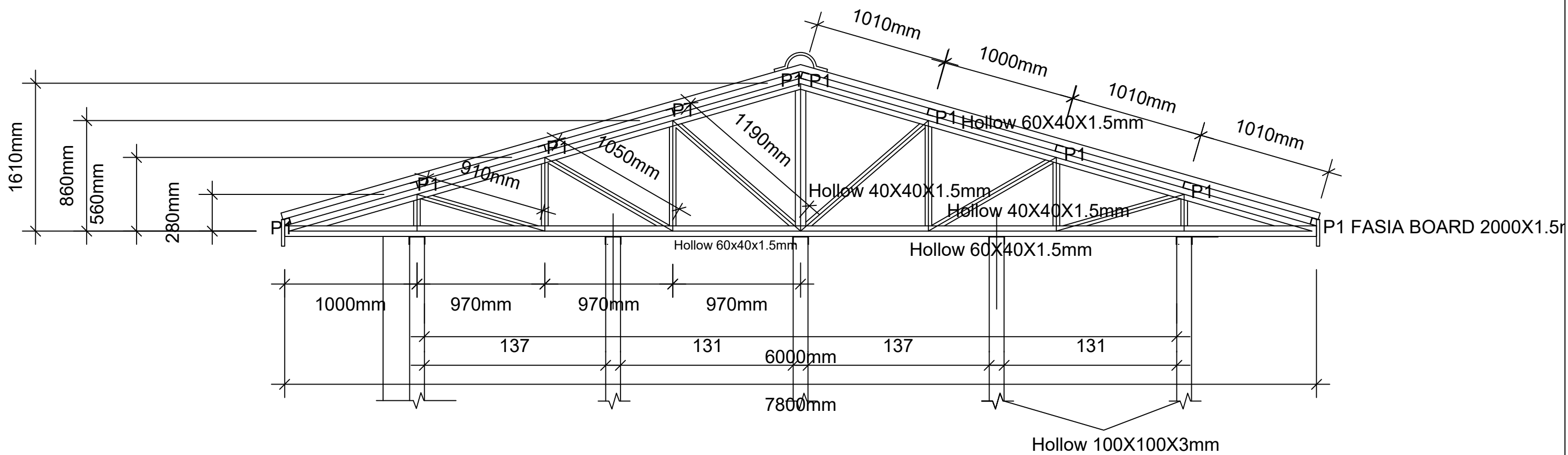
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TRUSS 1 DETAILS
SCALE 1:30



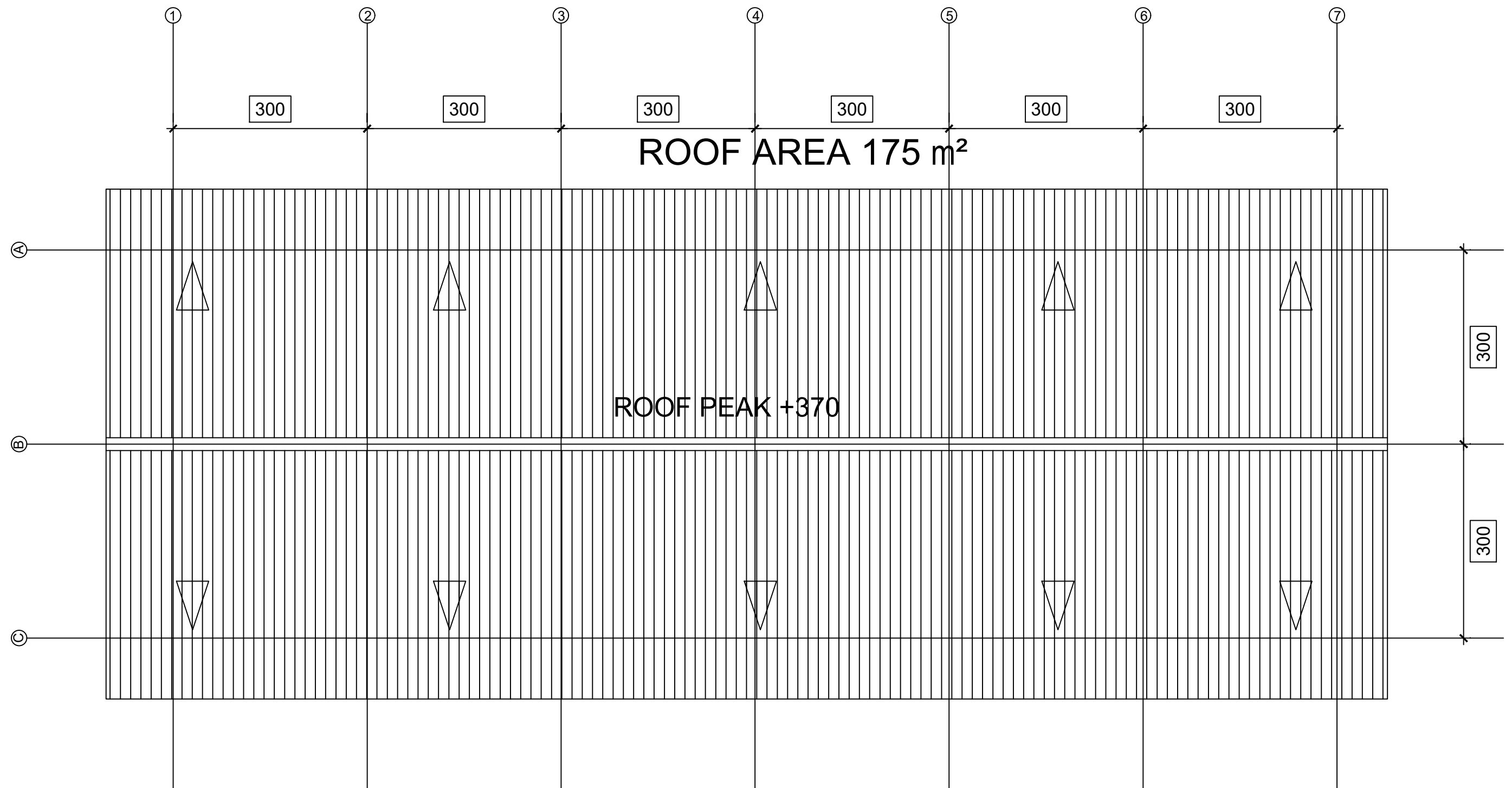
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ROOF ARCH.
SCALE 1:75



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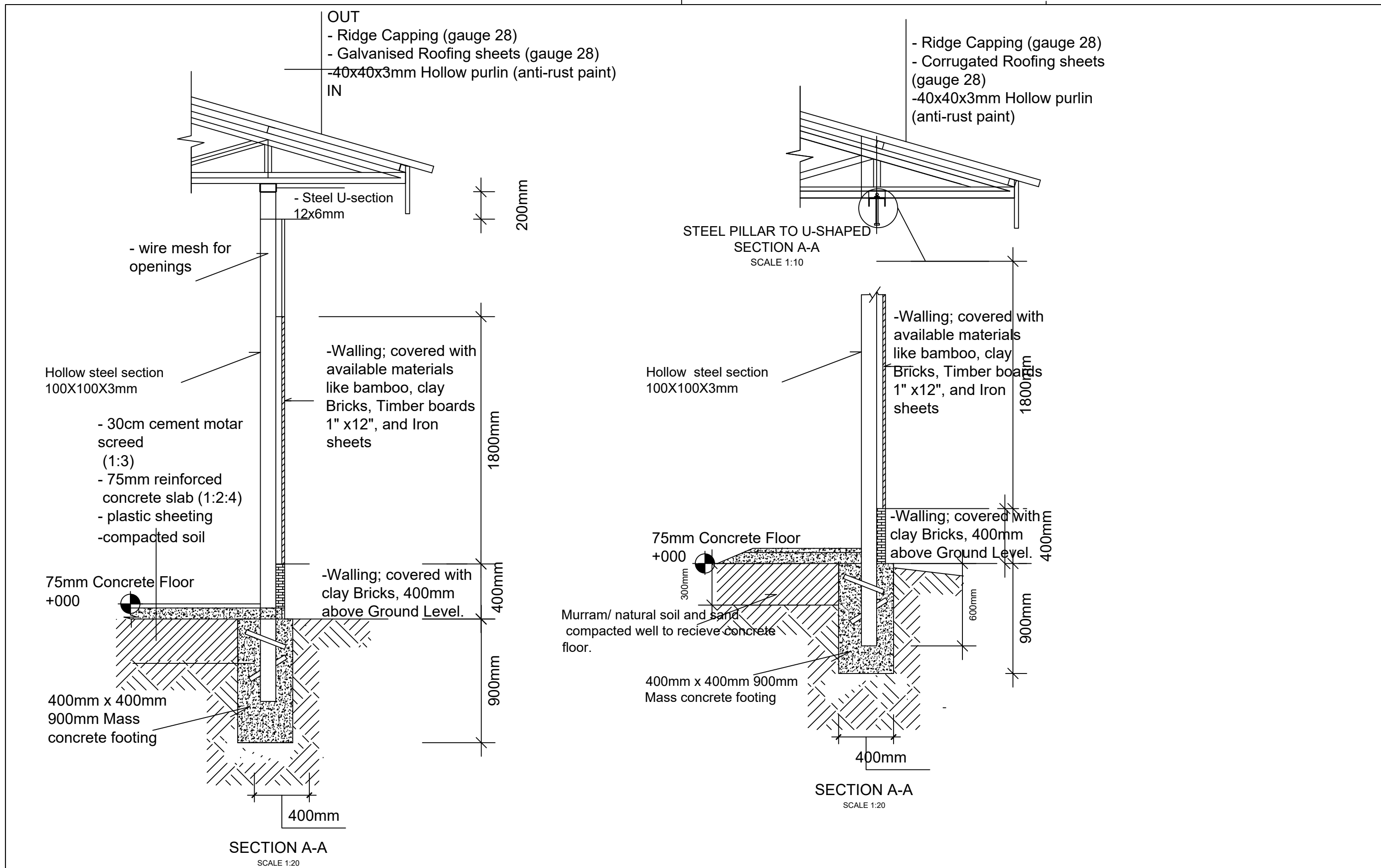
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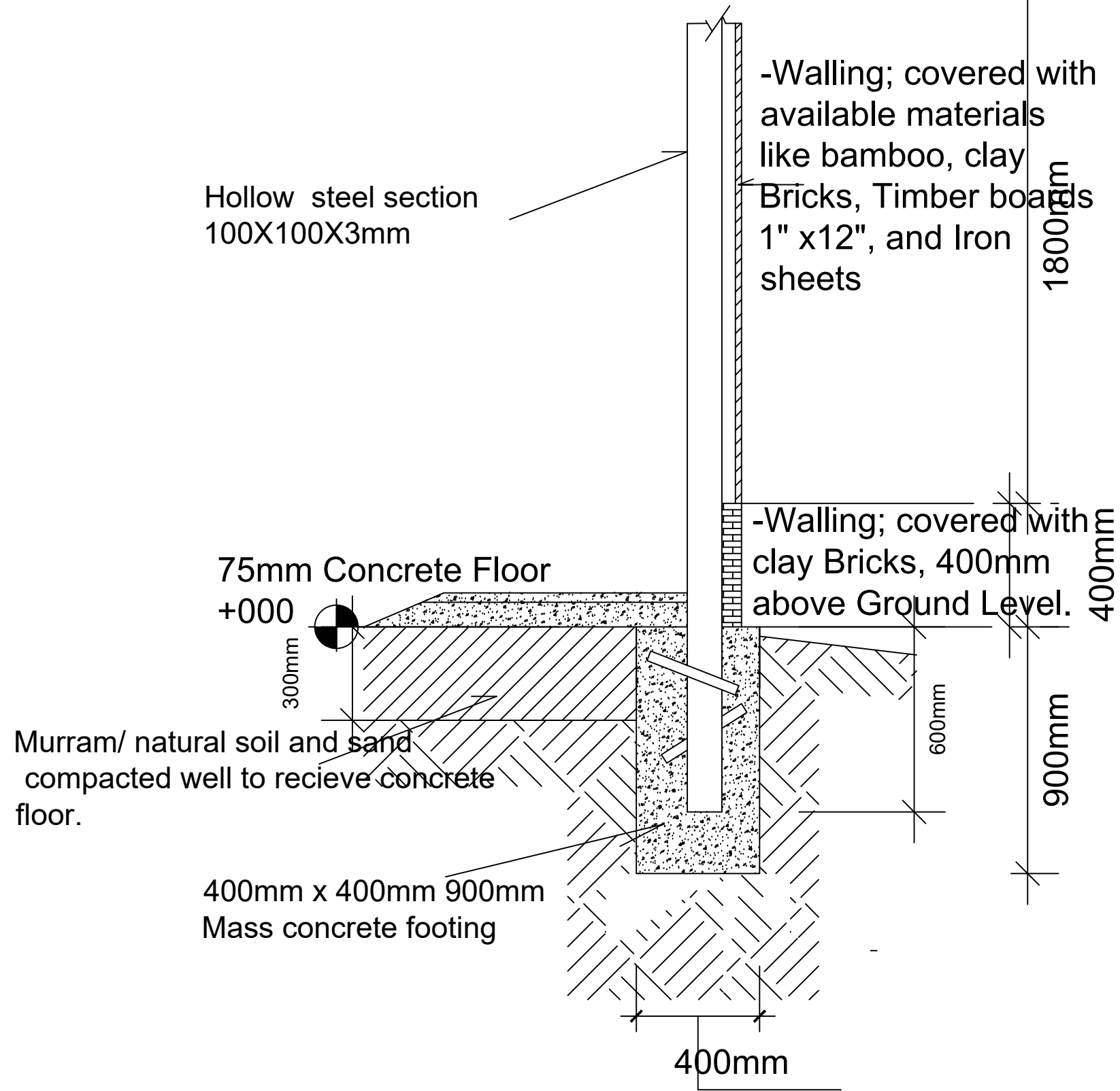
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SECTION A-A
SCALE 1:20




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