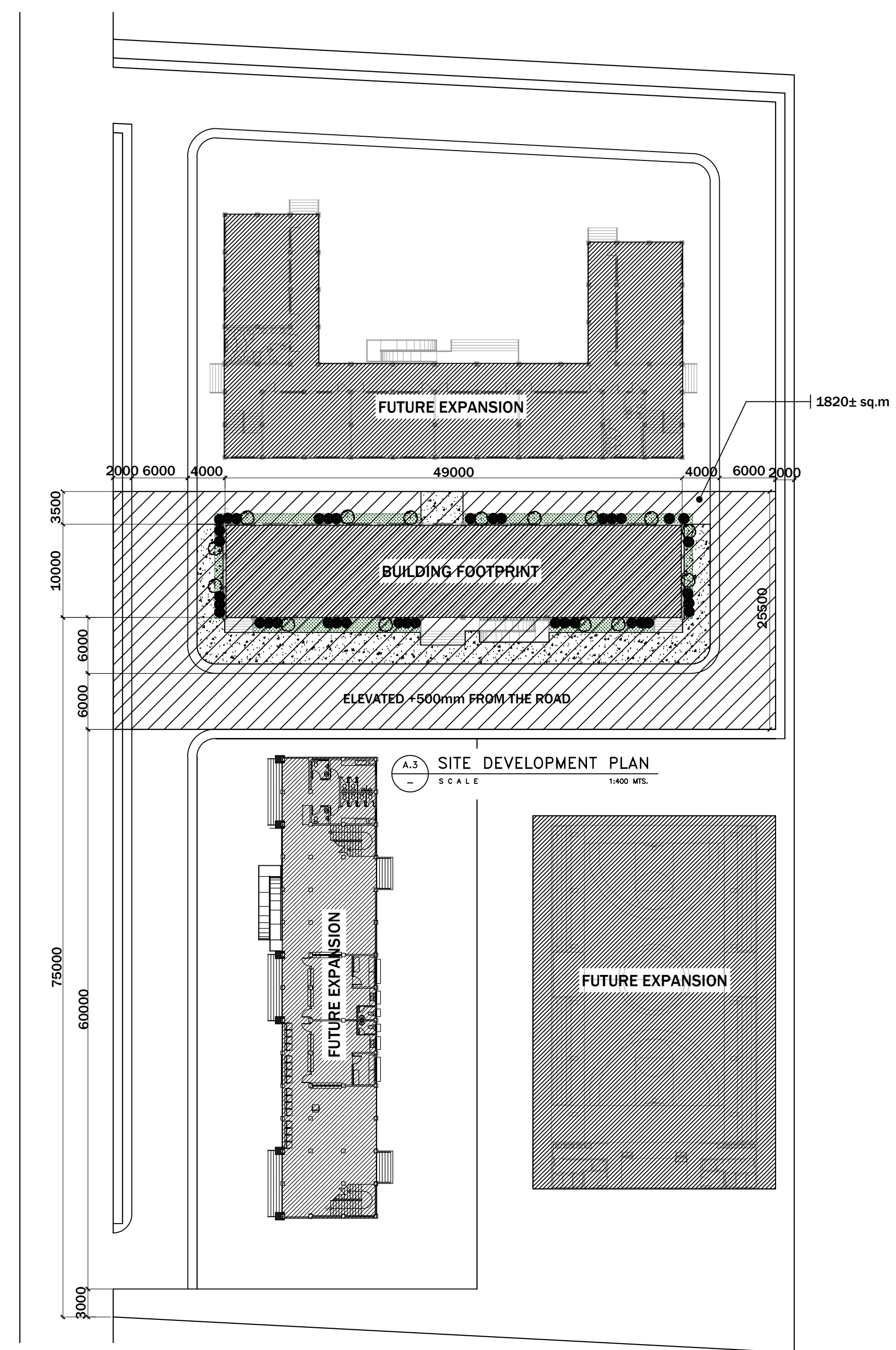


A.1 EXTERIOR PERSPECTIVE
 — SCALE NTS



A.4 MASTER PLAN
 — SCALE 1:400 MTS.



A.2 VICINITY MAP
 — SCALE NTS

DISTRICT/CITY/MUNICIPALITY

LAND USE & ZONING

LINE AND GRADE

ARCHITECTURAL

STRUCTURAL

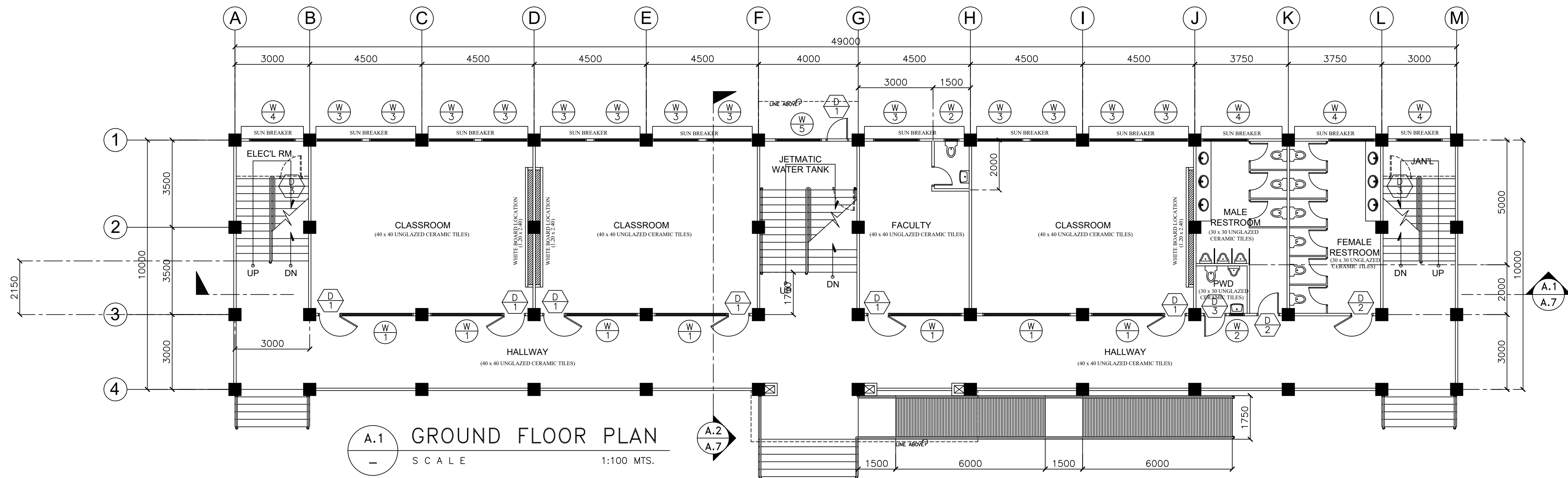
SANITARY

ELECTRICAL

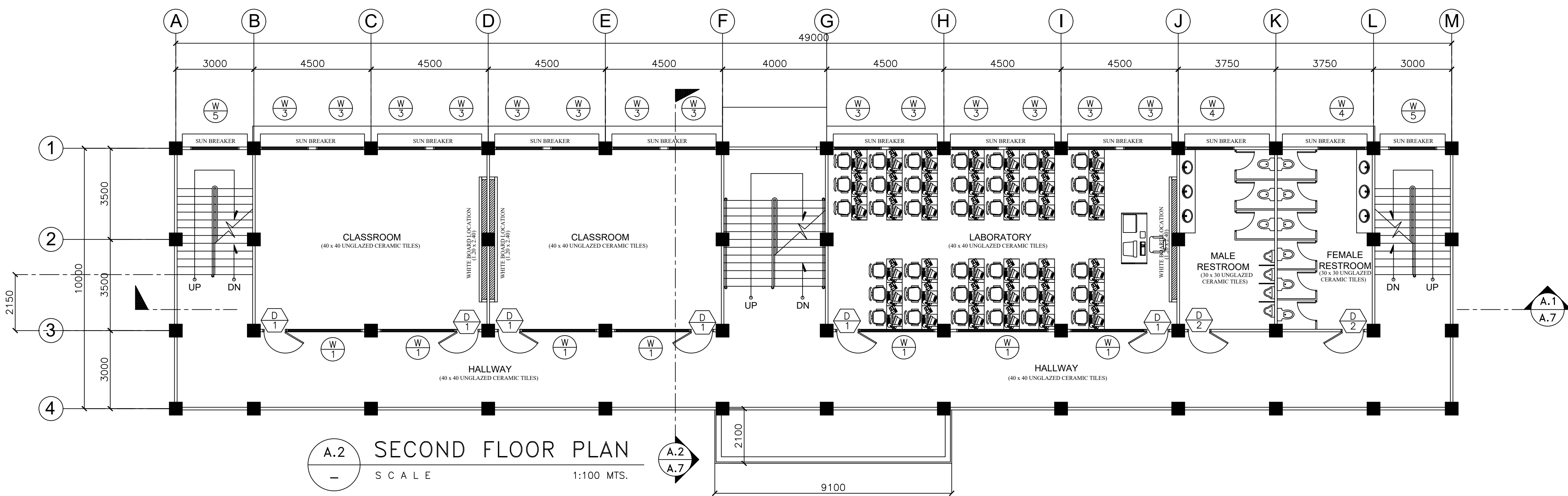
MECHANICAL

	FROM THE OFFICE OF:	PROJECT TITLE:	DESIGN BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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NOTE : EXTERIOR WALLS : 150mm THK
 INTERIOR WALLS : 100mm THK
 TOTAL FLOOR AREA (490sq.m x 3) =1470 sqm.
 TOTAL NUMBER OF ROOMS = 11

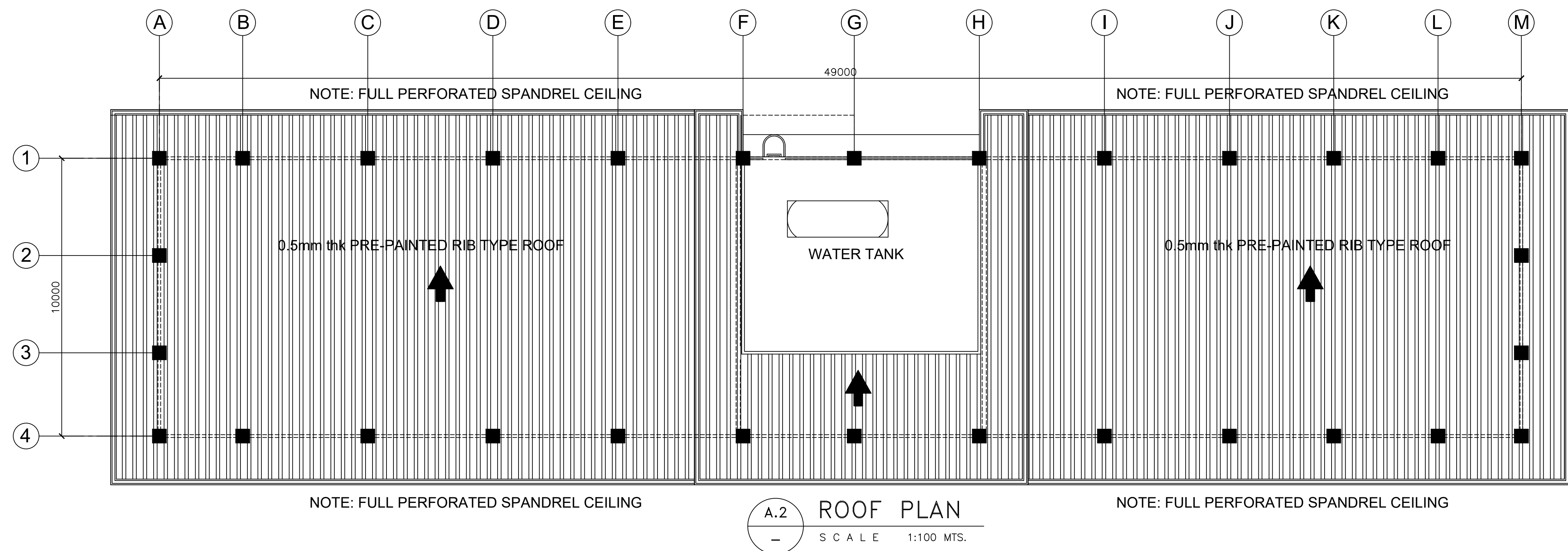
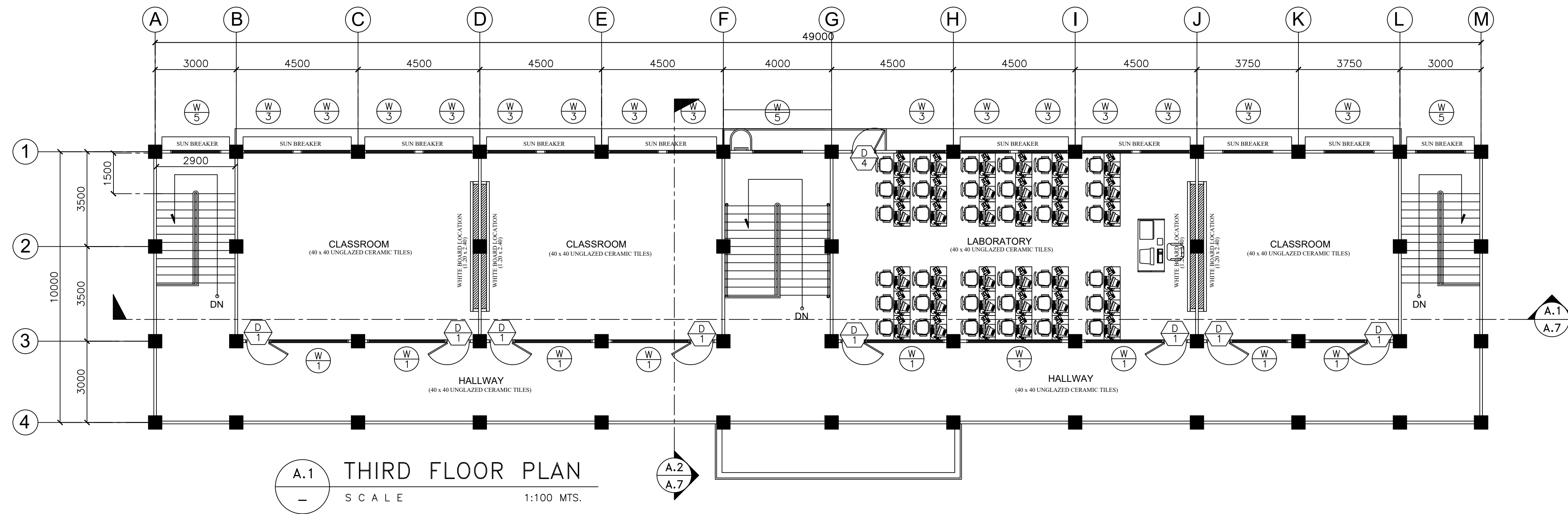


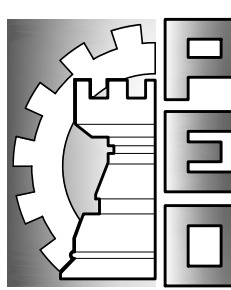
A.1 GROUND FLOOR PLAN
 SCALE 1:100 MTS.

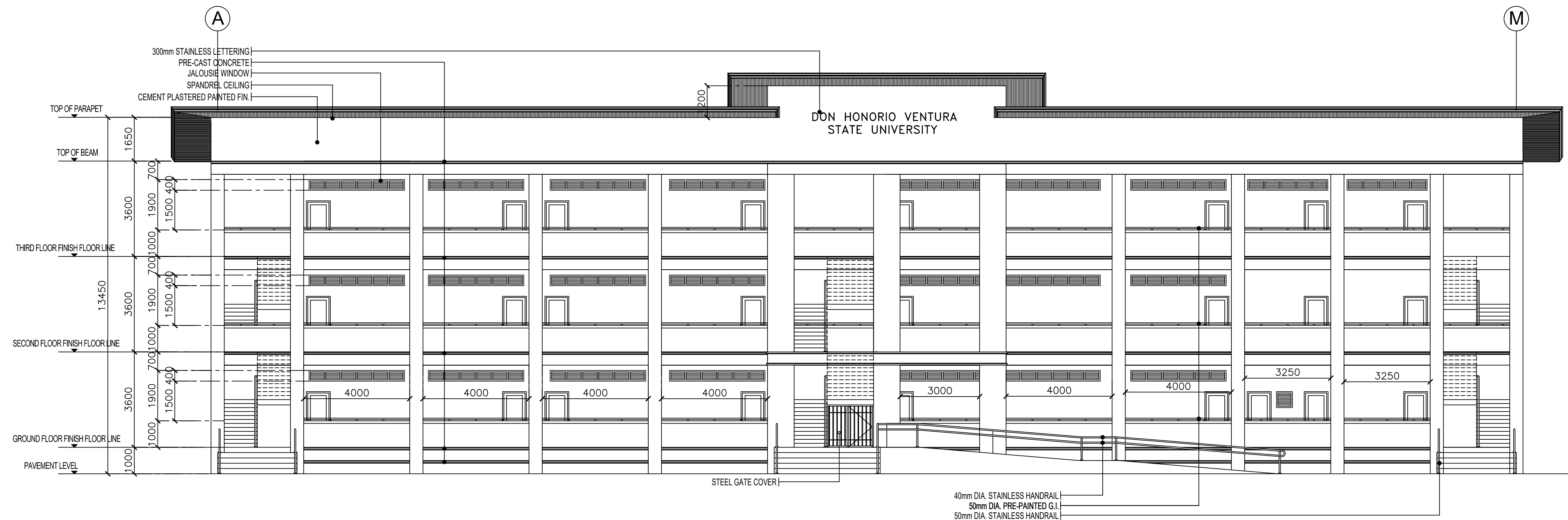


A.2 SECOND FLOOR PLAN
 SCALE 1:100 MTS.

	FROM THE OFFICE OF:	PROJECT TITLE:	DESIGN BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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	FROM THE OFFICE OF:	PROJECT TITLE:	DESIGN BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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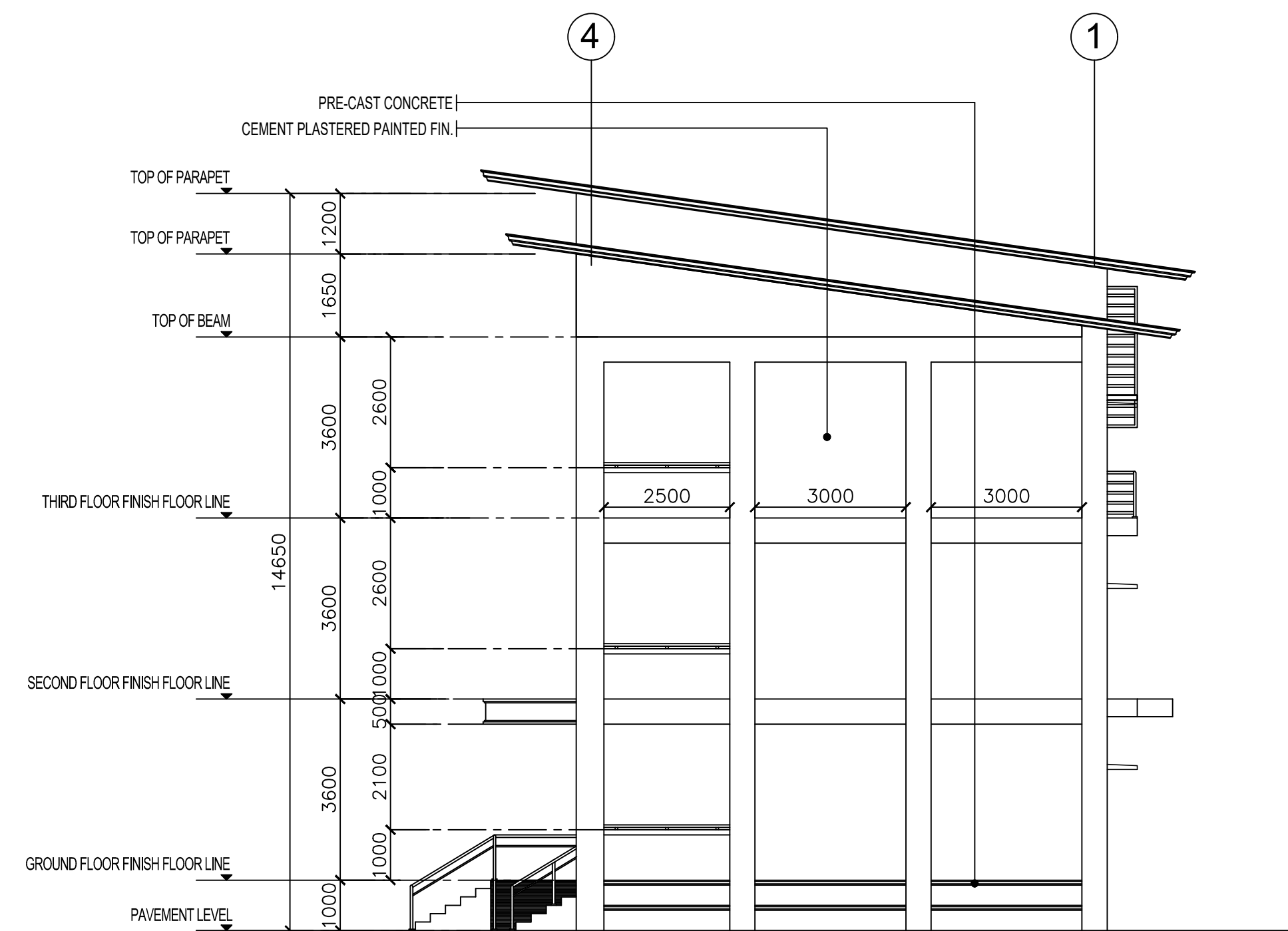


A.1 FRONT ELEVATION
SCALE 1:100 MTS.

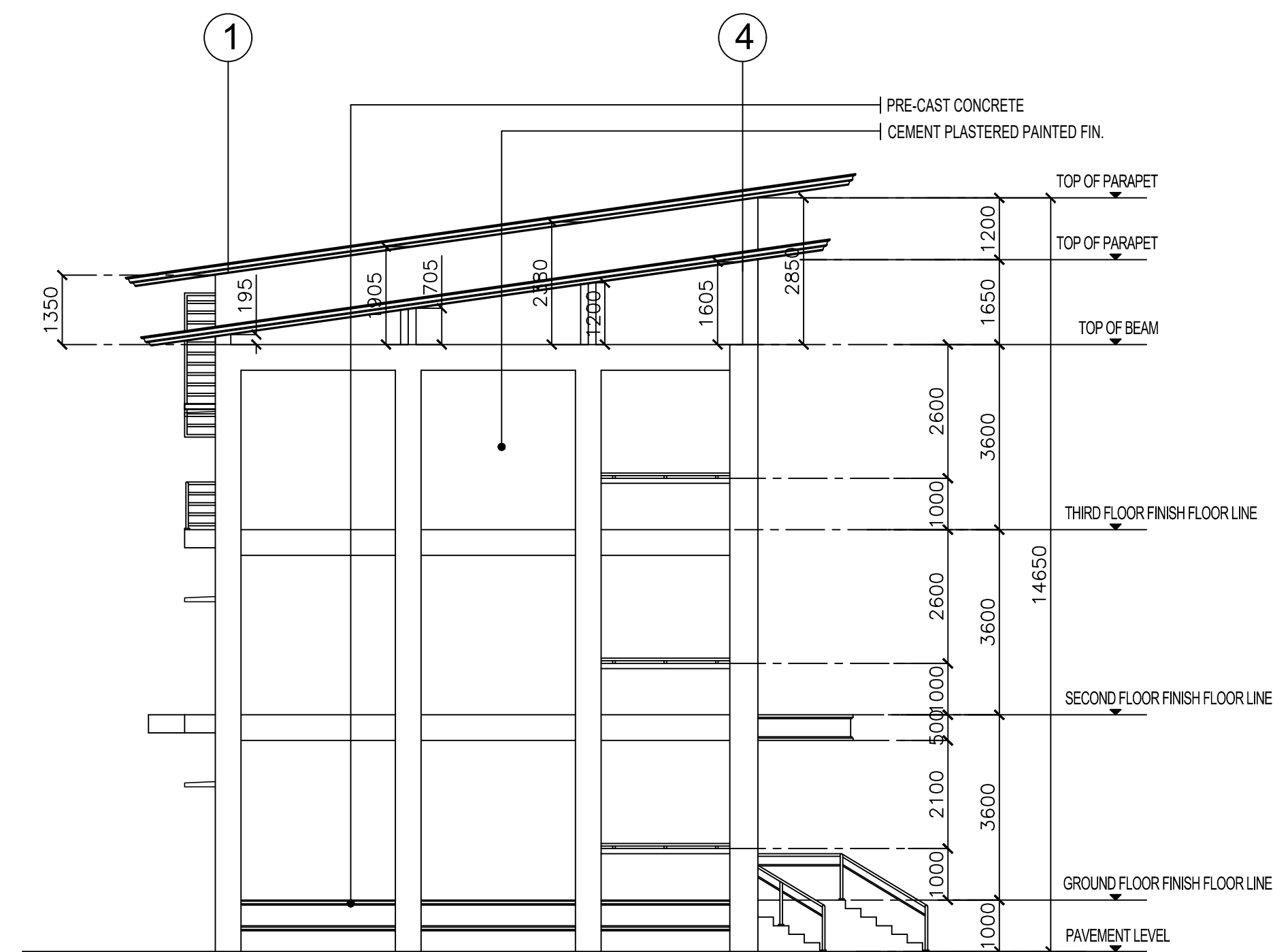


A.2 REAR ELEVATION
SCALE 1:100 MTS.

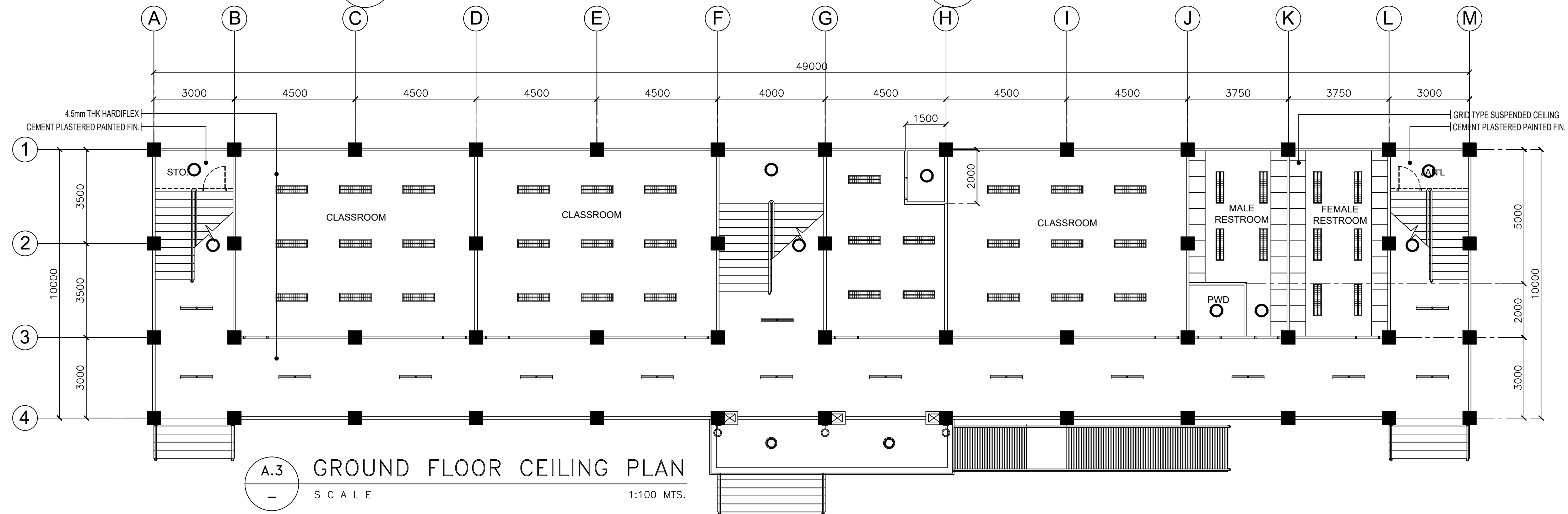
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A.1 RIGHT SIDE ELEVATION
SCALE 1:100 MTS.

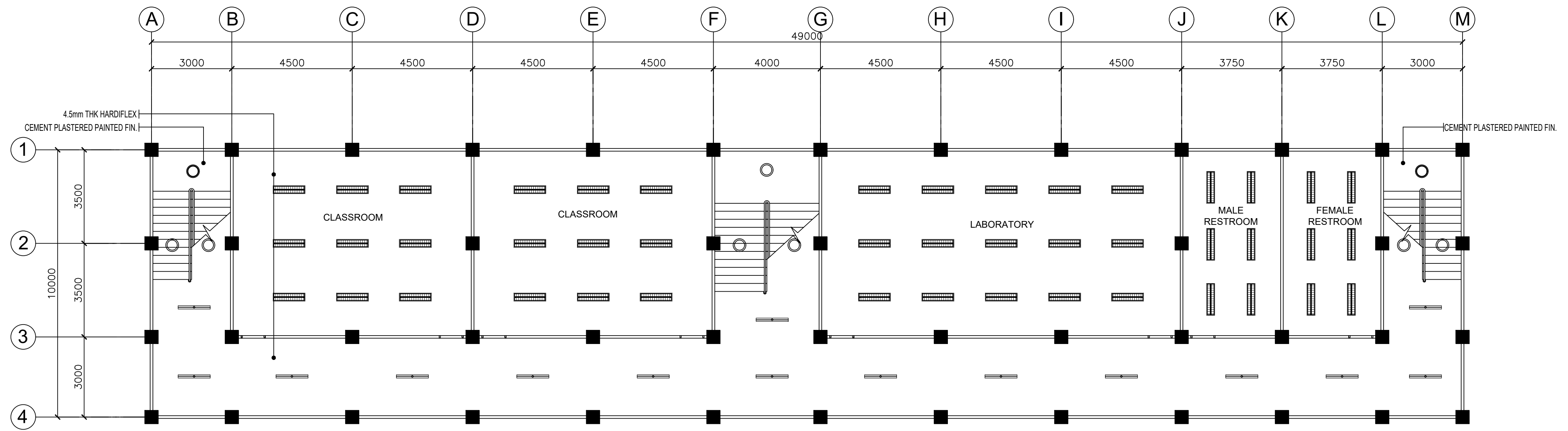


A.2 LEFT SIDE ELEVATION
SCALE 1:100 MTS.

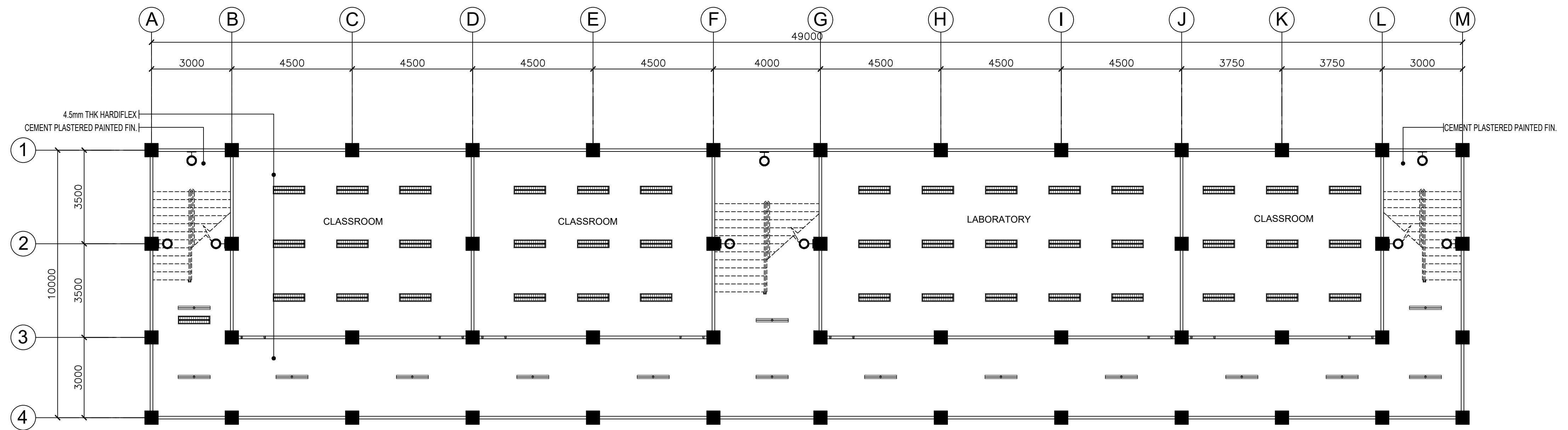


A.3 GROUND FLOOR CEILING PLAN
SCALE 1:100 MTS.

	FROM THE OFFICE OF:	PROJECT TITLE:	DESIGN BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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A.1 SECOND FLOOR CEILING PLAN
A.2 SCALE 1:100 MTS.

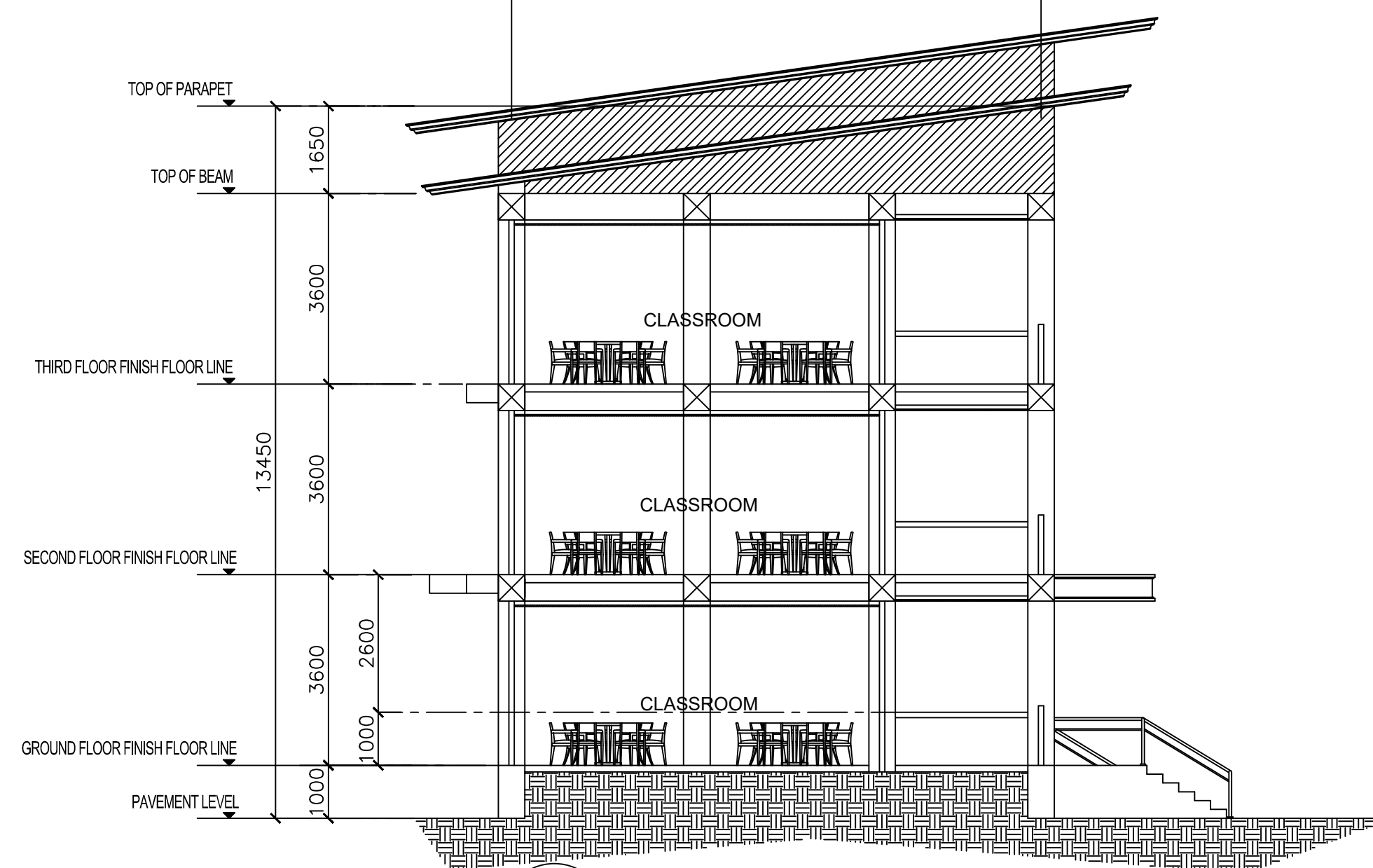


A.2 THIRD FLOOR CEILING PLAN
A.2 SCALE 1:100 MTS.

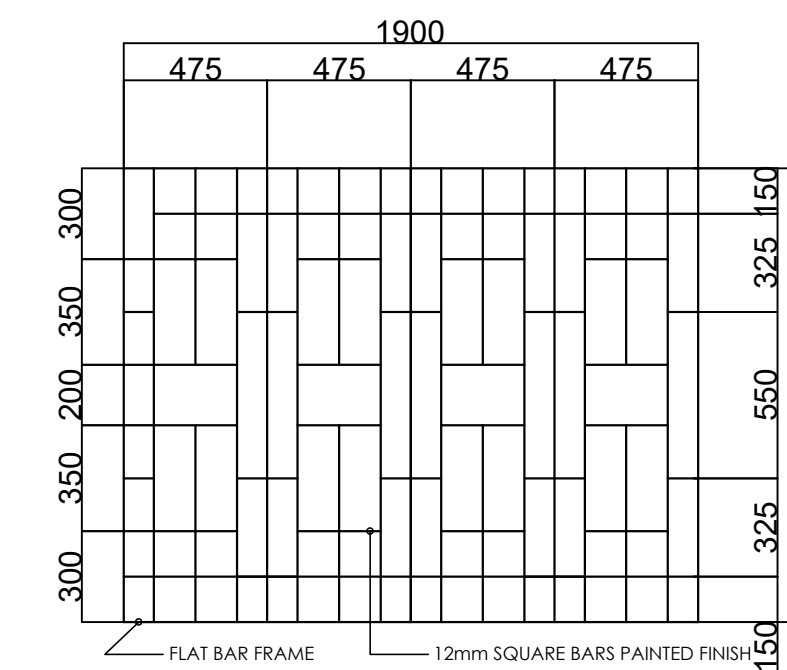
	FROM THE OFFICE OF:	PROJECT TITLE:	DESIGN BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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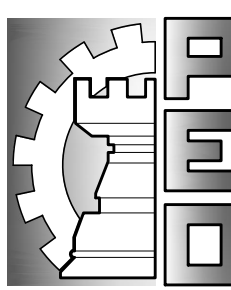
A.1 LONGITUDINAL SECTION
SCALE 1:100 MTS.

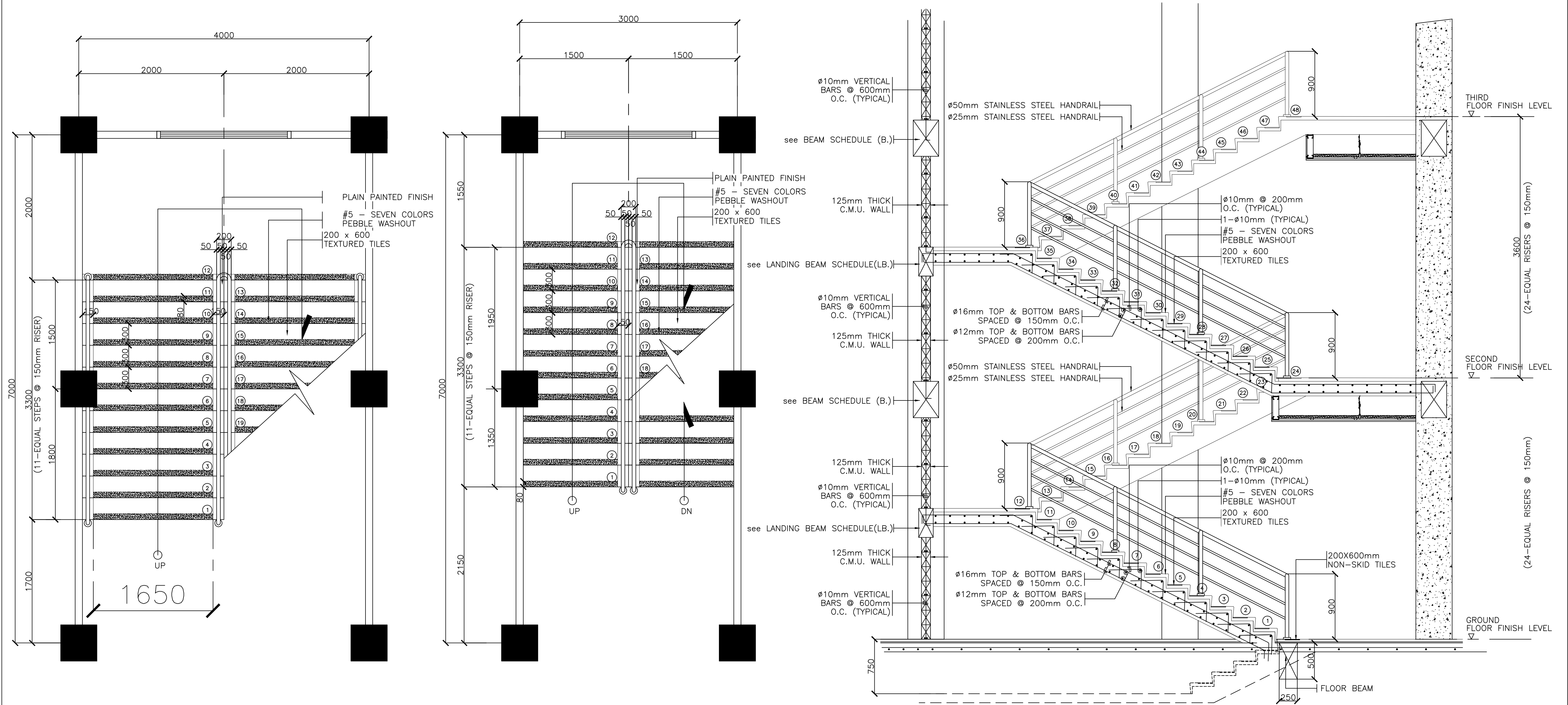


A.2 CROSS SECTION
SCALE 1:100 MTS.

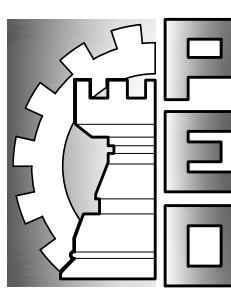


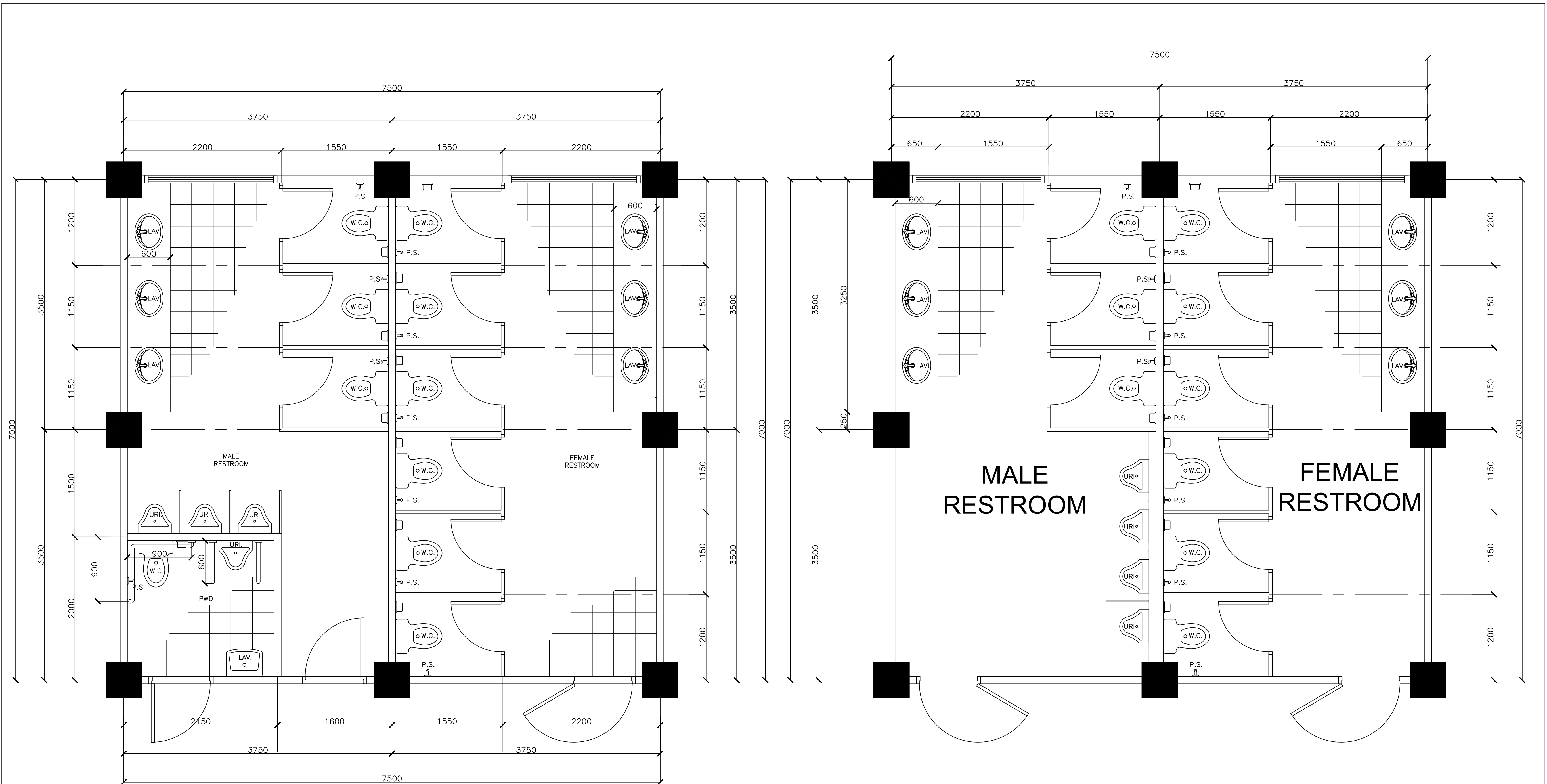
TYP. WINDOW GRILLES DETAIL
SCALE: 1:25 MTS.

	FROM THE OFFICE OF:	PROJECT TITLE:	DESIGN BY:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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A.2 STAIR DETAILS (SECTION)

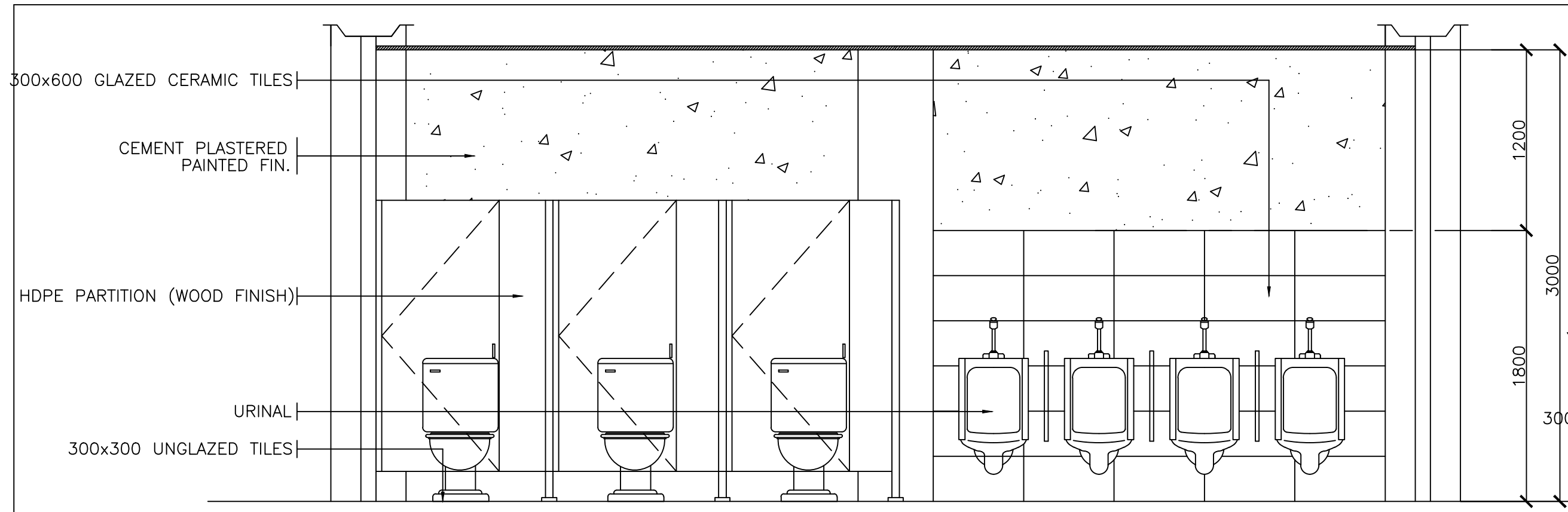
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			<p>RANDY Y. DAVID ENGINEER - III</p>						<p>8 / 35</p>



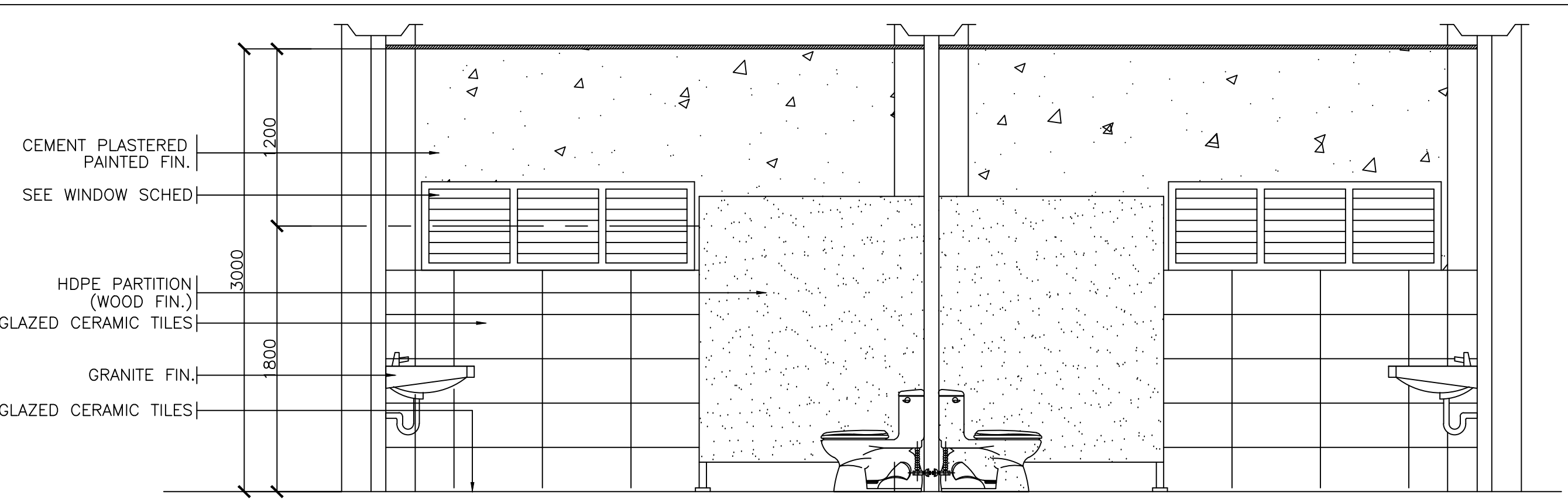
A.1 TOILET DETAIL @ GROUND FLOOR
SCALE 1:30 MTS.

A.2 TOILET DETAIL AT 2ND FLOOR
SCALE 1:30 MTS.

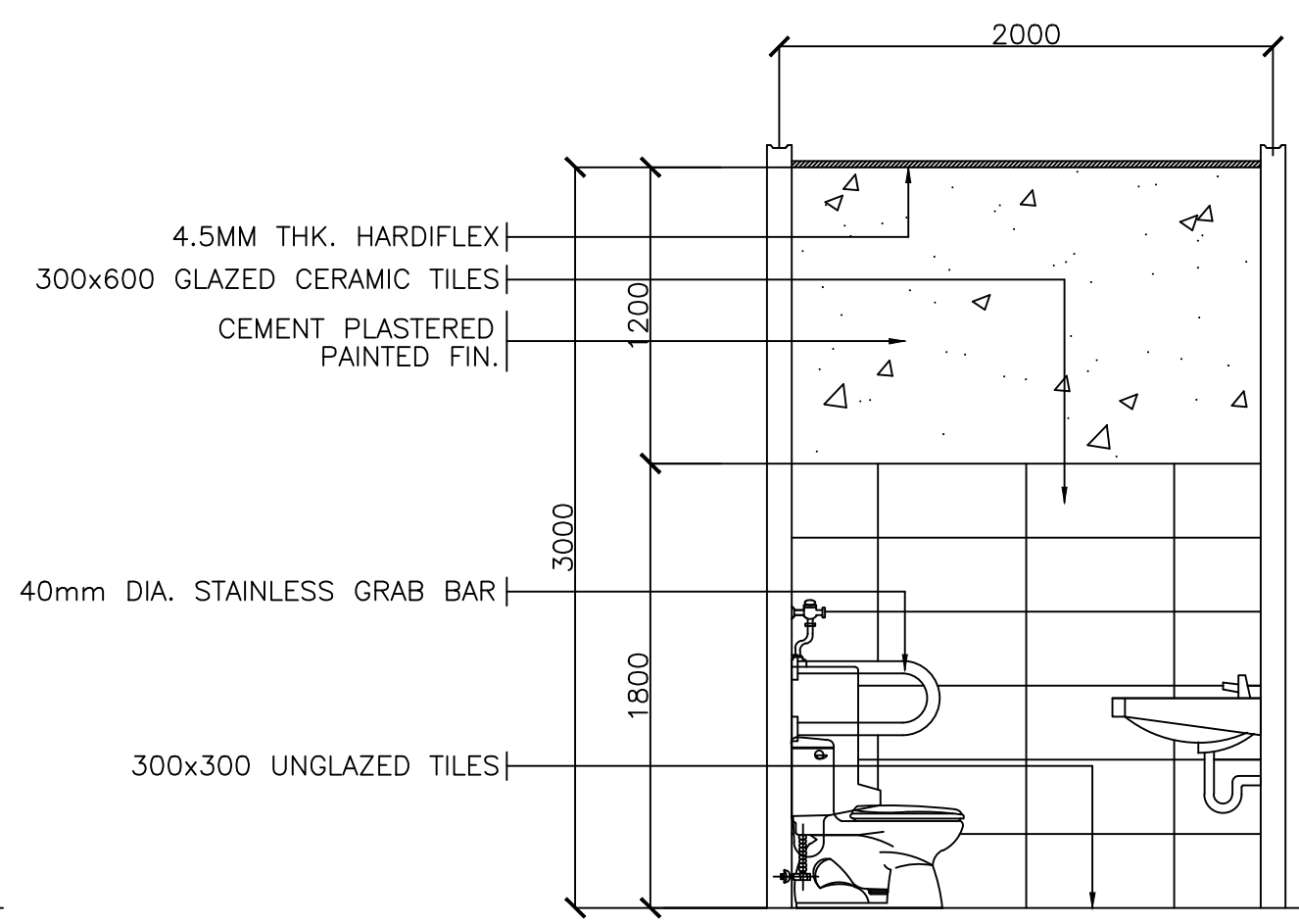
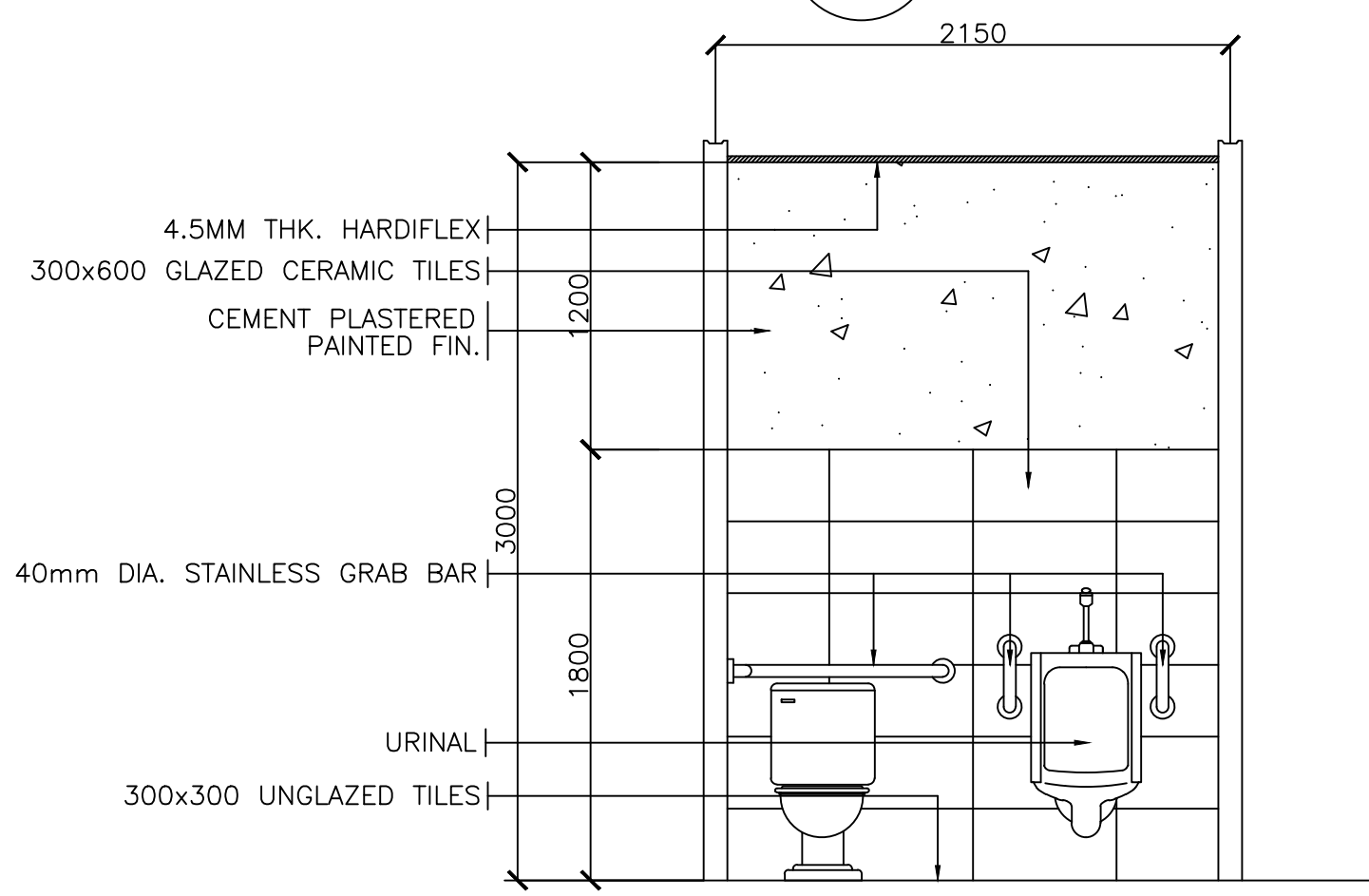
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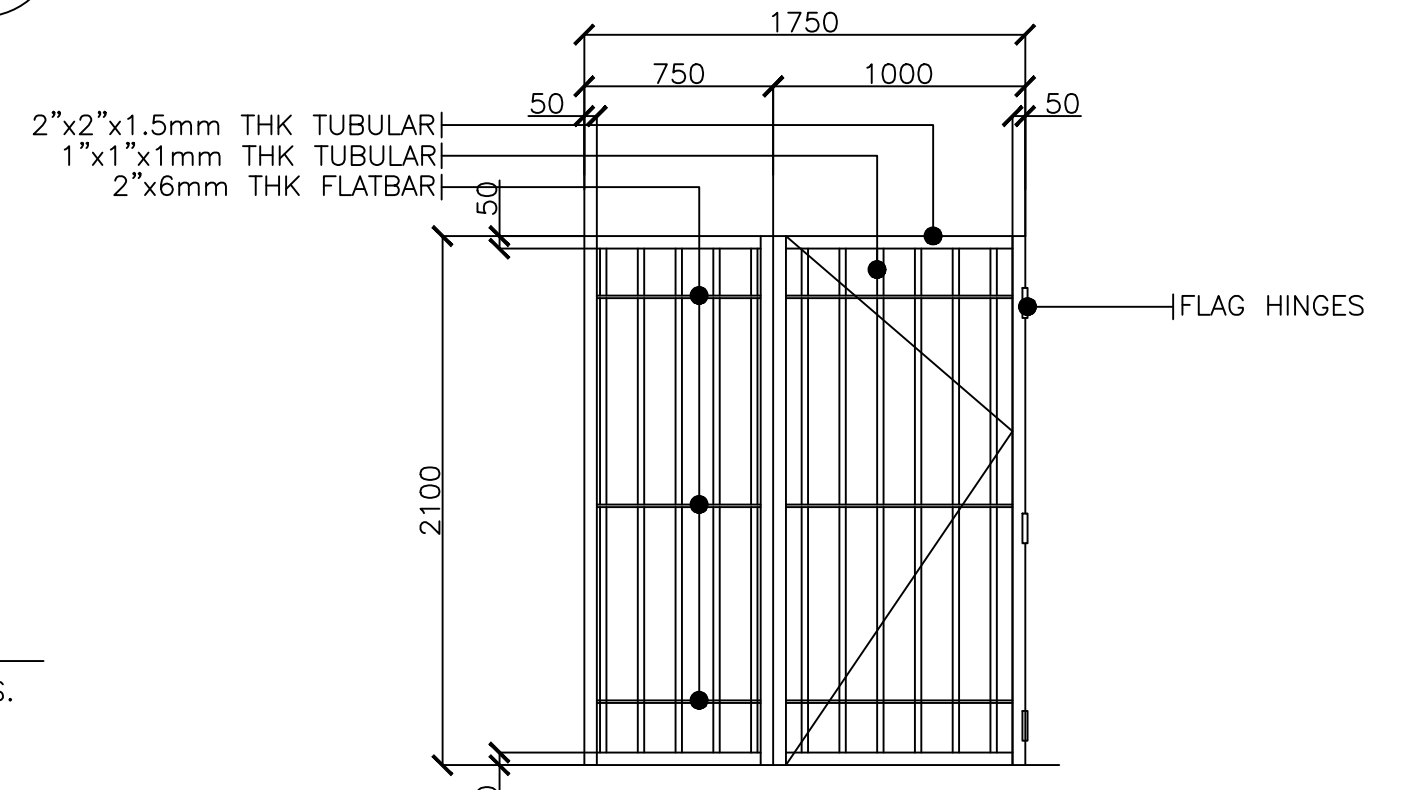
A.1 TOILET DETAIL TYPICAL SECTION
SCALE 1:30 MTS.



A.1 TOILET DETAIL TYPICAL SECTION
SCALE 1:30 MTS.



A.2 PWD TOILET SECTION
SCALE 1:30 MTS.



A.3 GRILLS AT WATER TANK AREA
SCALE 1:30 MTS.

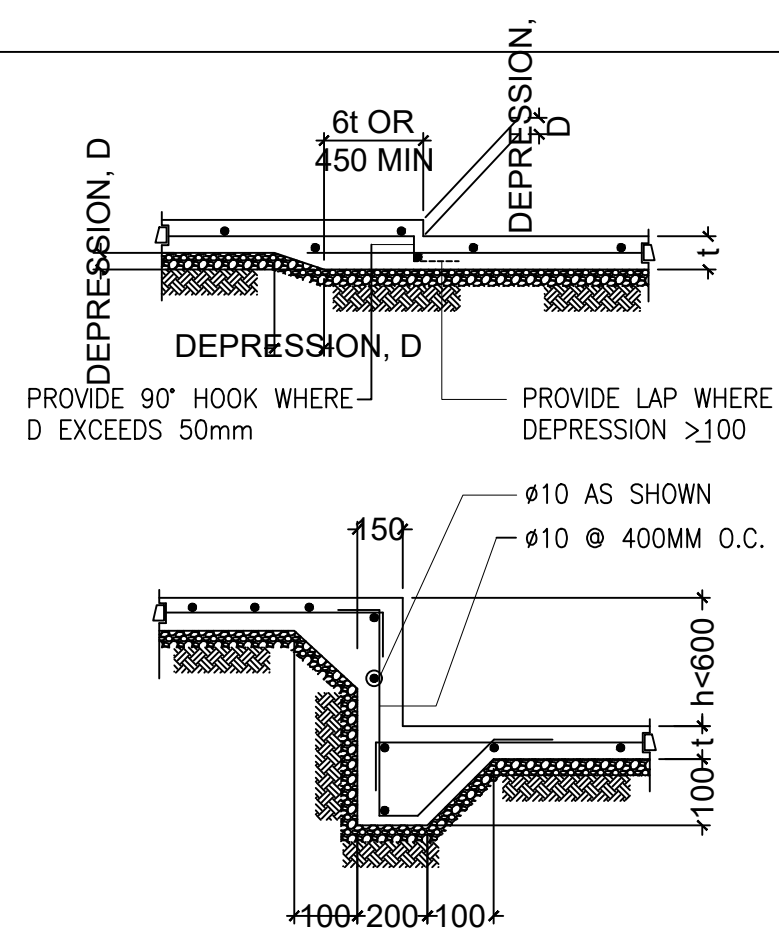
D1	D2	D3	D4																																																																																				
<table border="1"> <tr><th colspan="2">SPECIFICATIONS</th><th>FINISHES</th></tr> <tr><td>TYPE</td><td>SINGLE SWING PANEL DOOR</td><td>GRID TYPE</td></tr> <tr><td>CORE</td><td>SOLID WOOD</td><td></td></tr> <tr><td>FACING</td><td>STAINED</td><td>VARNISHED</td></tr> <tr><td>LEAF THICKNESS</td><td>44mm</td><td></td></tr> <tr><td>JAMB</td><td>GALVANIZED</td><td>VARNISHED</td></tr> <tr><td colspan="3">HARDWARE LOCKSET, DOOR STOPPER, 4-HINGES PER DOOR.</td></tr> </table>	SPECIFICATIONS		FINISHES	TYPE	SINGLE SWING PANEL DOOR	GRID TYPE	CORE	SOLID WOOD		FACING	STAINED	VARNISHED	LEAF THICKNESS	44mm		JAMB	GALVANIZED	VARNISHED	HARDWARE LOCKSET, DOOR STOPPER, 4-HINGES PER DOOR.			<table border="1"> <tr><th colspan="2">SPECIFICATIONS</th><th>FINISHES</th></tr> <tr><td>TYPE</td><td>WOOD PANEL SWING DOOR</td><td></td></tr> <tr><td>CORE</td><td>SOLID WOOD</td><td></td></tr> <tr><td>FACING</td><td>NATURAL</td><td>VARNISHED</td></tr> <tr><td>LEAF THICKNESS</td><td>44mm</td><td></td></tr> <tr><td>JAMB</td><td>GALVANIZED</td><td>VARNISHED</td></tr> <tr><td colspan="3">HARDWARE LOCKSET, DOOR STOPPER, 4-HINGES.</td></tr> </table>	SPECIFICATIONS		FINISHES	TYPE	WOOD PANEL SWING DOOR		CORE	SOLID WOOD		FACING	NATURAL	VARNISHED	LEAF THICKNESS	44mm		JAMB	GALVANIZED	VARNISHED	HARDWARE LOCKSET, DOOR STOPPER, 4-HINGES.			<table border="1"> <tr><th colspan="2">SPECIFICATIONS</th><th>FINISHES</th></tr> <tr><td>TYPE</td><td>DECORATIVE WOOD PANEL SWING DOOR</td><td></td></tr> <tr><td>CORE</td><td>SOLID WOOD</td><td></td></tr> <tr><td>FACING</td><td>DECORATIVE WOOD PANEL</td><td>VARNISHED</td></tr> <tr><td>LEAF THICKNESS</td><td>44mm</td><td></td></tr> <tr><td>JAMB</td><td>GALVANIZED</td><td>PAINTED</td></tr> <tr><td colspan="3">HARDWARE LOCKSET, DOOR STOPPER, DOOR CLOSER, 4 PCS. HINGES</td></tr> </table>	SPECIFICATIONS		FINISHES	TYPE	DECORATIVE WOOD PANEL SWING DOOR		CORE	SOLID WOOD		FACING	DECORATIVE WOOD PANEL	VARNISHED	LEAF THICKNESS	44mm		JAMB	GALVANIZED	PAINTED	HARDWARE LOCKSET, DOOR STOPPER, DOOR CLOSER, 4 PCS. HINGES			<table border="1"> <tr><th colspan="2">SPECIFICATIONS</th><th>FINISHES</th></tr> <tr><td>TYPE</td><td>SINGLE SWING LOUVRE DOOR</td><td></td></tr> <tr><td>CORE</td><td>GALVANIZED IRON</td><td></td></tr> <tr><td>FACING</td><td>GALVANIZED IRON</td><td>PAINTED</td></tr> <tr><td>LEAF THICKNESS</td><td>50mm</td><td></td></tr> <tr><td>JAMB</td><td>GALVANIZED</td><td>PAINTED</td></tr> <tr><td colspan="3">HARDWARE LOCKSET, DOOR STOPPER, 4 PCS. HINGES</td></tr> </table>	SPECIFICATIONS		FINISHES	TYPE	SINGLE SWING LOUVRE DOOR		CORE	GALVANIZED IRON		FACING	GALVANIZED IRON	PAINTED	LEAF THICKNESS	50mm		JAMB	GALVANIZED	PAINTED	HARDWARE LOCKSET, DOOR STOPPER, 4 PCS. HINGES		
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A.4 DOOR SCHEDULES
SCALE 1:30 MTS.

W1	W2	W3	W4	W5																																																																																																									
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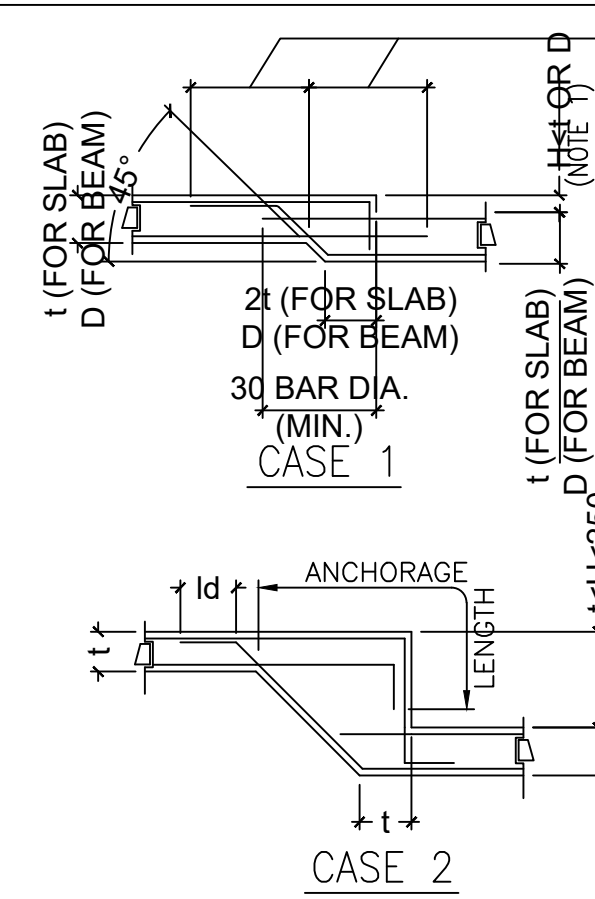
A.5 WINDOW SCHEDULES
SCALE 1:30 MTS.

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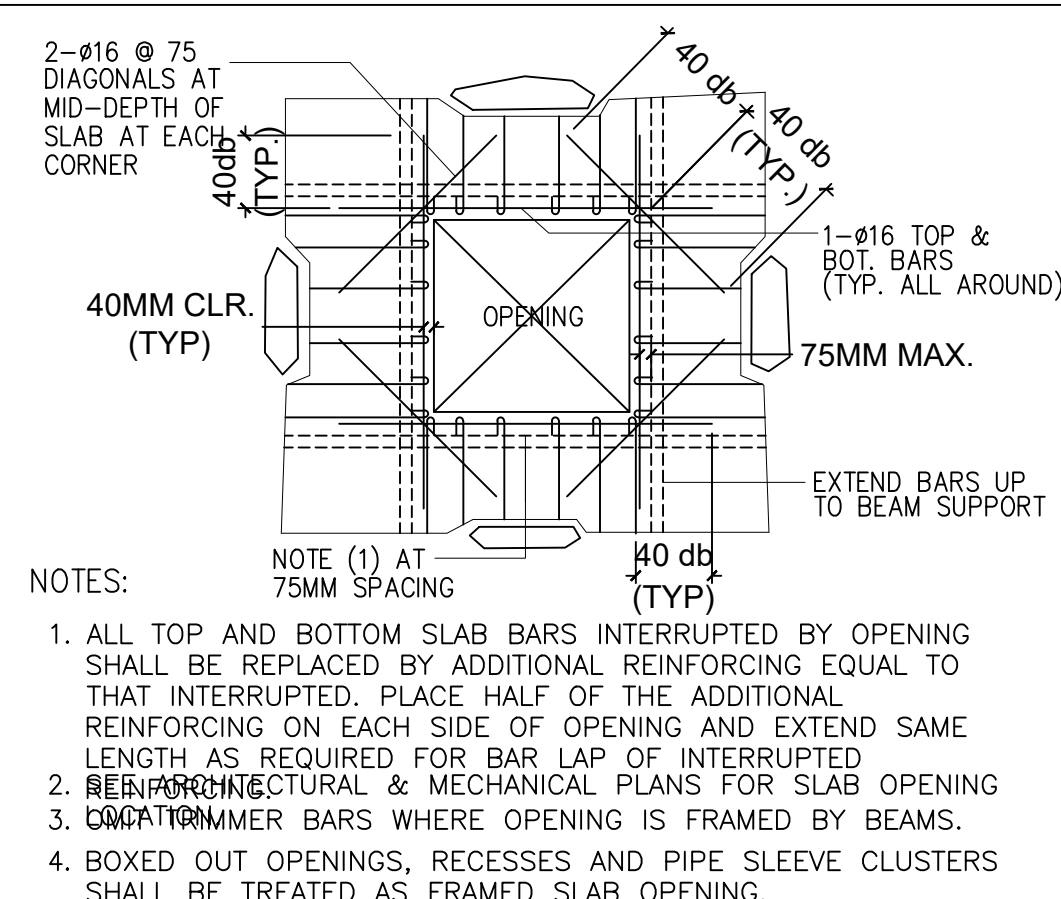
DEPRESSED SLAB ON GRADE & SLAB EDGE DETAILS

SCALE NTS



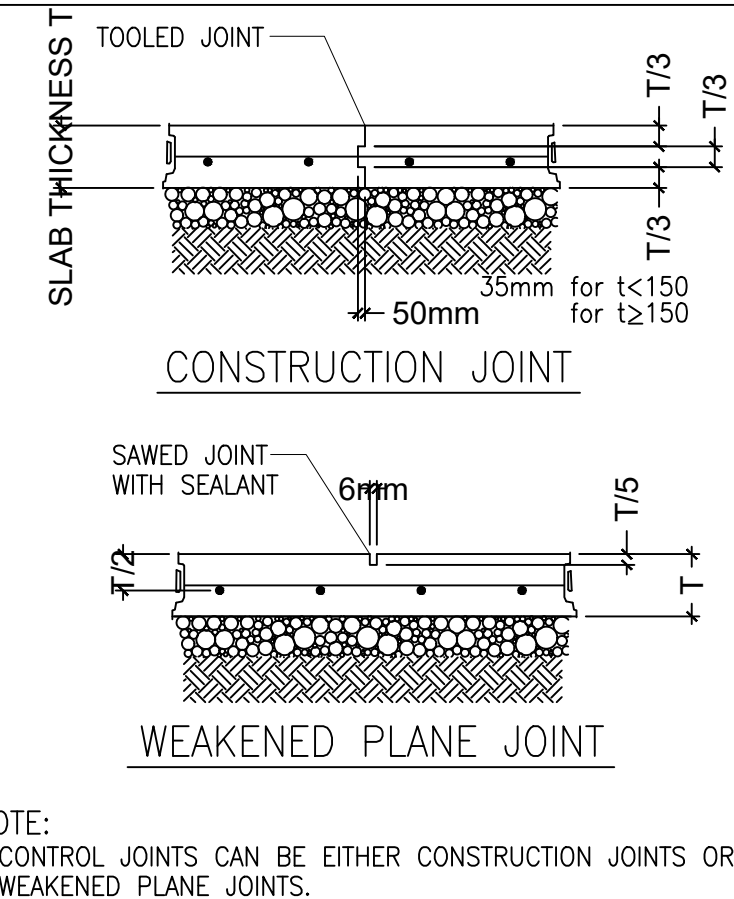
TYPICAL BEAM OR SUSPENDED SLAB CHANGE OF SOFFIT DETAILS

SCALE NTS



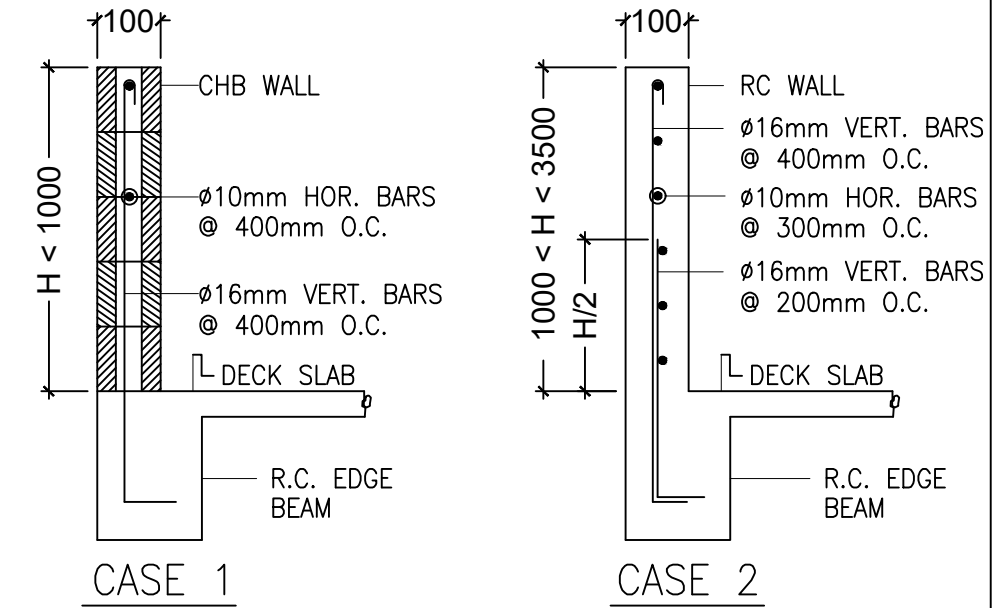
TYPICAL SLAB OPENING DETAIL

SCALE NTS

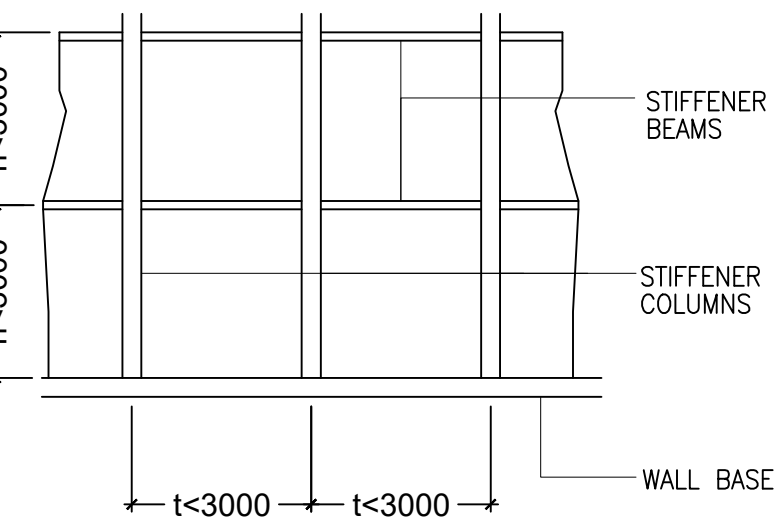


CONTROL JOINTS FOR SLAB-ON GRADE

SCALE NTS

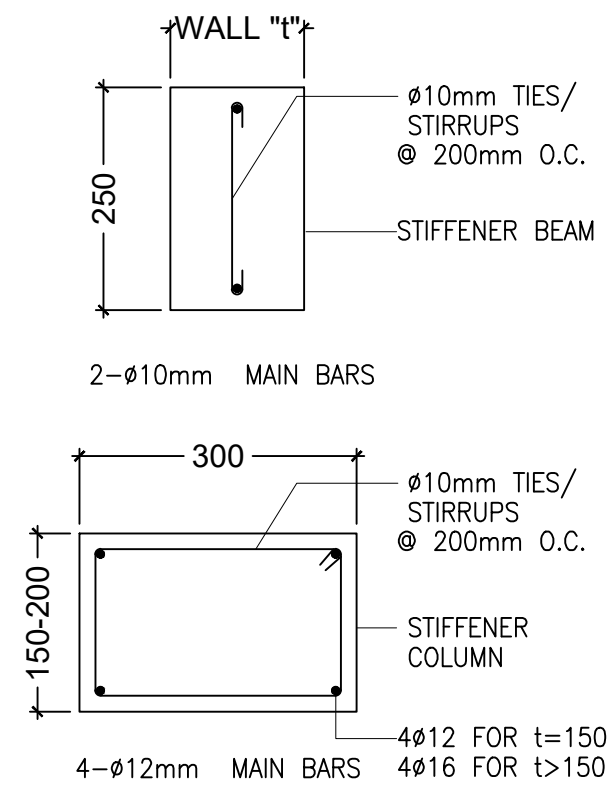


NOTE: (UNLESS OTHERWISE NOTED ON PLANS)



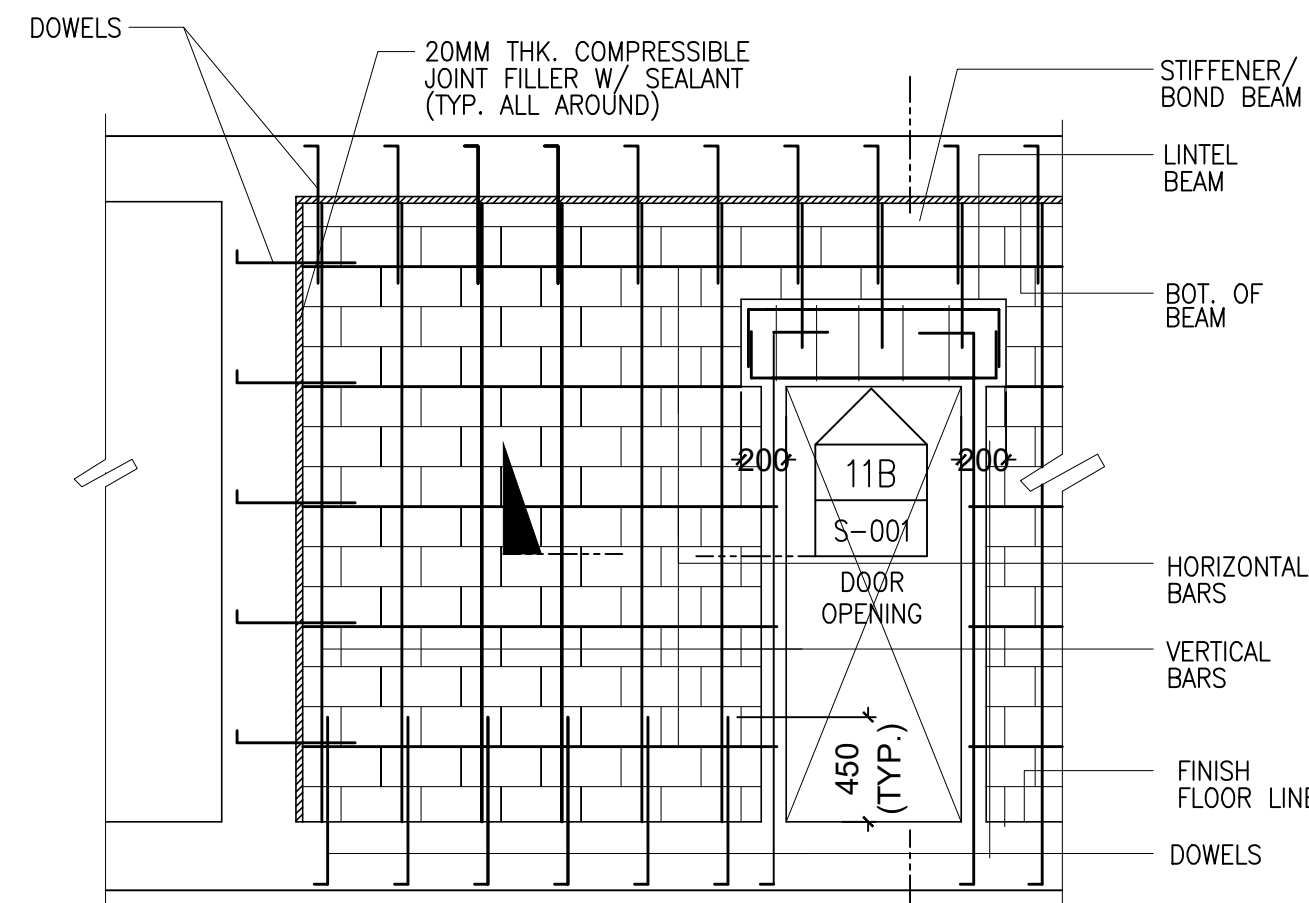
TYP. STIFFENER BEAMS & COLUMNS

SCALE NTS



TYP. PARAPET SECTION DETAILS

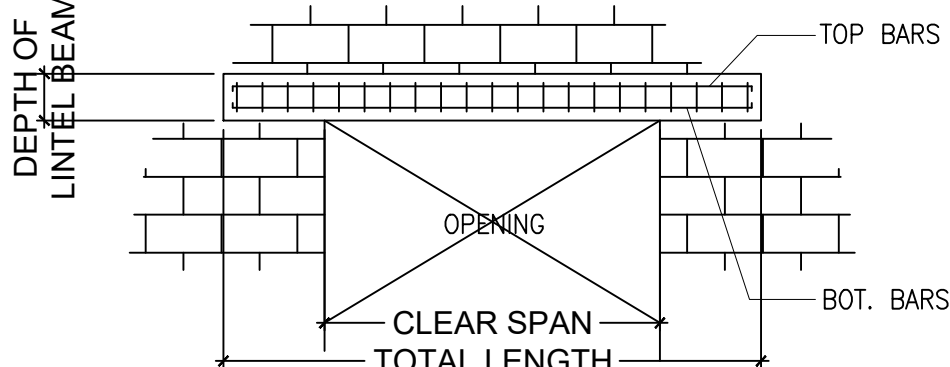
SCALE NTS



TYPICAL STAIR ON GRADE

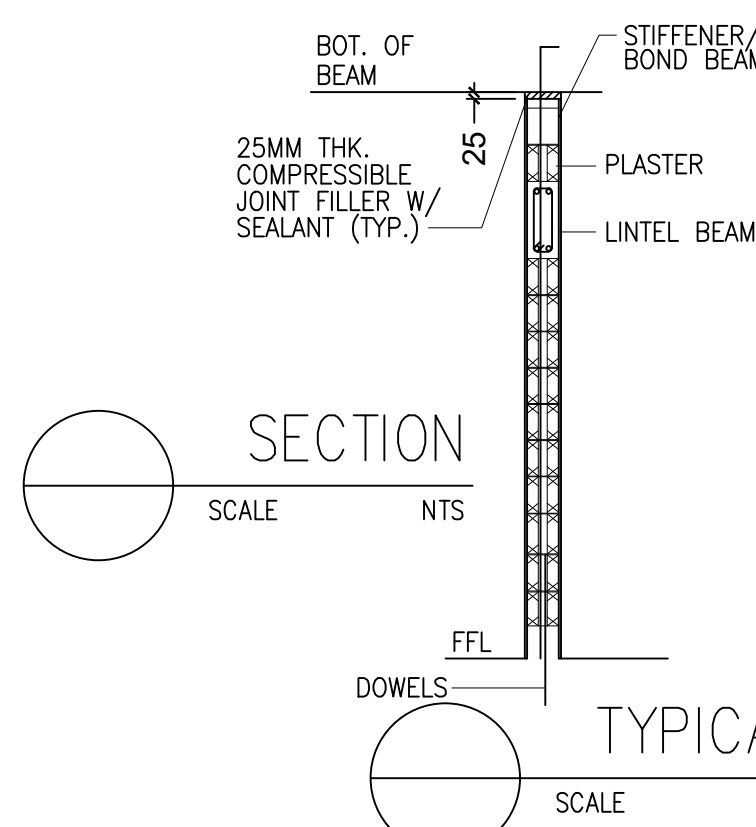
SCALE NTS

LINTEL IN BLOCK WALLS (SAME THICKNESS AS CMU)						
CLEAR SPAN L mm	TOTAL LENGTH mm	MIN. f _c Mpa	HEIGHT OF LINTEL BEAM (mm)	REINFORCEMENT		STIRRUPS
				BOTTOM	TOP	
1200	1800	13.8	200	2-#10mm	2-#10mm	#10mm @ 200
1500	2100	13.8	225	2-#12mm	2-#12mm	#10mm @ 200
1800	2400	13.8	250	2-#16mm	2-#16mm	#10mm @ 200
2100	2700	17.2	250	2-#16mm	2-#16mm	#10mm @ 200
2400	3000	17.2	300	2-#16mm	2-#16mm	#10mm @ 200
2700	3300	17.2	300	2-#16mm	2-#16mm	#10mm @ 200
3000	3800	17.2	350	3-#16mm	2-#16mm	#10mm @ 200
3300	4100	17.2	400	3-#16mm	2-#16mm	#10mm @ 200
3600	4400	17.2	450	4-#16mm	2-#16mm	#10mm @ 200



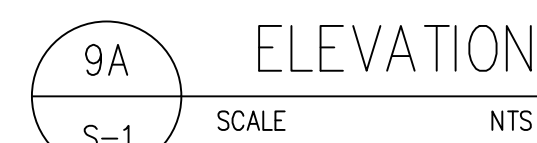
REINFORCEMENT CONCRETE LINTEL BEAM IN CHB WALLS

SCALE NTS



TYPICAL CHB WALL DETAILS

SCALE NTS



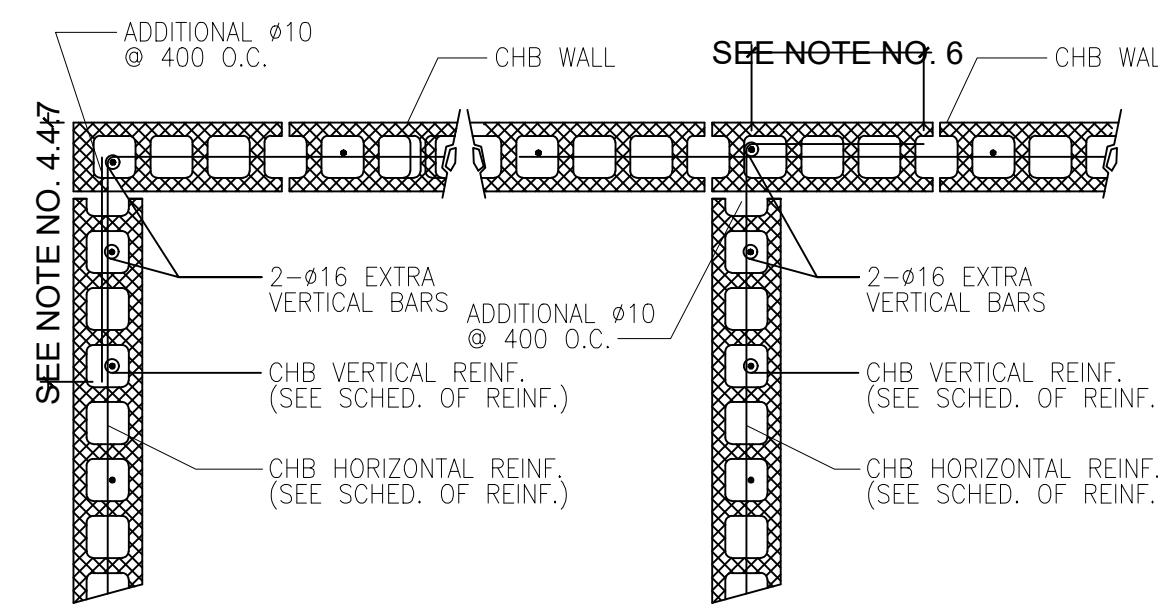
ELEVATION

SCALE NTS



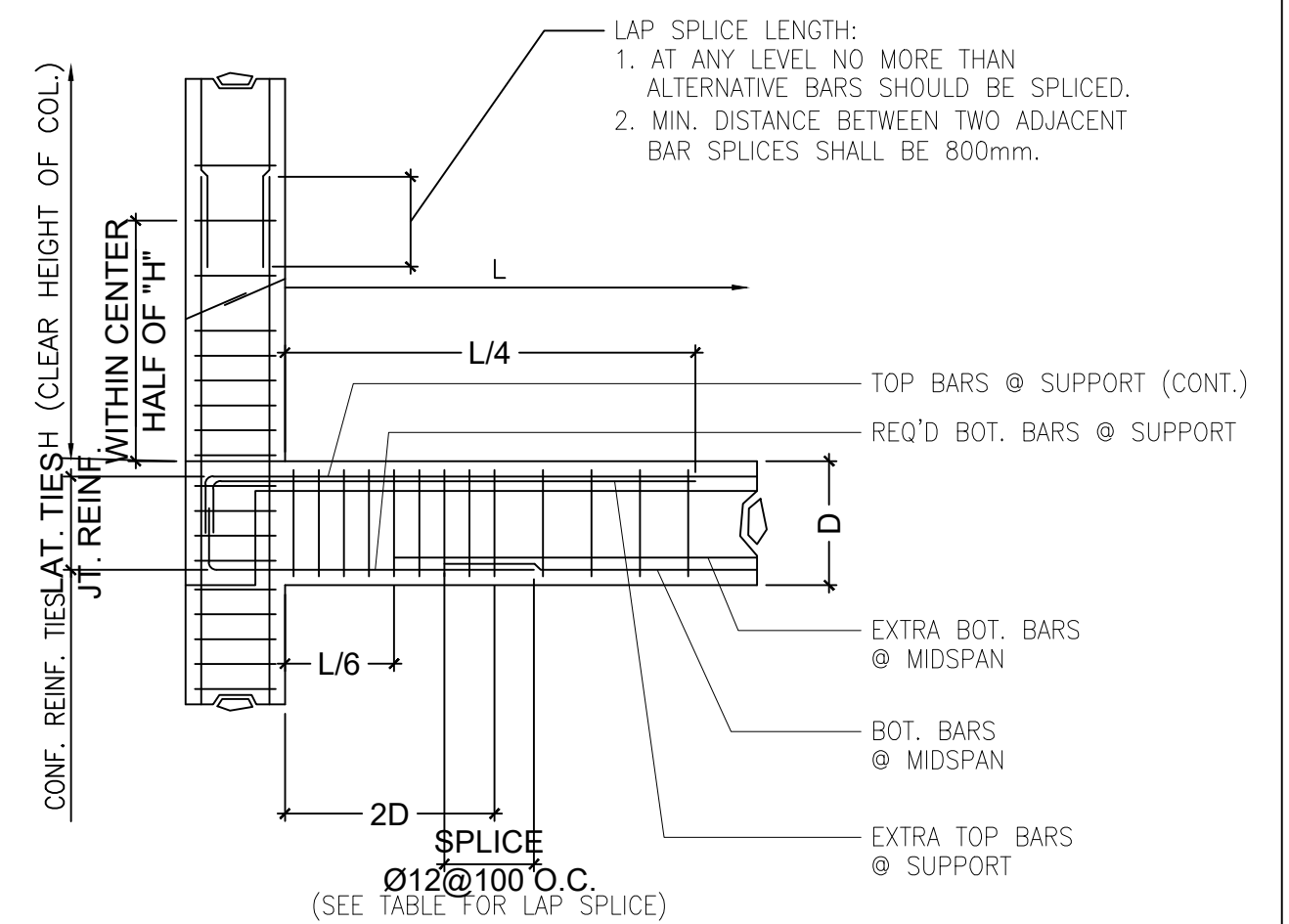
SECTION

SCALE NTS



WALL REINFORCEMENT AT CORNER

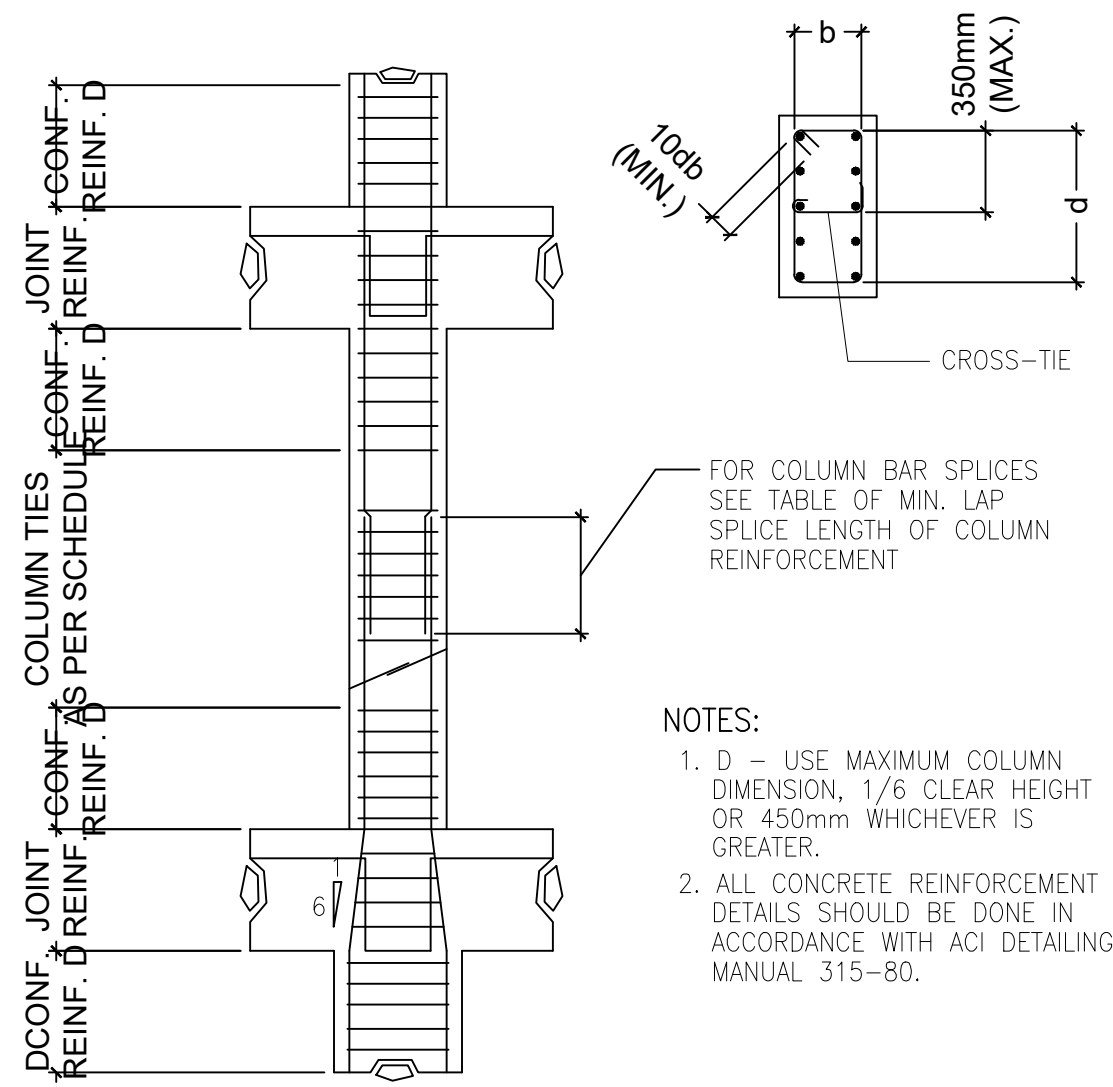
SCALE NTS



COLUMN LAP SPLICE & EXTENSION GIRDER TO COLUMN CONNECTION DETAIL

SCALE NTS

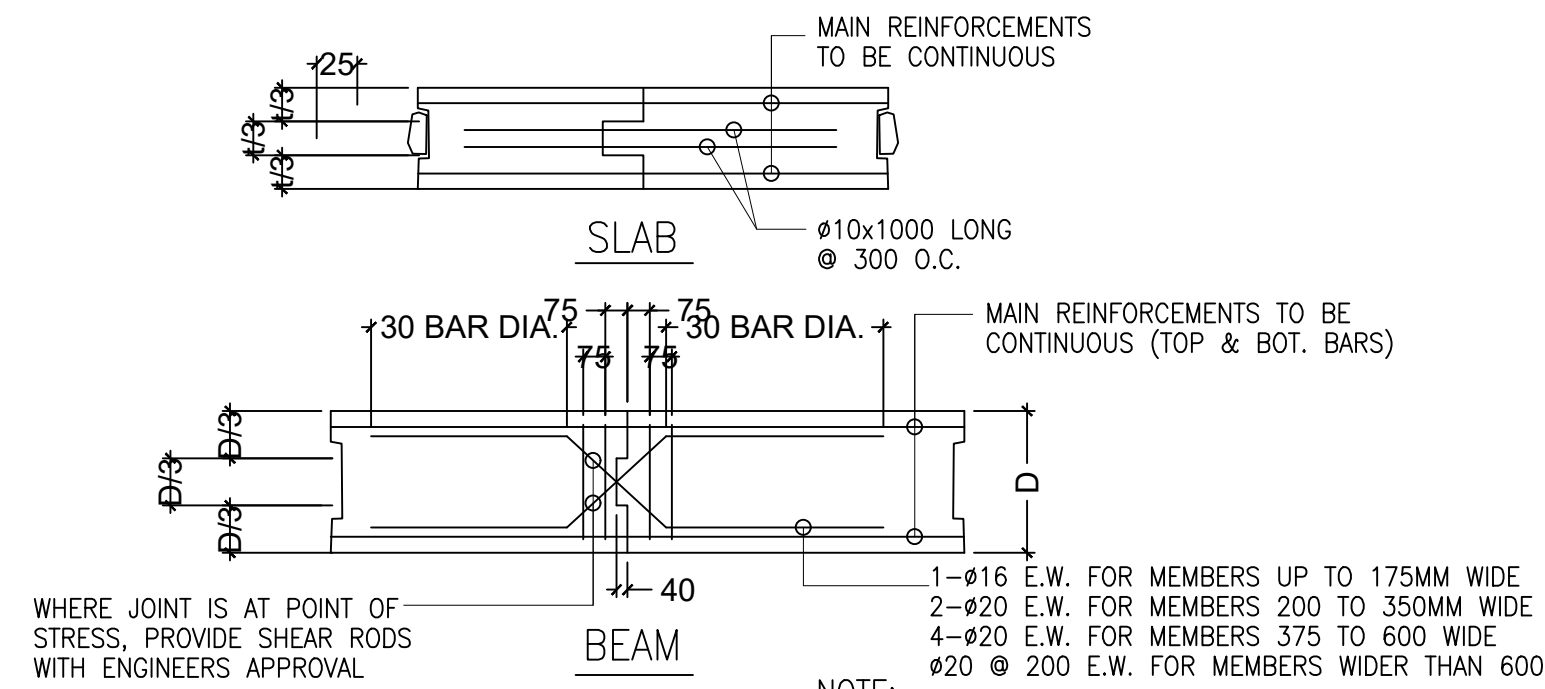
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- NOTES:
- D = USE MAXIMUM COLUMN DIMENSION, 1/6 CLEAR HEIGHT OR 450mm WHICHEVER IS GREATER.
 - ALL CONCRETE REINFORCEMENT DETAILS SHOULD BE DONE IN ACCORDANCE WITH ACI DETAILING MANUAL 315-80.

COLUMN ELEVATION SHOWING DOWELS & TIES SPACING DETAIL

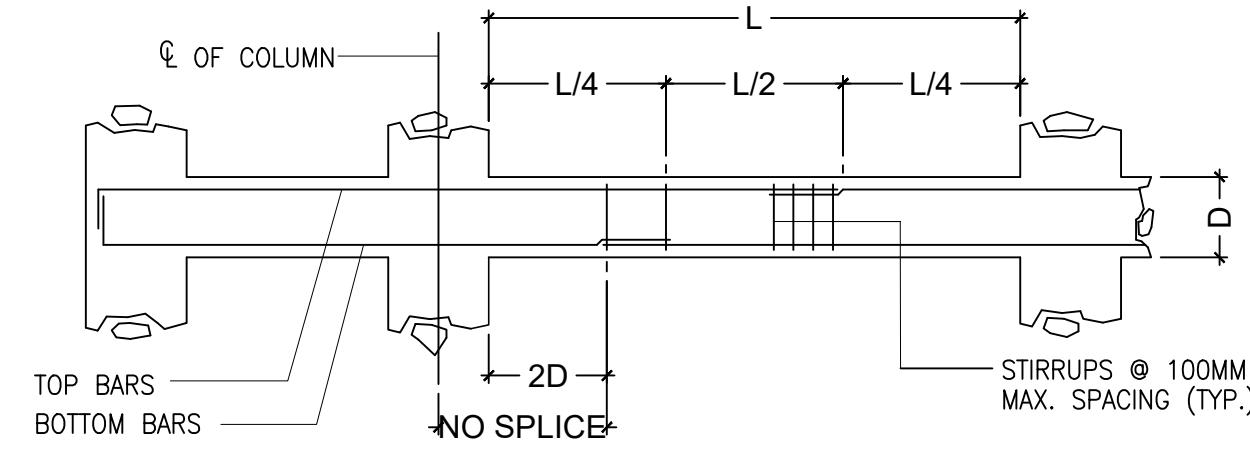
SCALE NTS



- NOTE:
- LOCATIONS OF CONSTRUCTION JOINT, IF REQUIRED, ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.

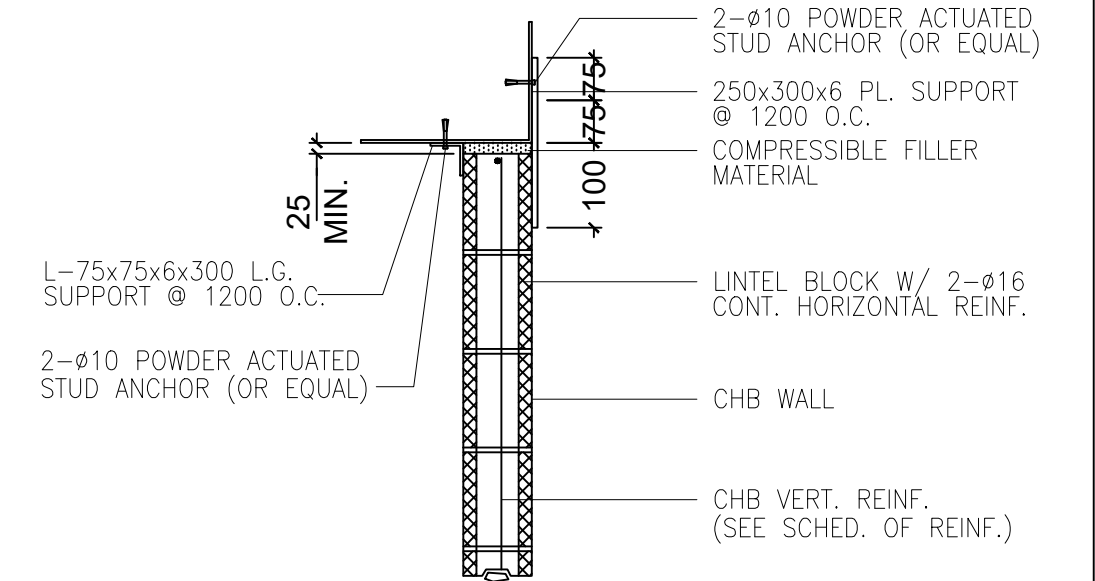
TYP. SLAB & BEAM CONSTRUCTION JOINT DETAILS

SCALE NTS



TYPICAL SPLICE DETAILS FOR BEAMS FRAMING INTO COLUMN

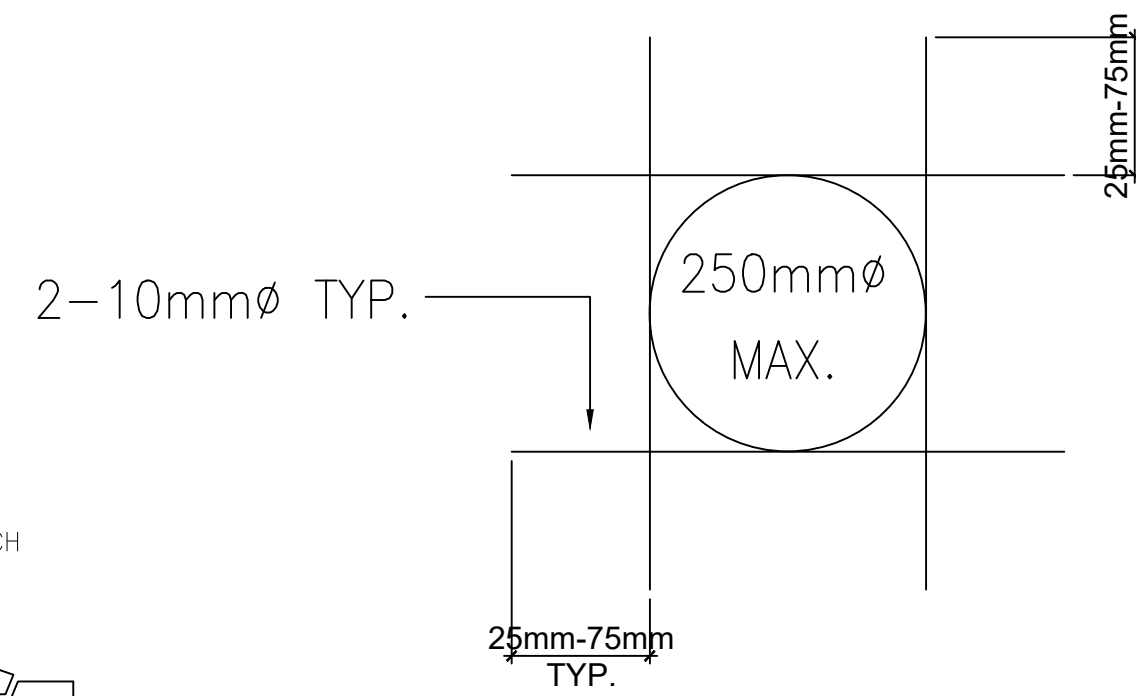
SCALE NTS



- NOTE:
- LOCATION OF STUD ANCHORS SHALL BE ADJUSTED TO BE CLEAR OF REINFORCING BARS.

WALL SUPPORT AT BOTTOM EDGE OF BEAM

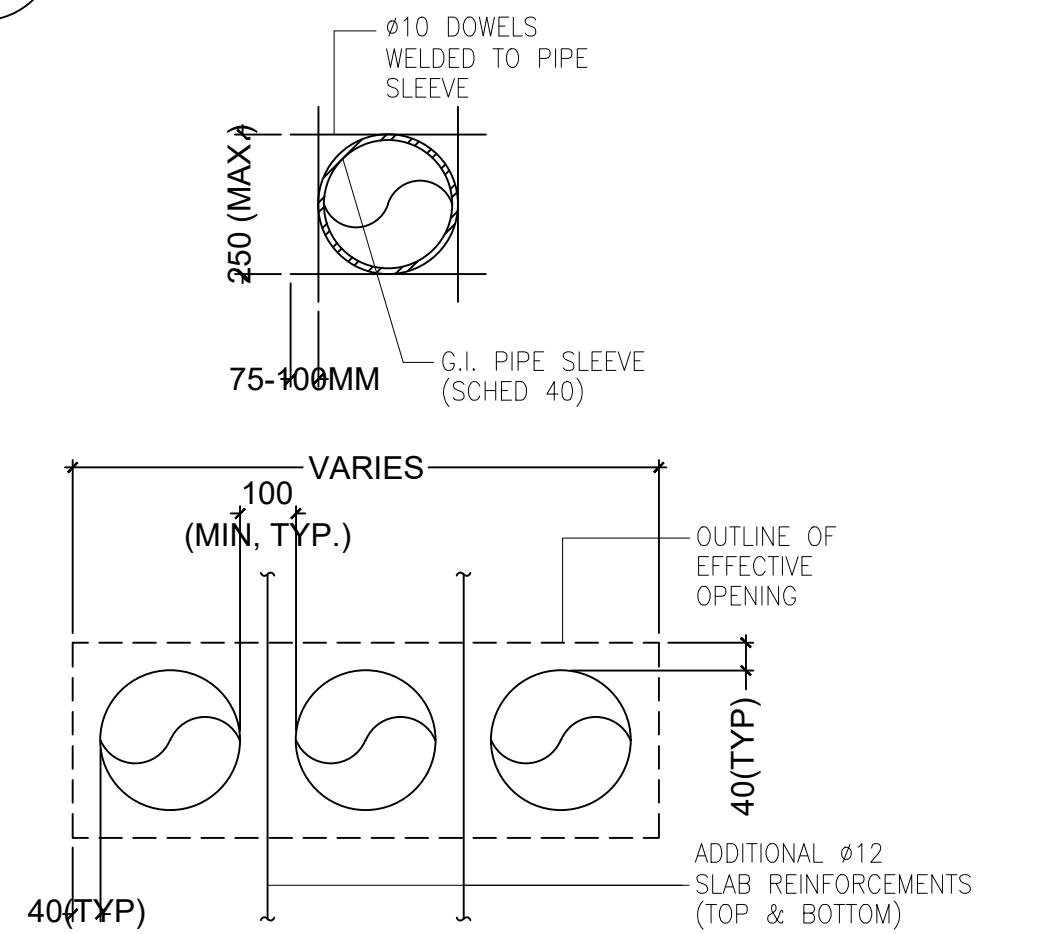
SCALE NTS



- NOTE:
- REINF. TO BE SAME BAR SIZE AND SPACING AS ADJACENT REINF. BARS ON SLABS.
 - FOR CLOSURE SLABS AT OPENINGS AND BLOCKS OUT, REBARS TO BE THE SAME SIZE, AND 2/3 THE SPACING OF BARS AS ADJACENT SLABS.

TYPICAL PIPE SLEEVE OPENING FOR SLABS

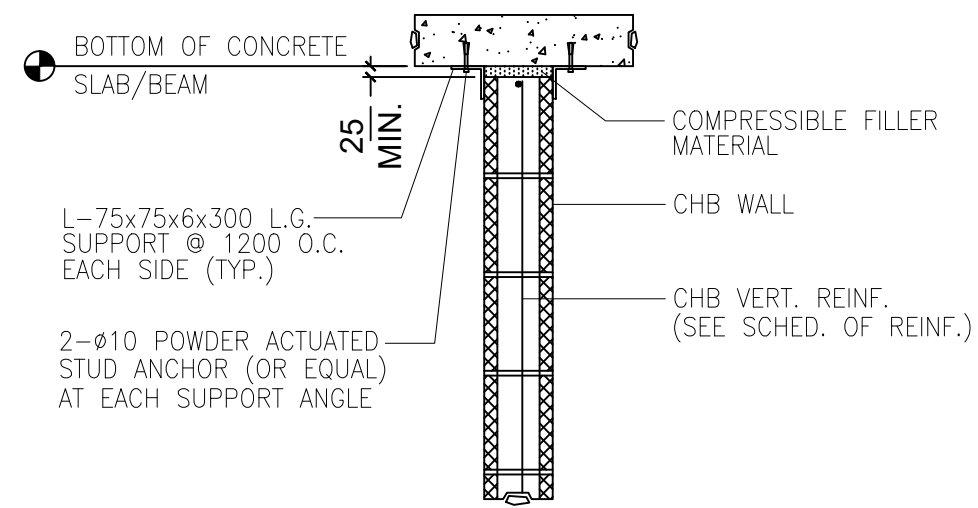
SCALE NTS



- NOTE:
- FOR TRIMMER BARS ALL AROUND THE EFFECTIVE OPENING, SEE TYPICAL SLAB OPENING DETAIL.

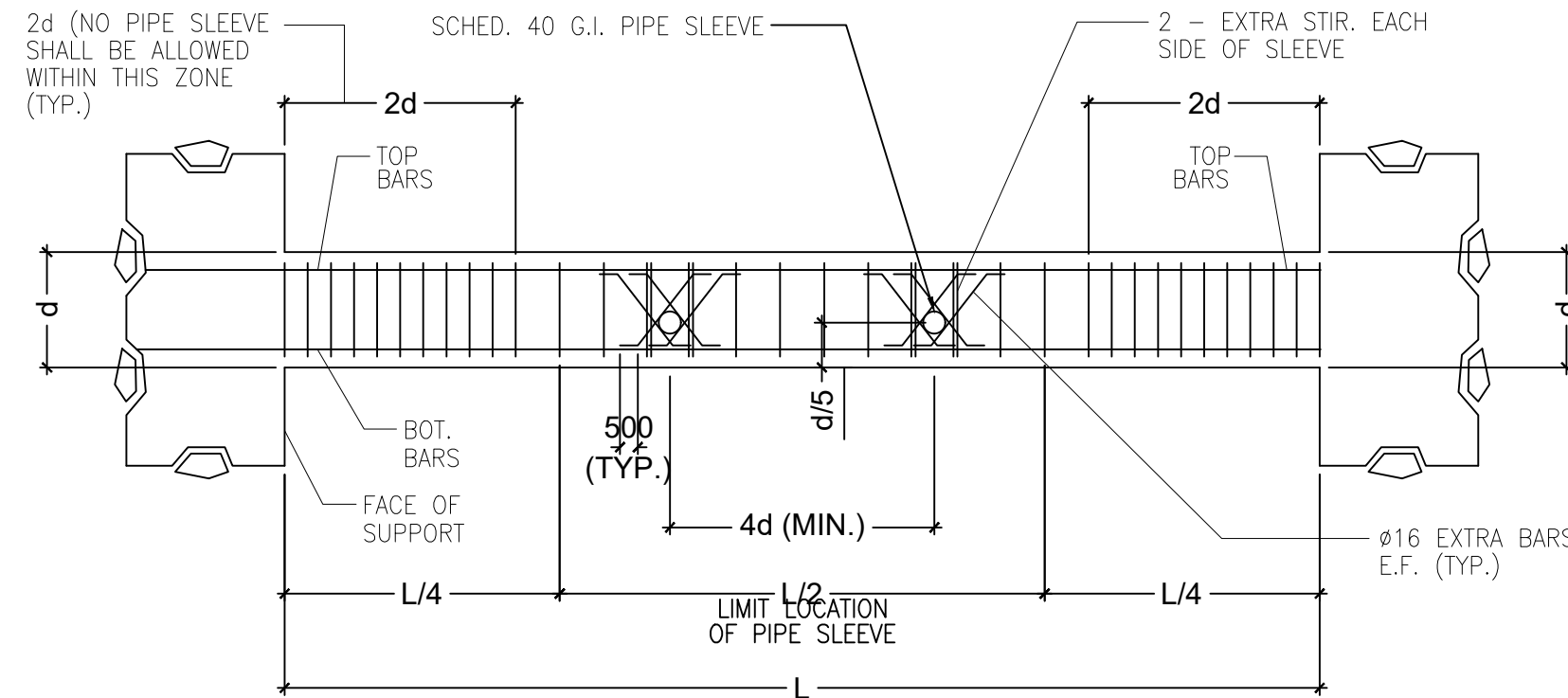
PIPE SLEEVE THRU SLAB DETAIL

SCALE NTS



WALL SUPPORT AT BOTTOM OF SLAB / BEAM

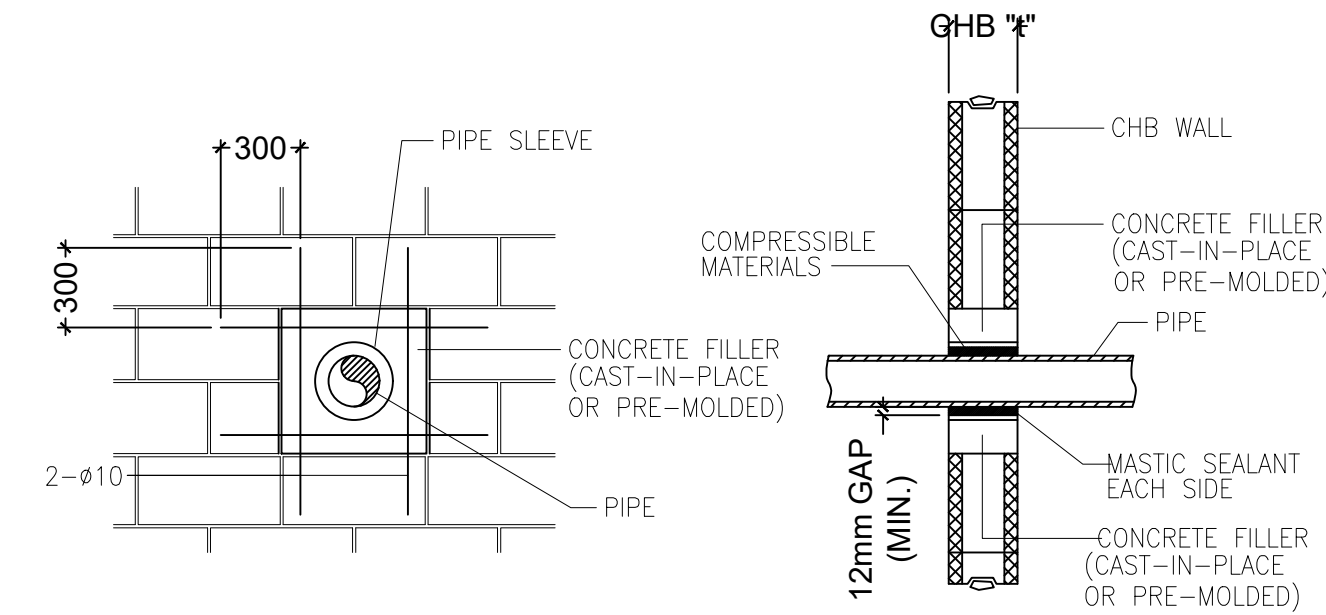
SCALE NTS



- NOTES:
- SEEK STRUCT'L ENGINEER'S APPROVAL FOR PIPE SLEEVES W/ DIAMETERS BIGGER THAN THE MAXIMUM STIPULATED.
 - PIPE SLEEVES SHALL BE LOCATED WITHIN TENSION ZONES OF BEAMS.
 - NO PIPE SLEEVE SHALL BE ALLOWED AT TWICE THE BEAM DEPTH (2d) FROM THE SUPPORT.
 - PIPE SLEEVE MAX DIAMETER IS: (LEAST GOVERNS)
 - 1/5 OF BEAM DEPTH
 - 100mm
 - USE G.I. IF SLEEVE IS 150mm DIAMETER

PIPE SLEEVE THRU BEAM DETAIL

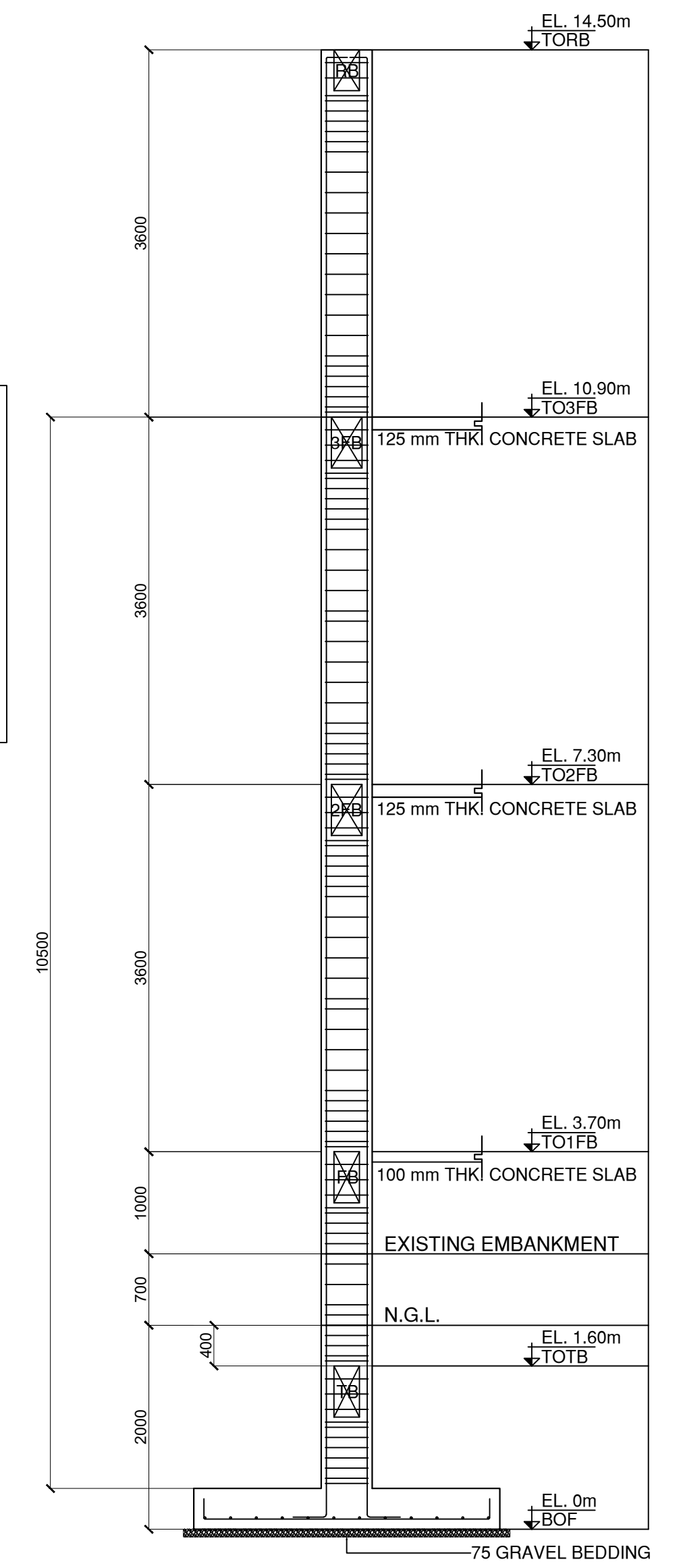
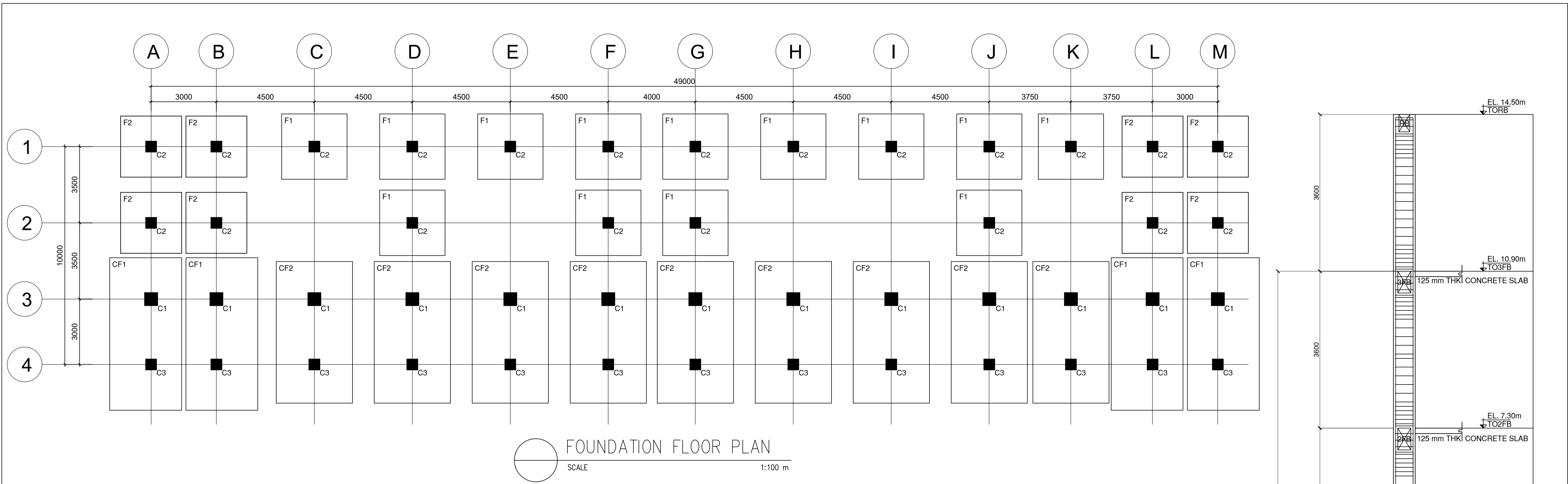
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PIPE SLEEVE THRU CHB DETAIL

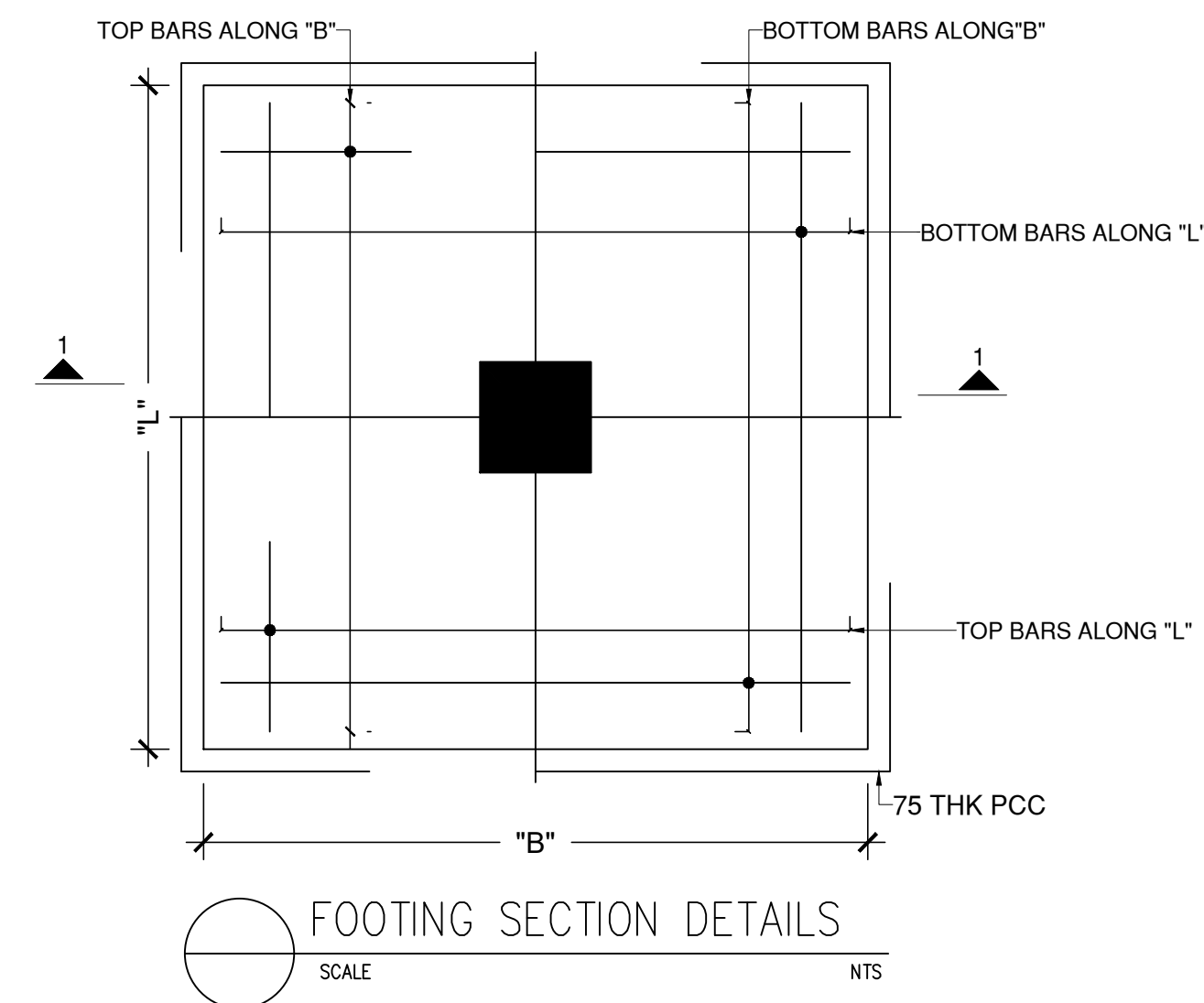
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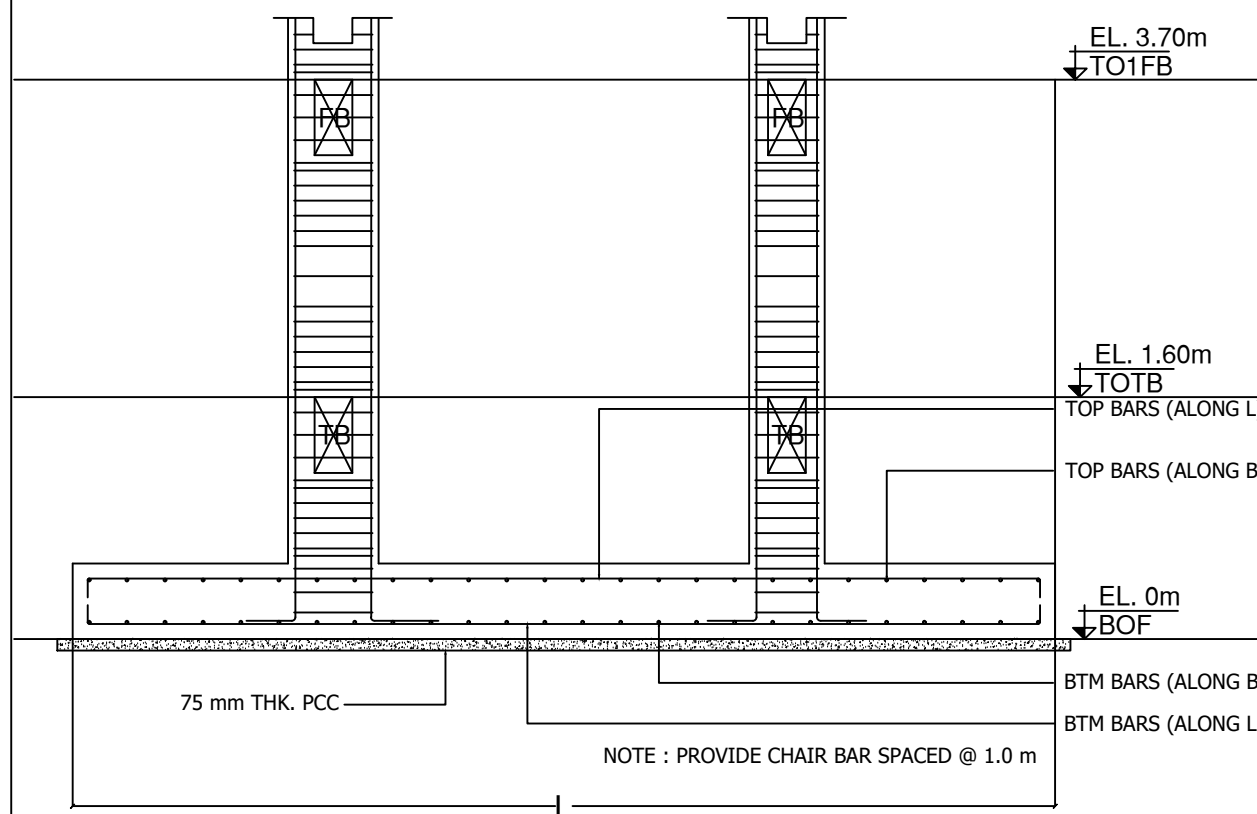
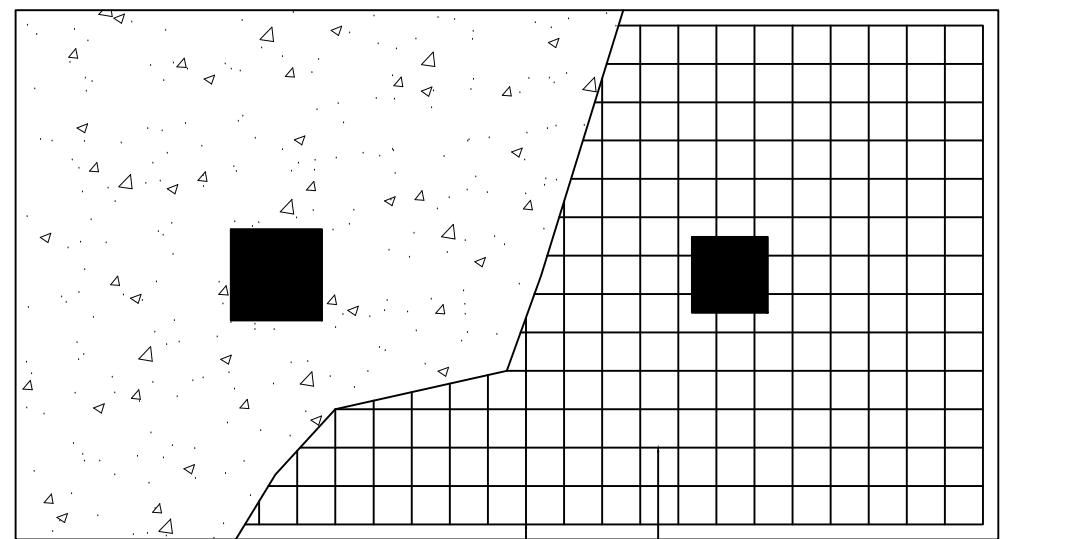
FOOTING SCHEDULE (CONCRETE $f_c = 3500$ PSI, STEEL $f_y = 40,000$ PSI)

FOOTING NUMBERS	FOOTING TYPE	FOOTING DIMENSION				FOOTING REINFORCEMENT			
		HEIGHT FROM F.G.L.	L	B	D	BOTTOM		TOP	
						ALONG L	ALONG B	ALONG L	ALONG B
CF1	Combined	2000	7000	3300	500	13-Ø20	29-Ø20	13-Ø20	29-Ø20
CF2	Combined	2000	6500	3500	500	14-Ø20	26-Ø20	14-Ø20	26-Ø20
F1	Pad	2000	3000	3000	400	12-Ø20	12-Ø20		
F2	Pad	2000	2800	2800	400	11-Ø20	11-Ø20		



BAY SECTION
SCALE 1:50 m

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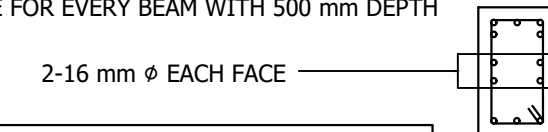


COMBINED FOOTING SECTION
SCALE 1:50 m

BEAM MARK	SIZE X(mm) Y(mm)		MAIN REINFORCEMENTS (GR.40)							
			LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		STIRRUPS 10 mm Ø	
			TOP	BOT.	TOP	BOT.	TOP	BOT.		
RB1	250	400	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 200 mm	
RB2	250	500	3-20mm Ø	2-20mm Ø	3-20mm Ø	2-20mm Ø	3-20mm Ø	2-20mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 150 mm	
RB3	250	400	3-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 200 mm	
RB4	250	400	3-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 200 mm	
RB5	250	400	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 200 mm	
3GB1	300	500	5-25mm Ø	4-16mm Ø	3-25mm Ø	4-16mm Ø	4-16mm Ø	4-16mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
3FB1	250	500	4-20mm Ø	3-20mm Ø	3-20mm Ø	3-20mm Ø	3-20mm Ø	3-20mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
3FB2	250	500	3-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
3FB3	250	500	3-25mm Ø	2-25mm Ø	2-25mm Ø	2-25mm Ø	2-25mm Ø	2-25mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 200 mm	
3FB4	250	400	3-16mm Ø	2-16mm Ø	2-16mm Ø	2-16mm Ø	2-16mm Ø	2-16mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 200 mm	
CB	250	400	4-25mm Ø	4-25mm Ø	4-25mm Ø	4-25mm Ø	4-25mm Ø	4-25mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 200 mm	

BEAM MARK	SIZE X(mm) Y(mm)		MAIN REINFORCEMENTS (GR.40)							
			LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		STIRRUPS 10 mm Ø	
			TOP	BOT.	TOP	BOT.	TOP	BOT.		
2GB1	300	500	5-25mm Ø	4-16mm Ø	3-25mm Ø	4-16mm Ø	4-16mm Ø	4-16mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
2FB1	250	500	3-25mm Ø	2-25mm Ø	3-25mm Ø	2-25mm Ø	2-25mm Ø	2-25mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
2FB2	250	500	4-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
2FB3	250	500	5-25mm Ø	4-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
2FB4	250	500	3-25mm Ø	2-20mm Ø	2-25mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 150 mm	
2FB5	250	500	5-25mm Ø	4-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 150 mm	
2FB6	250	400	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 150 mm	
FB1	250	500	3-25mm Ø	2-25mm Ø	3-25mm Ø	2-25mm Ø	2-25mm Ø	2-25mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
FB2	250	500	4-25mm Ø	4-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	3-25mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	
FB3	250	500	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 @ 50 mm 5 @ 100 mm @REST @ 150 mm	
TB1	250	500	3-20mm Ø	2-20mm Ø	3-20mm Ø	2-20mm Ø	2-20mm Ø	2-20mm Ø	2 @ 50 mm 10 @ 100 mm @REST @ 150 mm	

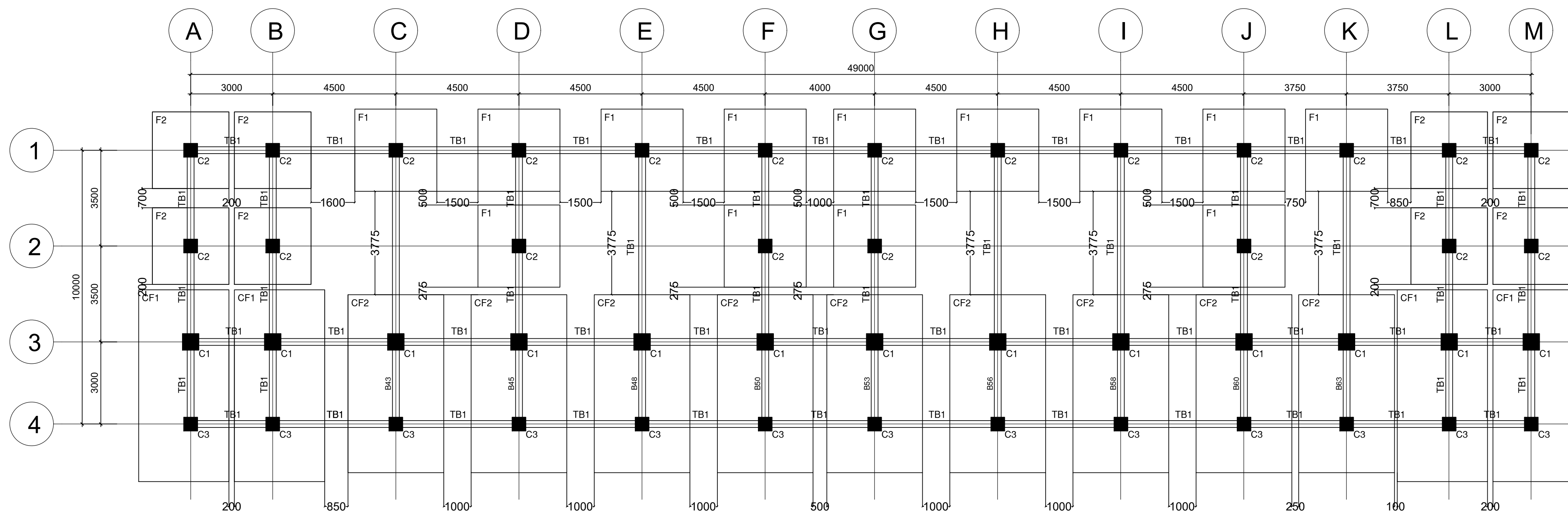
NOTE : ADD 2-16 mm Ø CONTINUOUS BARS EACH FACE FOR EVERY BEAM TO BEAM CONNECTION
OTHERWISE USE 1-16 mm Ø CONTINUOUS BARS EACH FACE FOR EVERY BEAM WITH 500 mm DEPTH



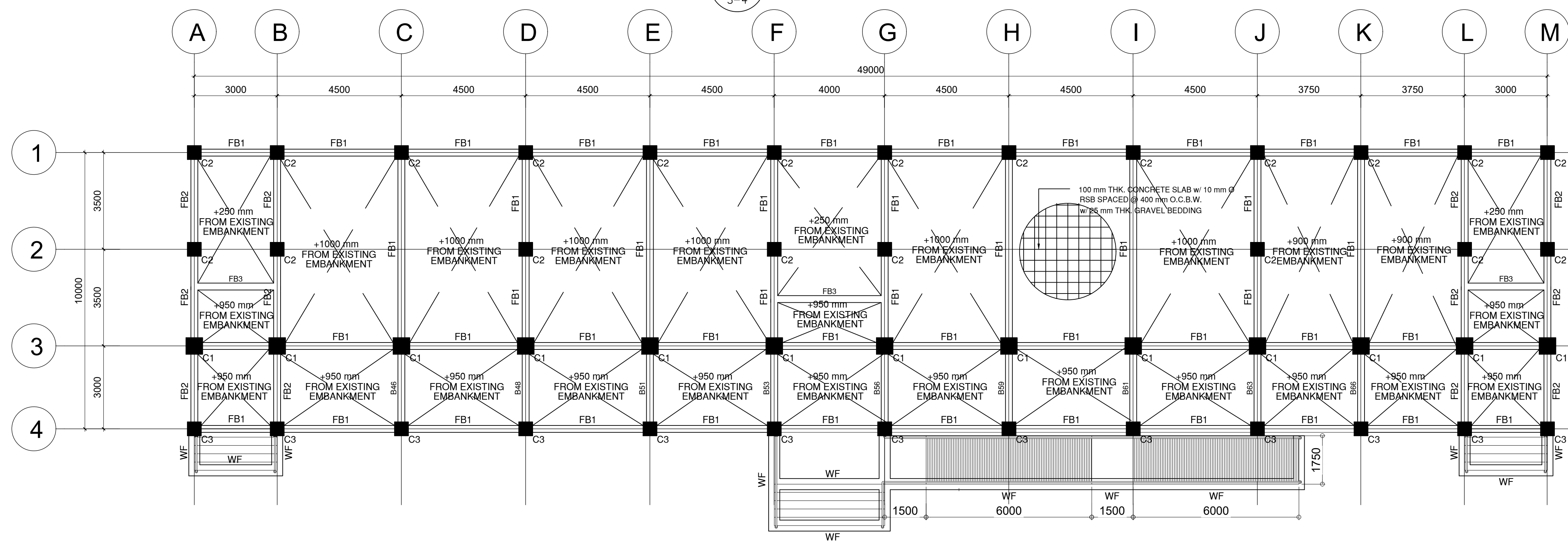
		COLUMN SCHEDULE (C24:Fy276)		
		C1 = 13 UNITS	C2 = 21 UNITS	C3 = 13 UNITS
3B TO RB				
		MAIN BARS : 8 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm	MAIN BARS : 8 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm	MAIN BARS : 8 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm
2B TO 3B				
		MAIN BARS : 12 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm	MAIN BARS : 12 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm	MAIN BARS : 8 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm
FLOOR BEAM TO 2B				
		MAIN BARS : 16 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm	MAIN BARS : 12 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm	MAIN BARS : 12 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm
TIE BEAM TO FLOOR BEAM				
		MAIN BARS : 16 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm	MAIN BARS : 12 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm	MAIN BARS : 12 - 25mm Ø TIE BARS : 10 mm Ø - 3 @ 50 mm, 5 @ 100 mm & REST @ 200 mm

SCHEDULE OF SLABS																	
FLOOR LEVEL	SLAB MARK	THICKNESS in mm	REBAR SPACING ALONG SHORT DIRECTION in mm						REBAR SPACING ALONG LONG DIRECTION in mm						REMARKS		
			REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		REBAR SIZE	LEFT SUPPORT		MIDSPAN			RIGHT SUPPORT	
				TOP	BOT.	TOP	BOT.	TOP	BOT.		TOP	BOT.	TOP	BOT.		TOP	BOT.
SECOND LEVEL	S2	125	12 Ø	250	250	-	250	250	250	12 Ø	250	250	-	250	250	250	2-WAY
	S2'	125	10 Ø	250	250	-	250	250	250	10 Ø	250	250	-	250	250	250	2-WAY
	S1	100	12 Ø	250	250	-	250	250	250	12 Ø	250	250	-	250	250	250	1-WAY

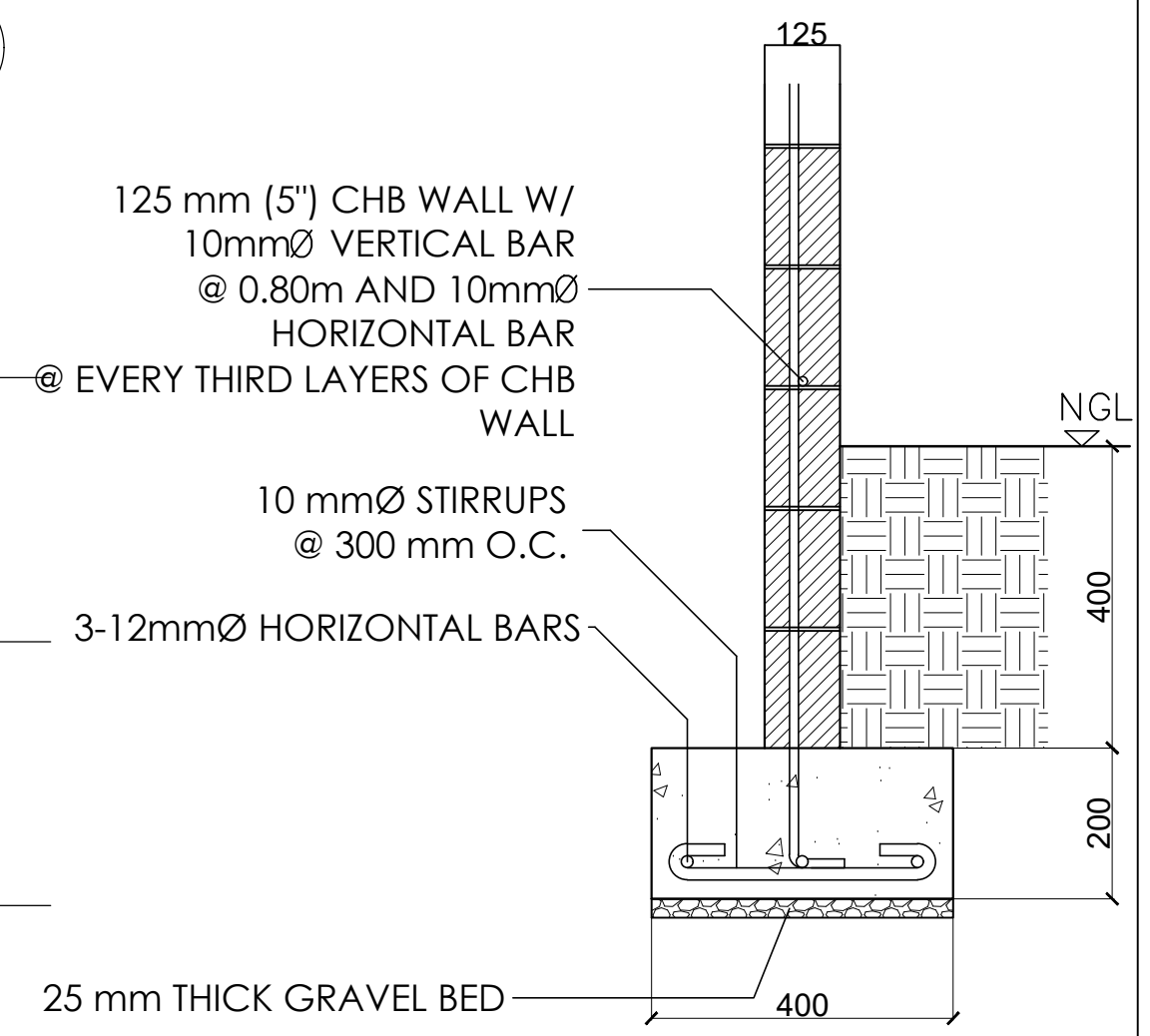
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA	CONSTRUCTION OF THREE (3) STOREY BUILDING AT DHVSU FLORIDABLANCA	PETER CRIS G. LAXA ENGINEER II				HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR:	AS SHOWN	S-5
	PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	LOCATION: STA. MONICA, FLORIDABLANCA, PAMPANGA	RANDY Y. DAVID ENGINEER III	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	DETAILS	15 / 35



S
S-4 SCALE 1:100

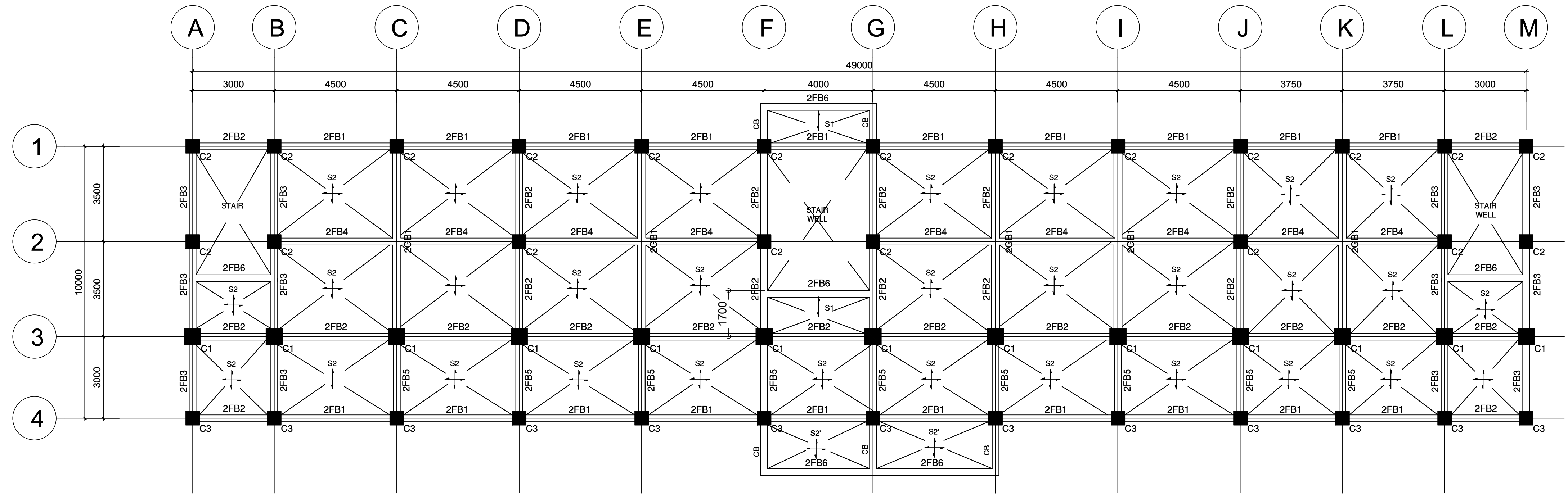


S
S-4 SCALE 1:100 m

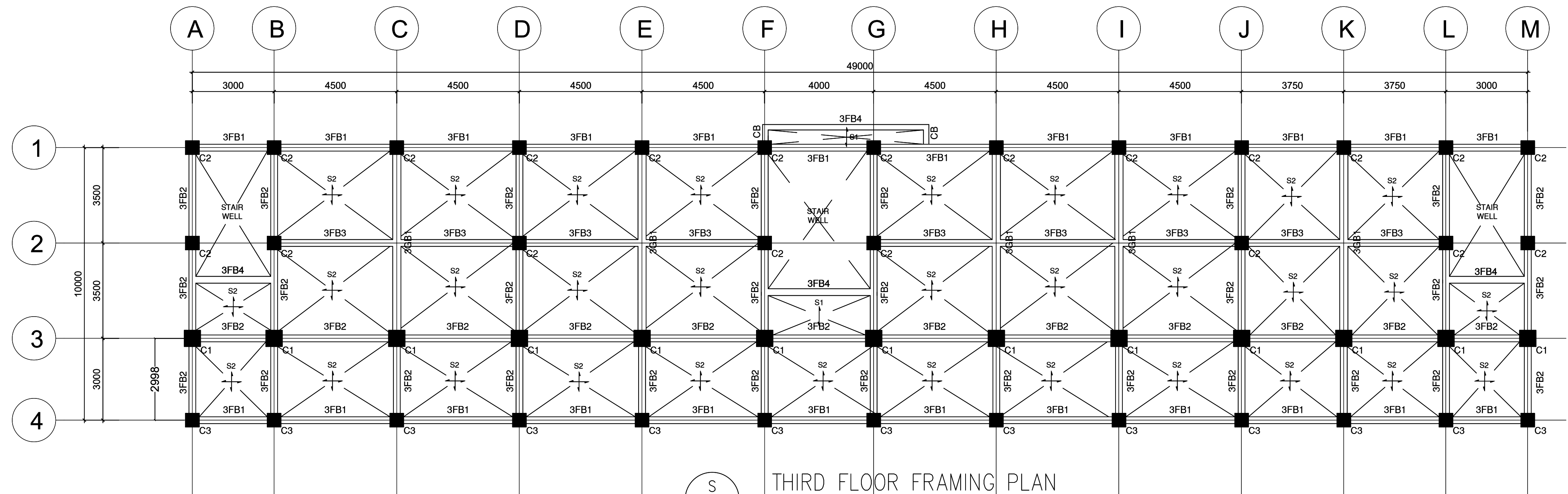


WALL FOOTING DETAIL
SCALE: 1:10 MTS.

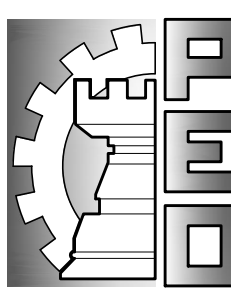
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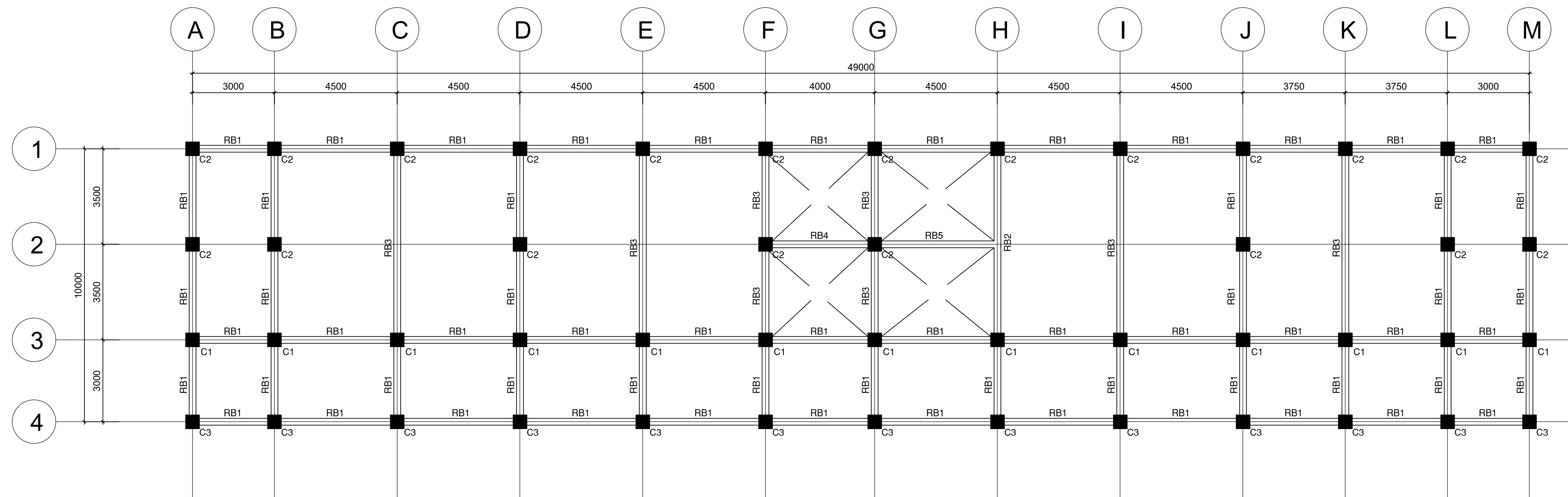


S SECOND FLOOR FRAMING PLAN
S-4 SCALE 1:100

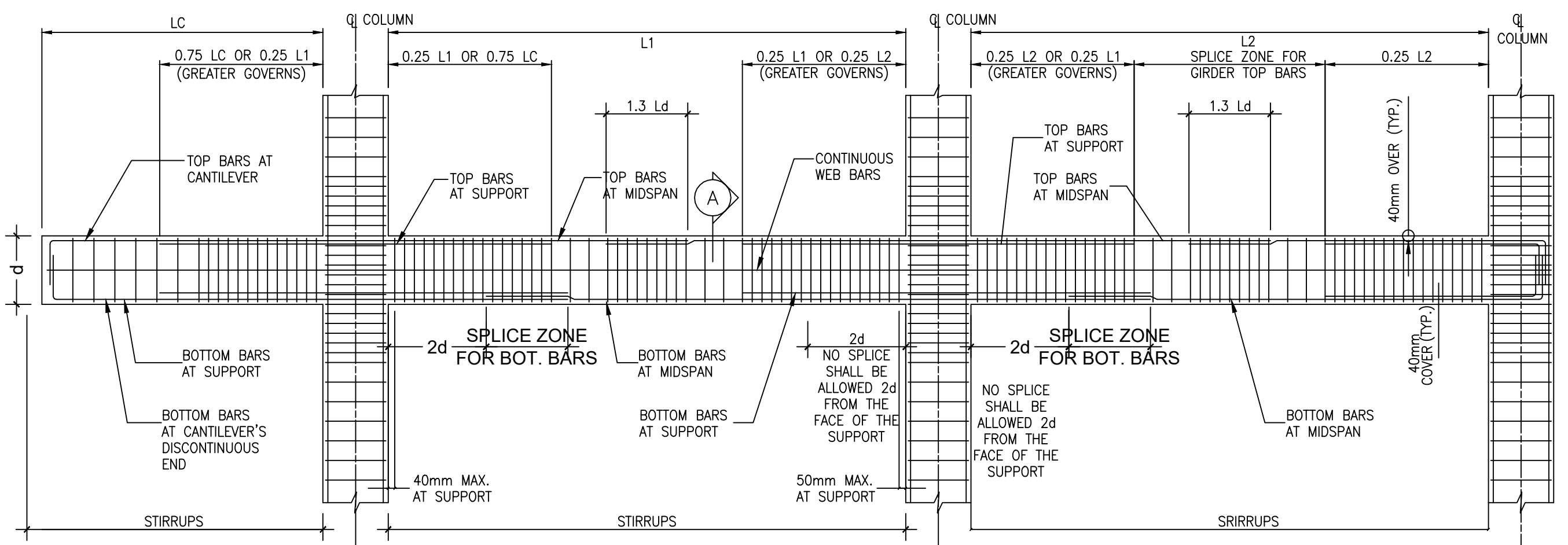


S THIRD FLOOR FRAMING PLAN
S-4 SCALE 1:100

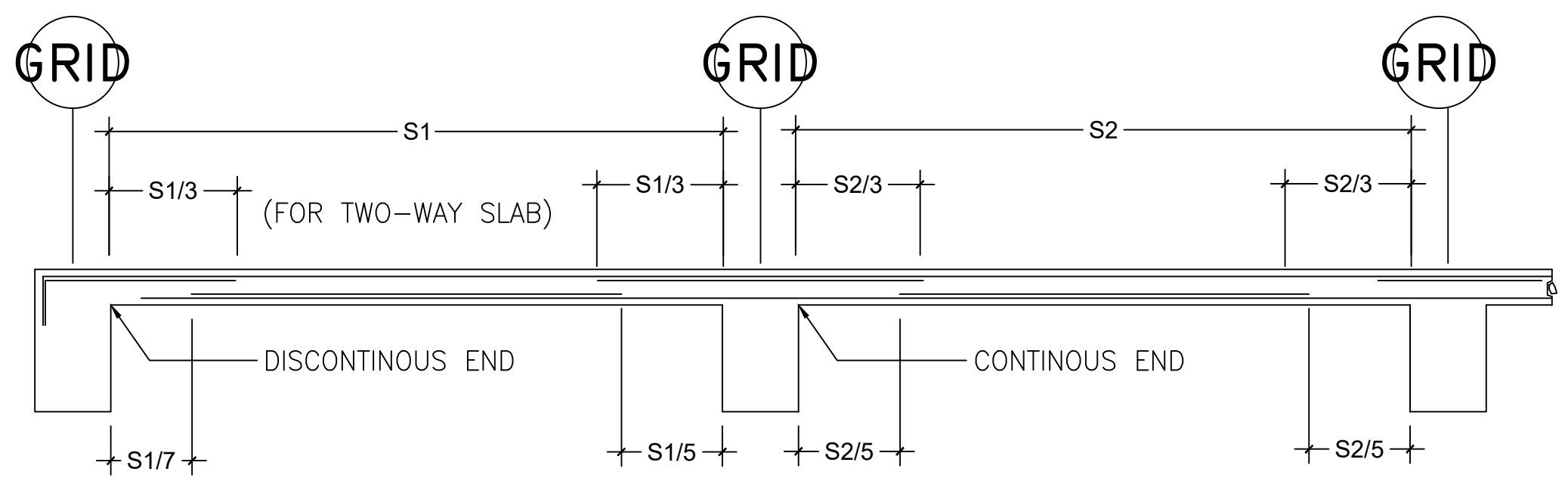
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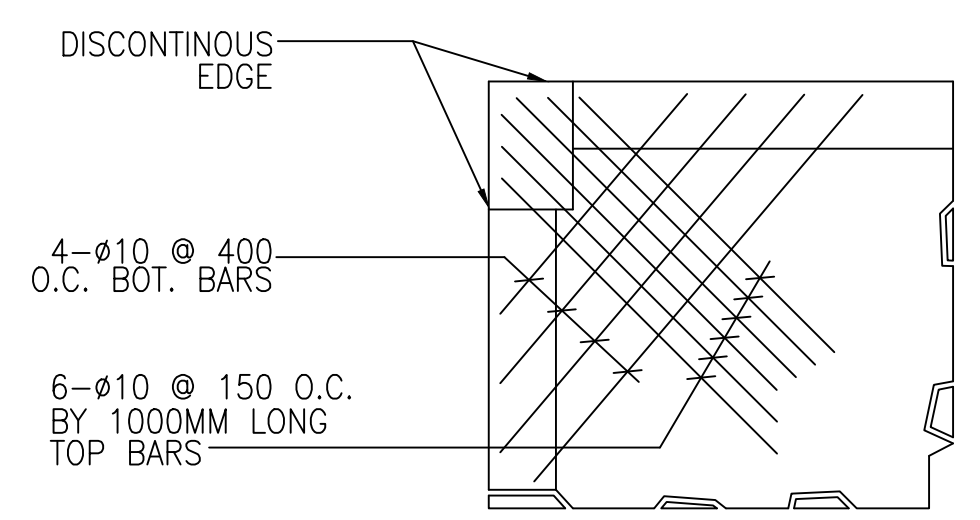
S ROOF BEAM FRAMING PLAN
S-4 SCALE 1:100



S TYPICAL BEAM DETAIL
S-4 SCALE NTS

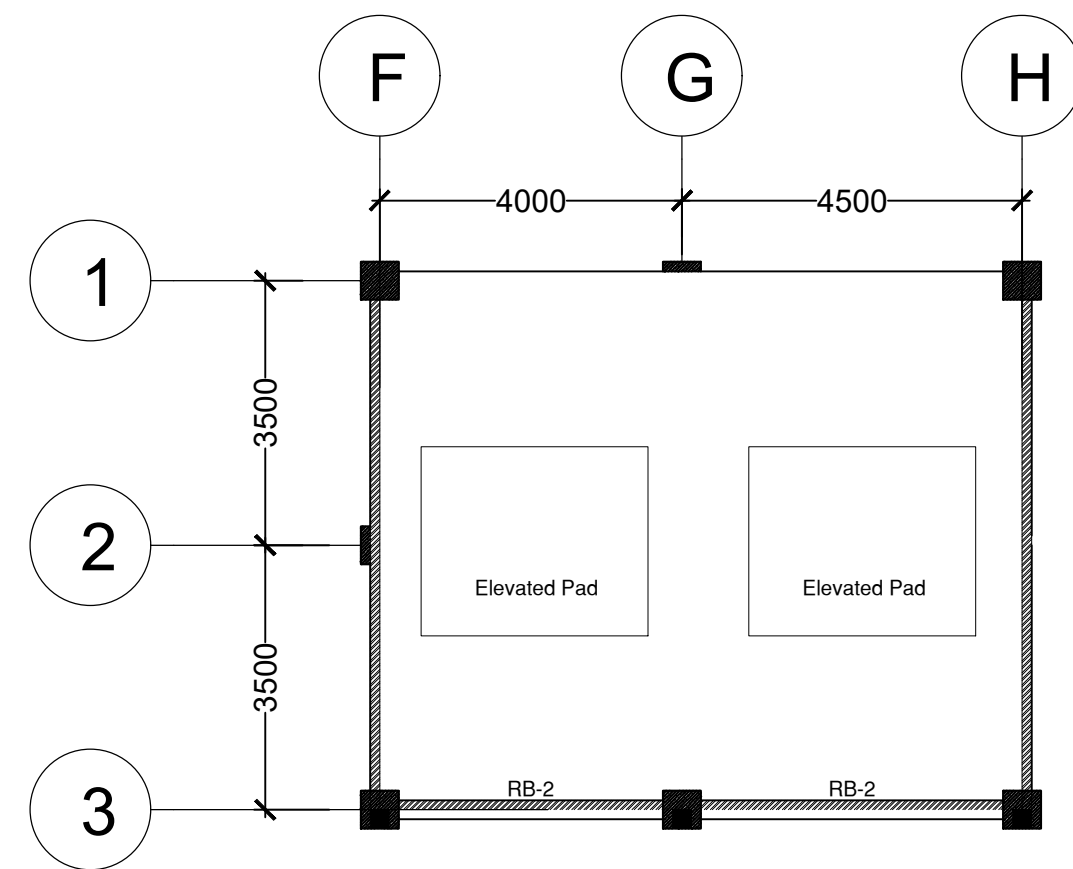


H.1 TYPICAL SLAB DETAIL
S-4 SCALE NTS

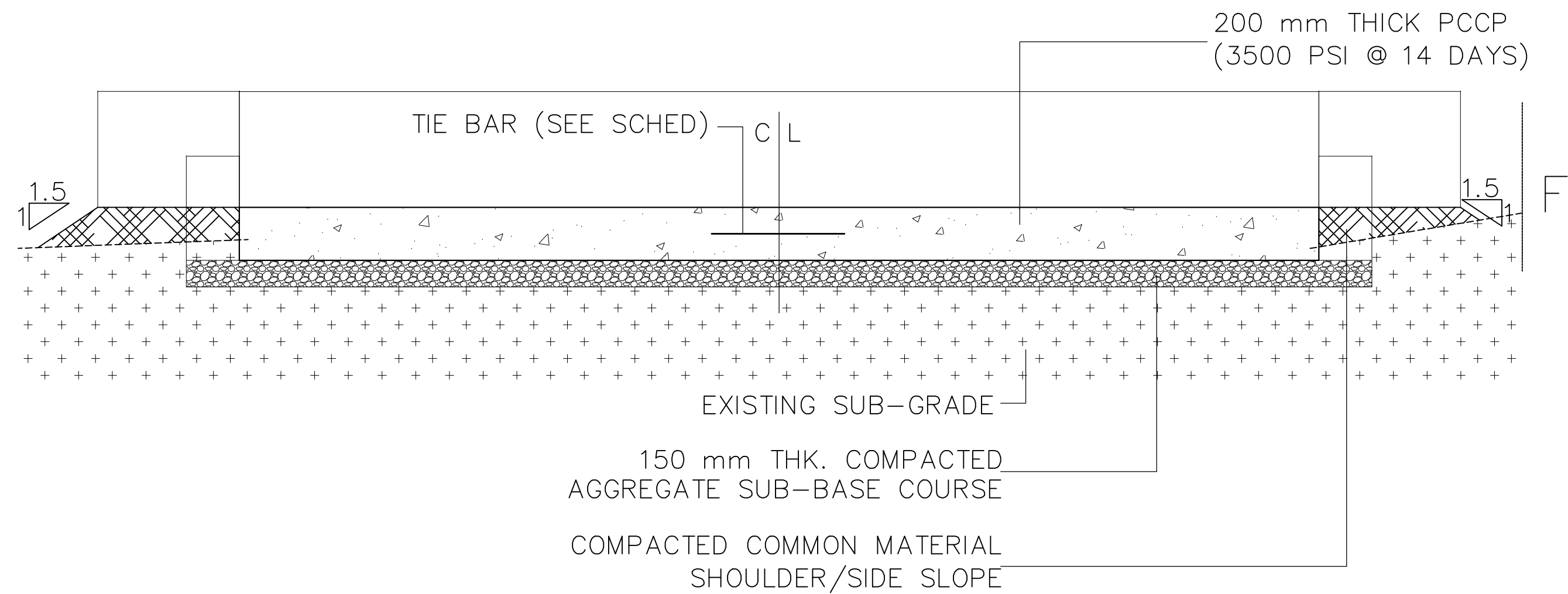


H.2 SLAB CORNER TYPICAL REINFORCEMENT DETAILS
S-4 SCALE NTS

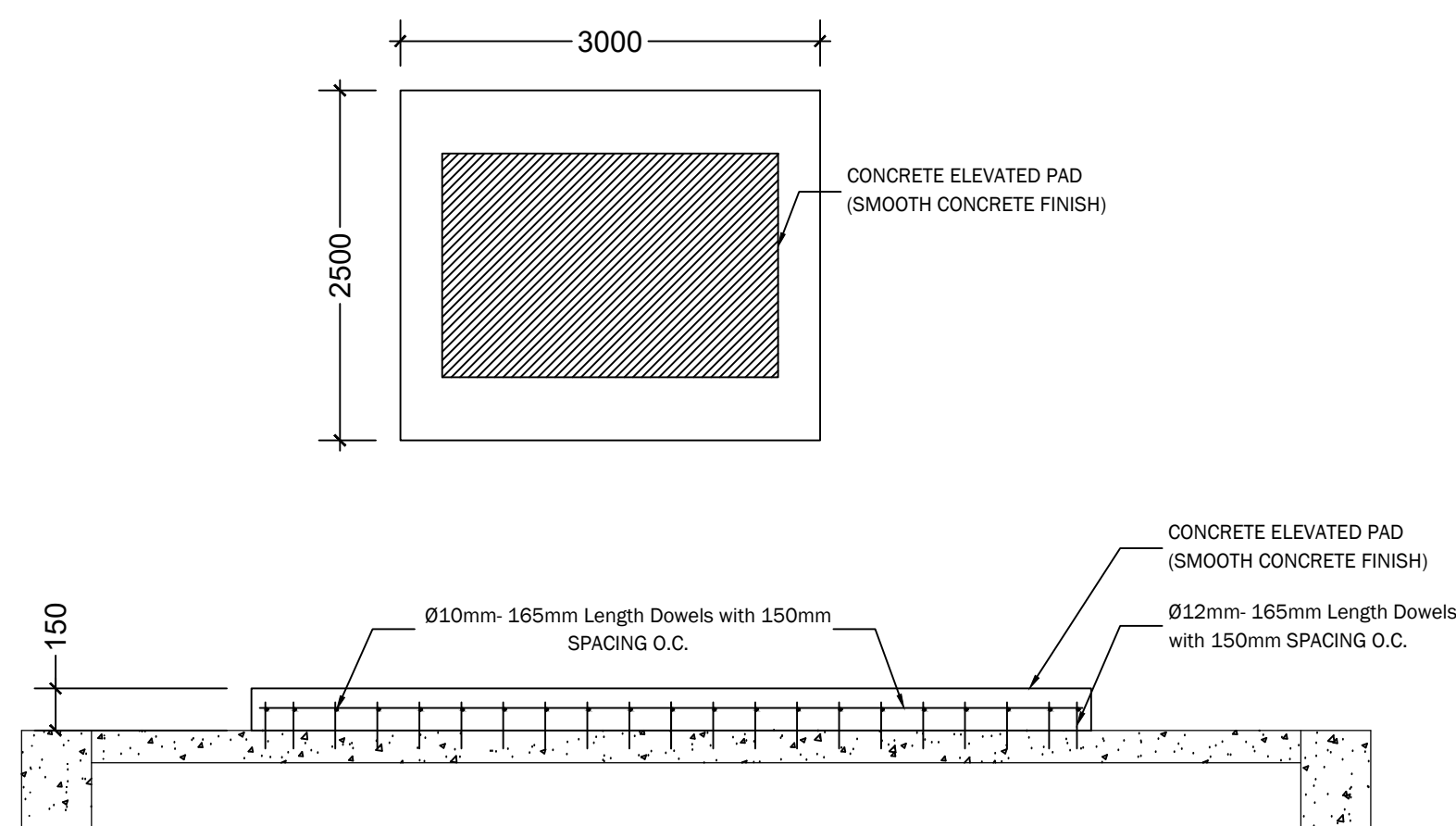
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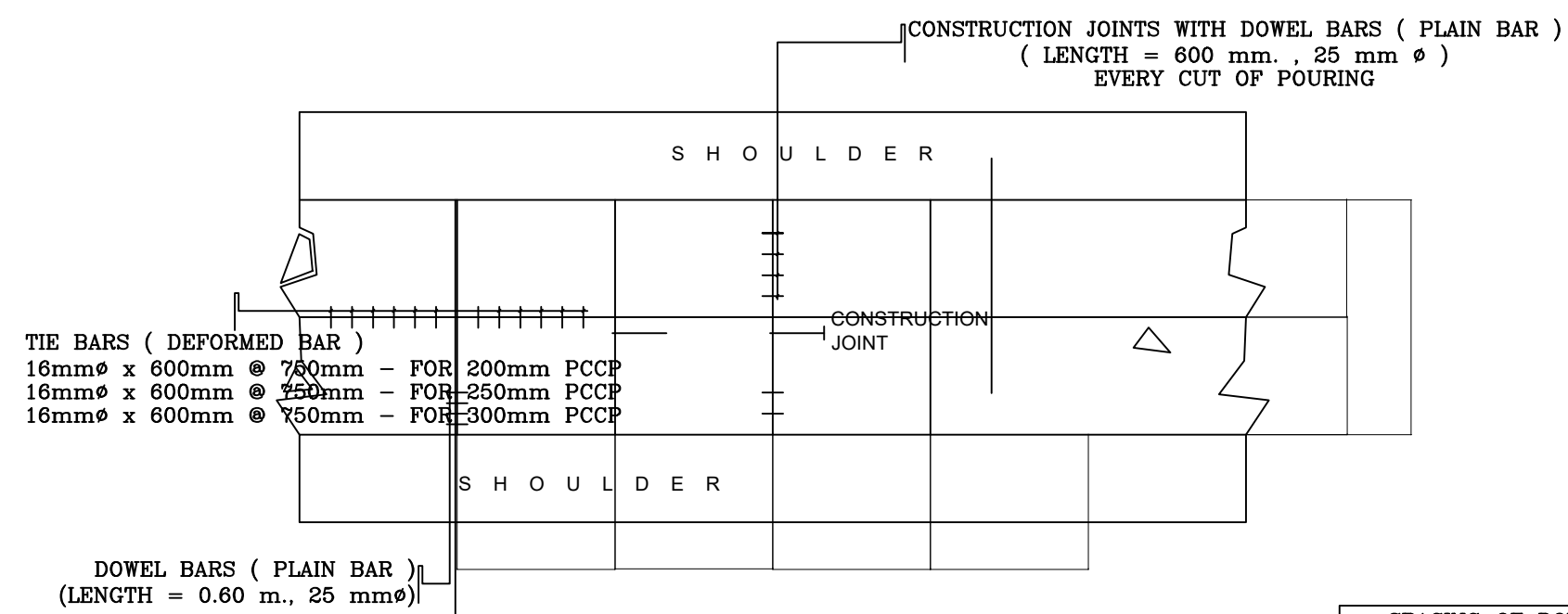
H.2 ROOF FLOOR LEVEL
ELEVATED PAD DETAILS
S-4 SCALE NTS



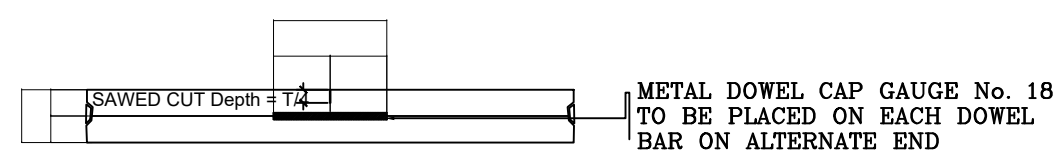
TYPICAL ROAD SECTION
SCALE NTS



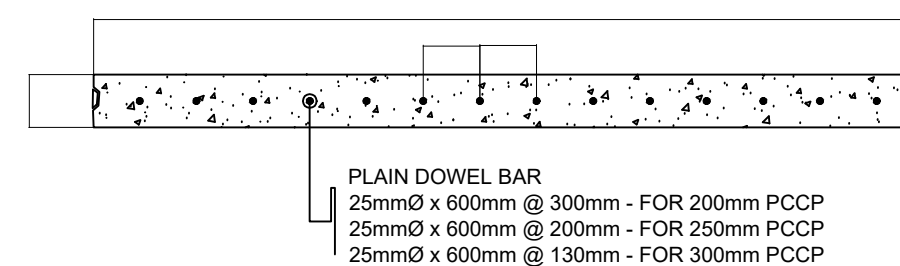
H.2 ELEVATED PAD SECTION DETAILS
S-4 SCALE NTS



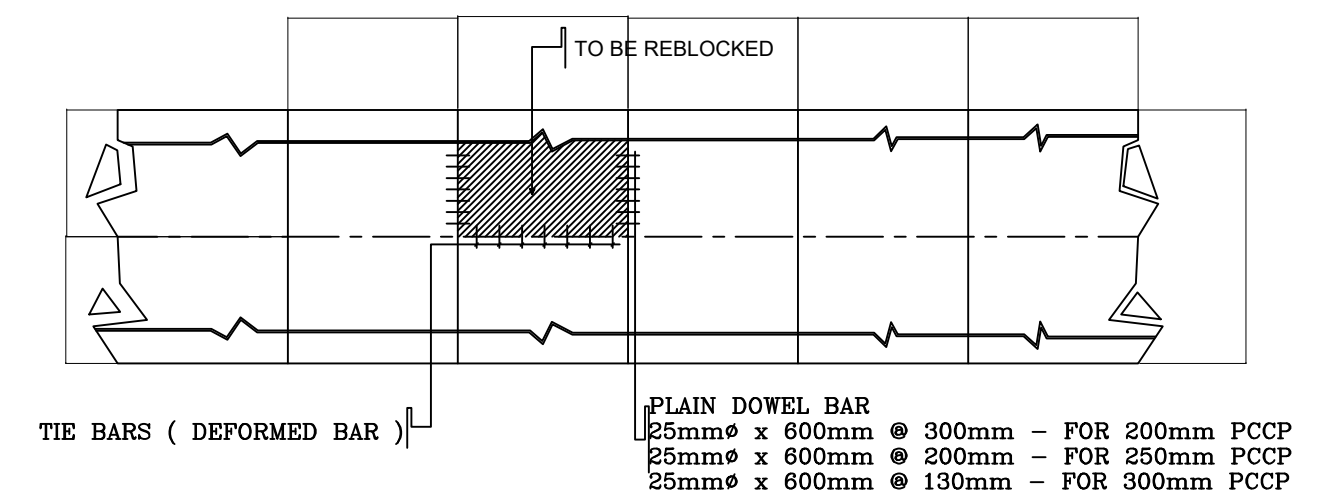
PAVEMENT LAYOUT PLAN
SCALE: 1:200



CONSTRUCTION JOINT SECTION



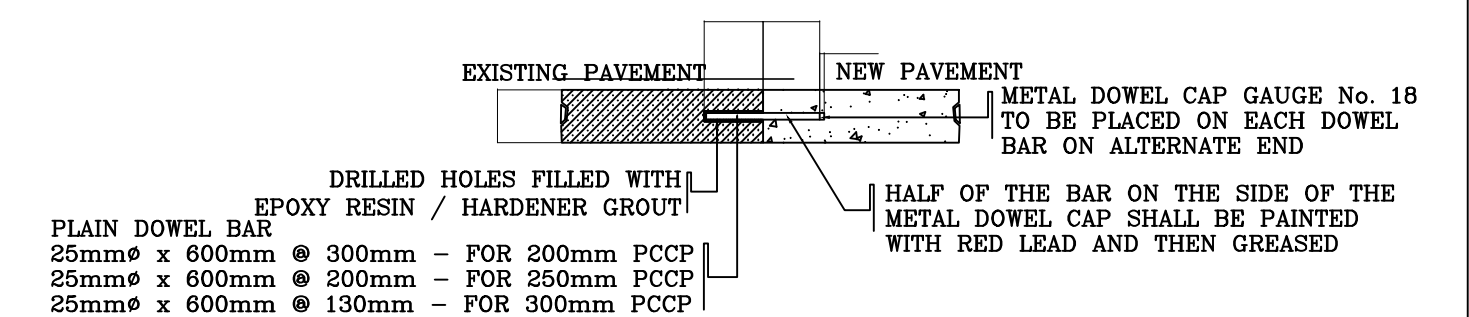
ELEVATION



PLAN
SCALE: 1:100

SPACING OF DOWEL BAR (Diameter 25mm/ Length=600mm)		
SLAB DEPTH, T (mm)	SPACING (mm)	
200	300	
250	200	
300	130	

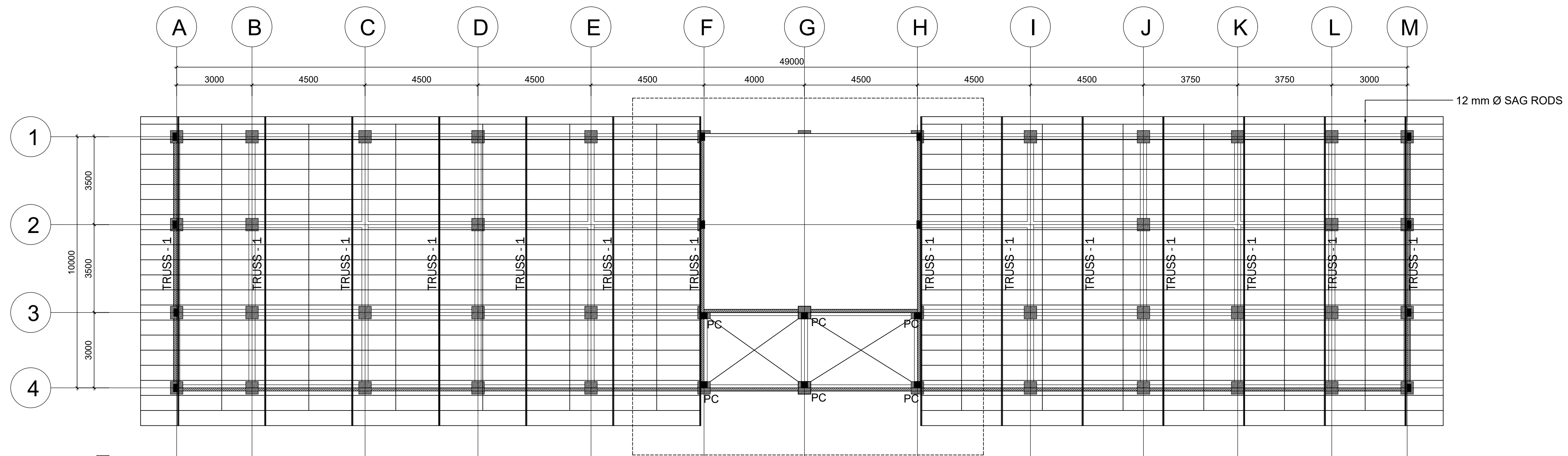
SPACING OF DOWEL BAR (Diameter 16mm/ Length=600mm)		
SLAB DEPTH, T (mm)	SPACING (mm)	
200	750	
250	750	
300	750	



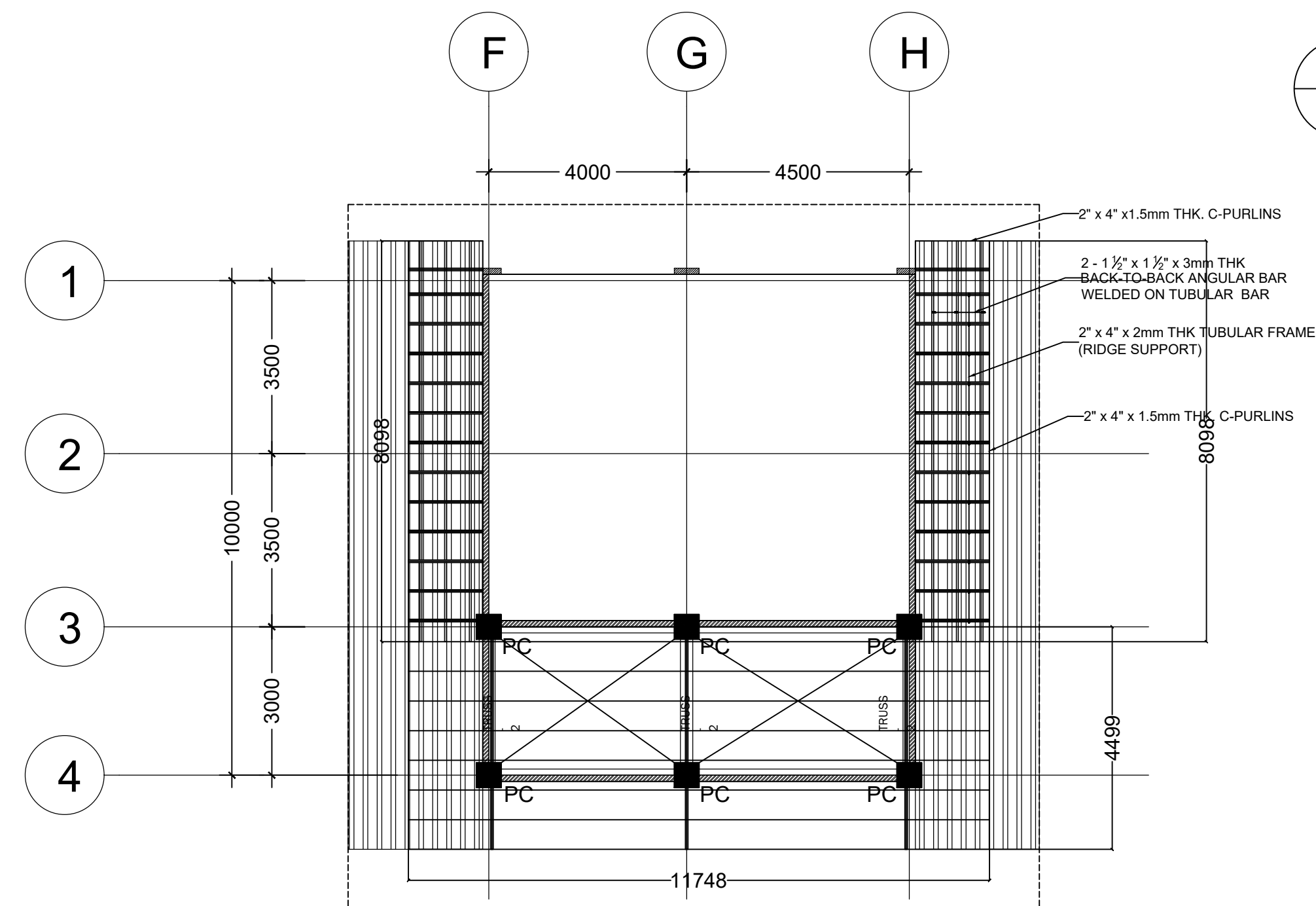
SECTION

DETAIL OF EXPANSION JOINT (DOWELLED) AT
CERTAIN INTERSECTION & STRUCTURES
SCALE: 1:40

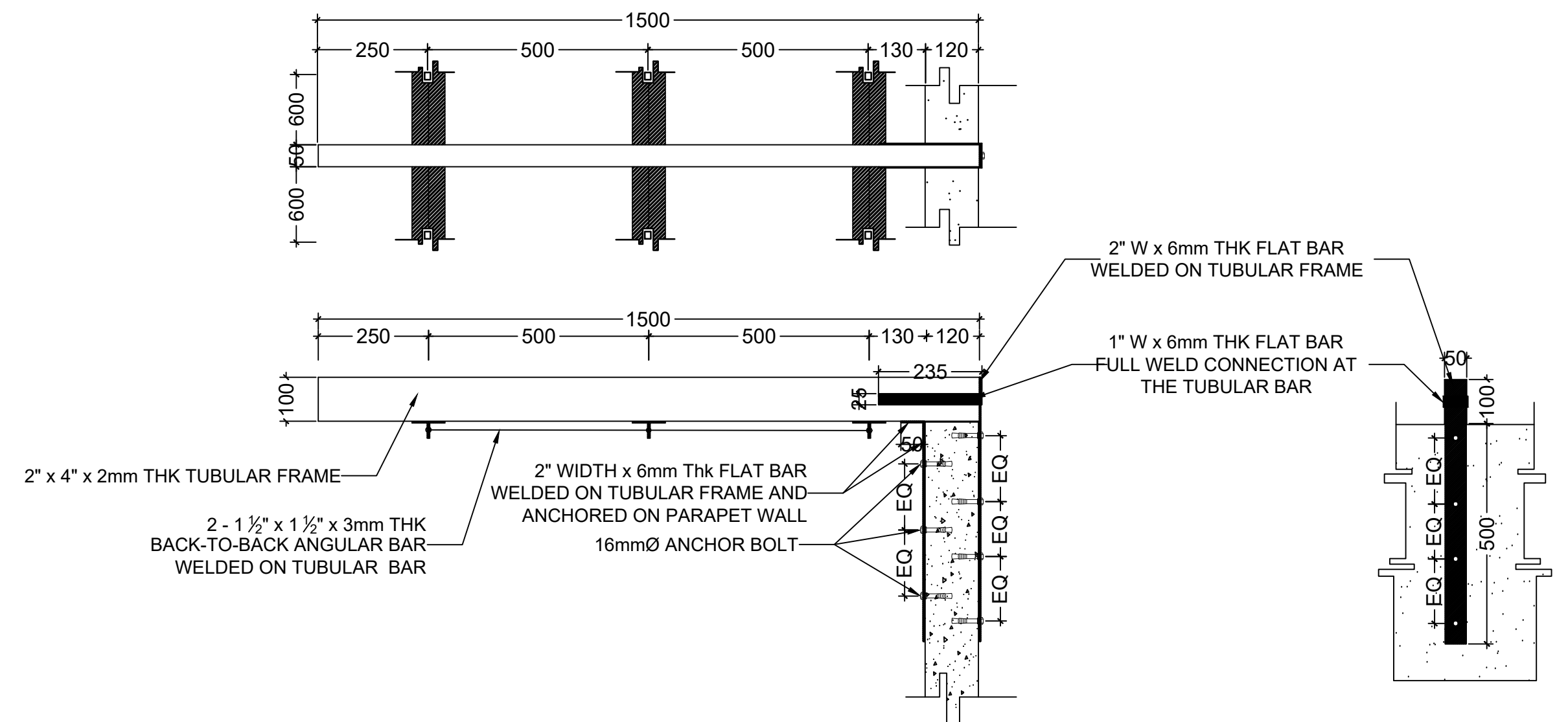
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A ROOFING FRAMING PLAN
 S-5 SCALE 1:100

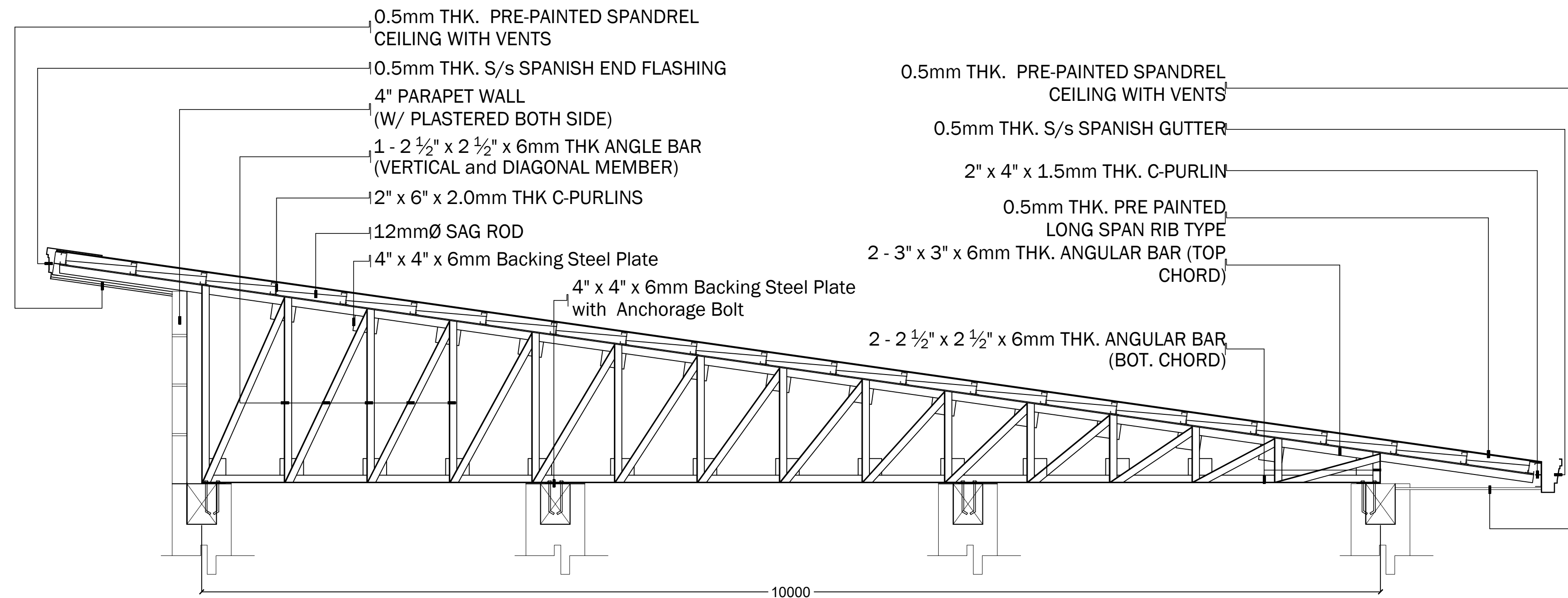


B ROOF (SECOND LAYER) FRAMING PLAN
 S-5 SCALE 1:100

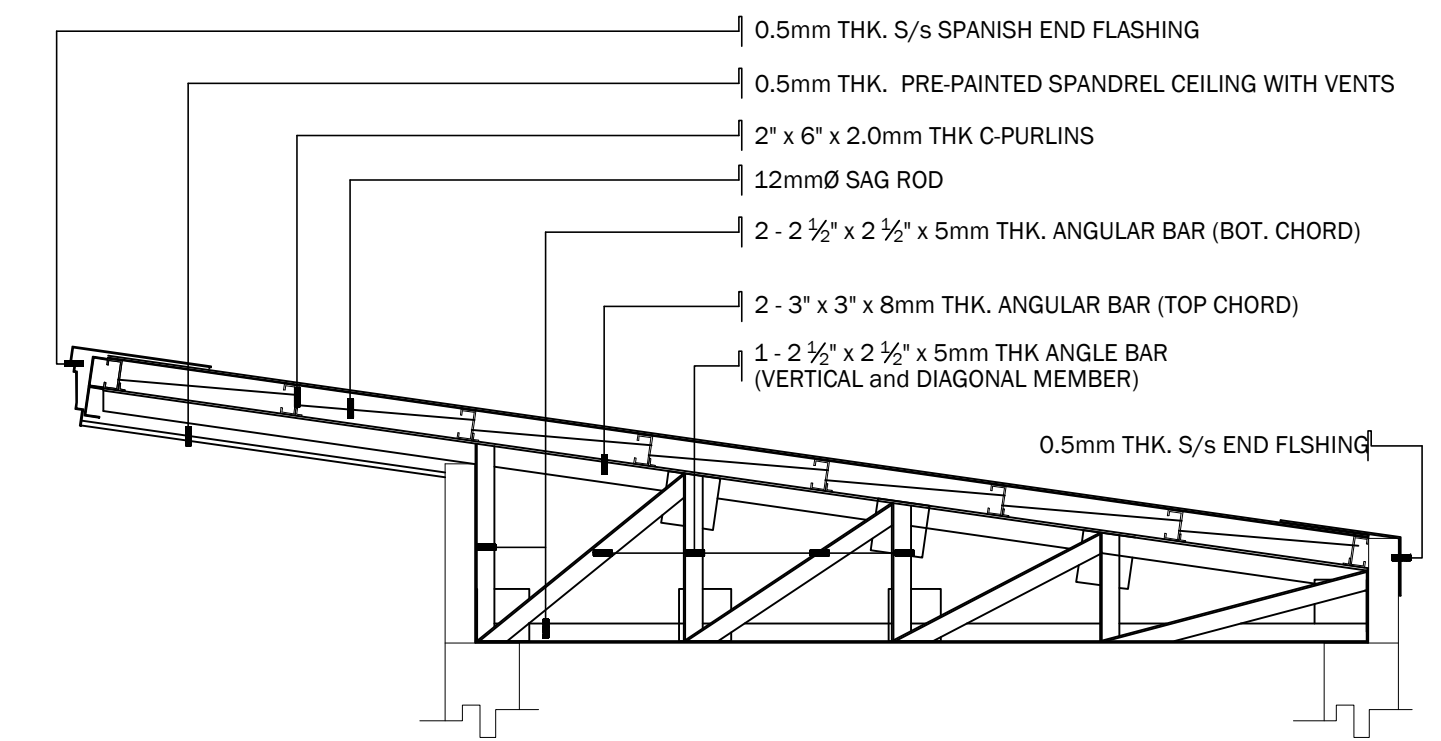


C RIDGE SUPPORT SECTION DETAILS
 S-5 SCALE NTS

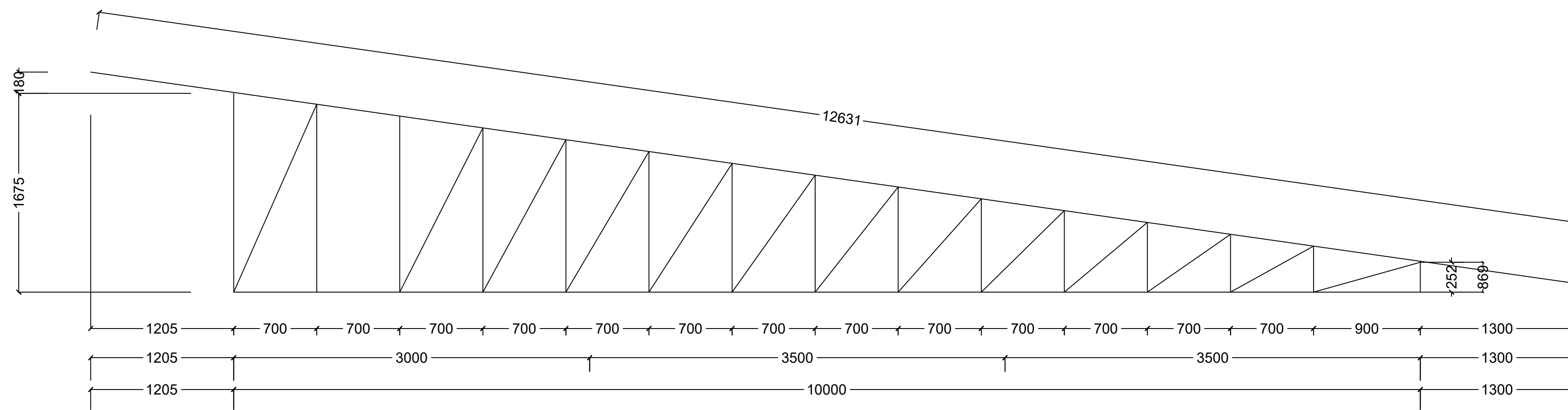
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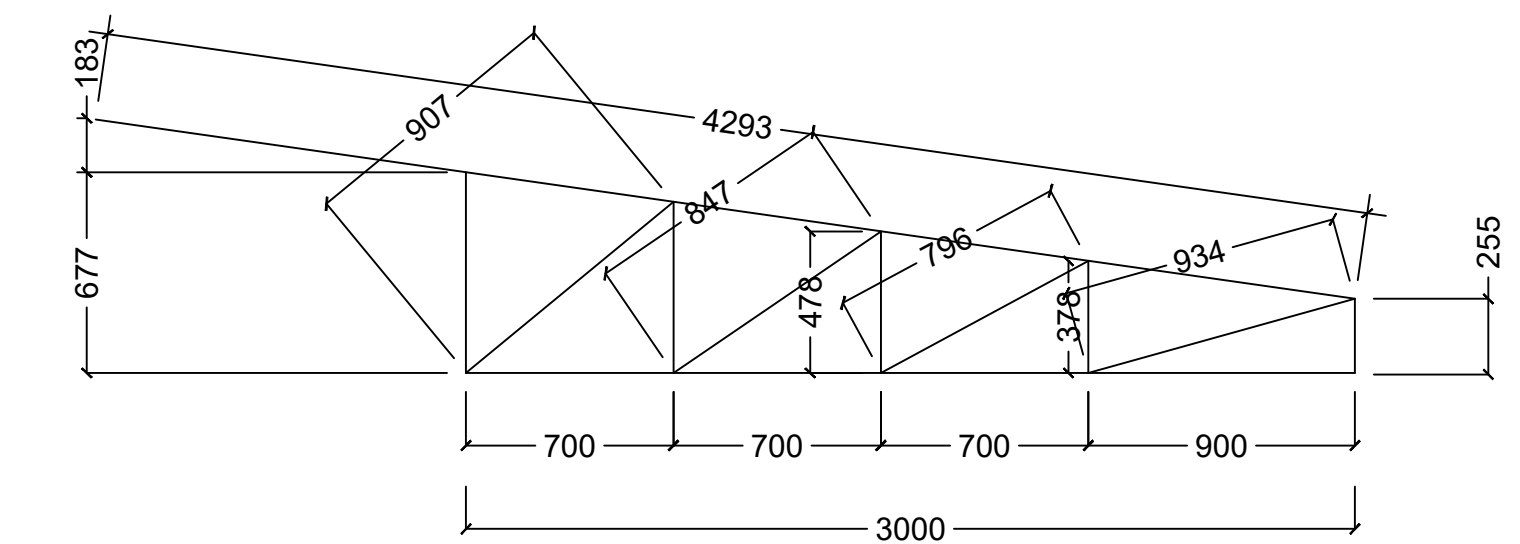
D TRUSS-1 SECTION DETAILS
S-5 SCALE NTS

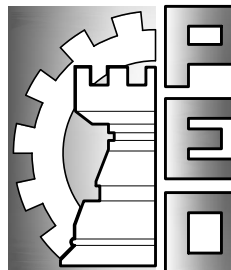


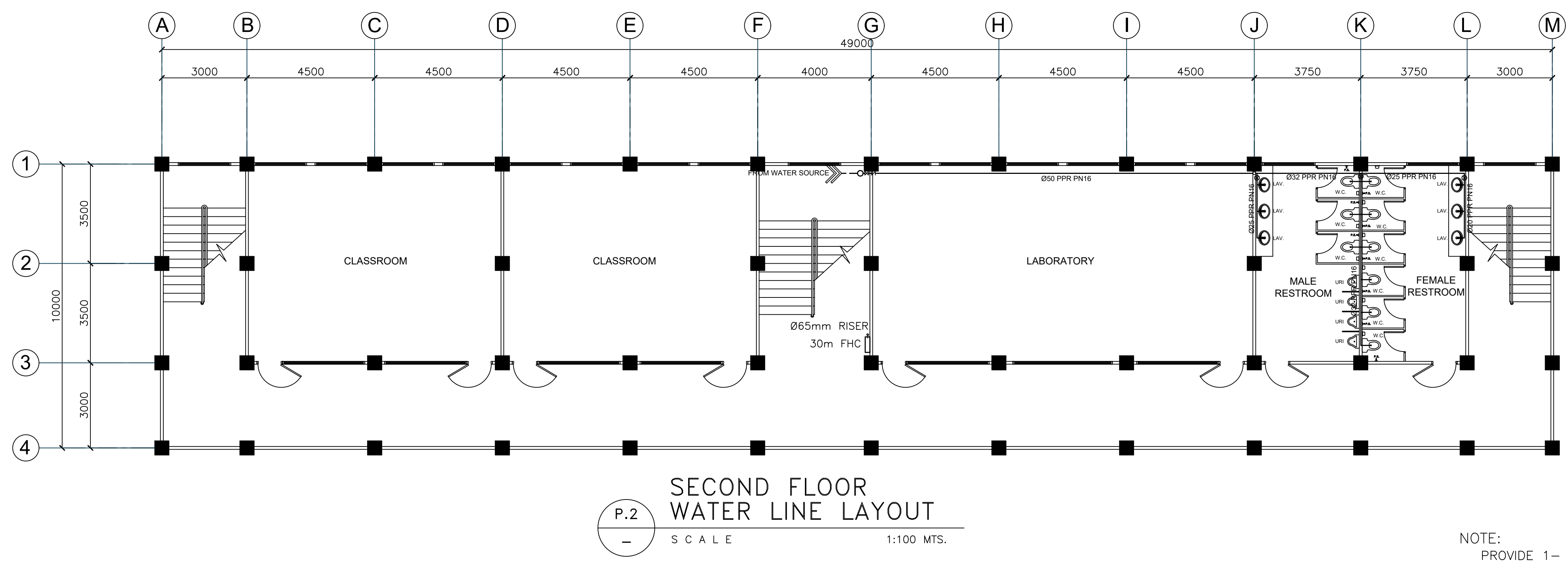
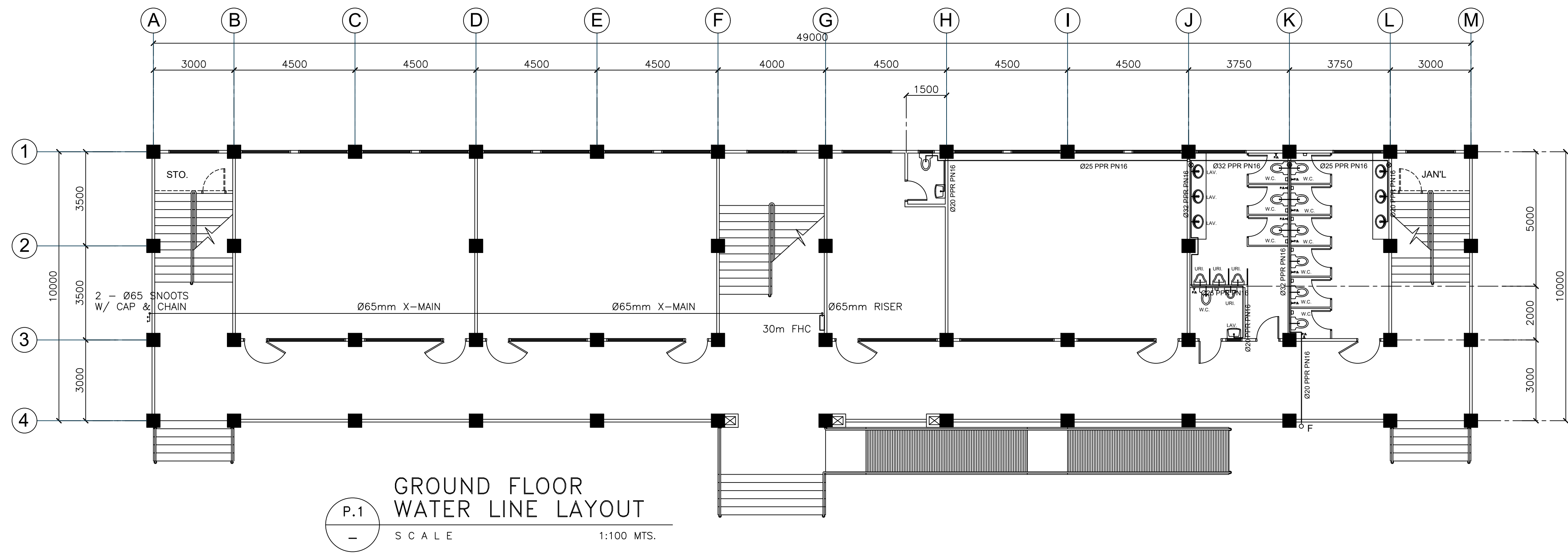
3.1 TRUSS - 2 DIMENSION DETAILS
S-5 SCALE NTS



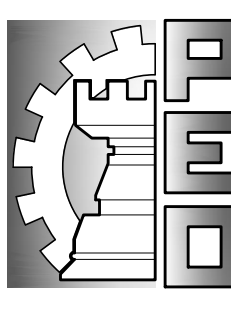
D.1 TRUSS - 1 DIMENSION DETAILS
S-5 SCALE NTS

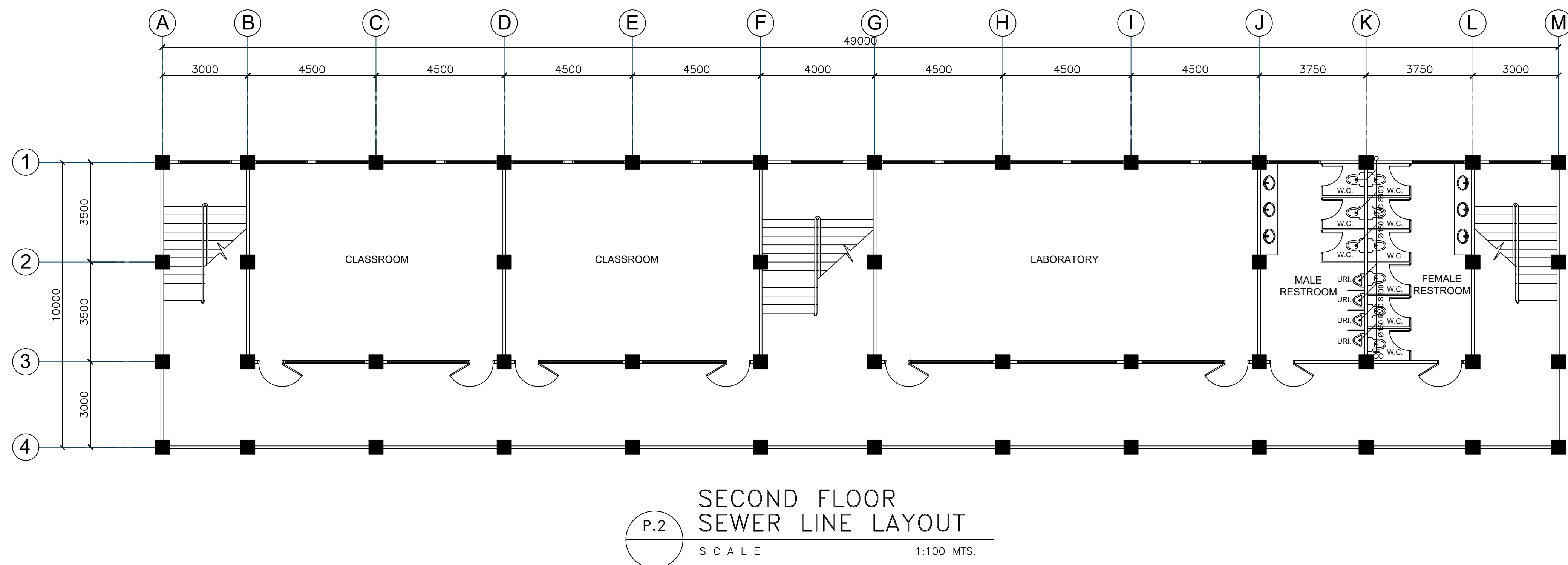
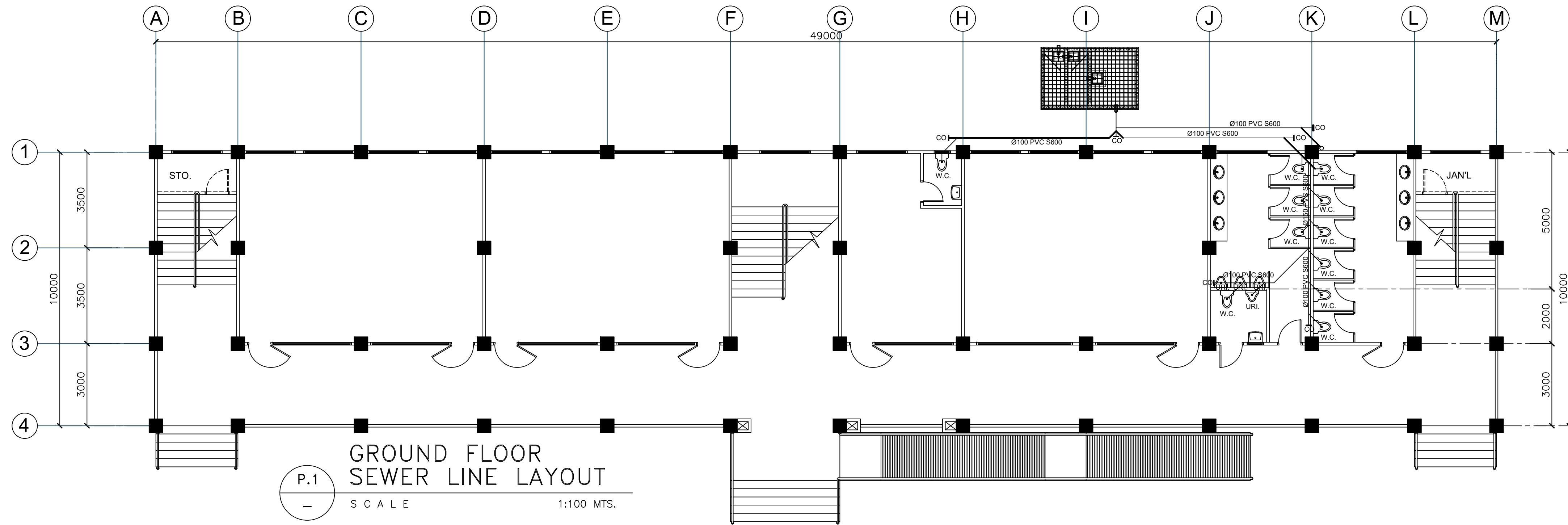


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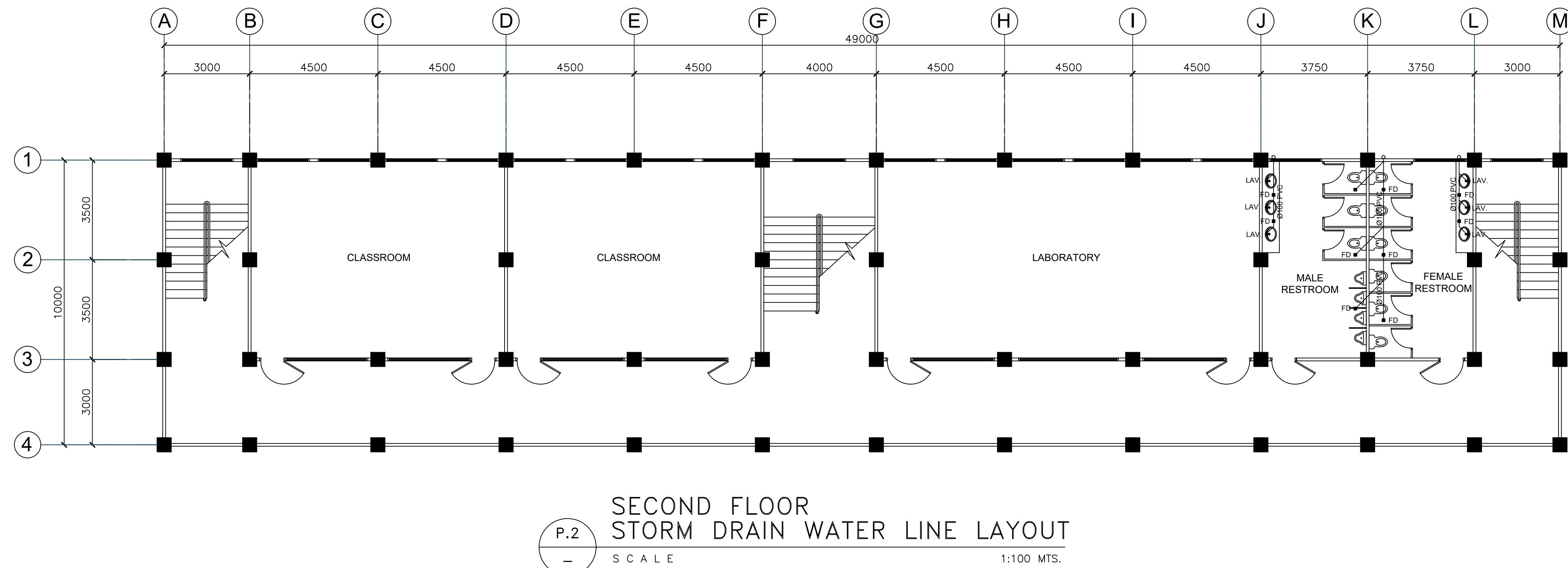
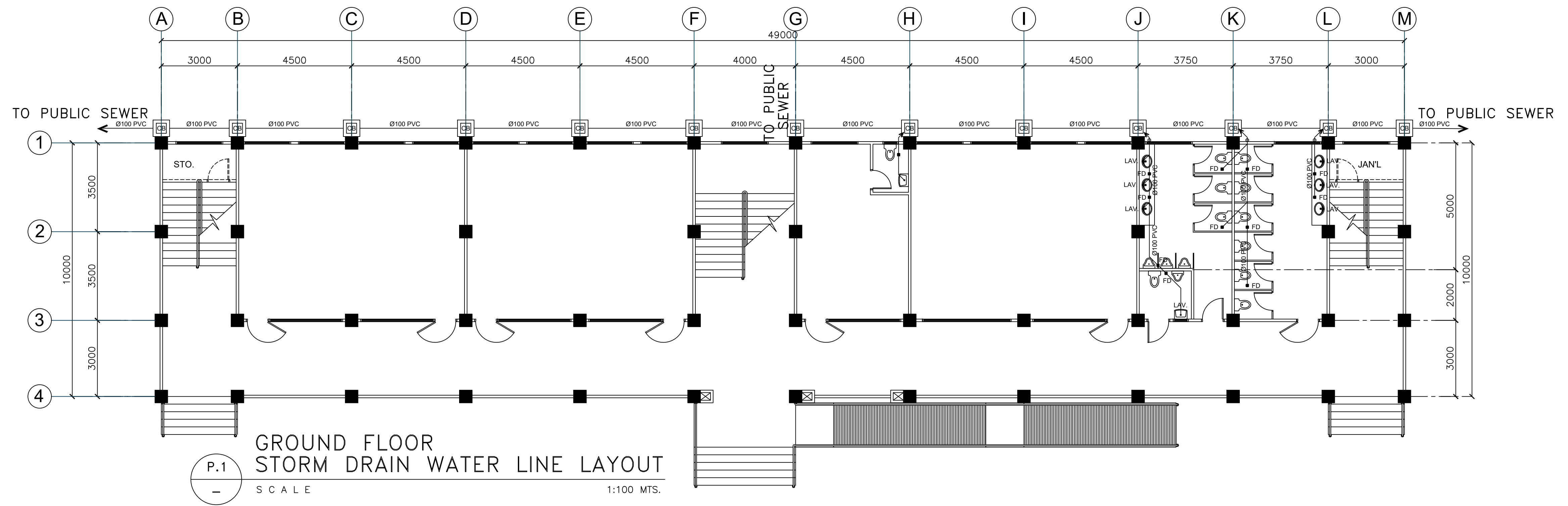


NOTE:
PROVIDE 1- 30m FHC @ 3RD FLOOR

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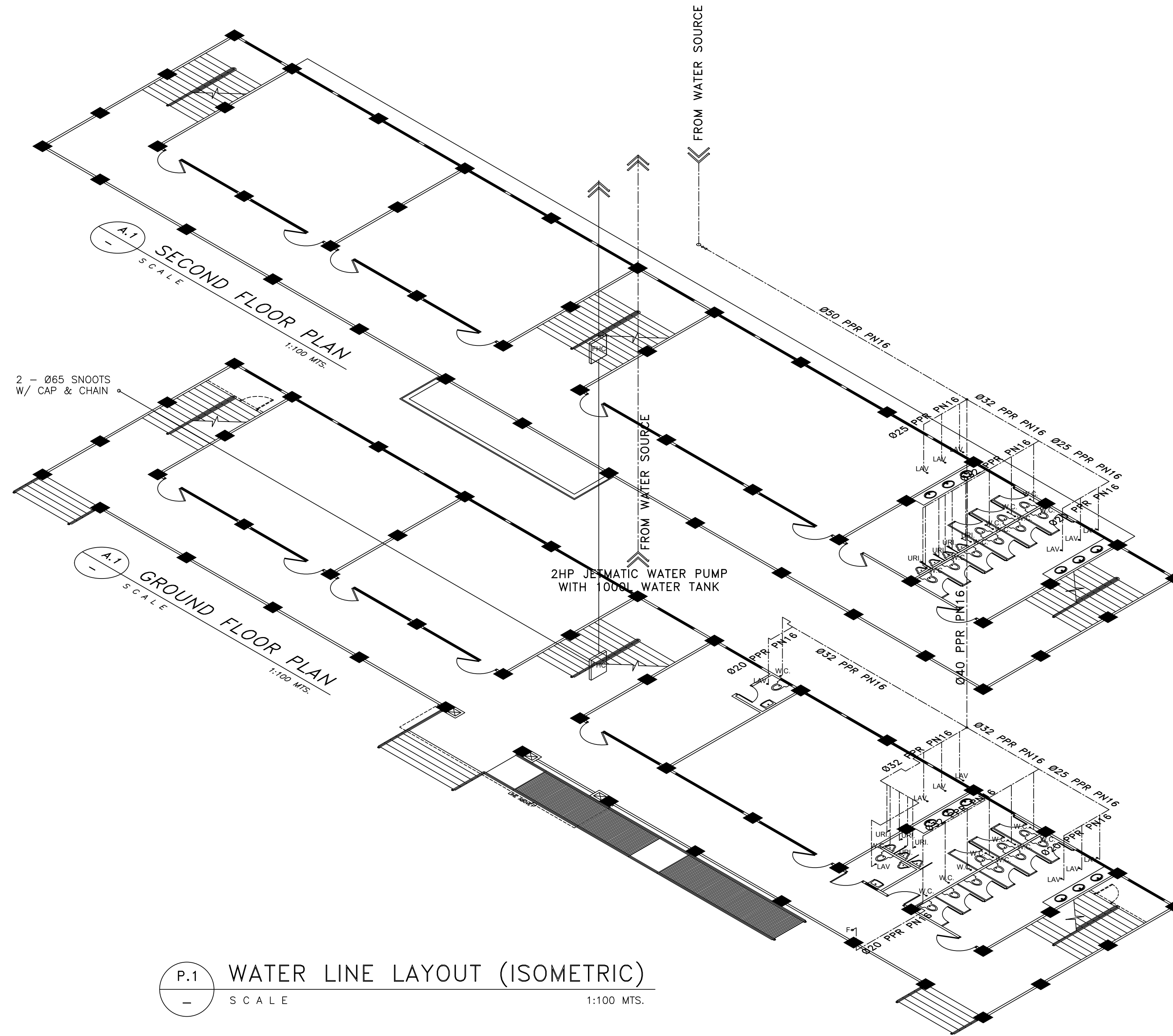


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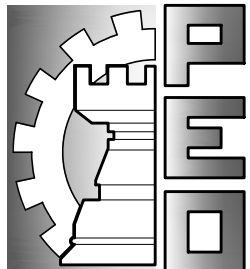


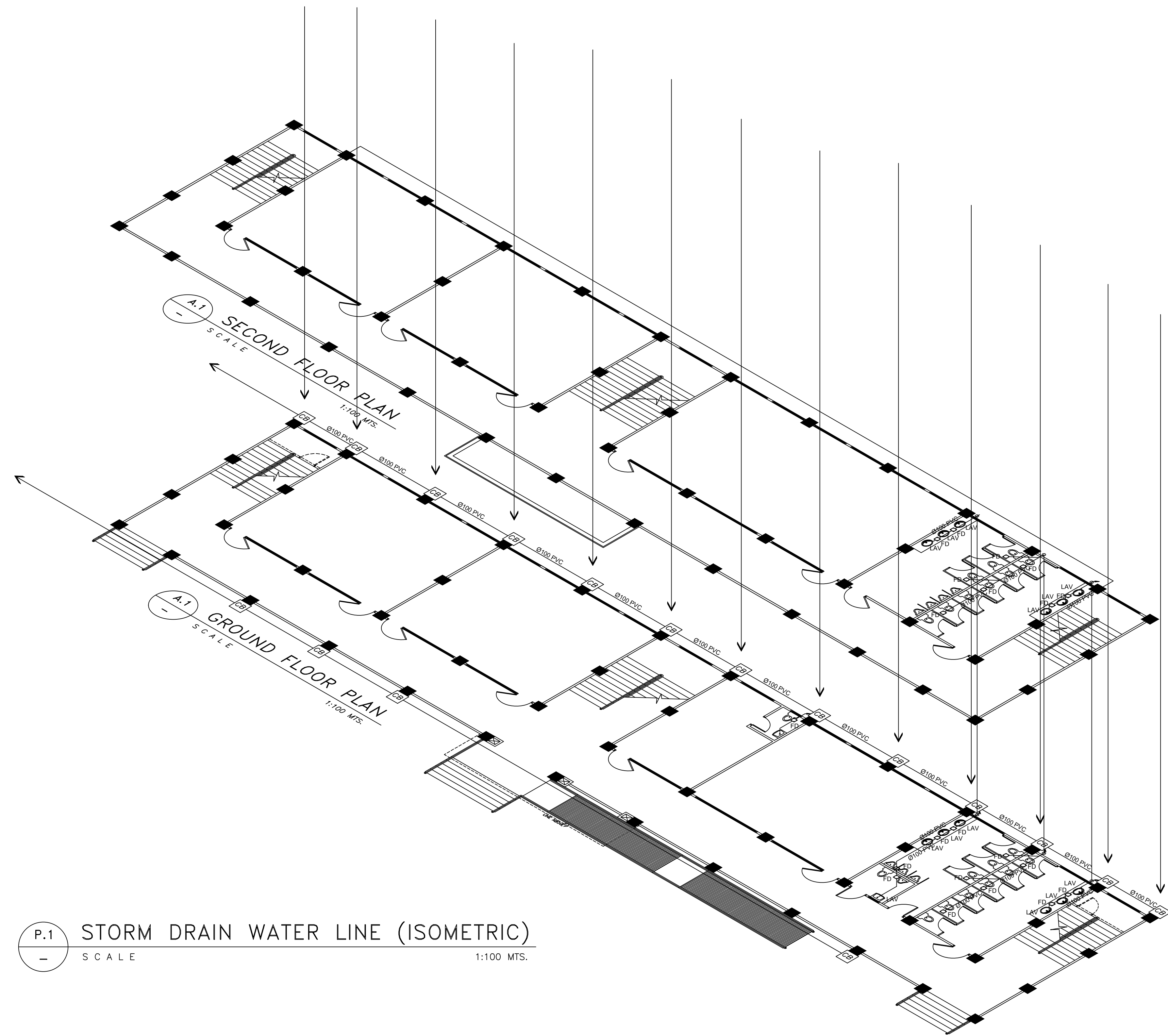
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	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF THREE (3) STOREY BUILDING AT DHVSU FLORIDABLANCA LOCATION: STA. MONICA, FLORIDABLANCA, PAMPANGA	RALPH R. PASCUAL ARCHITECT - III	PETER CRIS G. LAXA ENGINEER - II RANDY Y. DAVID ENGINEER - III	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN DETAILS	P - 3 24 / 35

NOTE:
PROVIDE 1- 30m FHC @ 3RD FLOOR

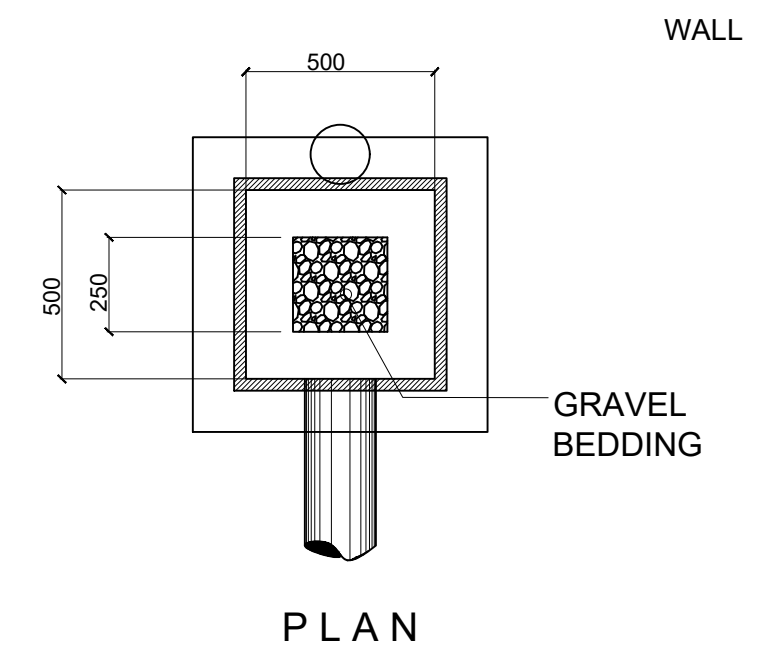
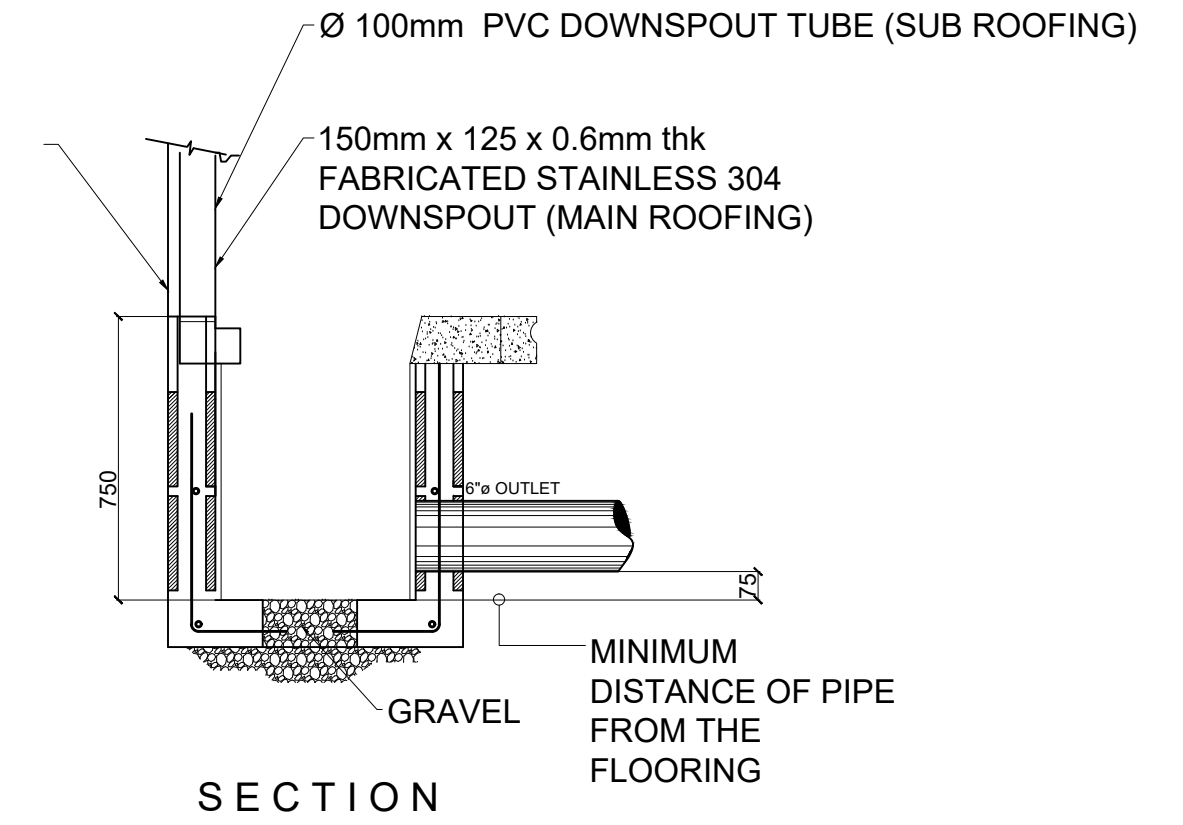


P.1 WATER LINE LAYOUT (ISOMETRIC)
SCALE 1:100 MTS.

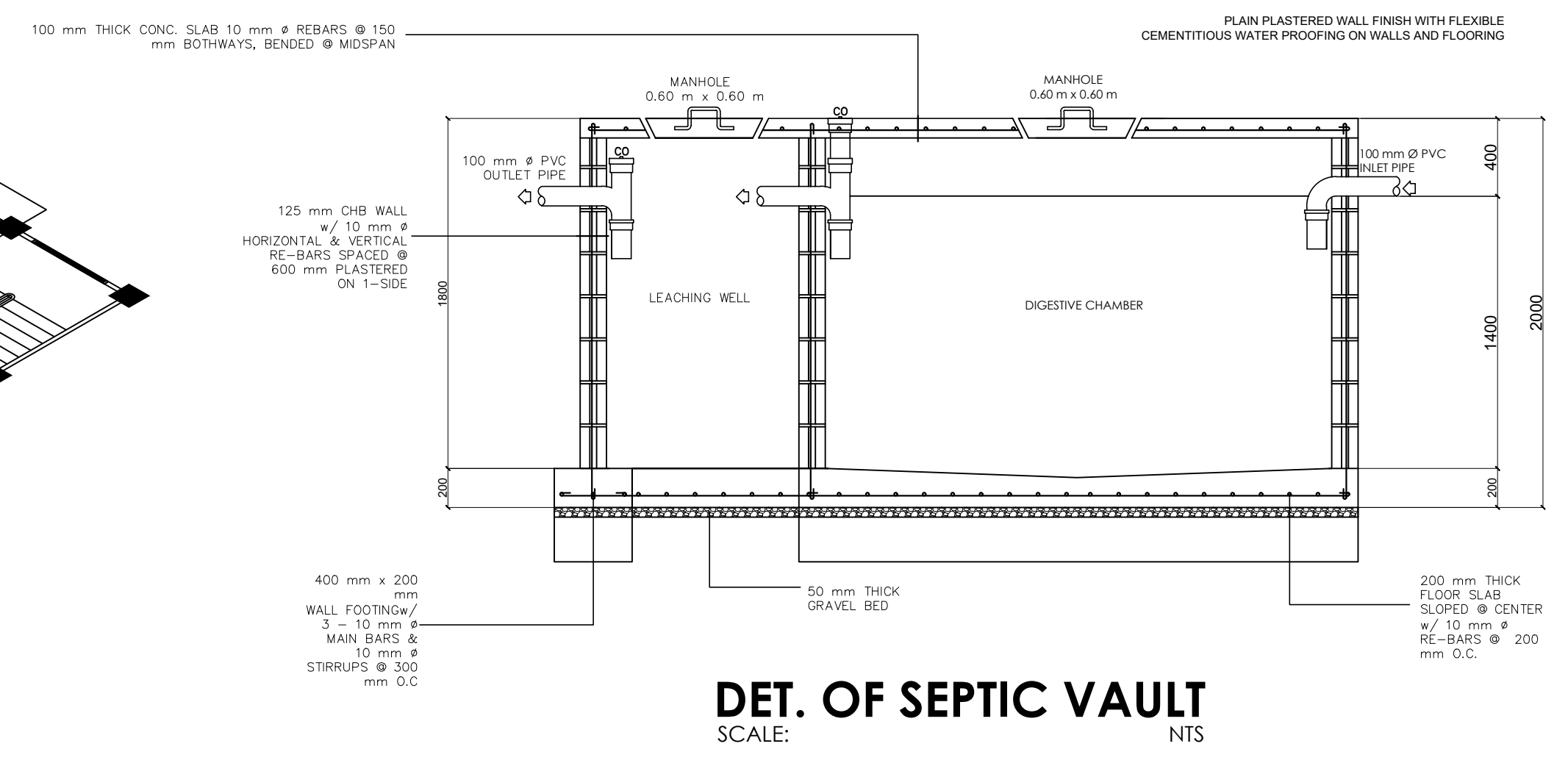
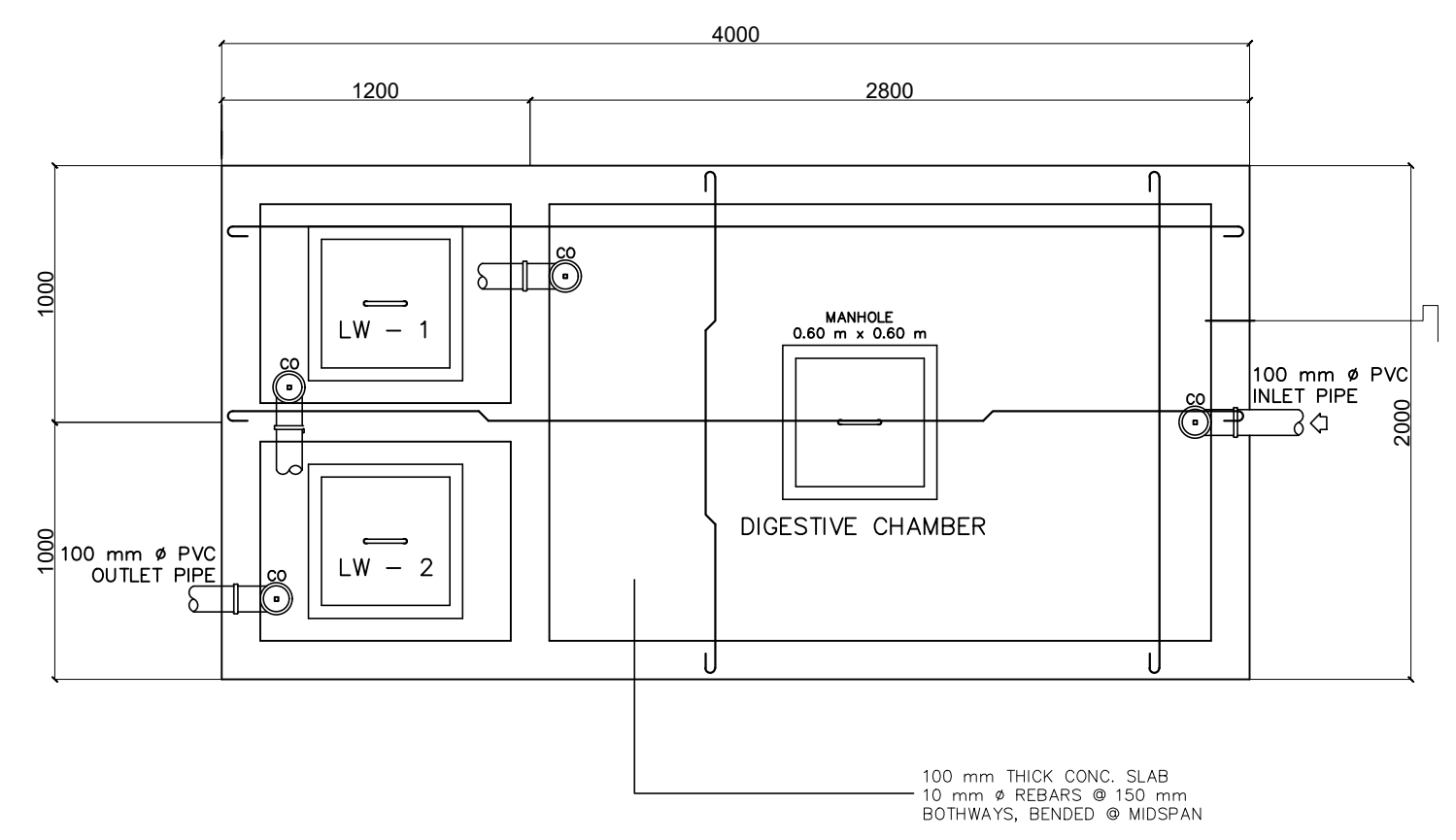
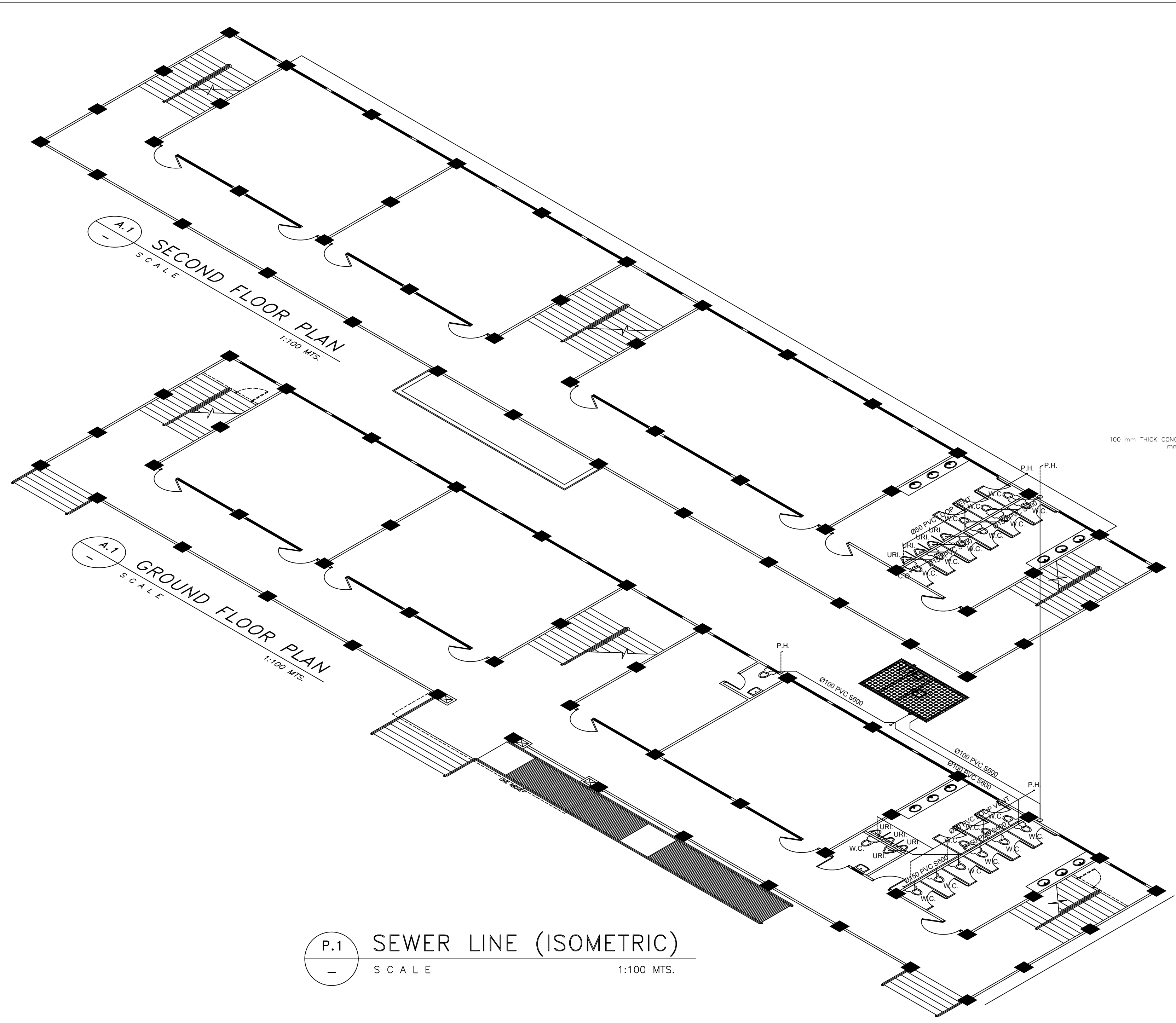
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P.1 STORM DRAIN WATER LINE (ISOMETRIC)
SCALE 1:100 MTS.



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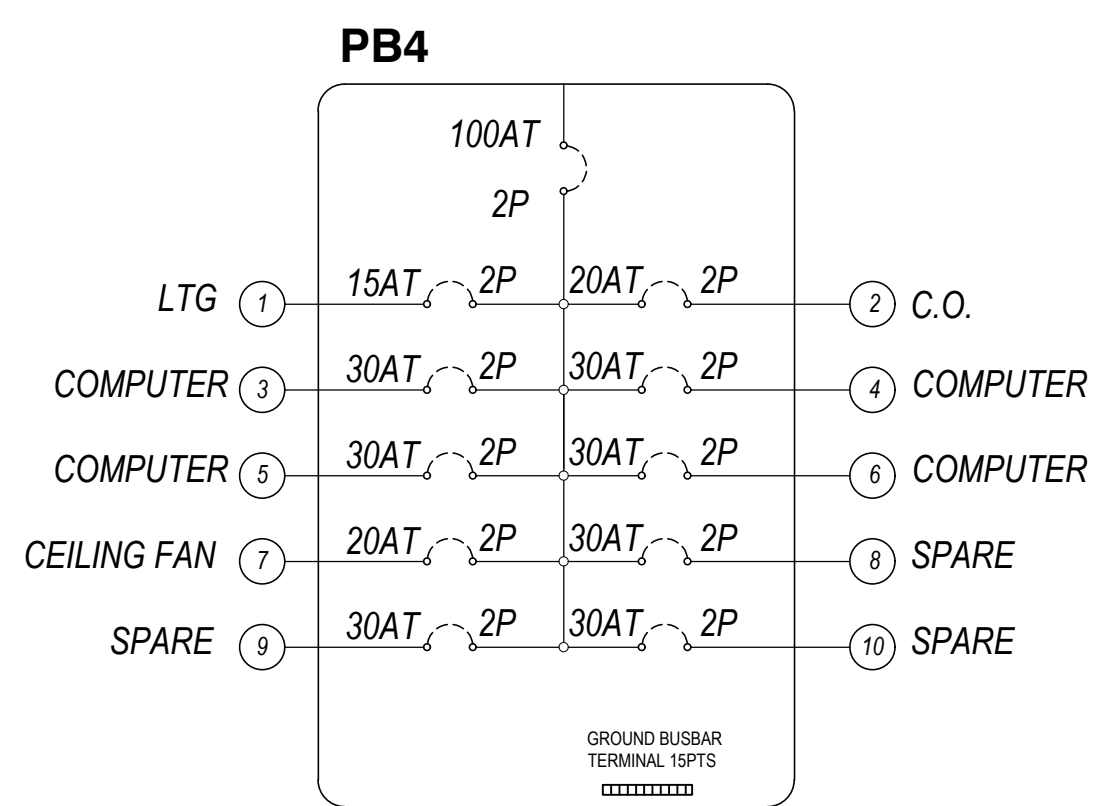
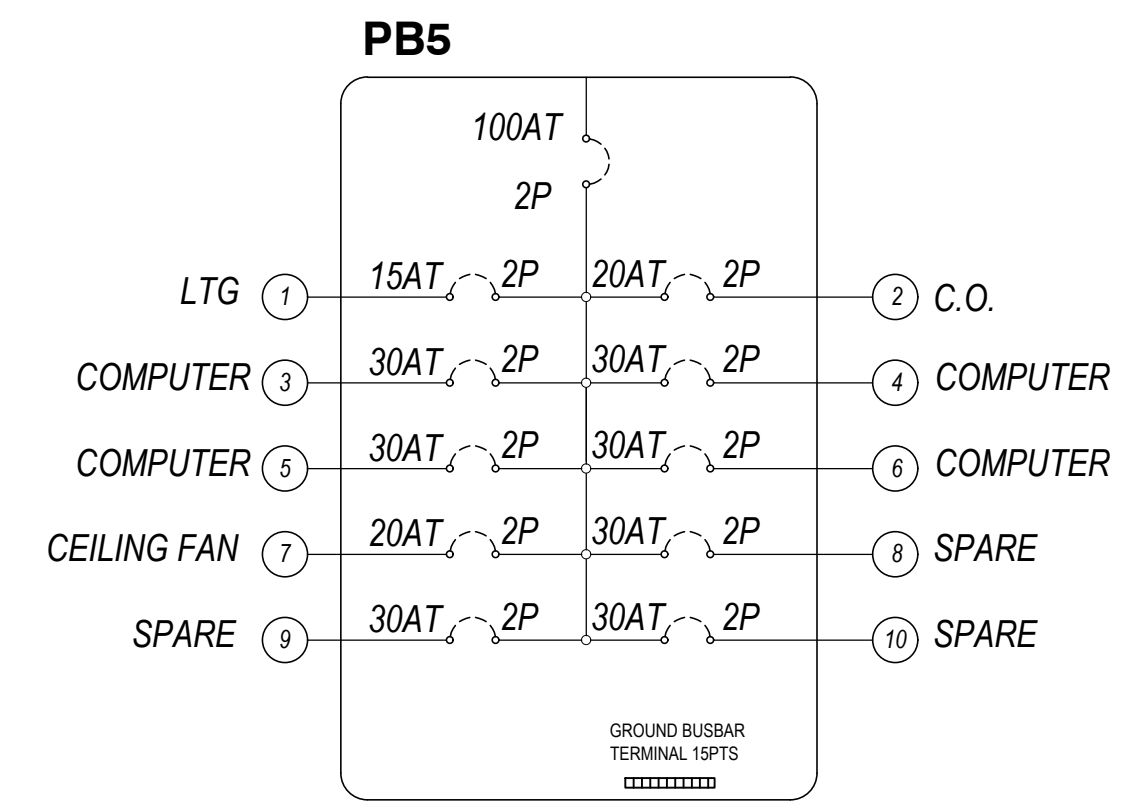
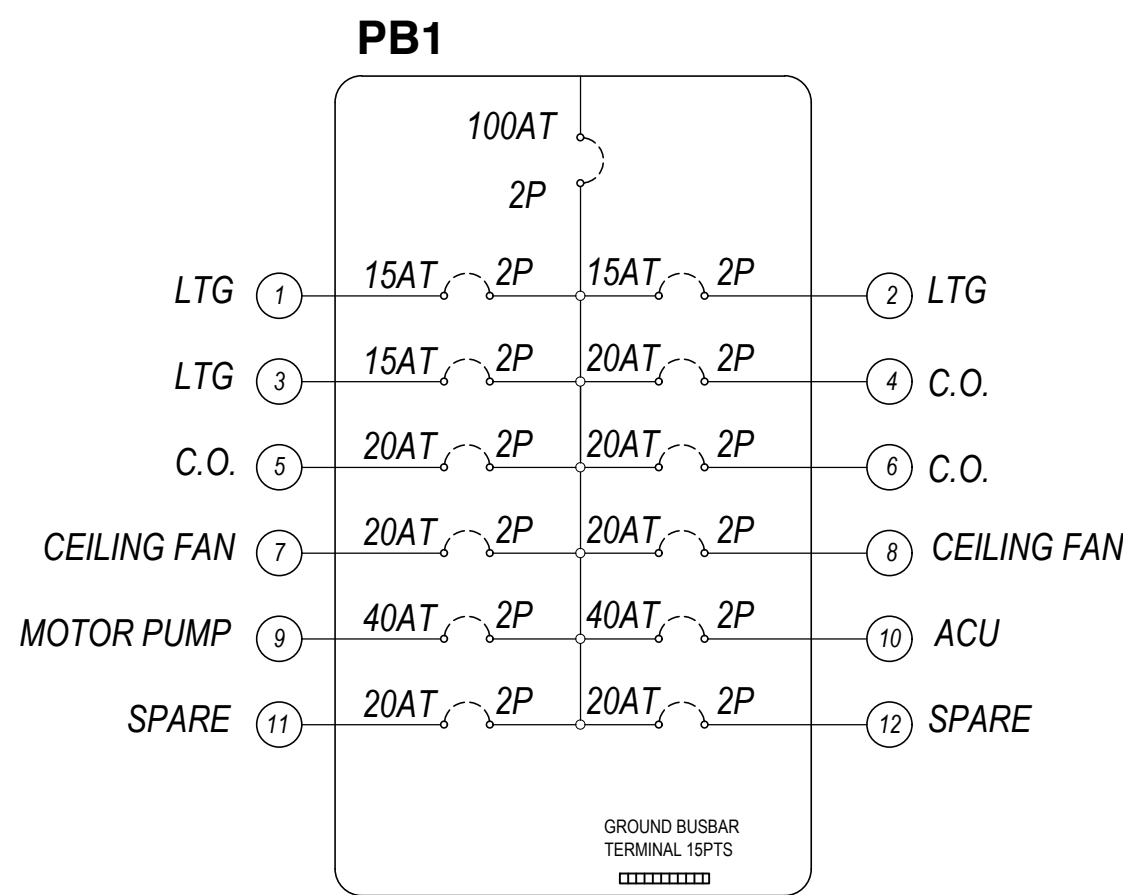
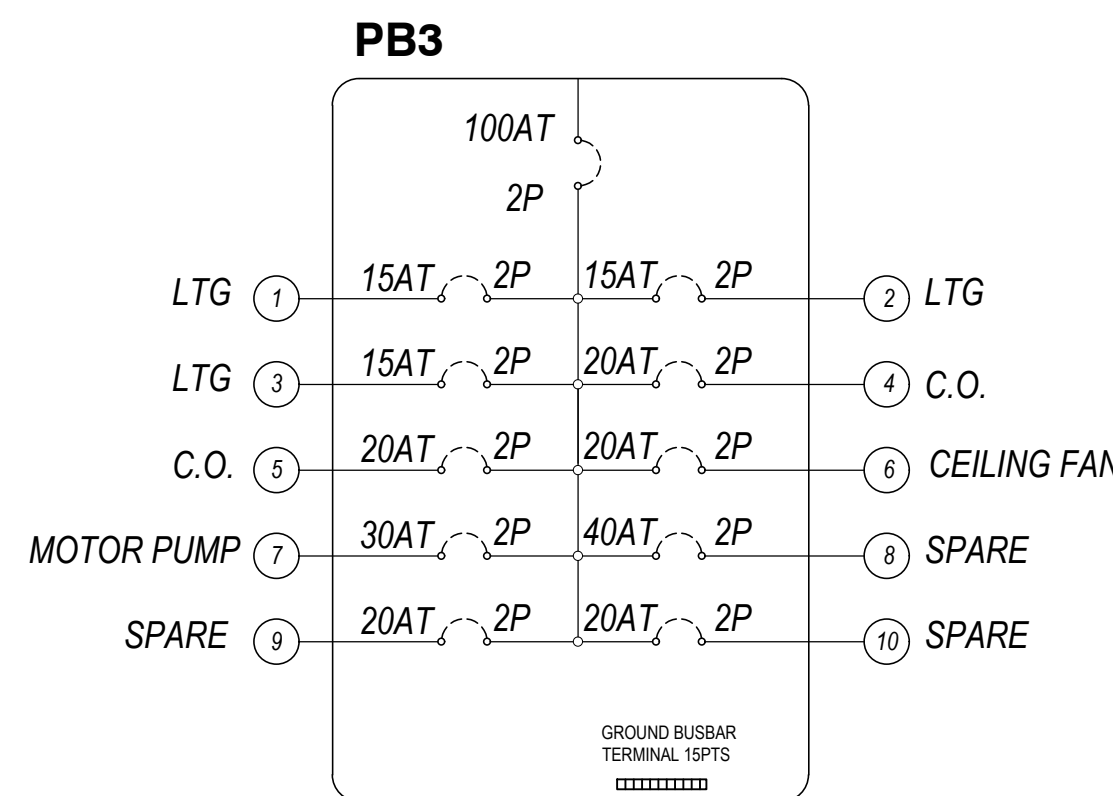
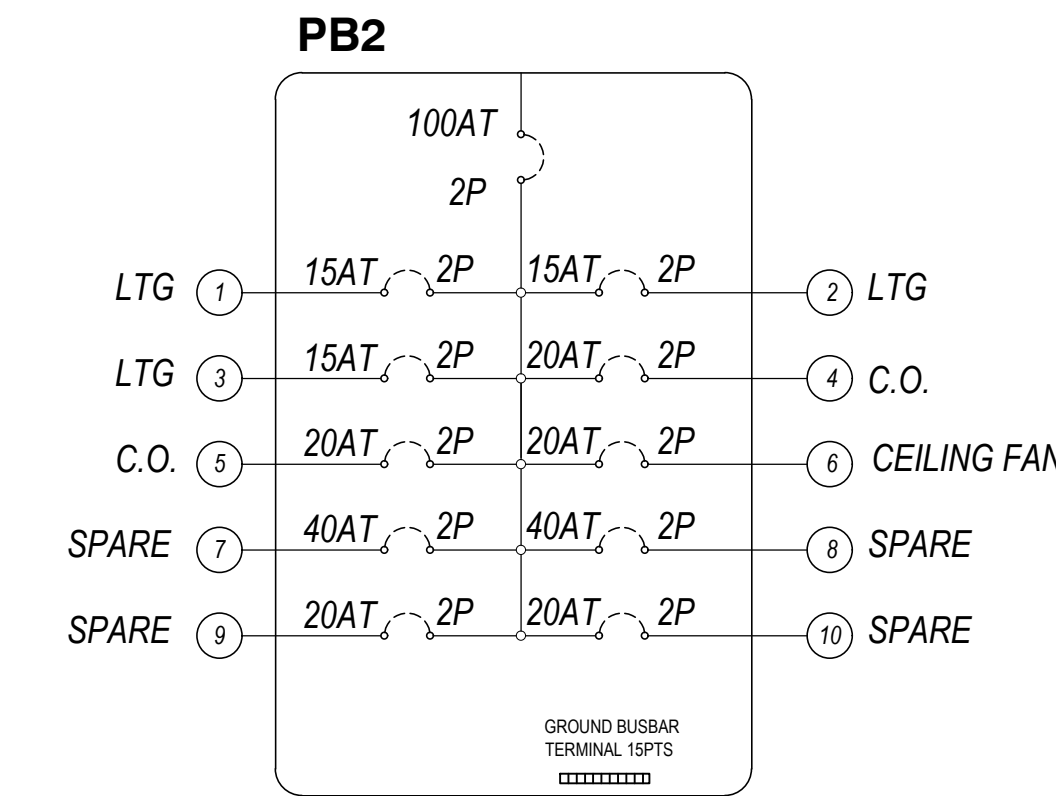
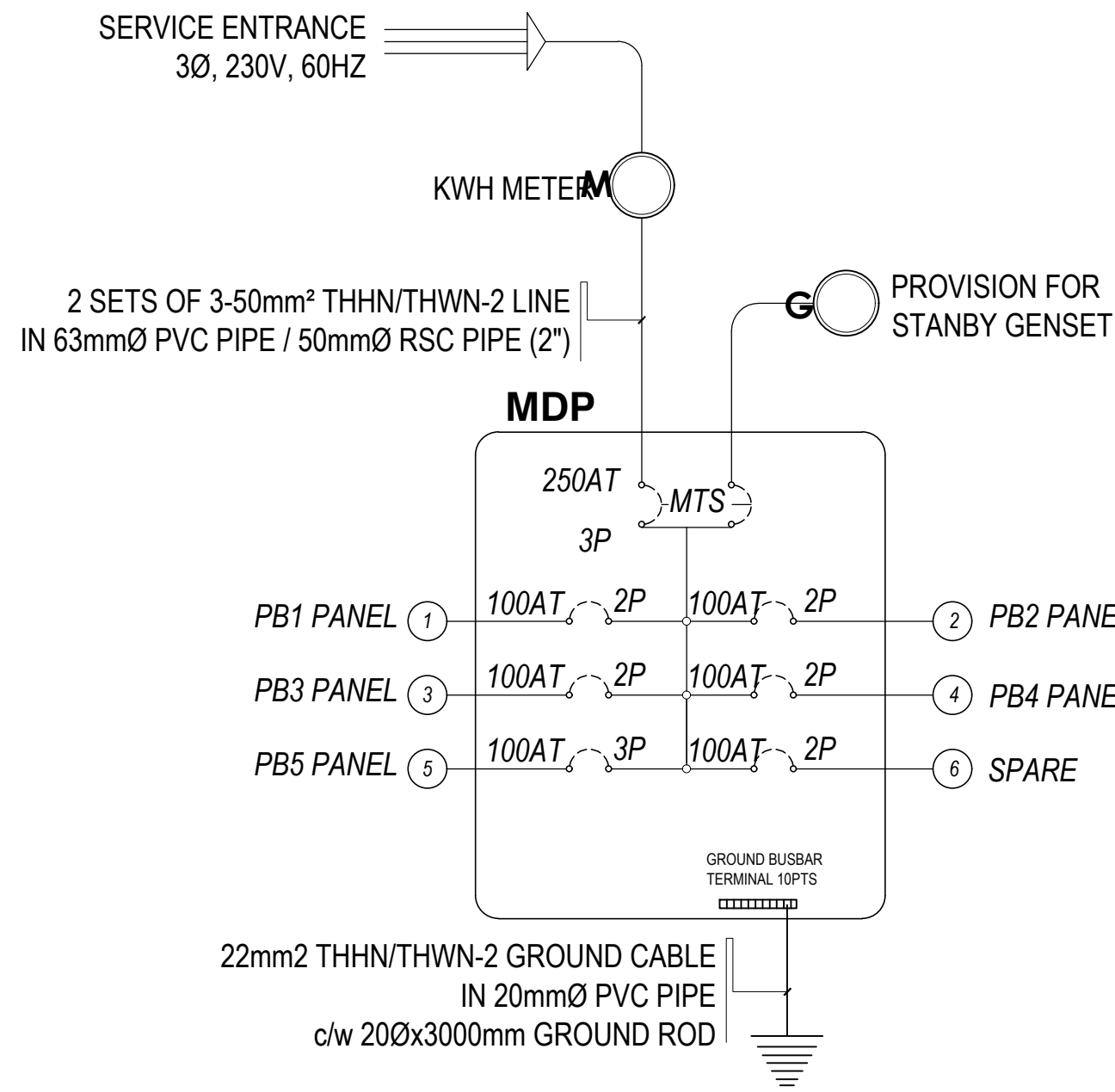


P.1 SEWER LINE (ISOMETRIC)
SCALE 1:100 MTS.

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GENERAL ELECTRICAL NOTES:

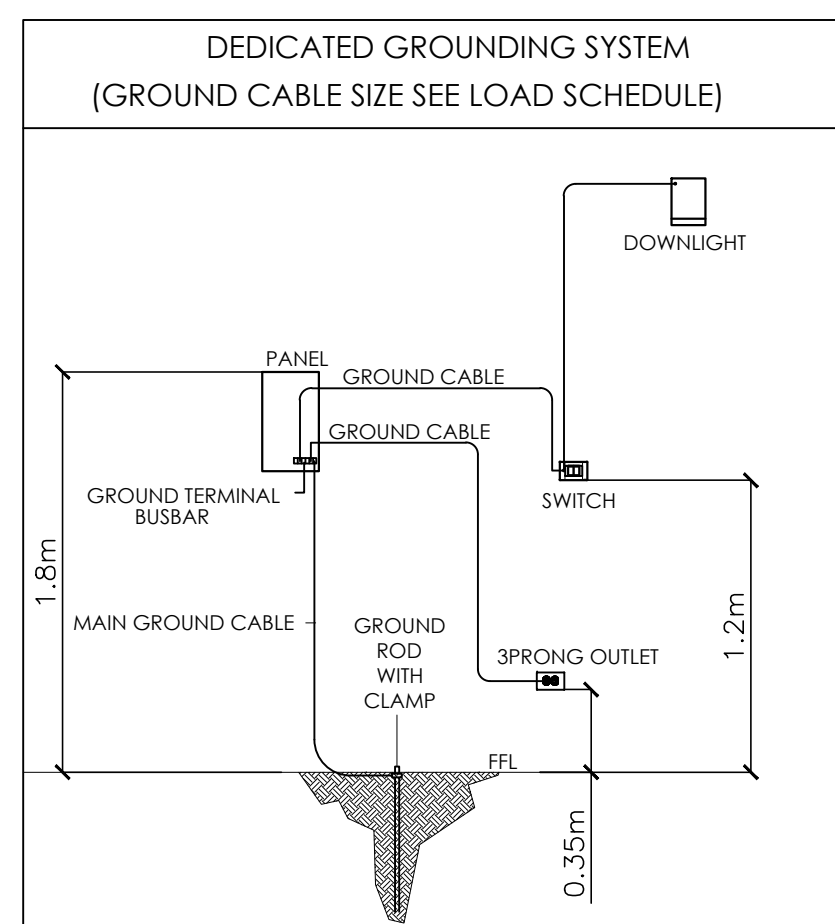
- ALL ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.
- SERVICE FROM THE ELECTRIC POWER COMPANY SHALL BE 230V, 3PHASE, 60HZ. ALL INSTALLATIONS SHALL BE CONCEALED FROM VIEW BY INSTALLING CONDUCTORS IN PVC CONDUIT. POWER AND LIGHTING DISTRIBUTION EMBEDDED IN CONCRETE SHALL BE IN PVC CONDUITS. EXPOSED POWER AND LIGHTING DISTRIBUTION SHALL BE IN RSC CONDUITS, BY MEANS OF HANGERS.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED THE MINIMUM SIZE FOR POWER AND LIGHTING SHALL BE 3.5 sqmm WIRE.
- THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY.
- ALL RECEPTACLES SHALL BE OF THE GROUNDING TYPE.
- ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANELBOARDS, LIGHTING FIXTURES AND ALL NON-CURRENT CARRYING METAL PARTS BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
- ALL PANELBOARDS SHALL BE PROVIDED WITH GROUNDING BUS. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND OF THE THERMAL-MAGNETIC TYPE, COMMON TRIP WITH THE RATINGS AND NUMBER OF POLES AS INDICATED IN THE DRAWINGS.
- THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS:
 - LIGHT SWITCHES 1.3M ABOVE FLOOR FINISH TO BOTTOM SWITCH.
 - CONVENIENCE OUTLETS 0.35M ABOVE FLOOR FINISH TO BOTTOM C.O.
 - TELEPHONE OUTLETS 0.35M ABOVE FLOOR FINISH TO BOTTOM T.O..
 - PANELBOARDS & CABINETS 1.8M ABOVE FLOOR FINISH AT TOP OF PANEL
- ALL MOUNTING HEIGHTS SHALL BE SUBJECT TO ARCHITECTS APPROVAL PRIOR TO INSTALLATION.
- WHENEVER NECESSARY PULL BOXES SHALL BE PROVIDED EVEN IF NOT INDICATED IN THE PLANS.
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY QUALIFIED LICENSED ELECTRICAL ENGINEER.
- PROVIDE LIGHTNING ELECTRODE AND ARRESTER TO GROUND.
- ONLY POWER SUPPLY SHALL BE PROVIDED FOR THE PROVISION OF AIRCON
- THE 3 PHASE WIRE COLOR CODING SHALL BE AS FOLLOW:
 - LINE 1 - RED
 - LINE 2 - YELLOW
 - LINE 3 - BLUE
 - GROUND - GREEN
- THE FOLLOWING TEST SHALL BE DONE BEFORE ENERGIZATION THE ELECTRICAL SYSTEM
 - CONTINUITY TEST
 - INSULATION RESISTANCE TEST
 - EARTH RESISTANCE TEST
 - PHASE SEQUENCE TEST
 - FUNCTIONALITY TEST



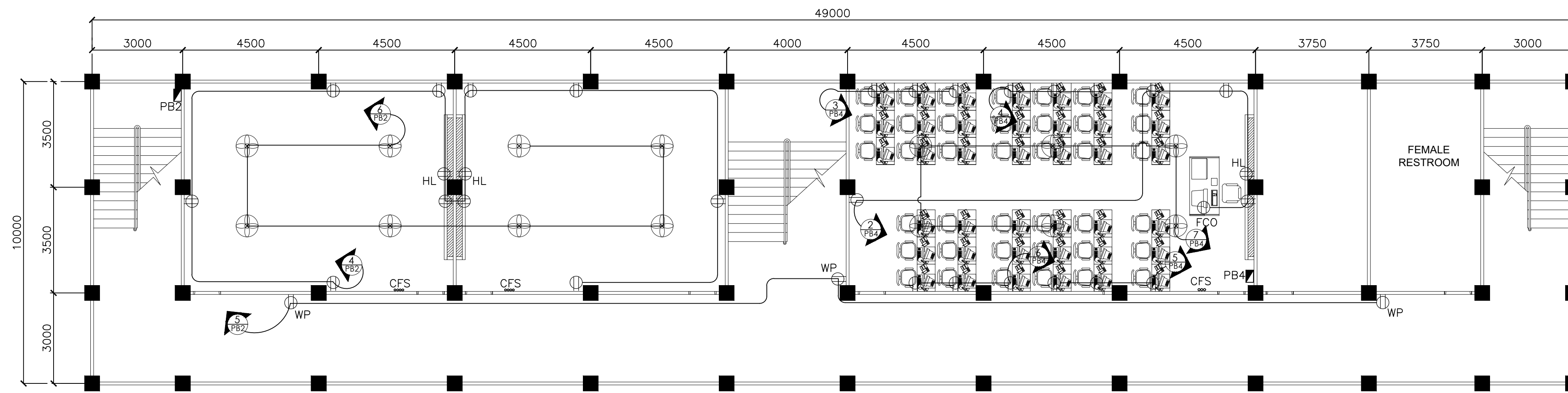
LEGEND:

	18W LED TROFFER LINEAR LIGHTS
	9W LED DOWNLIGHT
	12W LED DOWNLIGHT
	15W LED DOWNLIGHT
	CIRCUIT HOMERUN
	1 GANG, 2 GANG & 3 GANG SWITCH
	2-3.5W LED EMERGENCY LIGHT
	DUPLEX CONVENIENCE OUTLET
	FLOOR MOUNTED CONVENIENCE OUTLET
	MULTI-PURPOSE OUTLET (COUNTER HEIGHT)
	PANELBOARD
	18W T8 LED TUBE BOX TYPE
	12W LED UP & DOWN WALL LAMP
	12W LED WALL LAMP
	30W EXHAUST FAN
	18" ROTARY CEILING FAN
	HIGH LEVEL CONVENIENCE OUTLET

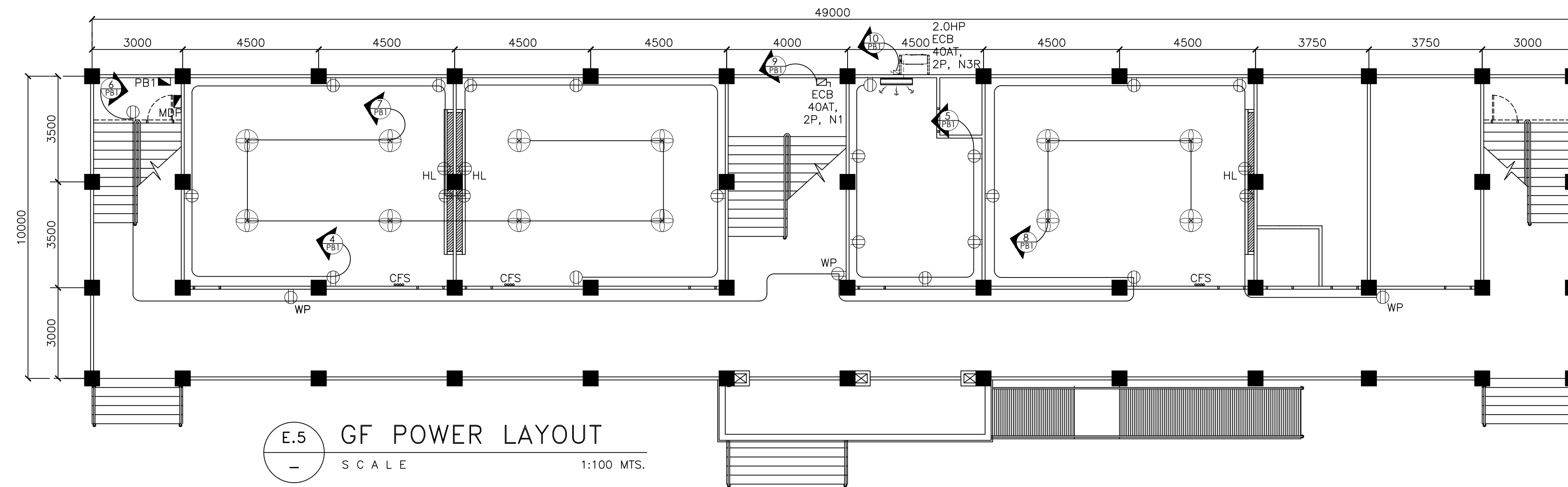
E.9 SINGLE LINE DIAGRAM
SCALE _____ NTS



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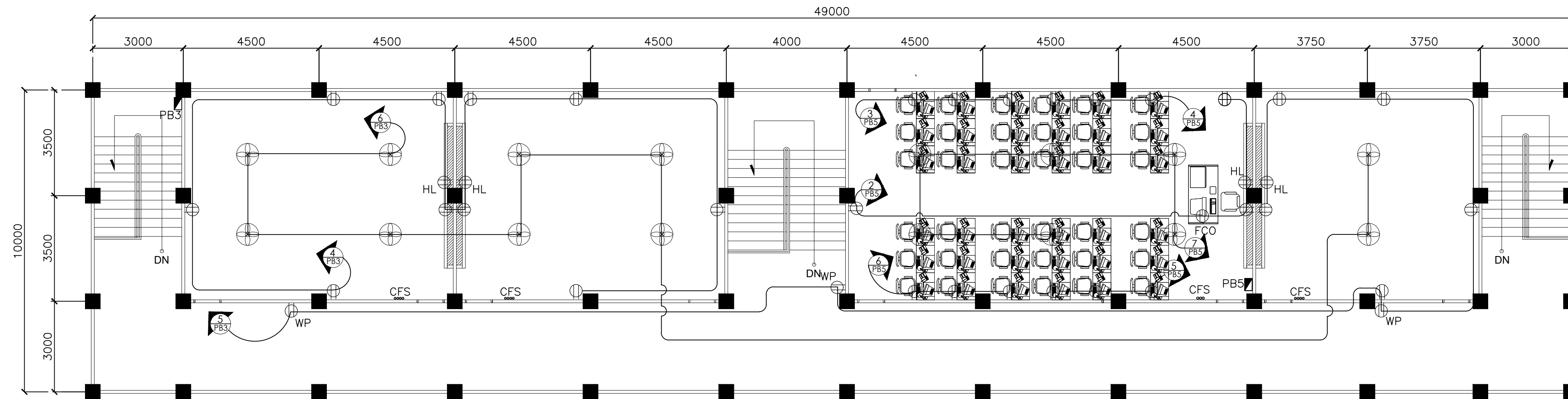


E.6 2F POWER LAYOUT
SCALE 1:100 MTS.



E.5 GF POWER LAYOUT
SCALE 1:100 MTS.

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									DETAILS	29 / 35



E.7 3F POWER LAYOUT
SCALE 1:100 MTS.

PANEL NAME: MDP FEED FROM : POWER SERVICE PROVIDER SYSTEM : 230V, 3Ø, 3WIRE + GROUND, 60HZ ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON, WITH GROUND TERMINAL BUSBAR 15 POINTS		DHVSU LIGHTING AND POWER LOAD CALCULATION													
CKT. NO	DESCRIPTION	CONNECTED LOAD					OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS				
		V	VA	AB	CA	BC	ABC	AT	AF	P	KA				
1	PB1 PANEL	230	16080	69.91				100	100	2	65	2-30mm ² THHN/THWN-2 LINE + 8mm ² THHN/THWN-2 GROUND IN 40 mm DIA. PVC CONDUIT or 32mm dia. EMT Conduit			
2	PB2 PANEL	230	13019	56.60				100	100	2	65	2-30mm ² THHN/THWN-2 LINE + 8mm ² THHN/THWN-2 GROUND IN 40 mm DIA. PVC CONDUIT or 32mm dia. EMT Conduit			
3	PB3 PANEL	230	13313		57.88			100	100	2	65	2-30mm ² THHN/THWN-2 LINE + 8mm ² THHN/THWN-2 GROUND IN 40 mm DIA. PVC CONDUIT or 32mm dia. EMT Conduit			
4	PB4 PANEL	230	15520		67.48			100	100	2	65	2-30mm ² THHN/THWN-2 LINE + 8mm ² THHN/THWN-2 GROUND IN 40 mm DIA. PVC CONDUIT or 32mm dia. EMT Conduit			
5	PB5 PANEL	230	15520			67.48		100	100	2	65	2-30mm ² THHN/THWN-2 LINE + 8mm ² THHN/THWN-2 GROUND IN 40 mm DIA. PVC CONDUIT or 32mm dia. EMT Conduit			
6	SPARE	230	13500			58.70		100	100	2	65	40mmØ PVC CONDUIT STUB-OUT			
TOTAL CONNECTED LOAD :		86952	126.52	125.36	126.17	0.00									
FEEDER LINE COMPUTATION:		MAIN CIRCUIT BREAKER COMPUTATION:					USE :								
I = (126.518x 1.732) + (12x 0.25) 100% DF		I = (126.518x 1.732) + (12x 1.5) 100% DF					2-250AT/250AF, 3P, 85KAIC, MCCB								
I = 222.13 Amps		I = 237.13 Amps					2SETS OF 3-50mm ² THHN/THWN-2 (L) + 22mm ² THHN/THWN-2 (G)								
							IN 63 mmØ PVC CONDUIT OR IN 50mmØ RSC CONDUIT								

E.8 LOAD CALCULATION
SCALE NTS

PANEL NAME: PB3 FEED FROM : MDP SYSTEM : 230V, 1Ø, 2WIRE + GROUND, 60HZ ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON, WITH GROUND TERMINAL BUSBAR 15 POINTS		DHVSU 3RD FLOOR LIGHTING AND POWER LOAD CALCULATION											
CKT. NO	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS				
		V	VA	A	AT	AF	P	KA					
1	15-1 x 18W T8 FL, 9-1 x 12W LED WALL LAMP, 3-2 x 3.5W EMERGENCY LIGHT	230	399	1.73	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit				
2	18-1 x 18W T8 FL	230	324	1.41	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit				
3	9-1 x 18W T8 FL, 2-1 x 12W LED WALL LAMP, 2-1 x 12W LED WALL LAMP (UP & Down)	230	210	0.91	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit				
4	12-1 x 180W CONVENIENCE OUTLET	230	2160	9.39	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit				
5	9-1 x 180W CONVENIENCE OUTLET	230	1620	7.04	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit				
6	10-1 x 100W ROTARY CEILING FAN	230	1000	4.35	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit				
7	1.0HP MOTOR PUMP	230	1840	8.00	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit				
8	SPARE	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit				
9	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT				
10	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT				
TOTAL CONNECTED LOAD :		13313	57.88										
FEEDER LINE COMPUTATION:		MAIN CIRCUIT BREAKER COMPUTATION:					USE :						
I = (57.883 + (12 x 0.25)) 100% DF		I = (57.883 + (12 x 1.5)) 100% DF					100AT/225AF, 2P, 65KAIC, MCCB						
I = 60.89 Amps		I = 75.89 Amps					2-30mm ² THHN/THWN-2 (L) + 8.0mm ² THHN/THWN-2 (G)						
							IN 40 mmØ PVC CONDUIT OR IN 32mmØ RSC CONDUIT						

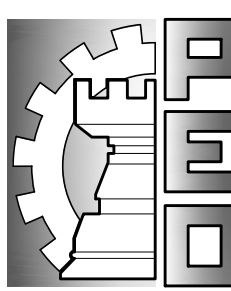
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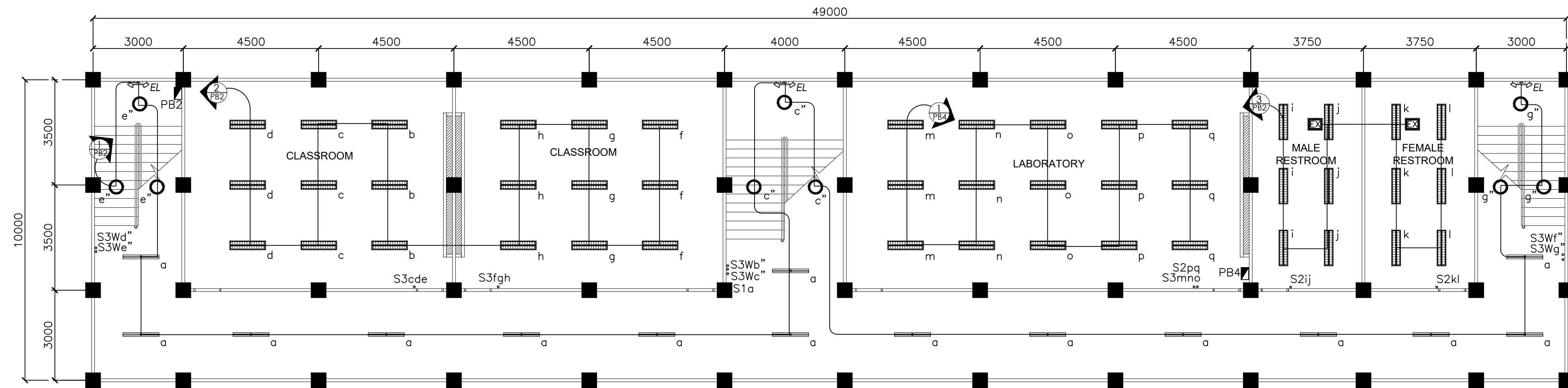
PANEL NAME: PB4 FEED FROM : MDP SYSTEM : 230V, 1Ø, 2WIRE + GROUND, 60HZ ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON, WITH GROUND TERMINAL BUSBAR 15 POINTS		DHVSU 2ND FLOOR LABORATORY LIGHTING AND POWER LOAD CALCULATION									
CKT. NO	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS		
		V	VA	A	AT	AF	P	KA			
1	15-1 x 18W T8 FL	230	270	1.17	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
2	5-1 x 180W CONVENIENCE OUTLET, 1-1 x 250W COMPUTER LOAD	230	1150	5.00	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
3	9-1 x 250W COMPUTER LOAD	230	2250	9.78	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
4	9-1 x 250W COMPUTER LOAD	230	2250	9.78	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
5	9-1 x 250W COMPUTER LOAD	230	2250	9.78	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
6	9-1 x 250W COMPUTER LOAD	230	2250	9.78	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
7	6-1 x 100W ROTARY CEILING FAN	230	600	2.61	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
8	SPARE	230	1500	6.52	30	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
9	SPARE	230	1500	6.52	30	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
10	SPARE	230	1500	6.52	30	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
TOTAL CONNECTED LOAD :		15520	67.48								
FEEDER LINE COMPUTATION:		MAIN CIRCUIT BREAKER COMPUTATION:			USE :						
I = (67.479) 100% DF		I = (67.479) 100% DF			100AT/225AF, 2P, 65KAIC, MCCB						
I = 67.48 Amps		I = 67.48 Amps			2-30mm ² THHN/THWN-2 (L) + 8.0mm ² THHN/THWN-2 (G) IN 40 mmØ PVC CONDUIT OR IN 32mmØ RSC CONDUIT						

PANEL NAME: PB2 FEED FROM : MDP SYSTEM : 230V, 1Ø, 2WIRE + GROUND, 60HZ ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON, WITH GROUND TERMINAL BUSBAR 15 POINTS		DHVSU SECOND FLOOR LIGHTING AND POWER LOAD CALCULATION									
CKT. NO	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS		
		V	VA	A	AT	AF	P	KA			
1	15-1 x 18W T8 FL, 9-1 x 12W LED DOWNLIGHT, 3-2 x 3.5W EMERGENCY LIGHT	230	399	1.73	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
2	18-1 x 18W T8 FL	230	324	1.41	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
3	12-1 x 18W T8 FL, 2-1 x 30W EXHAUST FAN	230	276	1.20	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
4	12-1 x 180W CONVENIENCE OUTLET	230	2160	9.39	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
5	3-1 x 180W CONVENIENCE OUTLET	230	540	2.35	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
6	8-1 x 100W ROTARY CEILING FAN	230	800	3.48	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
7	SPARE	230	2760	12.00	40	50	2	10	25mmØ PVC CONDUIT STUB-OUT		
8	SPARE	230	2760	12.00	40	50	2	10	25mmØ PVC CONDUIT STUB-OUT		
9	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
10	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
TOTAL CONNECTED LOAD :		13019	56.60								
FEEDER LINE COMPUTATION:		MAIN CIRCUIT BREAKER COMPUTATION:			USE :						
I = (56.605 + (12 x 0.25)) 100% DF		I = (56.605 + (12 x 1.5)) 100% DF			100AT/225AF, 2P, 65KAIC, MCCB						
I = 59.61 Amps		I = 74.61 Amps			2-30mm ² THHN/THWN-2 (L) + 8.0mm ² THHN/THWN-2 (G) IN 40 mmØ PVC CONDUIT OR IN 32mmØ RSC CONDUIT						

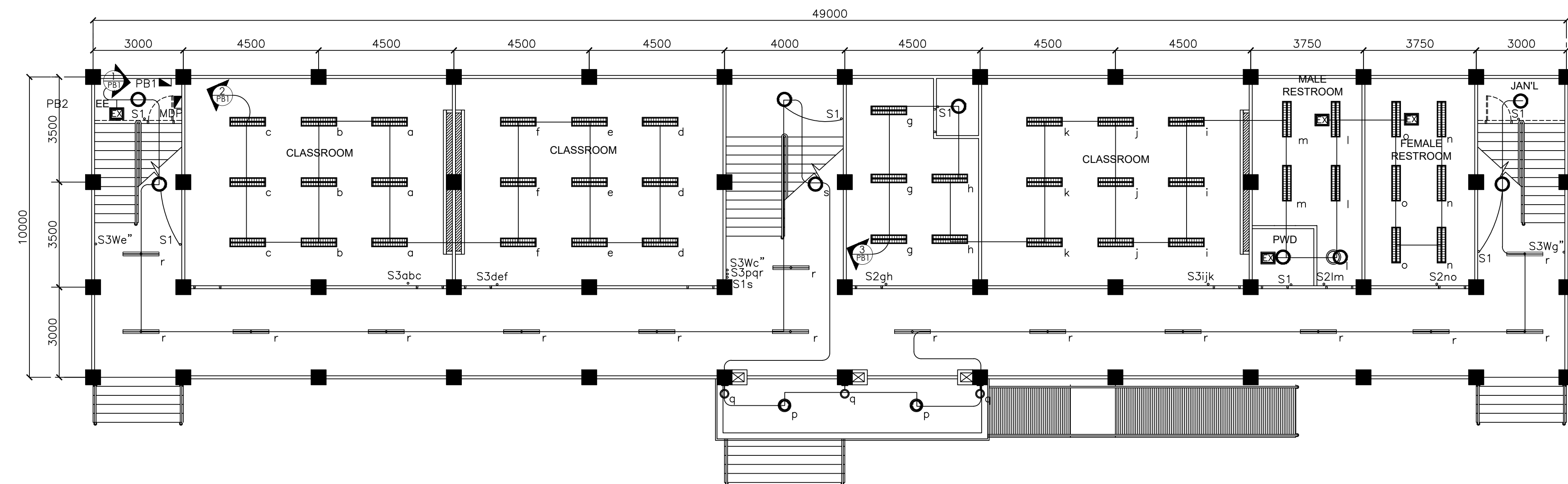
PANEL NAME: PB1 FEED FROM : MDP SYSTEM : 230V, 1Ø, 2WIRE + GROUND, 60HZ ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON, WITH GROUND TERMINAL BUSBAR 15 POINTS		DHVSU GROUND FLOOR LIGHTING AND POWER LOAD CALCULATION									
CKT. NO	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS		
		V	VA	A	AT	AF	P	KA			
1	15-1 x 18W T8 FL, 6-1 x 12W LED DOWNLIGHT, 2-1 x 15W LED DOWNLIGHT, 3-1 x 12W LED WALL LAMP, 1-1 x 30W EXHAUST FAN	230	438	1.90	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
2	18-1 x 18W T8 FL	230	324	1.41	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
3	24-1 x 18W T8 FL, 3-1 x 12W LED DOWNLIGHT, 3-1 x 30W EXHAUST FAN	230	558	2.43	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
4	12-1 x 180W CONVENIENCE OUTLET	230	2160	9.39	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
5	6-1 x 180W CONVENIENCE OUTLET	230	1080	4.70	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
6	10-1 x 180W CONVENIENCE OUTLET	230	1800	7.83	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
7	8-1 x 100W ROTARY CEILING FAN	230	800	3.48	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
8	4-1 x 100W ROTARY CEILING FAN	230	400	1.74	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
9	2.0HP MOTOR PUMP	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
10	2.0HP SPLIT TYPE ACU UNIT	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
11	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
12	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
TOTAL CONNECTED LOAD :		16080	69.91								
FEEDER LINE COMPUTATION:		MAIN CIRCUIT BREAKER COMPUTATION:			USE :						
I = (69.914 + (12 x 0.25)) 100% DF		I = (69.914 + (12 x 1.5)) 100% DF			100AT/225AF, 2P, 65KAIC, MCCB						
I = 72.92 Amps		I = 87.92 Amps			2-30mm ² THHN/THWN-2 (L) + 8.0mm ² THHN/THWN-2 (G) IN 40 mmØ PVC CONDUIT OR IN 32mmØ RSC CONDUIT						

PANEL NAME: PB5 FEED FROM : MDP SYSTEM : 230V, 1Ø, 2WIRE + GROUND, 60HZ ENCLOSURE : NEMA1, SURFACE MOUNTED, BOLT-ON, WITH GROUND TERMINAL BUSBAR 15 POINTS		DHVSU 3RD FLOOR LABORATORY LIGHTING AND POWER LOAD CALCULATION									
CKT. NO	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS		
		V	VA	A	AT	AF	P	KA			
1	15-1 x 18W T8 FL	230	270	1.17	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
2	5-1 x 180W CONVENIENCE OUTLET, 1-1 x 250W COMPUTER LOAD	230	1150	5.00	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
3	9-1 x 250W COMPUTER LOAD	230	2250	9.78	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
4	9-1 x 250W COMPUTER LOAD	230	2250	9.78	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
5	9-1 x 250W COMPUTER LOAD	230	2250	9.78	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
6	9-1 x 250W COMPUTER LOAD	230	2250	9.78	30	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
7	6-1 x 100W ROTARY CEILING FAN	230	600	2.61	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
8	SPARE	230	1500	6.52	30	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
9	SPARE	230	1500	6.52	30	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
10	SPARE	230	1500	6.52	30	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
TOTAL CONNECTED LOAD :		15520	67.48								
FEEDER LINE COMPUTATION:		MAIN CIRCUIT BREAKER COMPUTATION:			USE :						
I = (67.479) 100% DF		I = (67.479) 100% DF			100AT/225AF, 2P, 65KAIC, MCCB						
I = 67.48 Amps		I = 67.48 Amps			2-30mm ² THHN/THWN-2 (L) + 8.0mm ² THHN/THWN-2 (G) IN 40 mmØ PVC CONDUIT OR IN 32mmØ RSC CONDUIT						

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	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF THREE (3) STOREY BUILDING AT DHVSU FLORIDABLANCA LOCATION: STA. MONICA, FLORIDABLANCA, PAMPANGA	MICHAEL T. MONTEMAYOR ENGINEER - III	PETER CRIS G. LAXA ENGINEER - II RANDY Y. DAVID ENGINEER - III	RUSSEL L. HERNANDEZ CONSTRUCTION DIVISION HEAD	WILFREDO A. MANALILI ASST. PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN DETAILS	E - 4 31 / 35

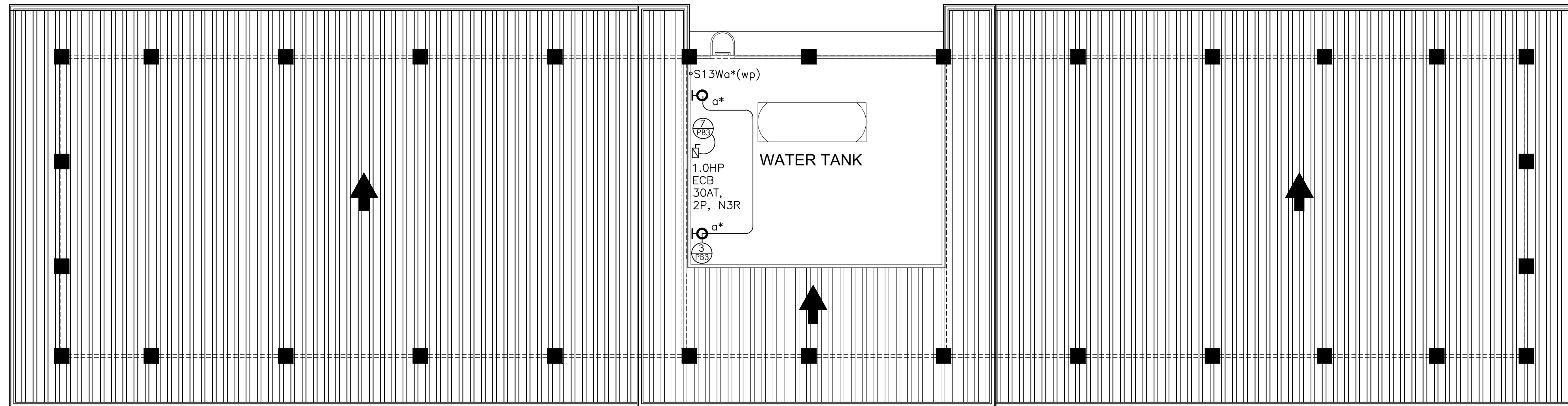


E.2 2F LIGHTING LAYOUT
SCALE 1:100 MTS.

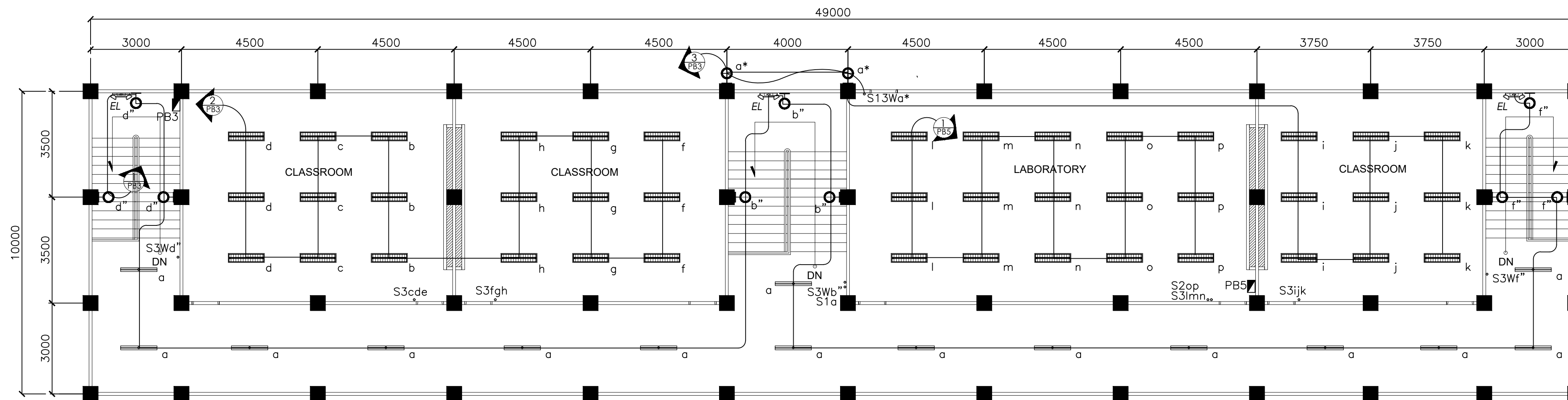


E.1 GF LIGHTING LAYOUT
SCALE 1:100 MTS.

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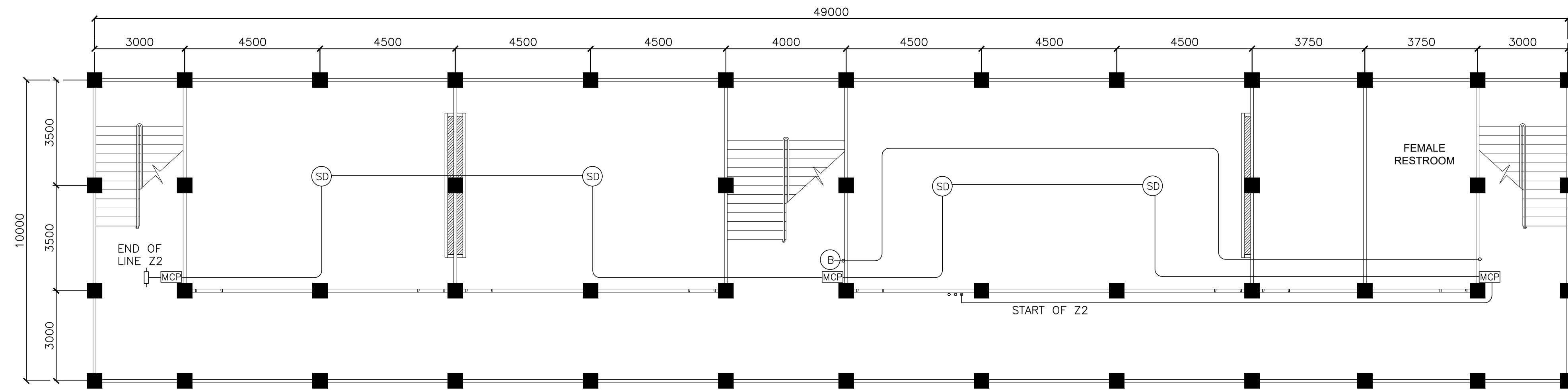


E.4 DECK LIGHTING & POWER LAYOUT
SCALE 1:100 MTS.

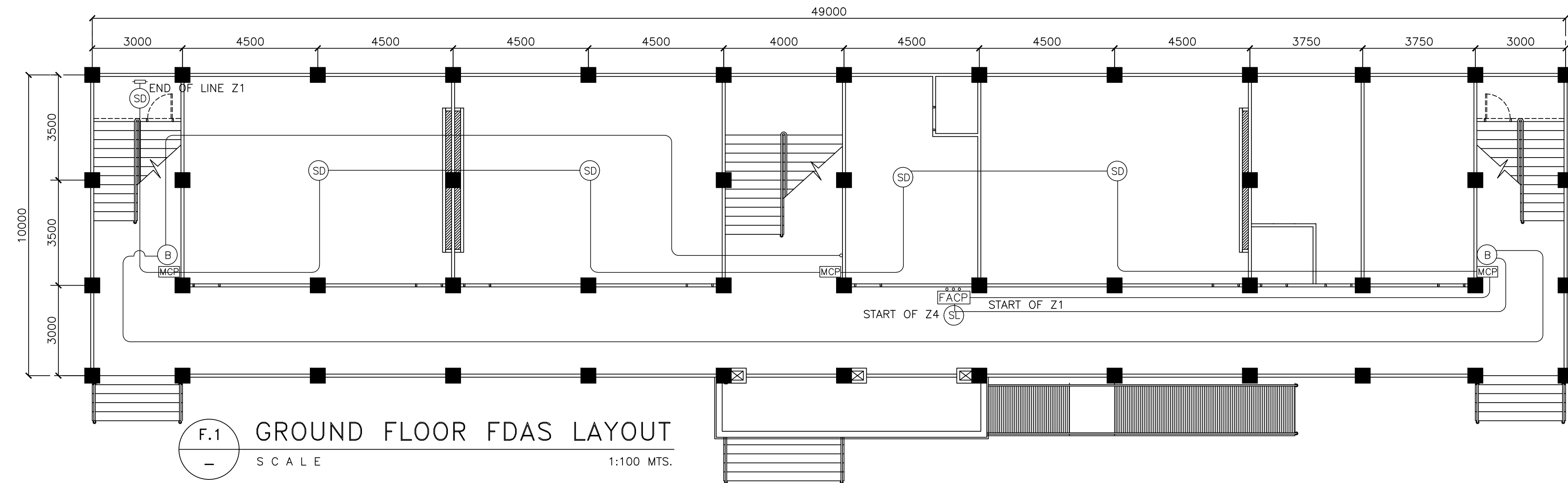


E.3 3F LIGHTING LAYOUT
SCALE 1:100 MTS.

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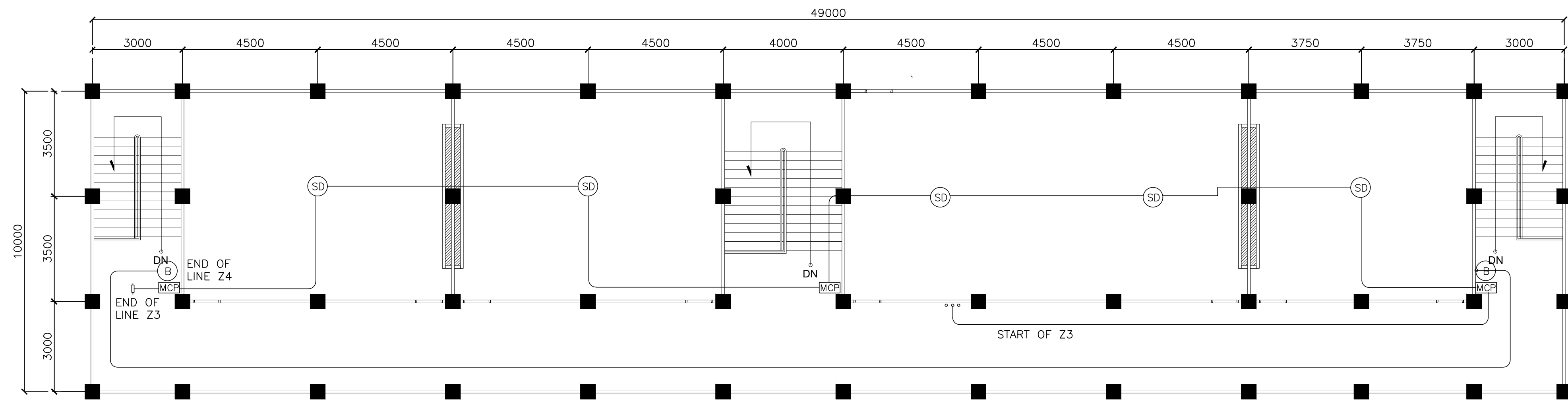


F.2 SECOND FLOOR FDAS LAYOUT
SCALE 1:100 MTS.



F.1 GROUND FLOOR FDAS LAYOUT
SCALE 1:100 MTS.

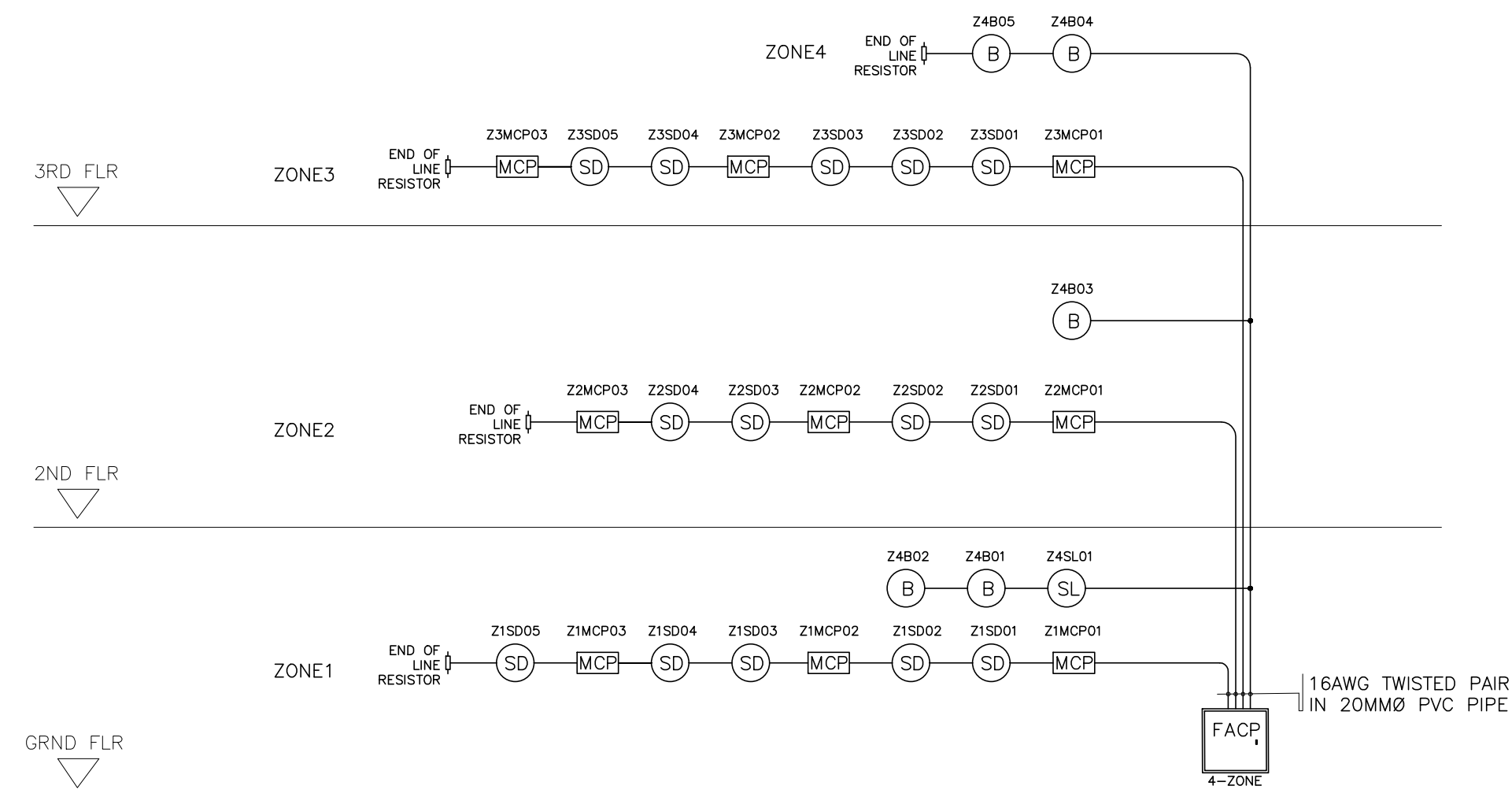
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LEGEND:

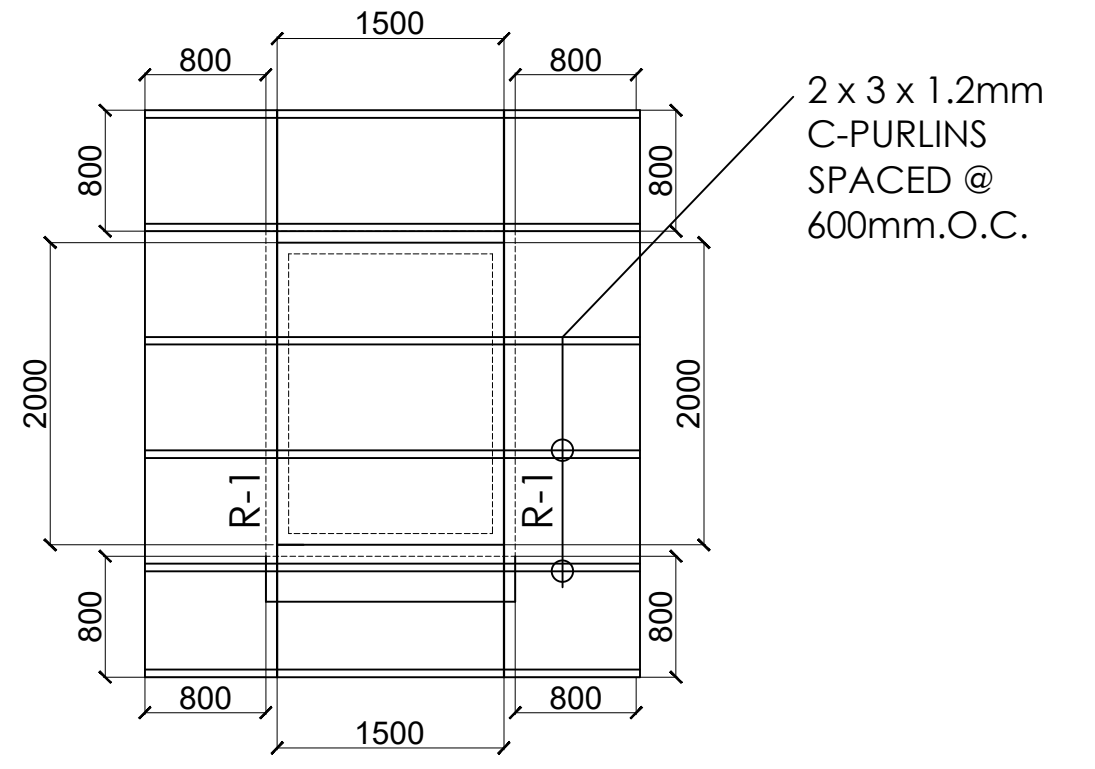
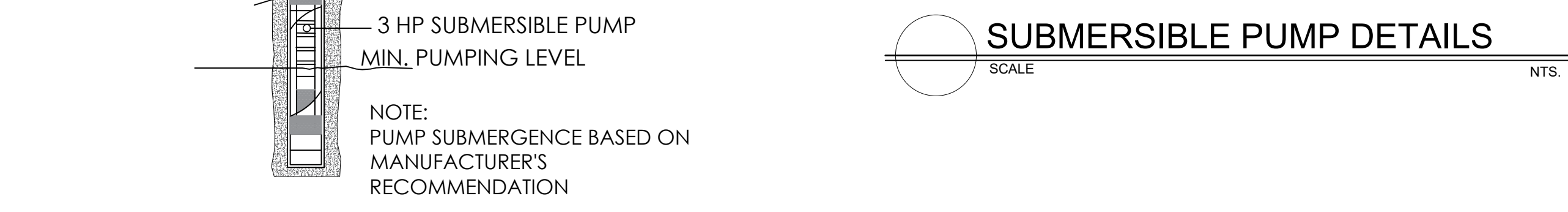
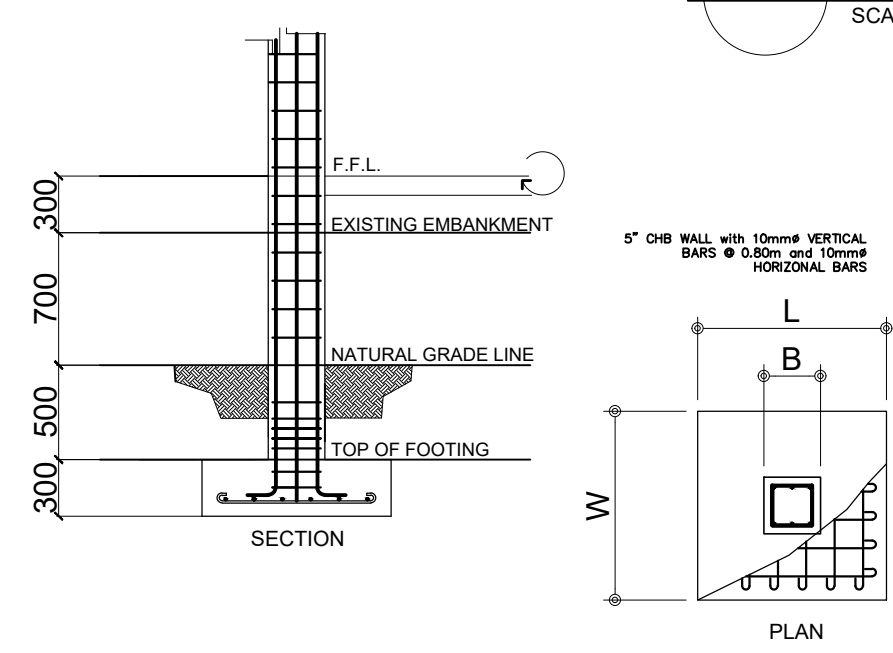
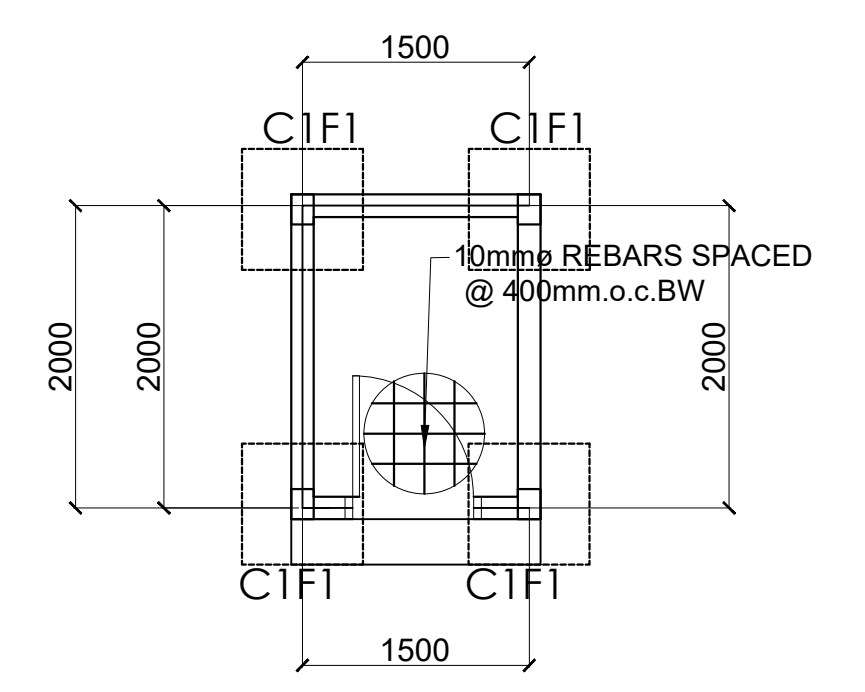
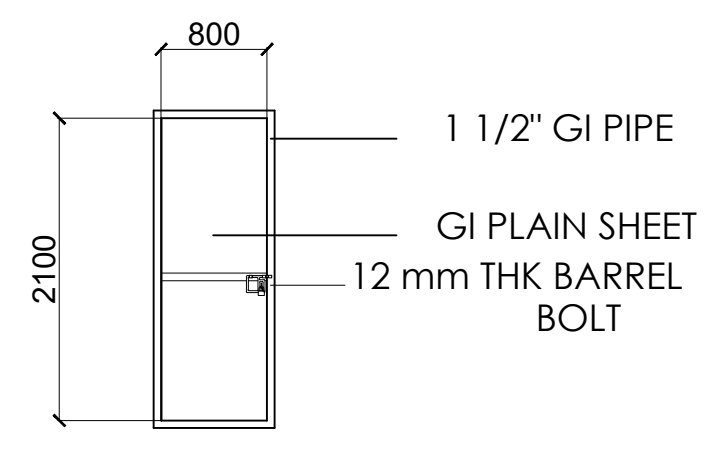
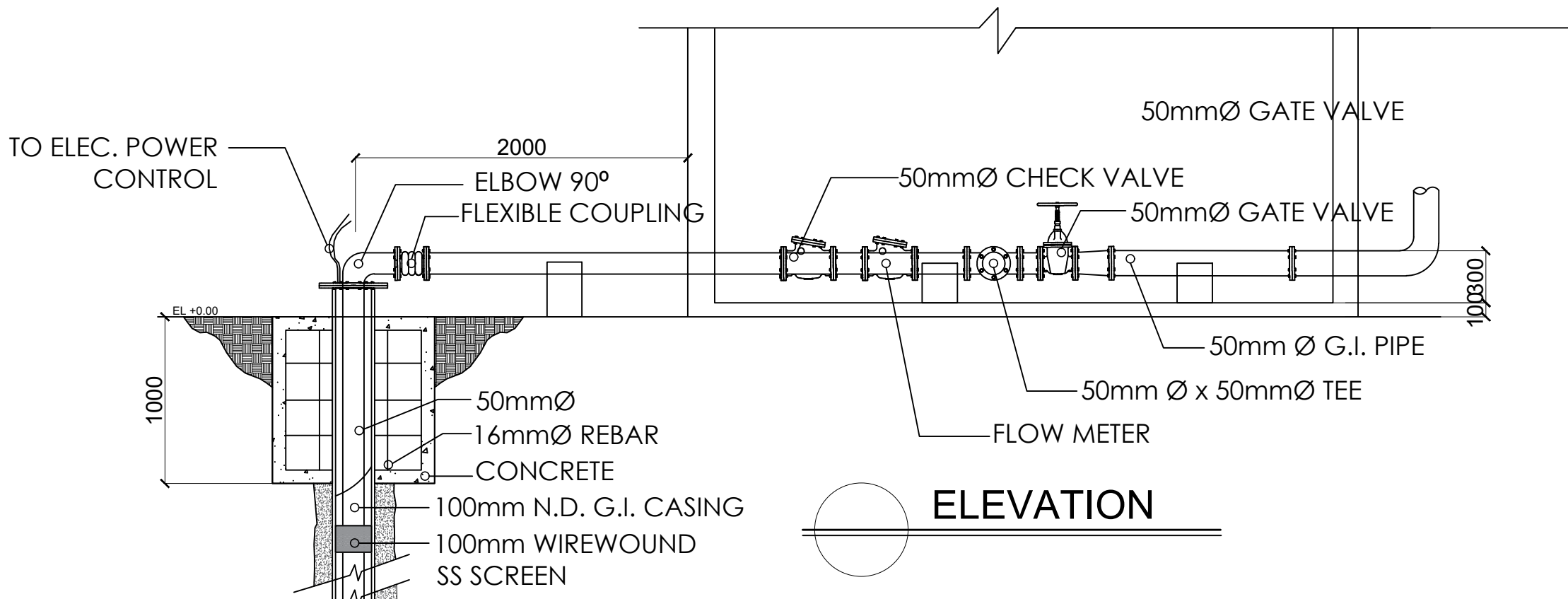
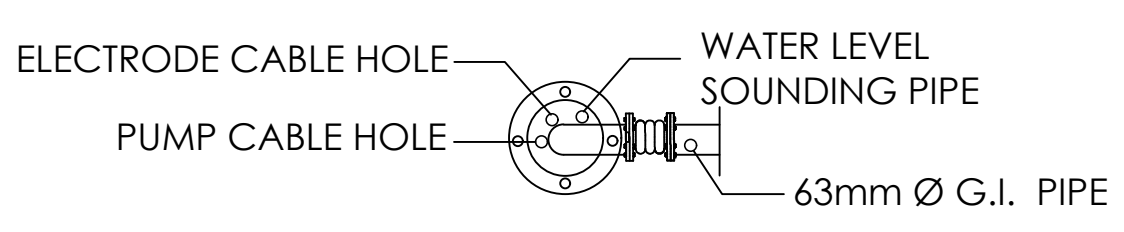
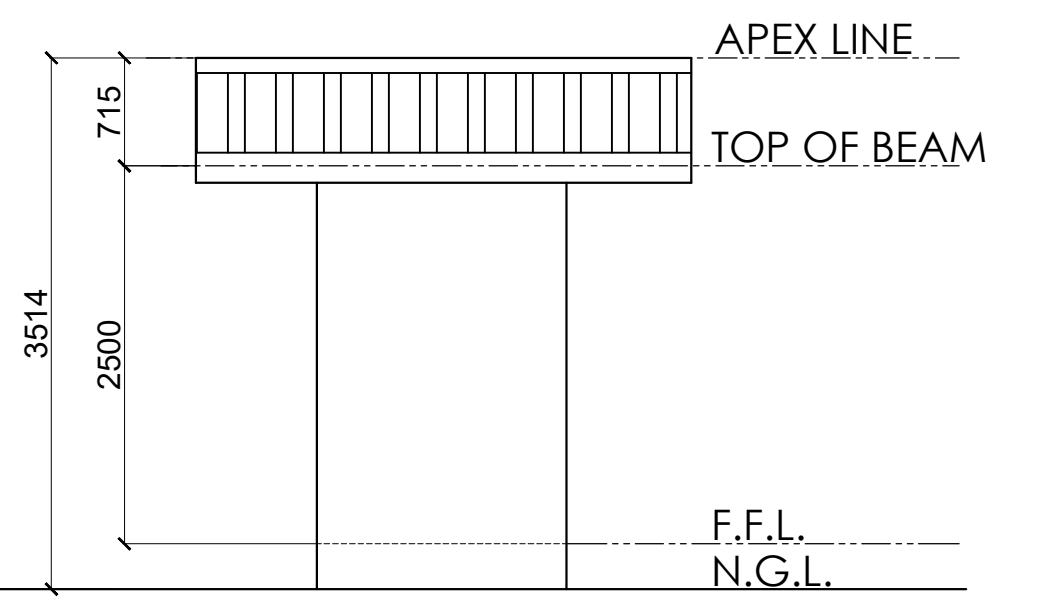
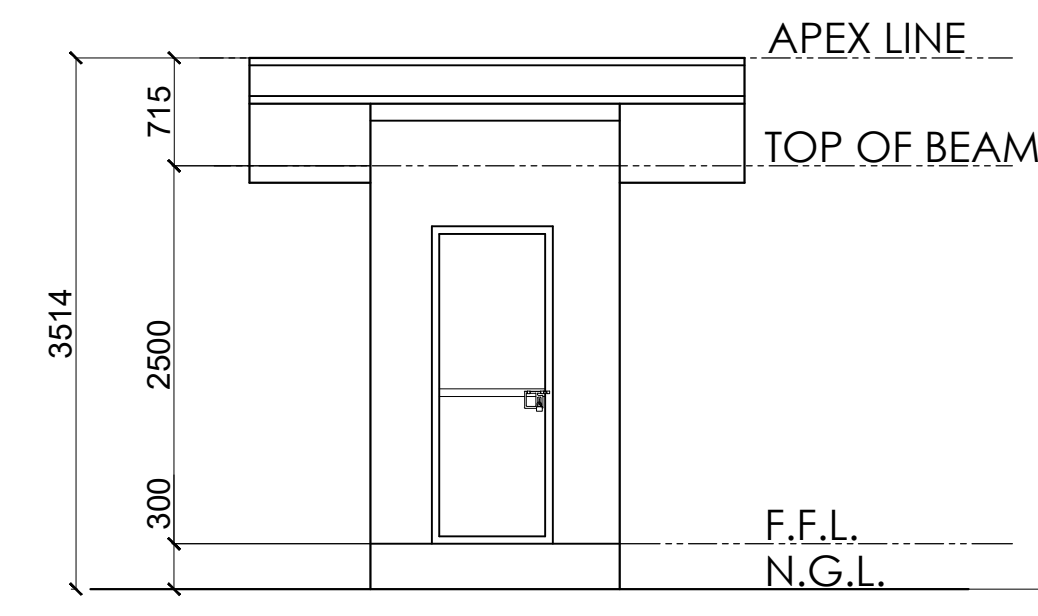
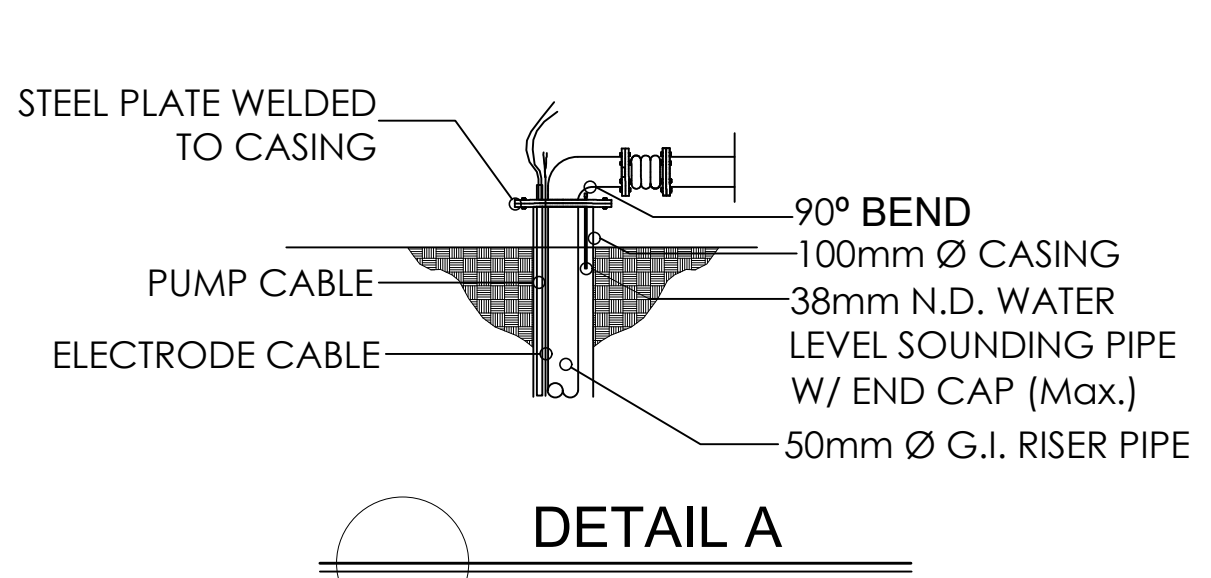
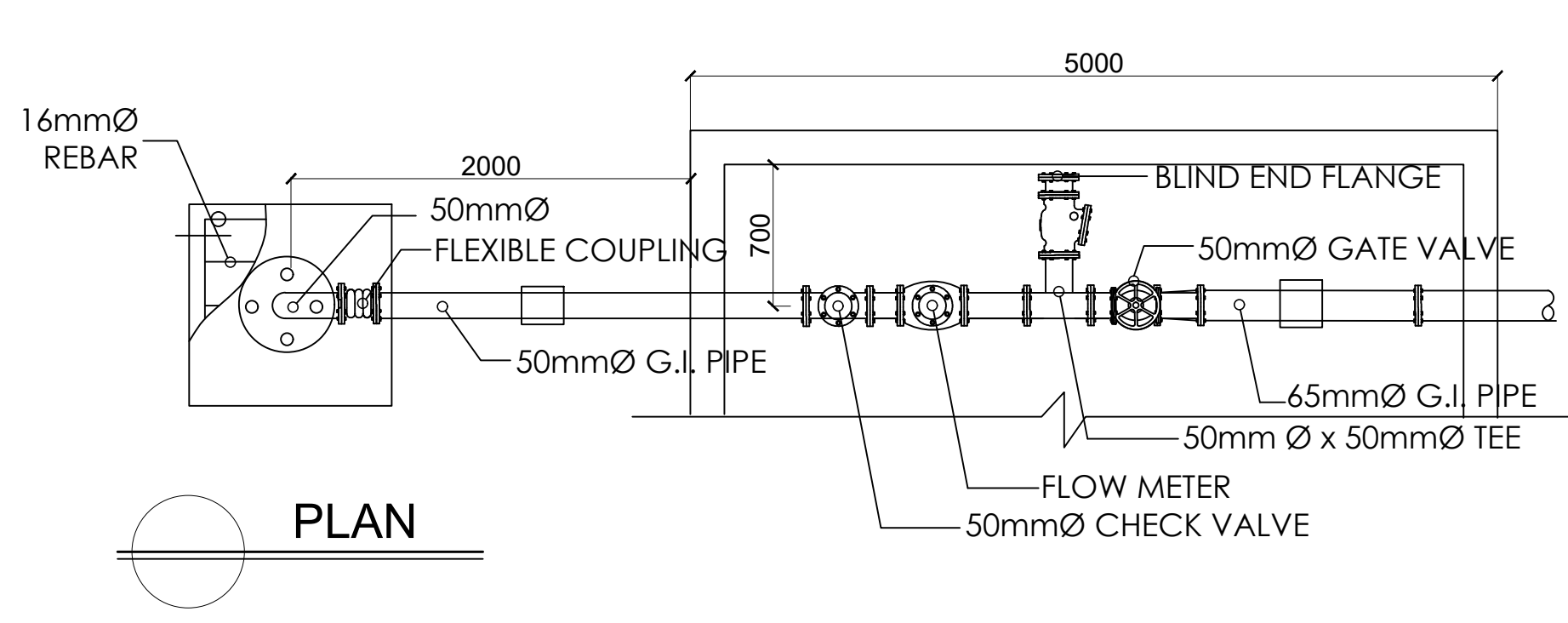
(SD)	SMOKE DETECTOR
(B)	BELL
(MCP)	MANUAL CALL POINT
(FACP)	FIRE ALARM CONTROL PANEL
(SL)	STROBE LIGHT
↓	END OF LINE RESISTOR

F.3 THIRD FLOOR FDAS LAYOUT
SCALE 1:100 MTS.



F.4 FDAS RISER DIAGRAM
SCALE NTS

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SCHEDULE OF BEAMS

MARK	DIMENSIONS			NUMBER OF REBARS				STIFFENER BARS	STIRRUPS USE: 10mmØ BARS
	SIZE (mm)	BAR	Ø mm	@ SUPPORTS	@ MIDSPAN				
RB	150	200	12	2	2	2	2	N/A	2 @ 50mm; 3 @ 100mm
									REST @ 200mm.o.c.

SCHEDULE OF FOOTINGS

MARK	DIMENSIONS (mm)			REINFORCEMENTS (USE: GRADE 40)
	WIDTH	LENGTH	THICK	
F-1	800	800	300	4 - 12 mmØ BARS BOTHWAYS

SCHEDULE OF COLUMNS

MARK	DIMENSIONS (mm)			REINFORCEMENTS LATERAL TIES USE: 10mmØ; BARS; GRADE 33
	BASE	DEPTH	MAIN BARS	
C-1	150	200	4 - 12 mm Ø	2@50mm; 3@100mm; 3@150 REST @200mm o.c.

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