



1
A-1 PERSPECTIVE VIEW
SCALE: NTS

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REPUBLIC OF THE PHILIPPINES
OFFICE OF THE CITY/MUNICIPAL
ENGINEER/BUILDING OFFICIAL

DISTRICT/CITY/MUNICIPALITY

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STRUCTURAL

SANITARY

ELECTRICAL







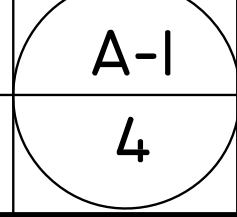
- E-1 ELECTRICAL LAYOUT PLAN, RISER DIAGRAM, LOAD SCHEDULE, GEN. NOTES

ELECTRICAL

SANITARY

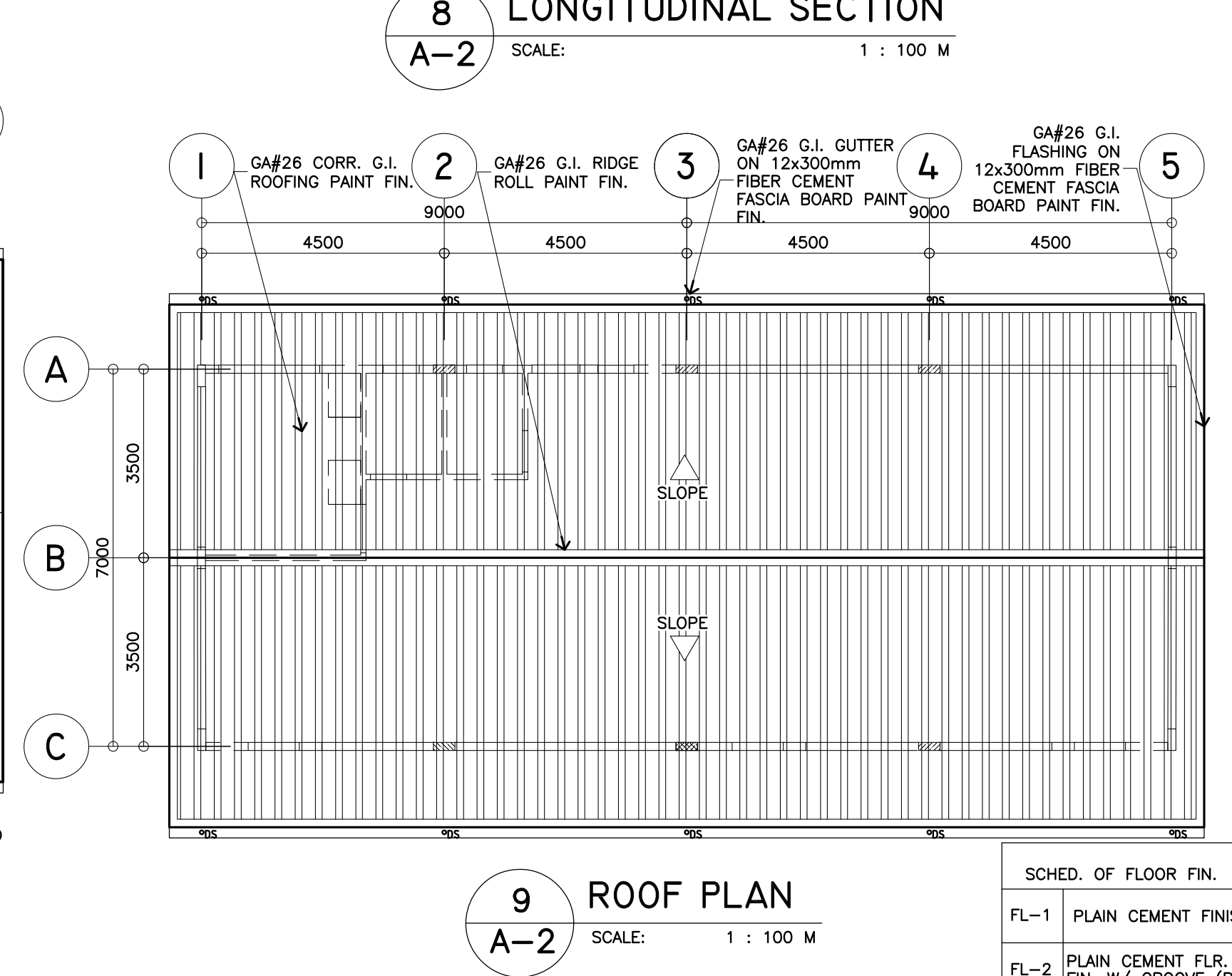
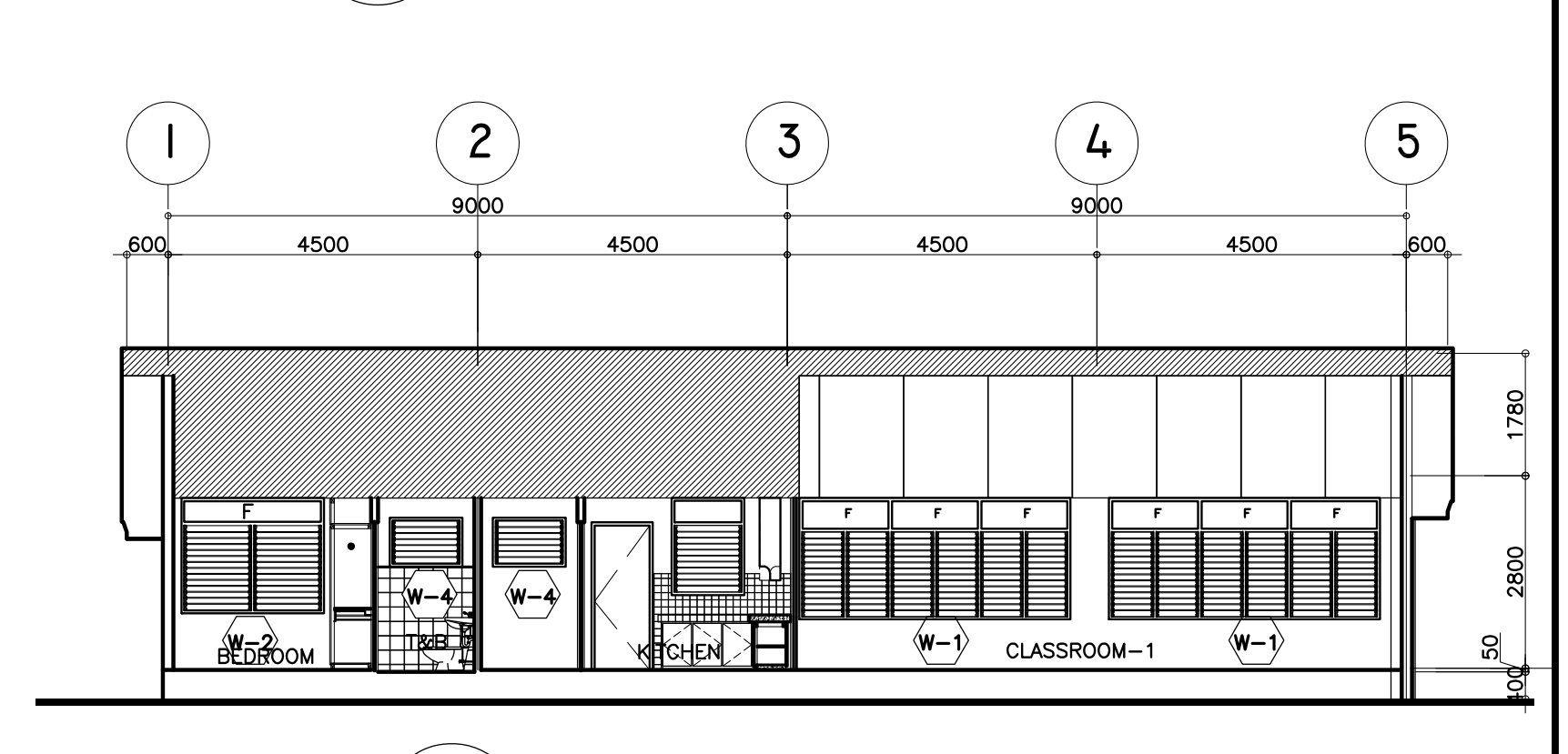
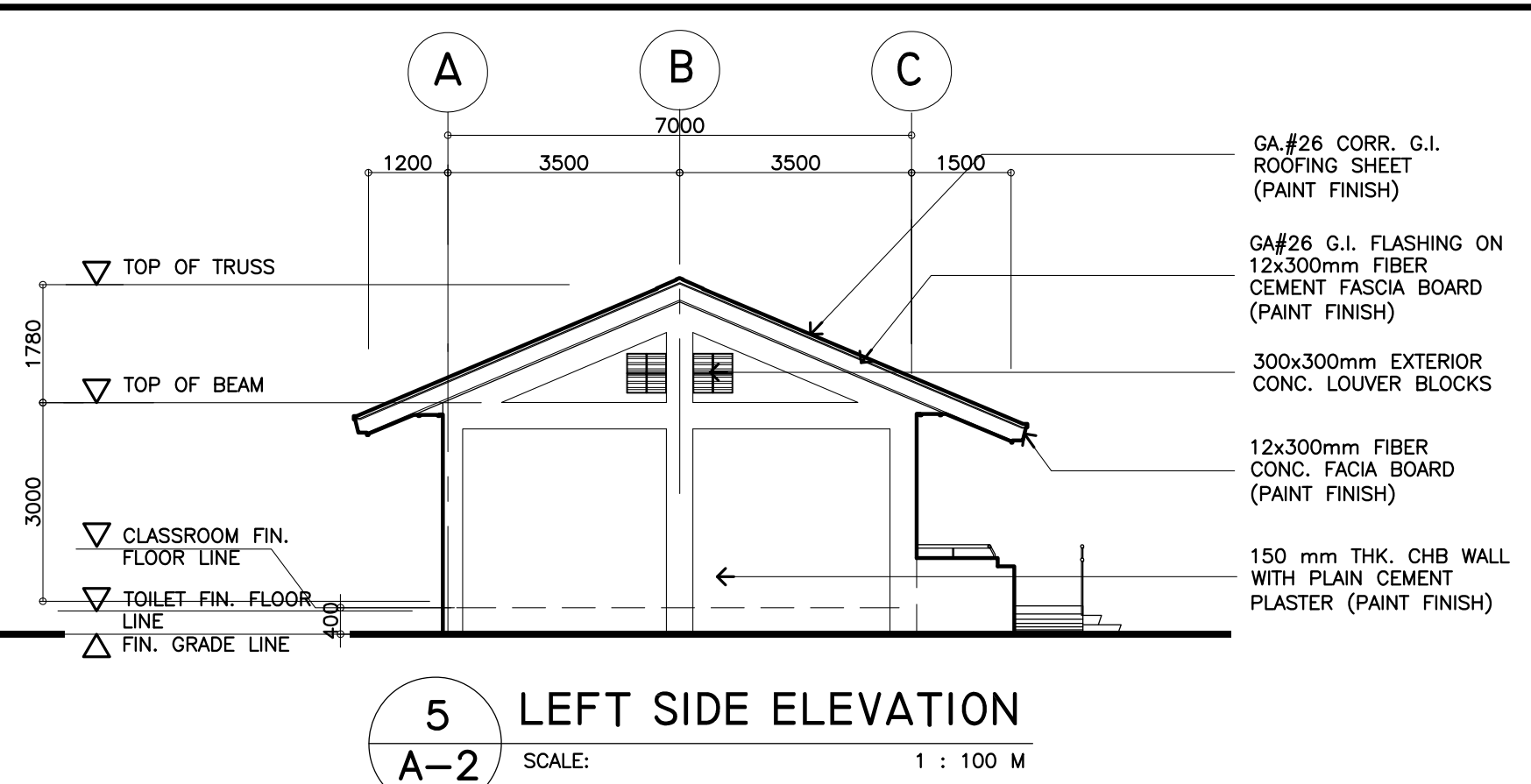
- P-1 PLUMBING LAYOUT, ISOMETRIC VIEW, SEPTIC, DRAIN PIT, CATCH BASIN DETAILS, NOTES, LEGEND & DESIGN CRITERIA.

MECHANICAL

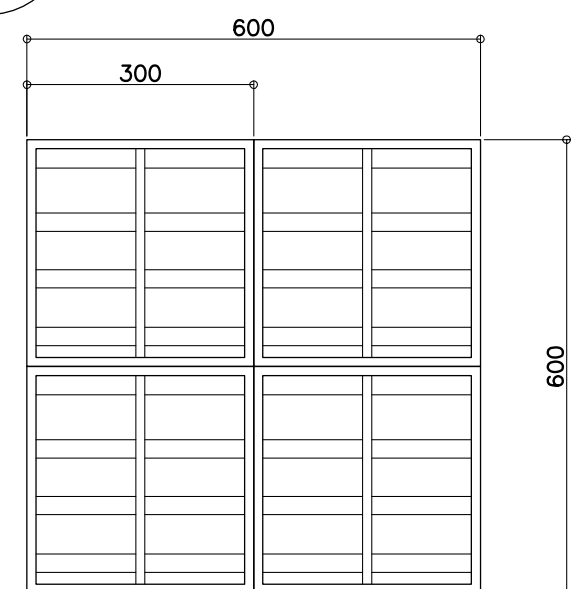
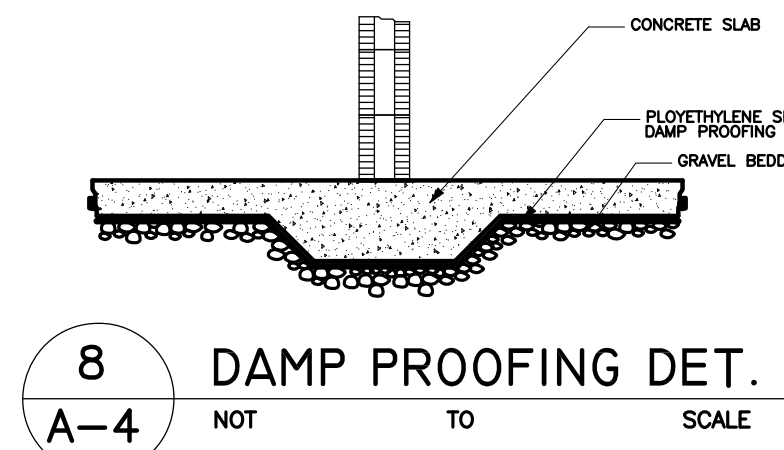
 REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION MERALCO AVENUE, PASIG CITY	PREPARED BY :	CHECKED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	CONCURRED BY :	PROJECT TITLE :	PROJECT NO:	OWNER :	SHEET NO:	
	 MAXIMO M. CALBANG PDO III PFSED-DepED	 NATHANIEL Q. MENDOZA ARCHITECT III PFSED-DepED	 LUIS G. PURISIMA, Jr. HEAD, PLANNING & DESIGN UNIT PFSED-DepED	 OLIVER R. HERNANDEZ CHIEF, PFSED-OPS DEPARTMENT OF EDUCATION	 RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION	MULTI-PURPOSE WORKSHOP BUILDING	DESIGNED BY: NQM ENCODED BY: MMC CHECKED BY: LGP DATE :	DEPARTMENT OF EDUCATION DepED		
							LOCATION : .	SHEET CONTENTS : PERSPECTIVE TABLE OF CONTENTS		

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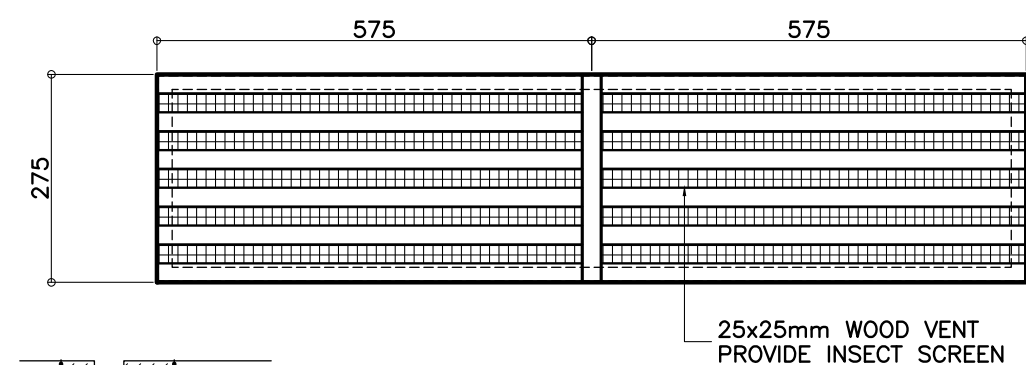
REP. ACT 545



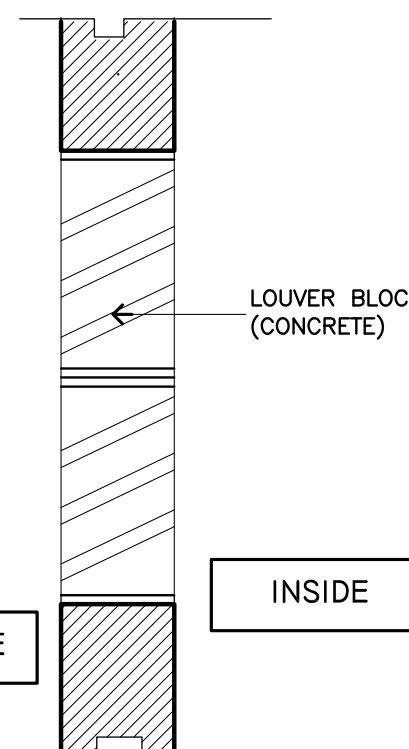
SCHD. OF FLOOR FIN.	
FL-1	PLAIN CEMENT FINISH
FL-2	PLAIN CEMENT FLR. FIN. W/ GROOVE (ROUGH)



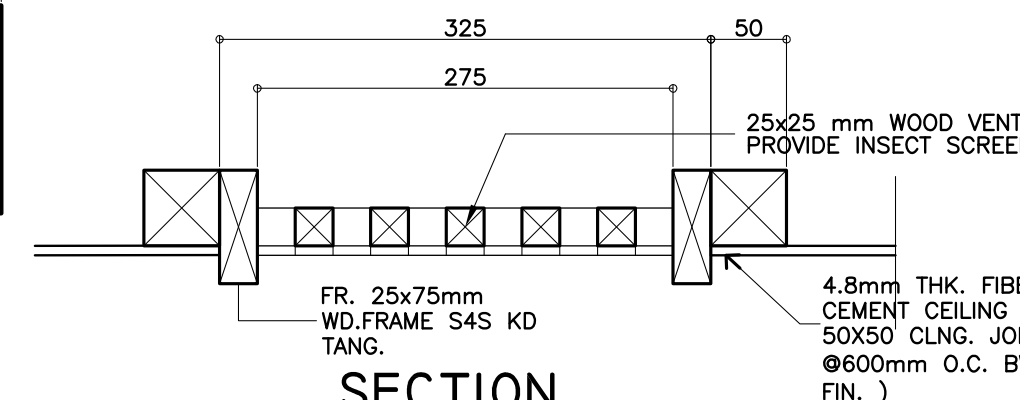
A-3 LOUVER BLOCKS DETAIL
5 SCALE : 1:10M



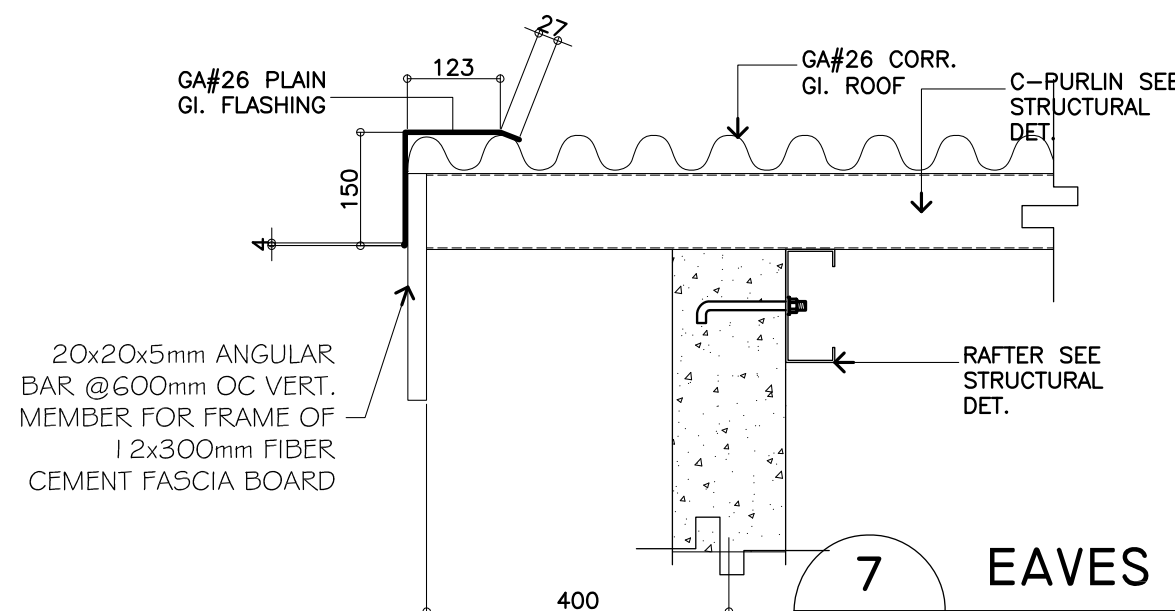
3 TYP. CLG. VENT PLAN DETAIL
A-3 SCALE : 1 : 10 M



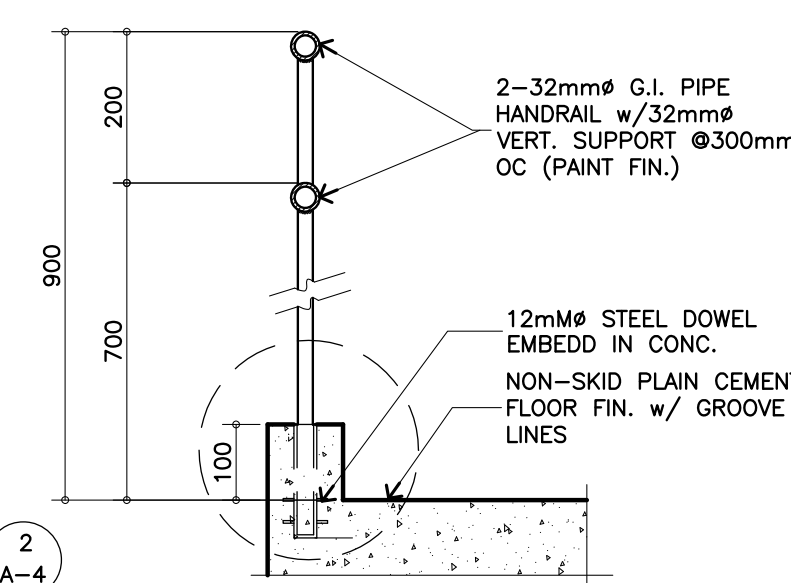
SECTION



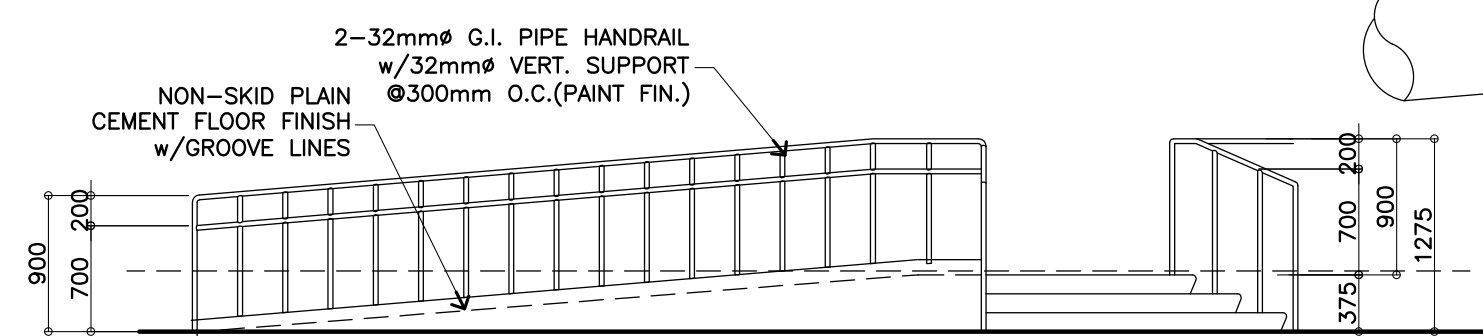
6 EAVES, VENT. & INT CEILING DETAIL
A-3 SCALE : AS SHOWN



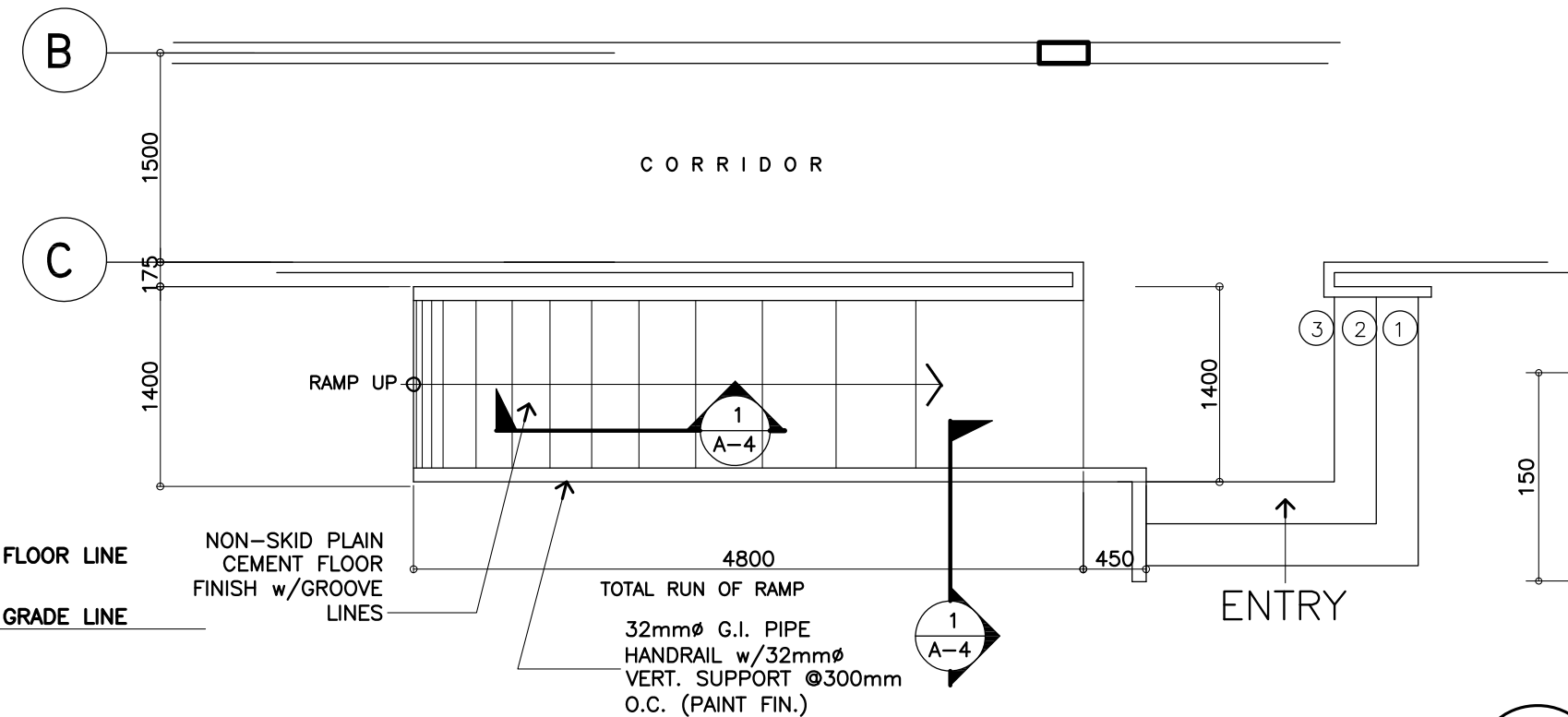
7 EAVES DETAIL
A-3 SCALE : 1:20M



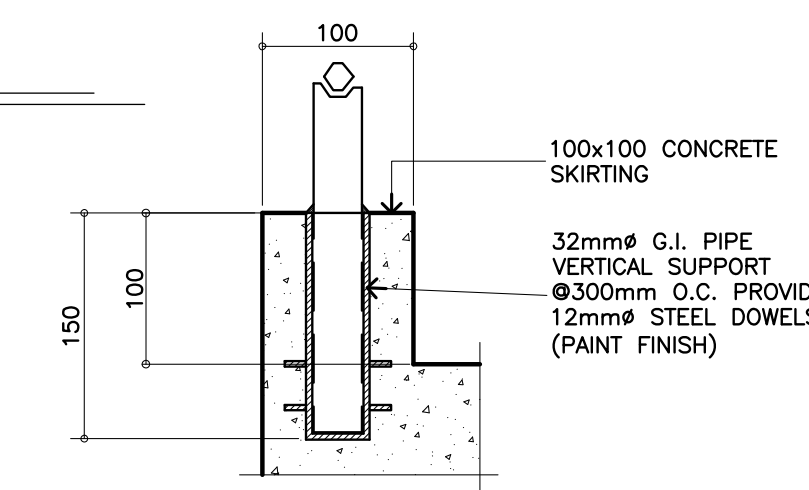
2A DETAIL SECTION
A-1 SCALE



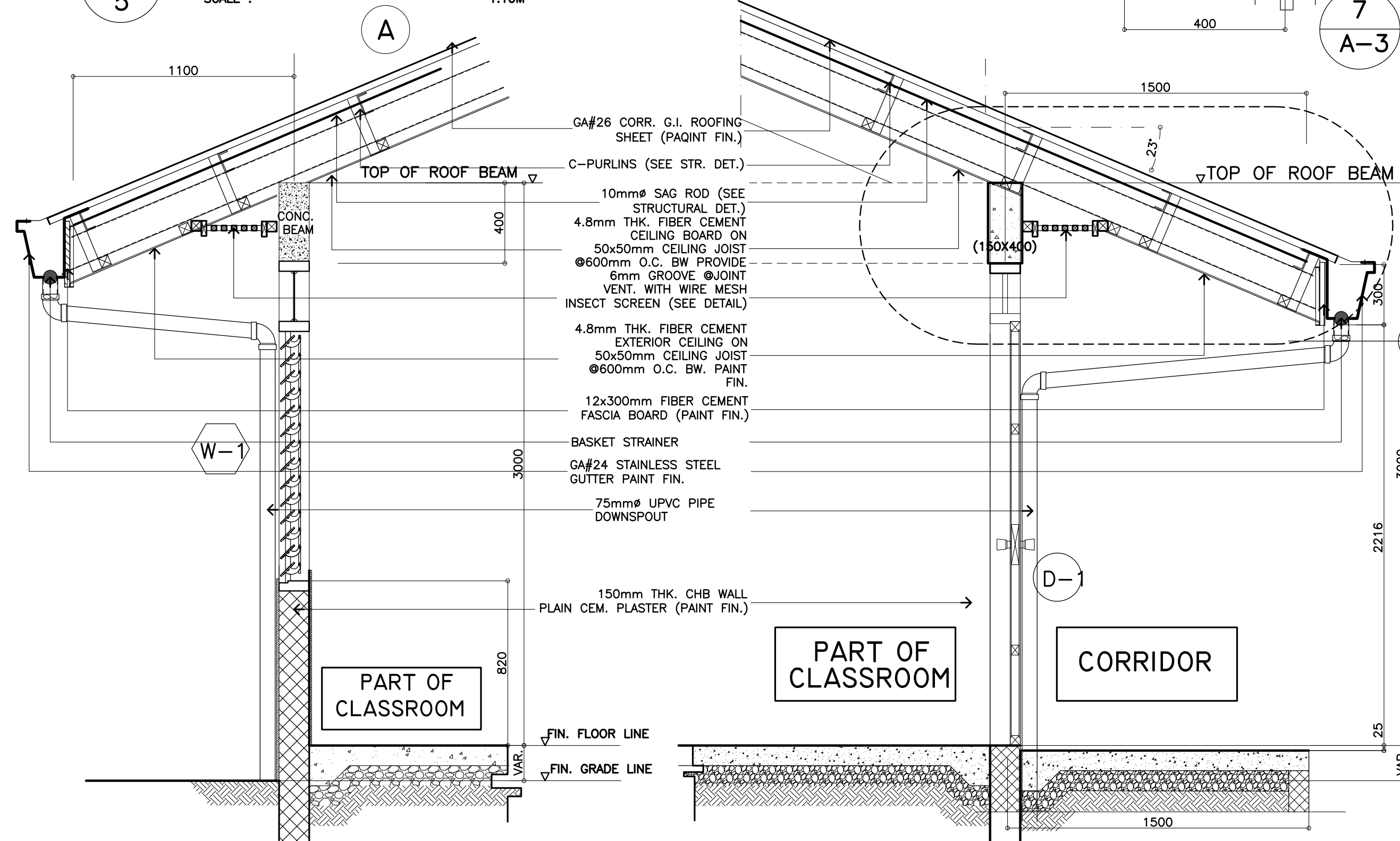
2A DET. ELEVATION OF RAMP
A-1 SCALE 1:50 M



2 DET. PLAN OF RAMP
A-4 SCALE 1:50 M



2A SPOT DETAIL
A-1 SCALE 1:5 M

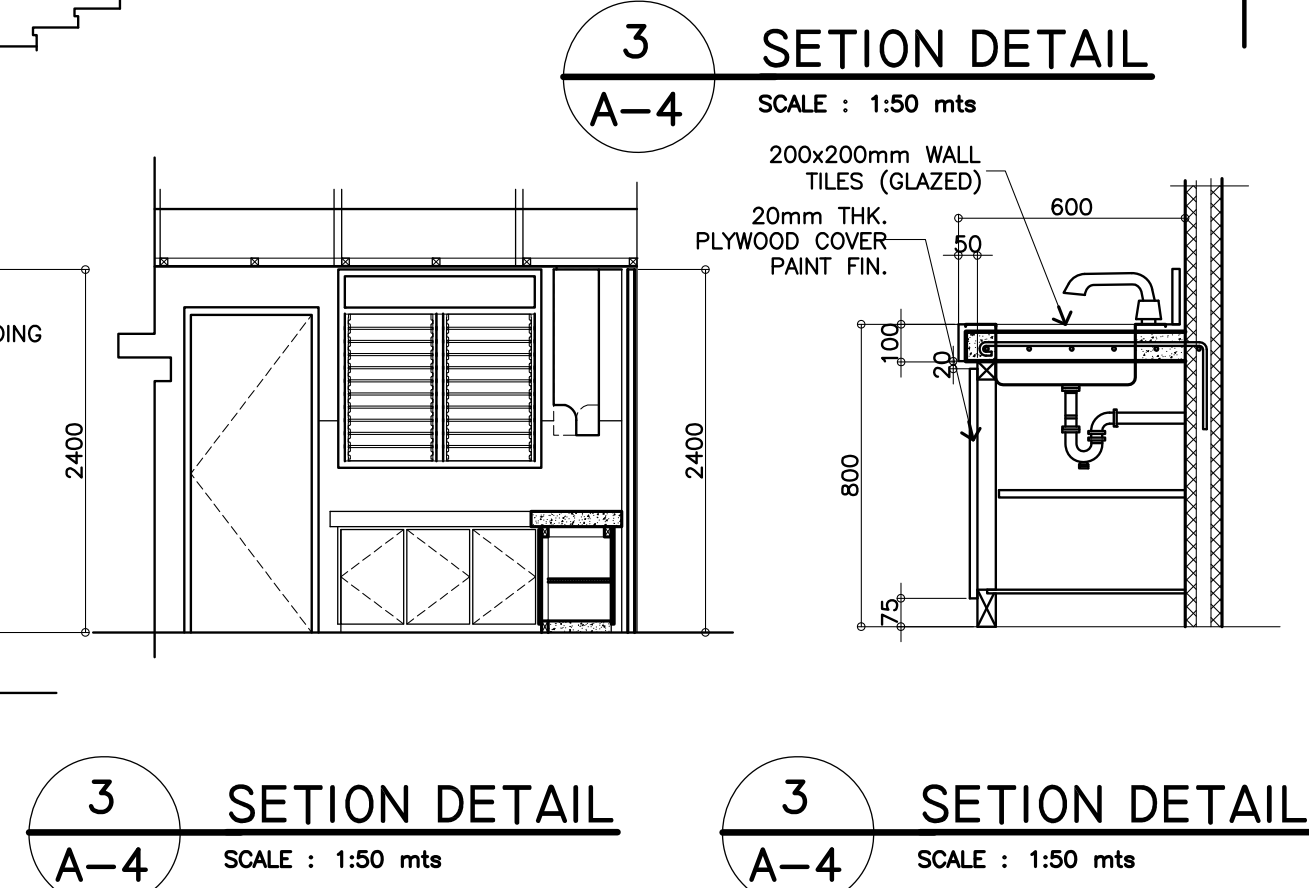
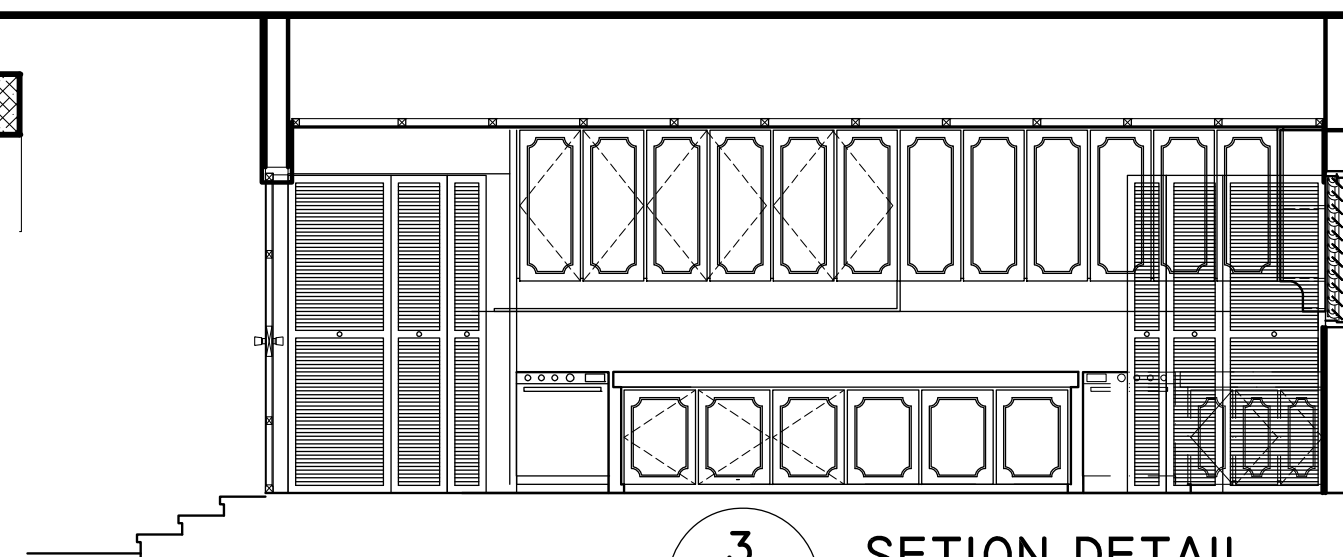
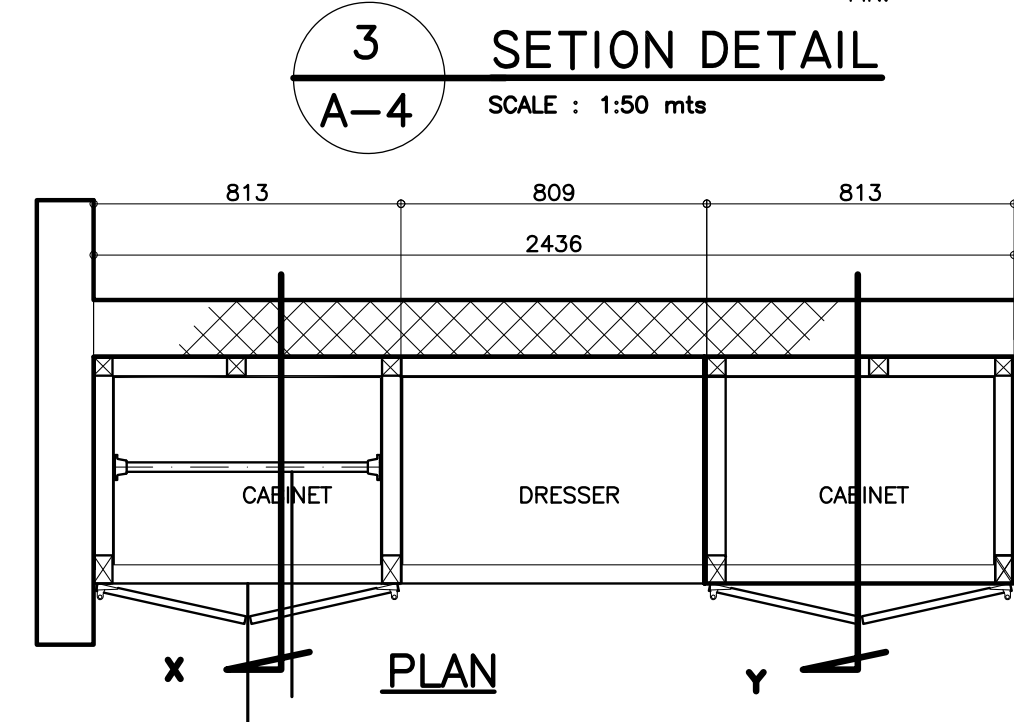
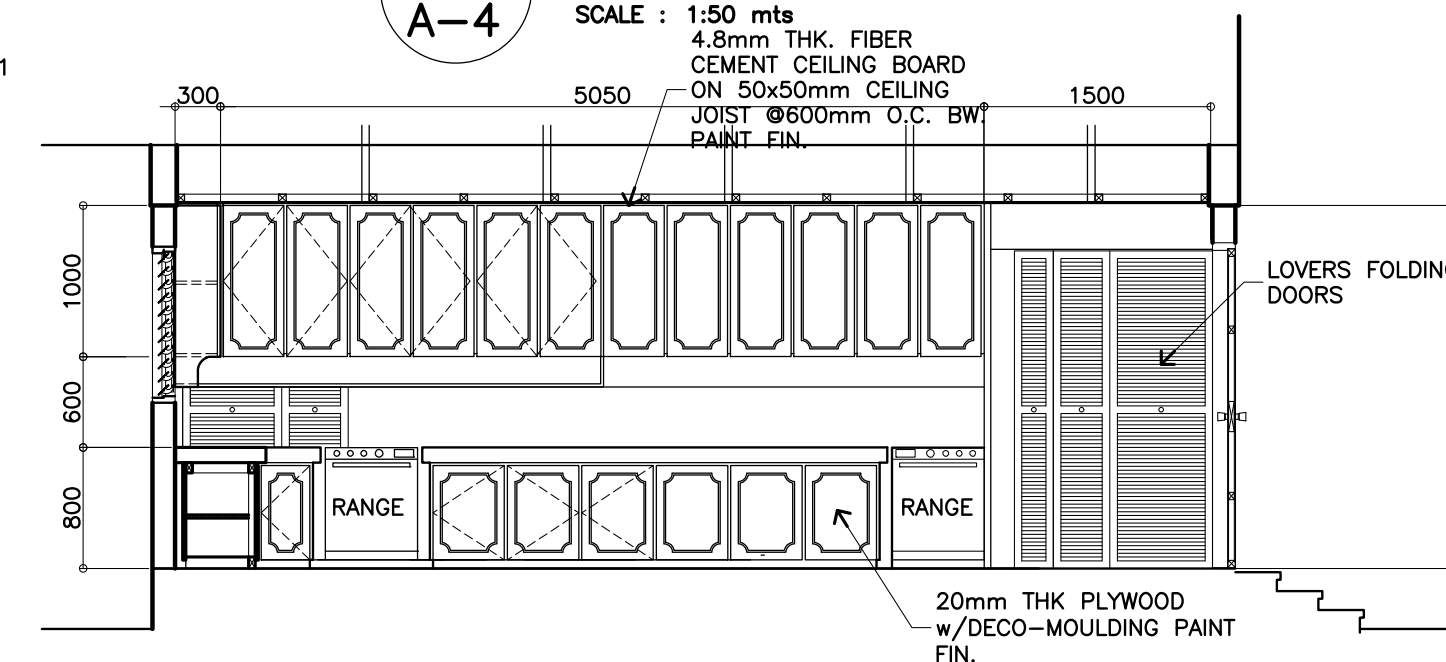
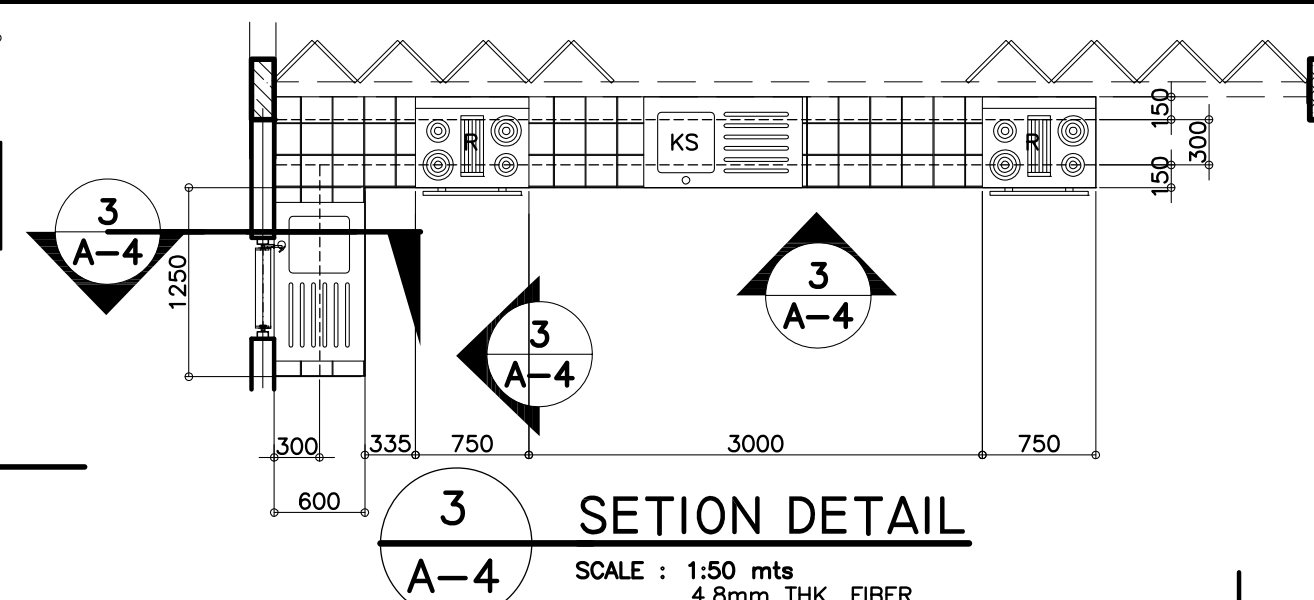
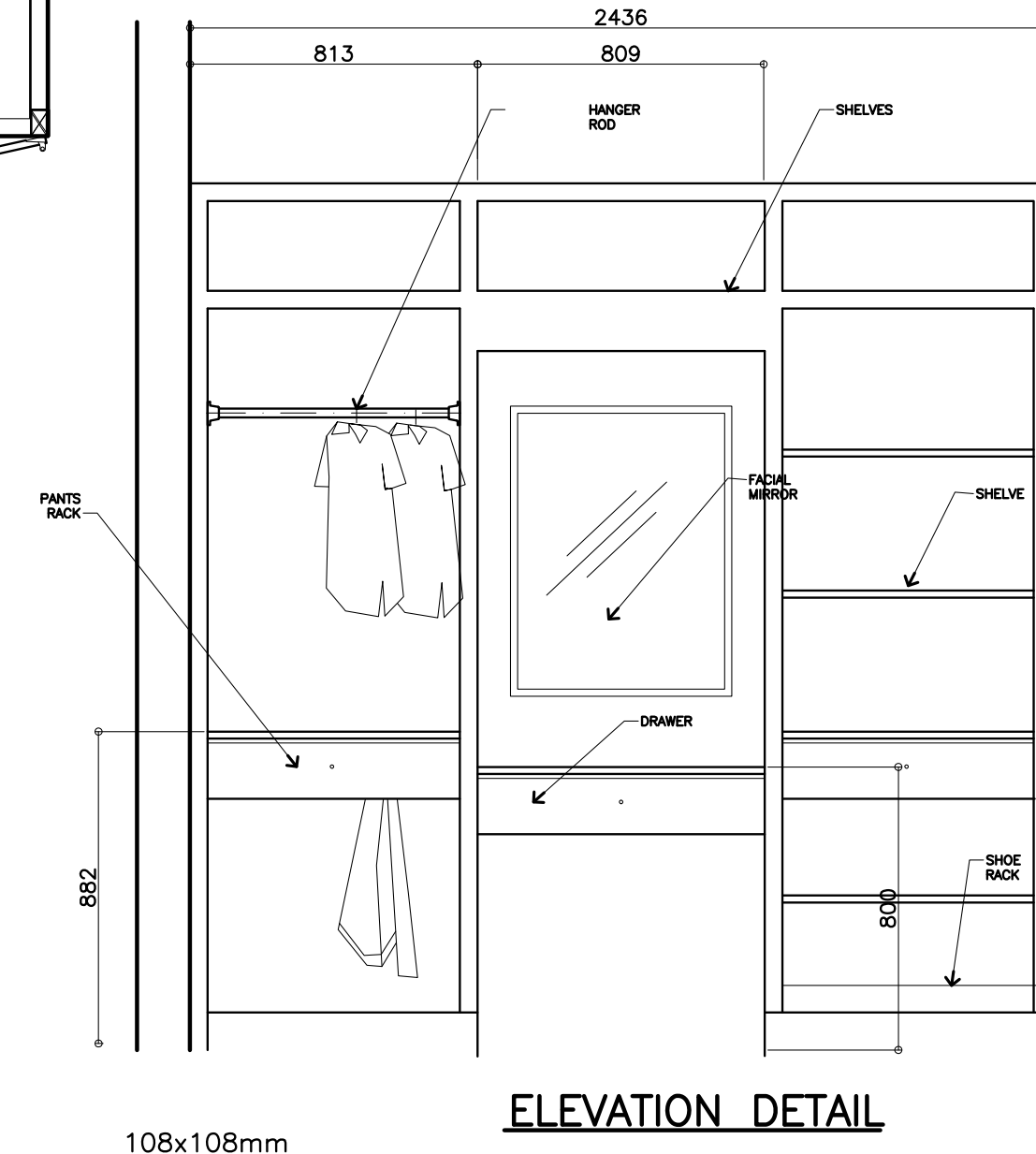
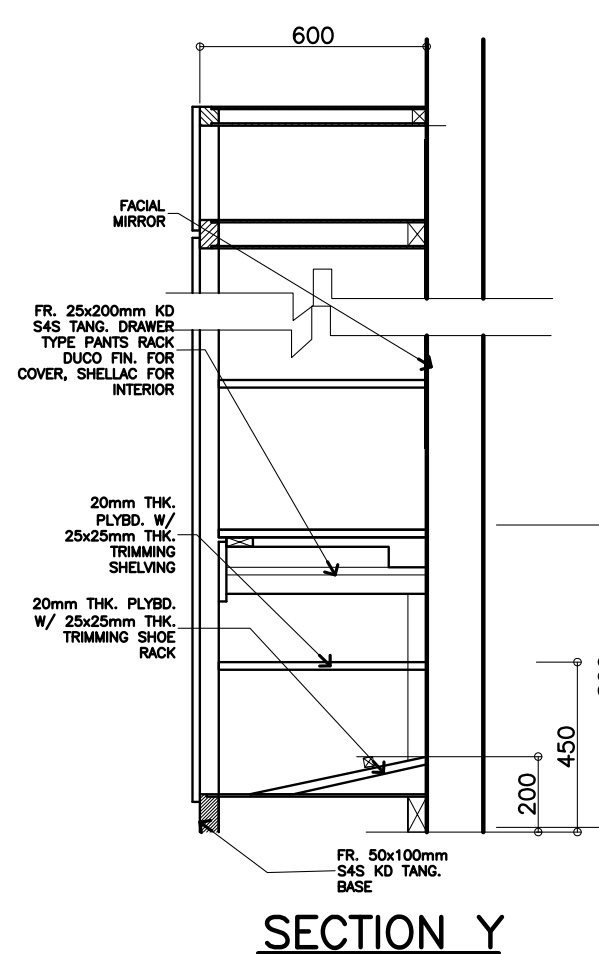
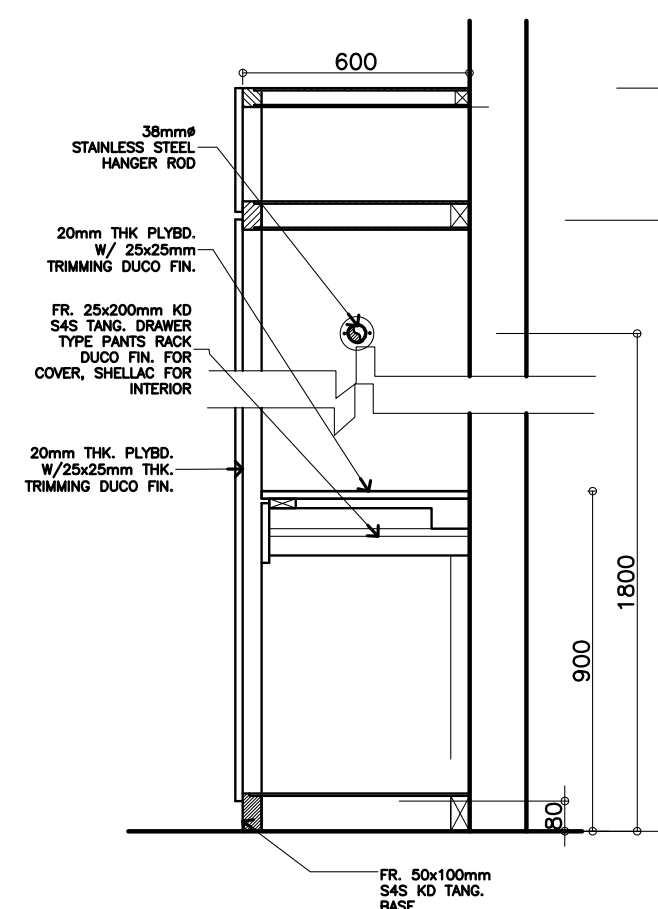
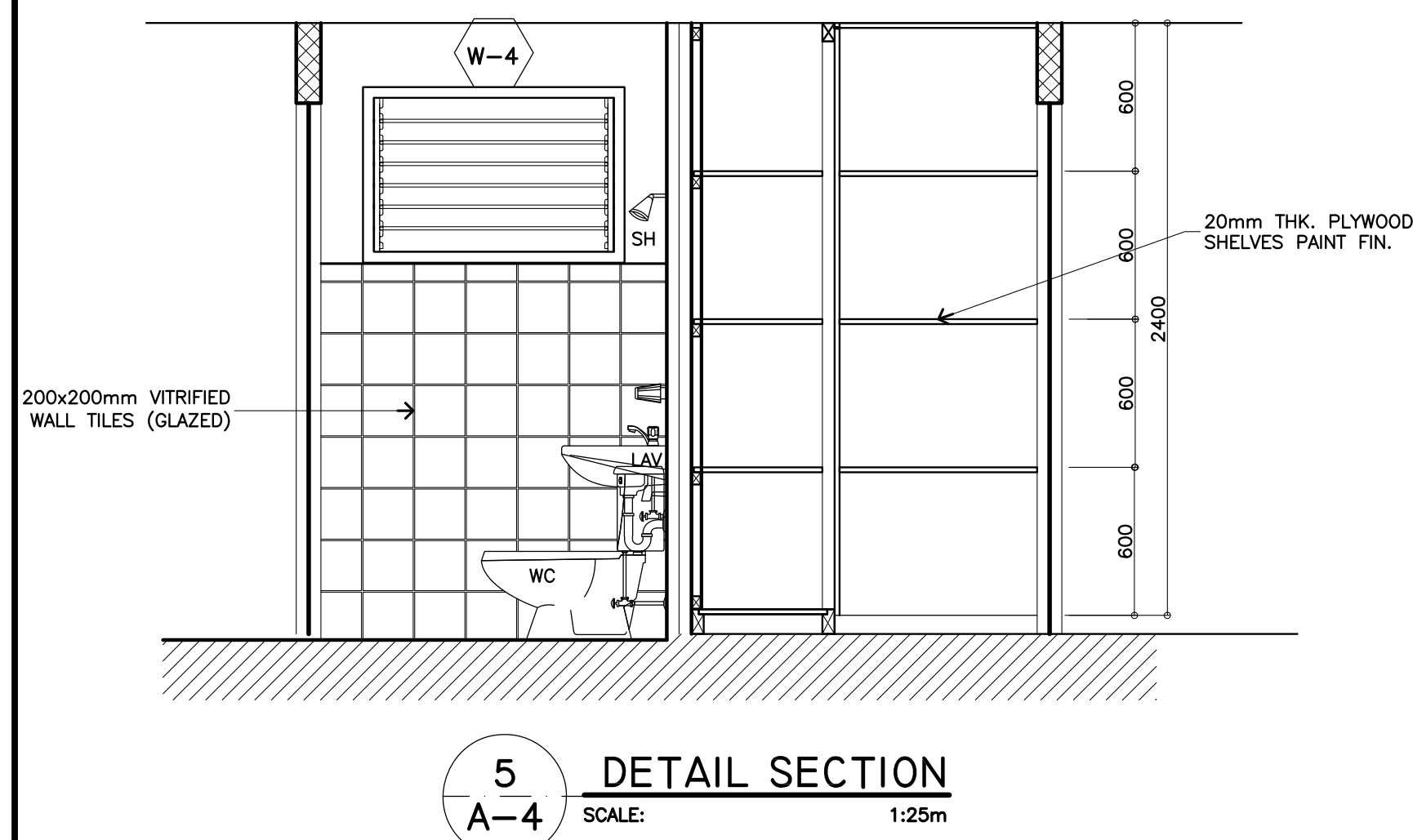
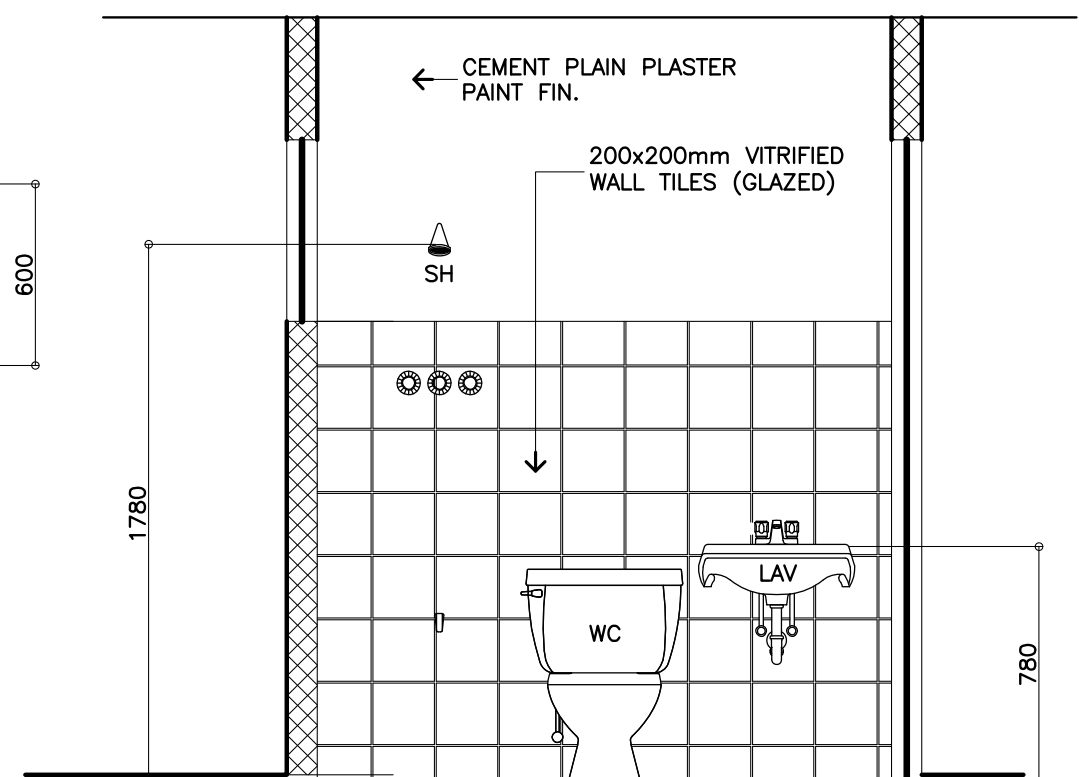
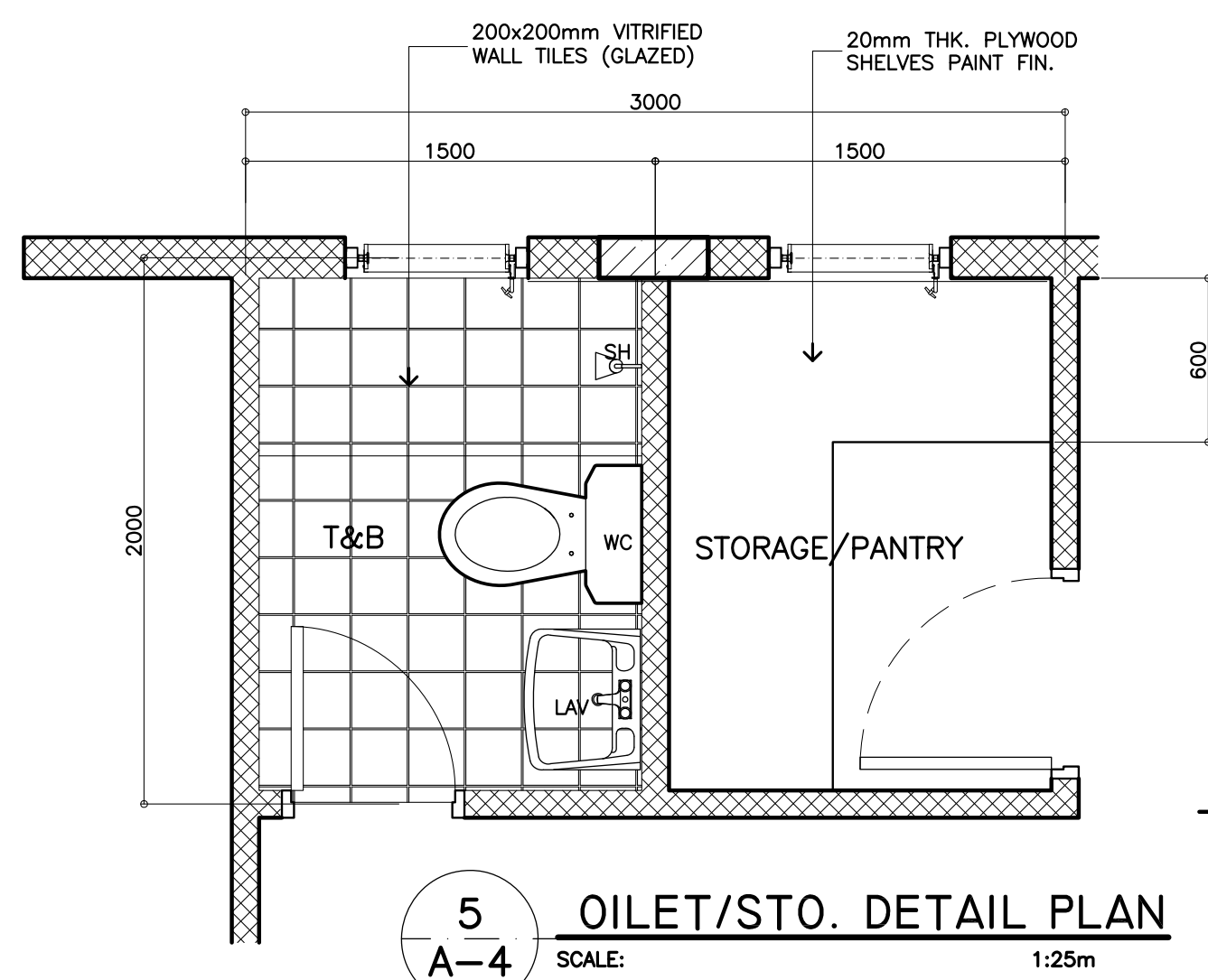
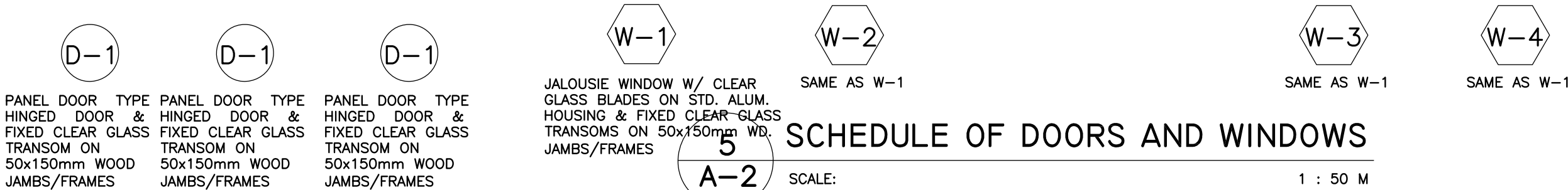


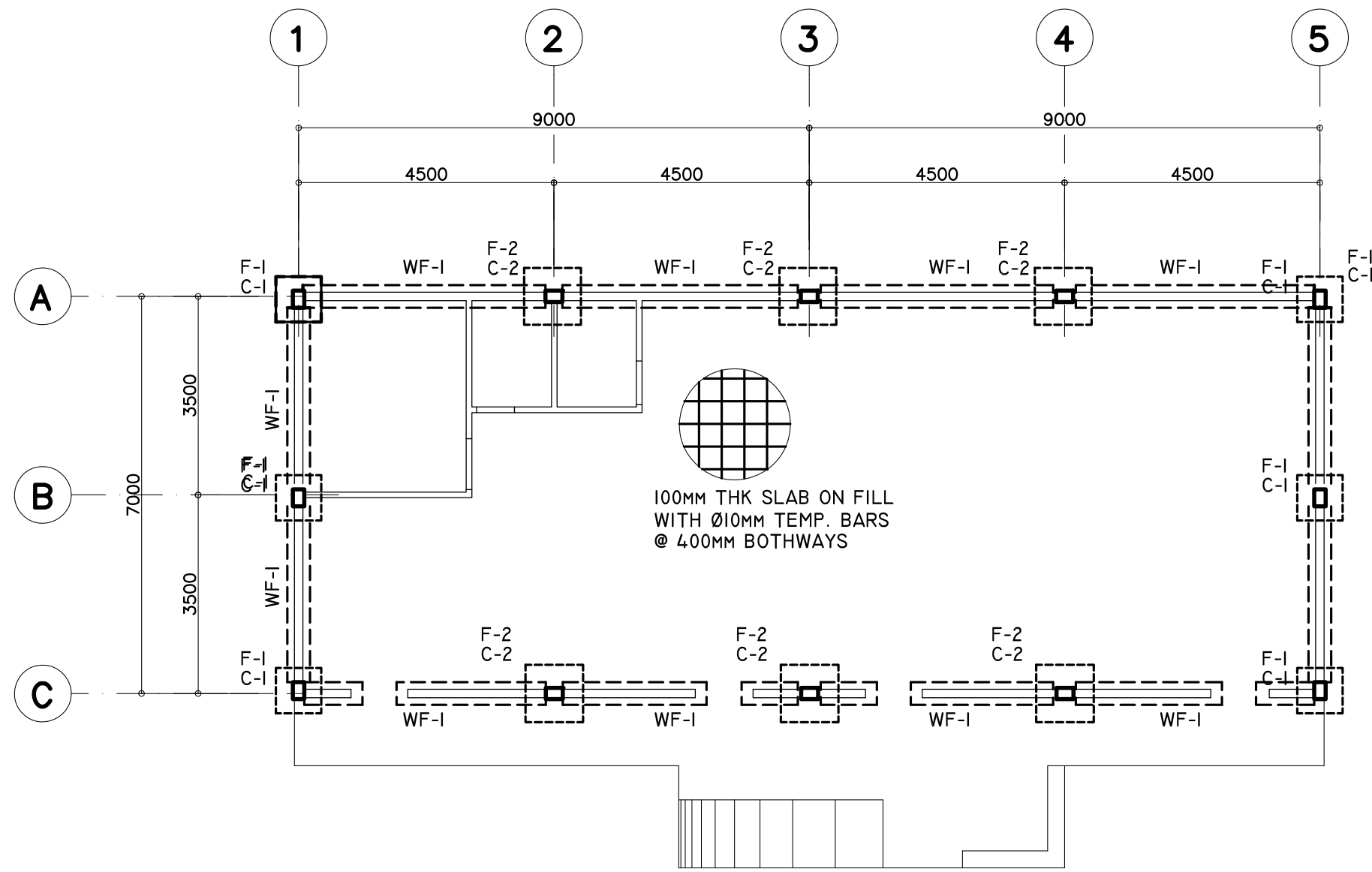
1 BAY SECTION
A-3 SCALE: 1 : 20 M

4 DETAIL SECTION
A-3 SCALE: 1:20 mts.

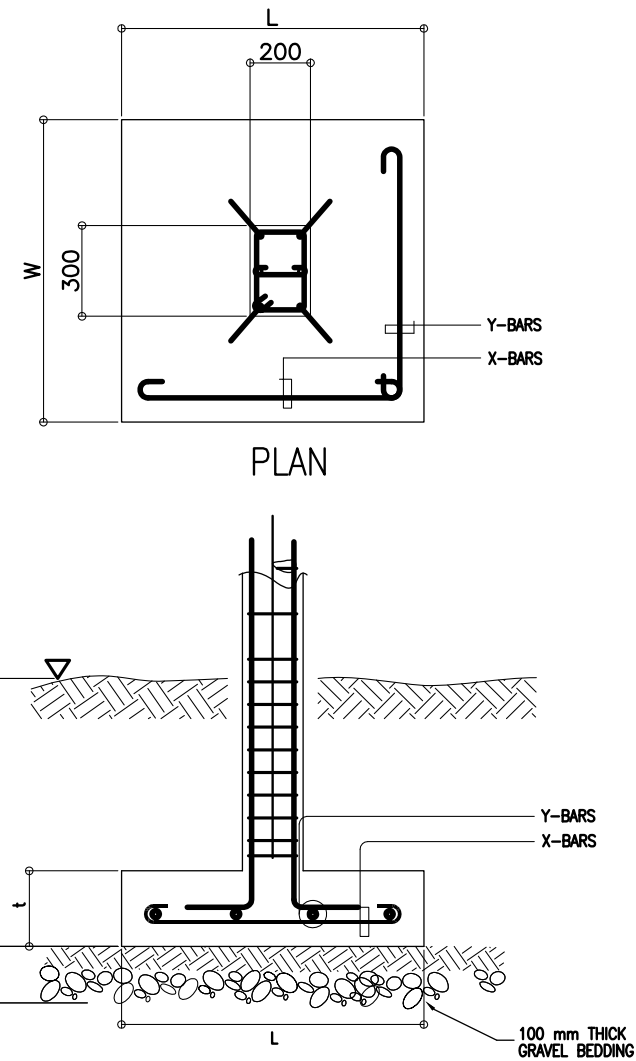
<p>REPUBLIC OF THE PHILIPPINES</p> <p>DepED</p> <p>DEPARTMENT OF EDUCATION</p> <p>PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION</p> <p>MERALCO AVENUE, PASIG CITY</p>	<p>PREPARED BY :</p> <p><i>Maximo M. Calbang</i></p> <p>MAXIMO M. CALBANG</p> <p>PDO III</p> <p>PFSED-DepED</p>	<p>CHECKED BY :</p> <p><i>Nathaniel Q. Mendoza</i></p> <p>NATHANIEL Q. MENDOZA</p> <p>ARCHITECT III</p> <p>PFSED-DepED</p>	<p>RECOMMENDING APPROVAL :</p> <p><i>Luis G. Purisima, Jr.</i></p> <p>LUIS G. PURISIMA, Jr.</p> <p>HEAD, PLANNING & DESIGN UNIT</p> <p>PFSED-DepED</p>	<p>APPROVED BY :</p> <p><i>Oliver R. Hernandez</i></p> <p>OLIVER R. HERNANDEZ</p> <p>CHEF, PFSED-OPS</p> <p>DEPARTMENT OF EDUCATION</p>	<p>CONCURRED BY :</p> <p><i>Ramon C. Bacani</i></p> <p>RAMON C. BACANI</p> <p>UNDERSECRETARY</p> <p>DEPARTMENT OF EDUCATION</p>	<p>PROJECT TITLE :</p> <p>MULTI-PURPOSE WORKSHOP BUILDING</p> <p>LOCATION : .</p>	<p>PROJECT NO:</p> <p>DESIGNED BY: NQM</p> <p>ENCODED BY: MMC</p> <p>CHECKED BY: LGP</p> <p>DATE :</p>	<p>OWNER :</p> <p>DEPARTMENT OF EDUCATION</p> <p>DepED</p> <p>SHEET CONTENTS :</p> <p>SCHED. OF DOORS & WINDOWS, BAY & DETAIL SECTION, EAVES DETAIL, LOUVER BLOCK DETAIL, CEILING VENT DET., RAMP DETAIL</p>	<p>SHEET NO:</p> <p>A-3</p> <p>4</p>
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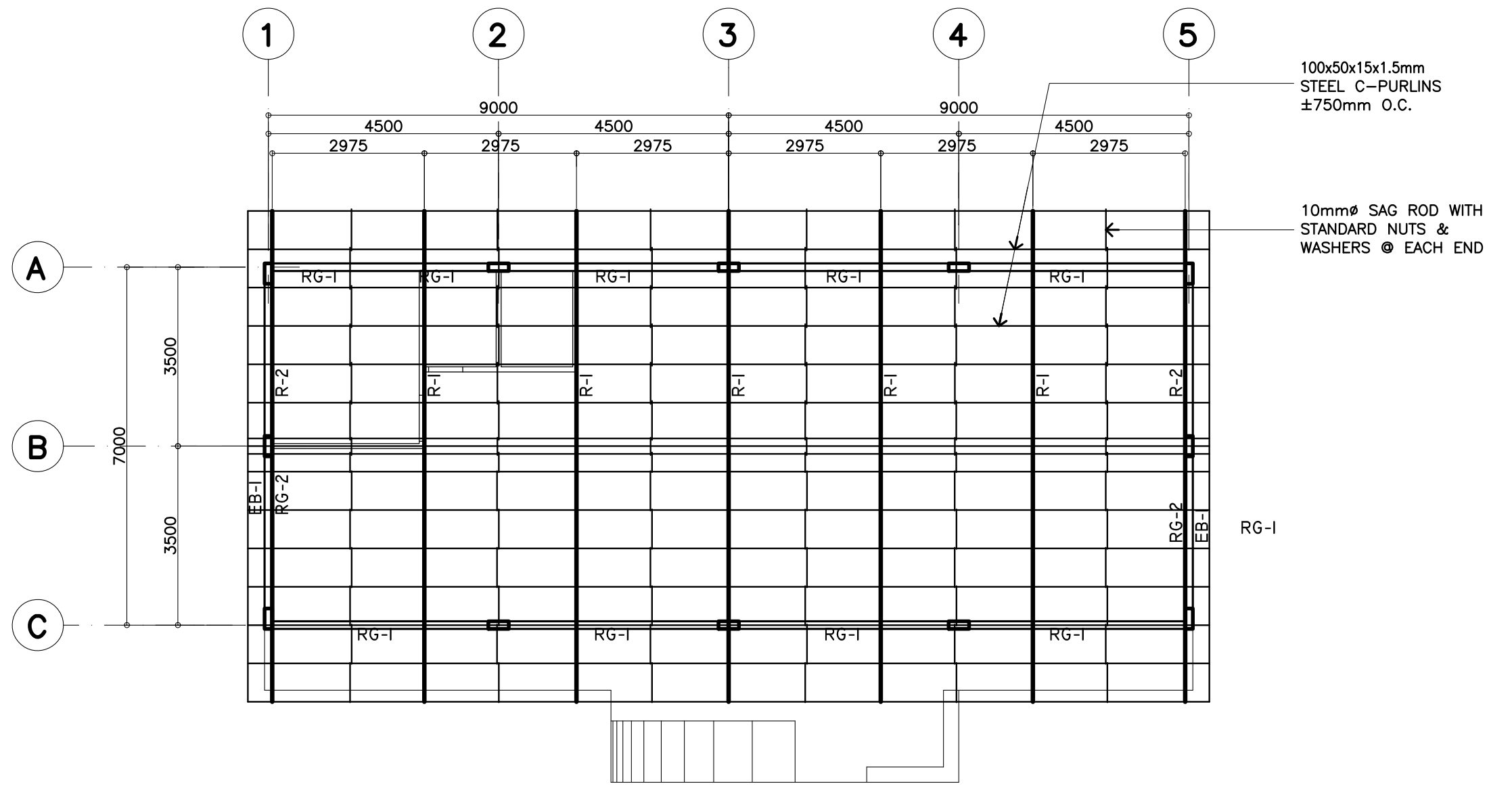


A
S-1 FOUNDATION PLAN
SCALE : 1 : 1 0 0 MTS.

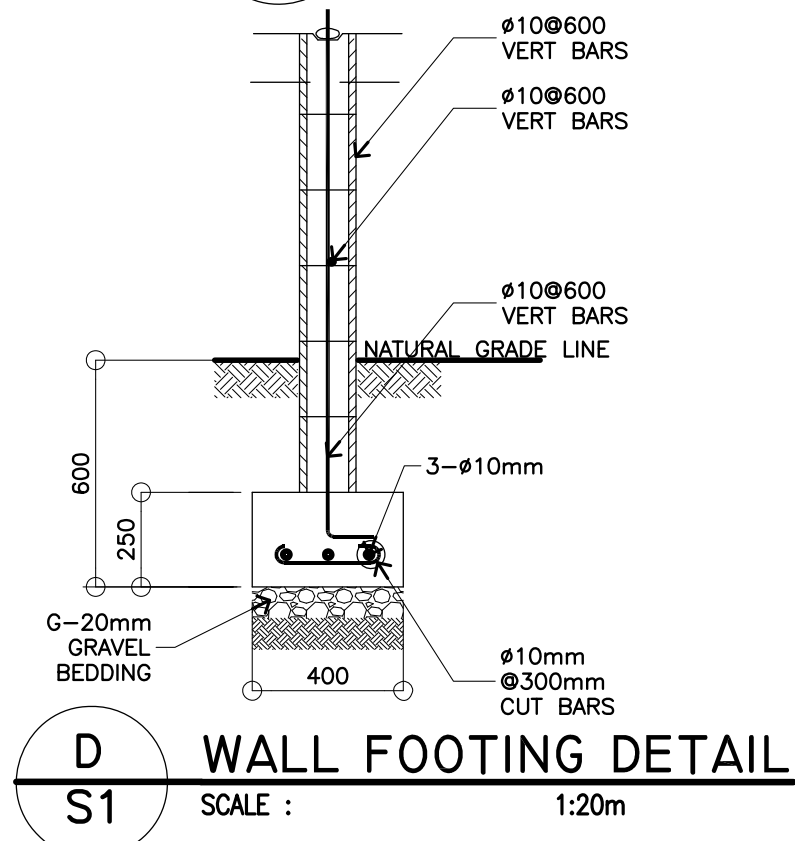


A
S1 TYP. FOOTING DETAIL
SCALE : NTS

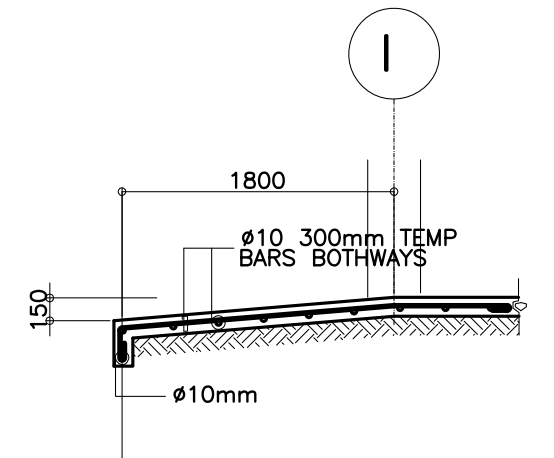
SCHEDULE OF FOOTINGS							
FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)	THICKNESS (t)	BAR X	BAR Y	
F-1	800	800	1200	250	4 - 16mmØ	4 - 16mmØ	SQUARE FOOTING
F-2	1000	1000	1200	250	4 - 16mmØ	4 - 16mmØ	SQUARE FOOTING



B
S-1 ROOF FRAMING PLAN
SCALE : 1 : 1 0 0 MTS.



D
S1 WALL FOOTING DETAIL
SCALE : 1:20m



E
S-1 DETAIL OF RAMP
SCALE 1 : 50M

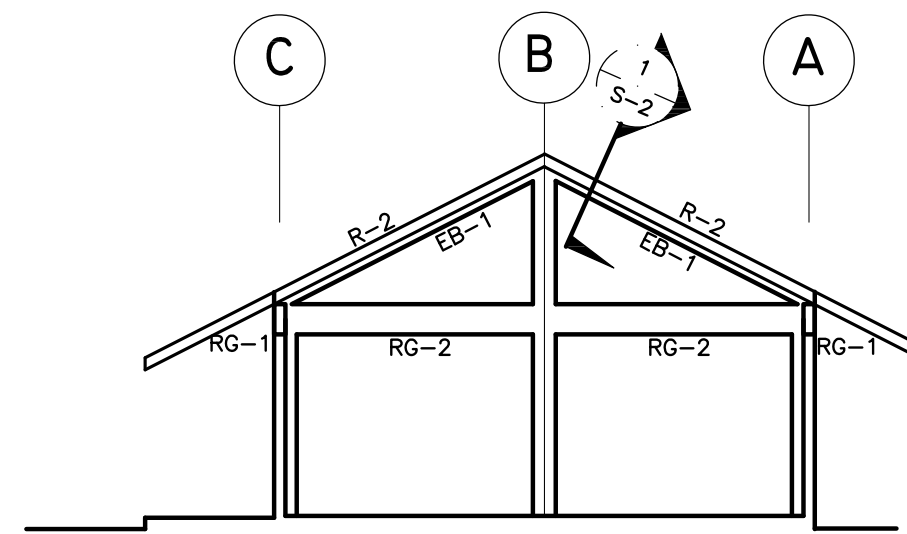
DESIGN CRITERIA :

- A. CONCRETE
 $f_c' = 20.685 \text{ Mpa (3,000 Psi)}$, minimum compressive strength of concrete a 28 days unless otherwise specified.
- B. REBAR
 $f_y = 275.8 \text{ Mpa (40,000 Psi)}$, minimum yield strength of reinforcing bars unless otherwise specified.
- C. STRUCTURAL STEEL
 $F_y = 248 \text{ Mpa (36 Ksi)}$, specified minimum yield strength unless otherwise specified.
- D. FOUNDATION
 $SBP = 95.706 \text{ Kpa (2,000 Psf)}$, was used in the design for all footings. No footing shall rest on fill.

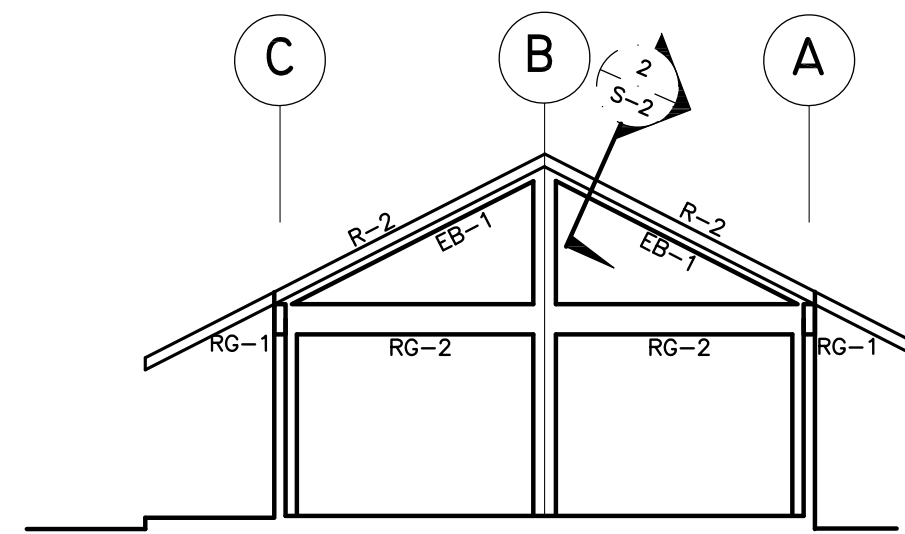
COLUMN SCHEDULE		
LEVEL	C-1	C-2
FOUNDATION LEVEL TO ROOF LEVEL	<p>MAIN BAR: 4-Ø16mm TIES : Ø10 mm 1Ø50, 8Ø75, REST @ 150mm TO CENTER</p>	<p>MAIN BAR: 6-Ø16mm TIES : Ø10 mm 1Ø50, 8Ø75, REST @ 150mm TO CENTER</p>

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION MERALCO AVENUE, PASIG CITY	PREPARED BY : MAXIMINO M. CALBANG PDO III PFSED-DepED	CHECKED BY : JOHN CARLO L. TOLIBAS ENGINEER III PFSED-DepED	RECOMMENDING APPROVAL : LUIS S. PURISIMA, Jr. HEAD, PLANNING & DESIGN UNIT PFSED-DepED	APPROVED BY : OLIVER R. HERNANDEZ CHIEF, PFSED-OPS DEPARTMENT OF EDUCATION	CONCURRED BY : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION	PROJECT TITLE : MULTI-PURPOSE WORKSHOP BUILDING LOCATION : .	PROJECT NO: DESIGNED BY: NOM ENCODED BY: MMC CHECKED BY: LGP DATE :	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : FOUNDATION, ROOF FRAMING PLAN FOOTING & COLUMN SCHEDULE, DESIGN CRITERIA, AND WALL FTG. DET.	SHEET NO: S-1 2
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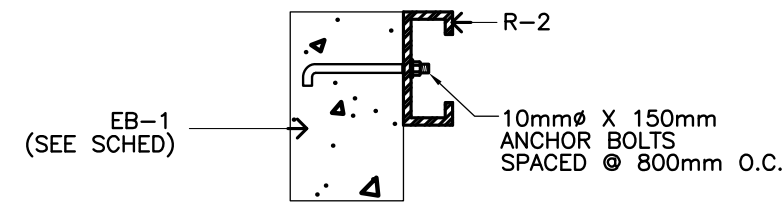
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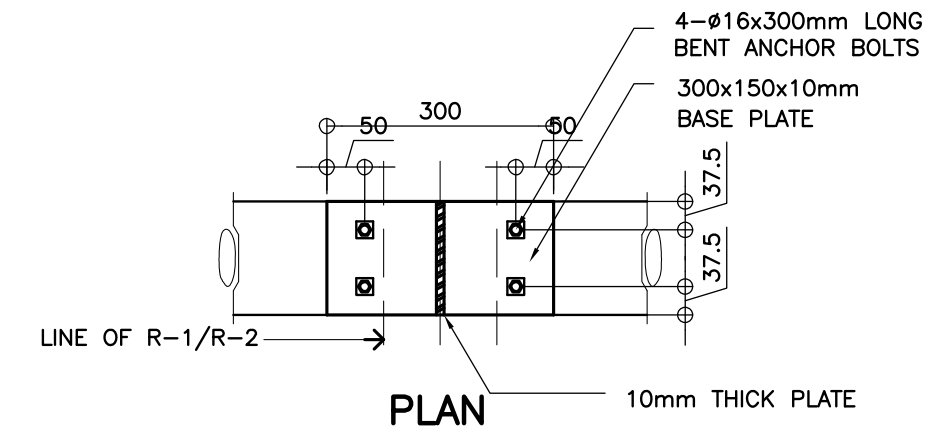
A
S-2 ELEV @ GRID I & 5
SCALE: 1:100 M



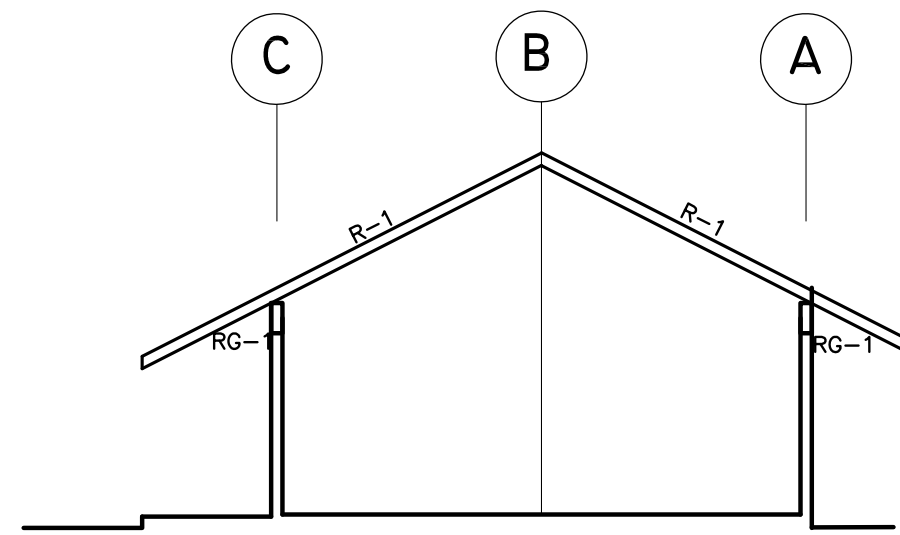
B
S-2 ELEV @ GRID 3
SCALE: 1:100 M



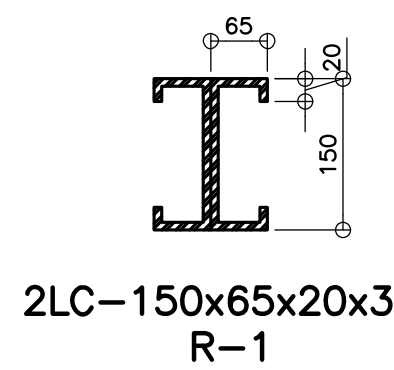
F
S-2 SECTION DETAIL
SCALE NTS



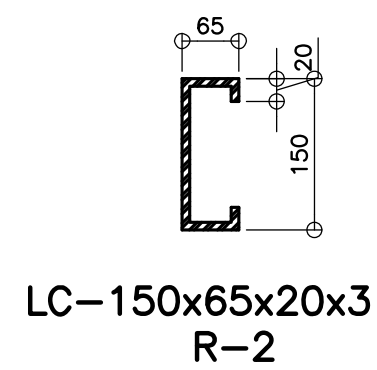
PLAN
10mm THICK PLATE



C
S-2 ELEV BET GRIDLINES
SCALE: 1:100 M

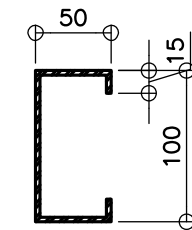


2LC-150x65x20x3
R-1



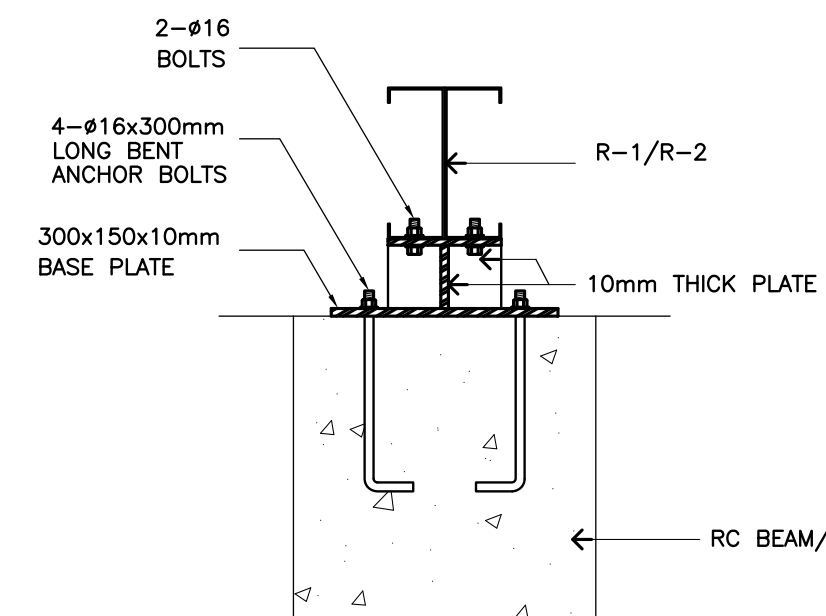
LC-150x65x20x3
R-2

D
S-2 DETAIL OF RAFTER
SCALE NTS



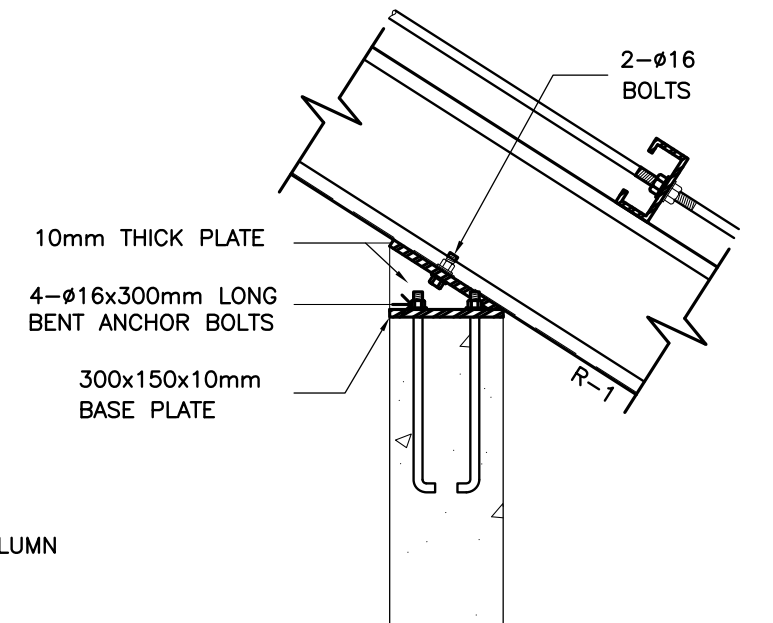
LC-100x50x15x1.5

G
S-2 DETAIL OF PURLINS
SCALE NTS

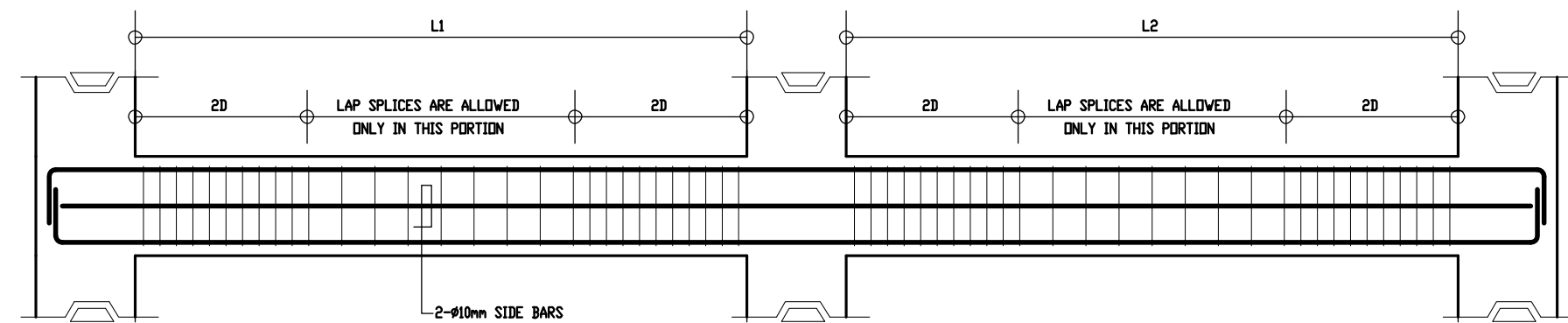


ELEVATION

H
S-2 TYPICAL RAFTER ANCHORAGE DETAIL
SCALE 1:20 M

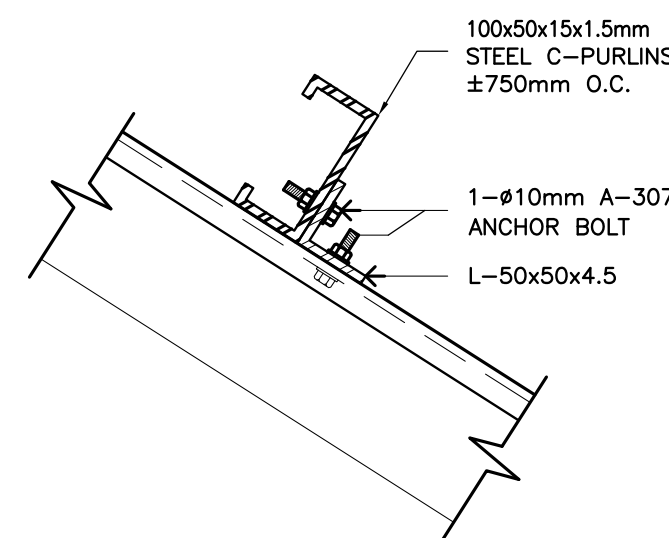


ELEVATION

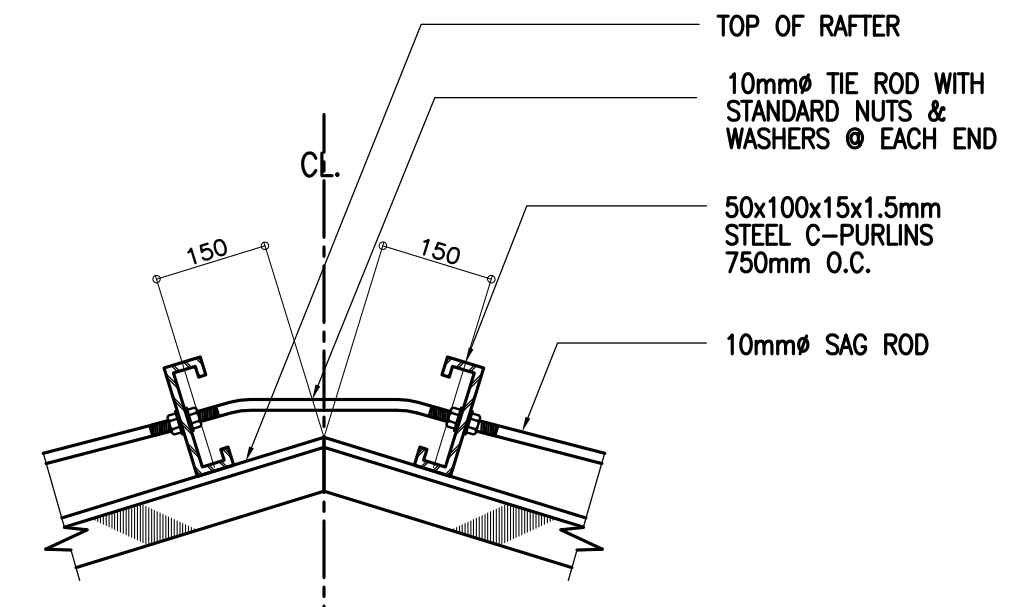


E
S-2 TYPICAL BEAM ELEVATION

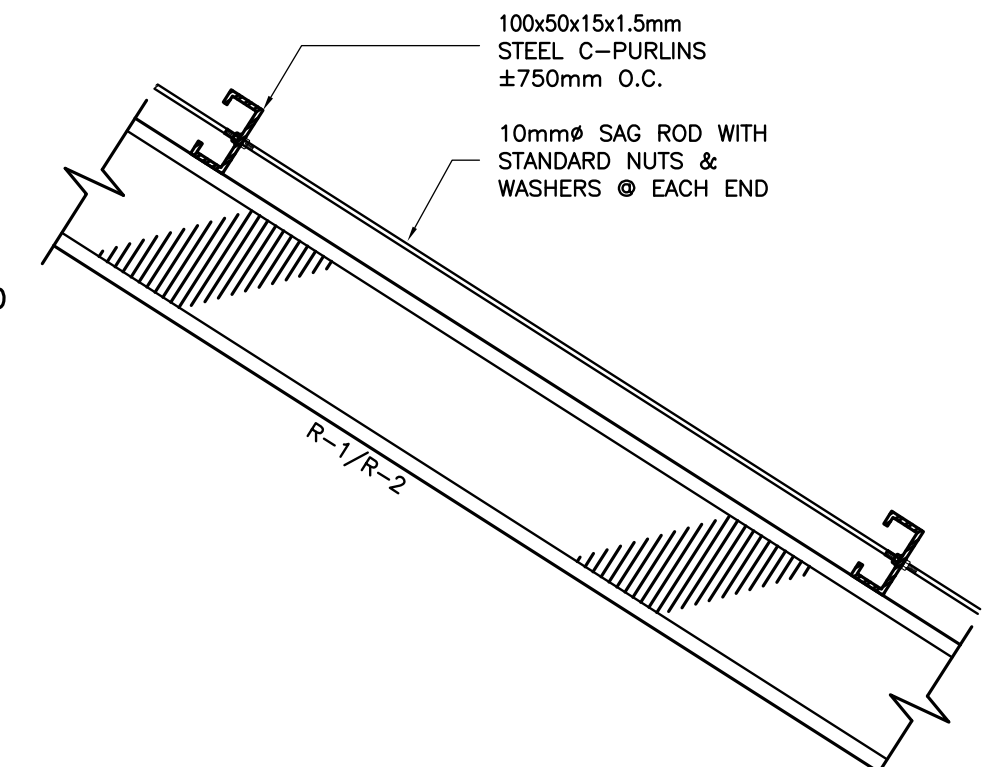
B E A M S C H E D U L E											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		STEEL REINFORCEMENTS						STIRRUPS #10mm (UNLESS NOTED OTHERWISE)	
				REBAR (mm #)	LEFT		MID SPAN		RIGHT		
		b	h		TOP	BOTTOM	TOP	BOTTOM	TOP		
ROOF LEVEL	RG-1	150	400	Ø12mm	2	2	2	2	2	2	1Ø50, 8Ø100, REST@200
	RG-2	150	400	Ø12mm	2	2	2	2	2	2	1Ø50, 6Ø100, REST@200
	EB-1	150	250	Ø10mm	2	2	2	2	2	2	1Ø50, REST@200



I
S-2 PURLIN CONNECTION DET
SCALE 1 : 5 M



J
S-2 TIE ROD CONNECTION DET.
SCALE 1 : 10 M



K
S-2 SAG ROD CONNECTION DET.
SCALE 1 : 10 M

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION MERALCO AVENUE, PASIG CITY	PREPARED BY :	CHECKED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	CONCURRED BY :	PROJECT TITLE :	PROJECT NO:	OWNER :	SHEET NO:
						MULTI-PURPOSE WORKSHOP BUILDING	DESIGNED BY: NQM	DEPARTMENT OF EDUCATION DepED	S-2 2
	PDO III PFSED-DepED	ENGINEER III PFSED-DepED	HEAD, PLANNING & DESIGN UNIT PFSED-DepED	CHIEF, PFSED-OPS DEPARTMENT OF EDUCATION	UNDERSECRETARY DEPARTMENT OF EDUCATION	LOCATION : .	ENCODED BY: MMC	SHEET CONTENTS : ELEVATIONS • GRIDLINES, BEAM SCHEDULE AND TRUSS CONNECTION DETAILS	
							CHECKED BY: LGP		
							DATE :		

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REP. ACT 545

GENERAL NOTES

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THIS PLAN AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC). THE RULES AND REGULATION OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 1–PHASE, 2–WIRE, 230 V AC, 60 Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS :

a. FEEDERS AND RISERS – INTERMEDIATE METALLIC CONDUIT

b. LIGHTING, POWER RECEPTACLE – POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY SCH. 40
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mmø TRADE/NOMINAL SIZE.
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAUGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :

a. LIGHT SWITCH – 1.20 M ABOVE FINISH FLOOR

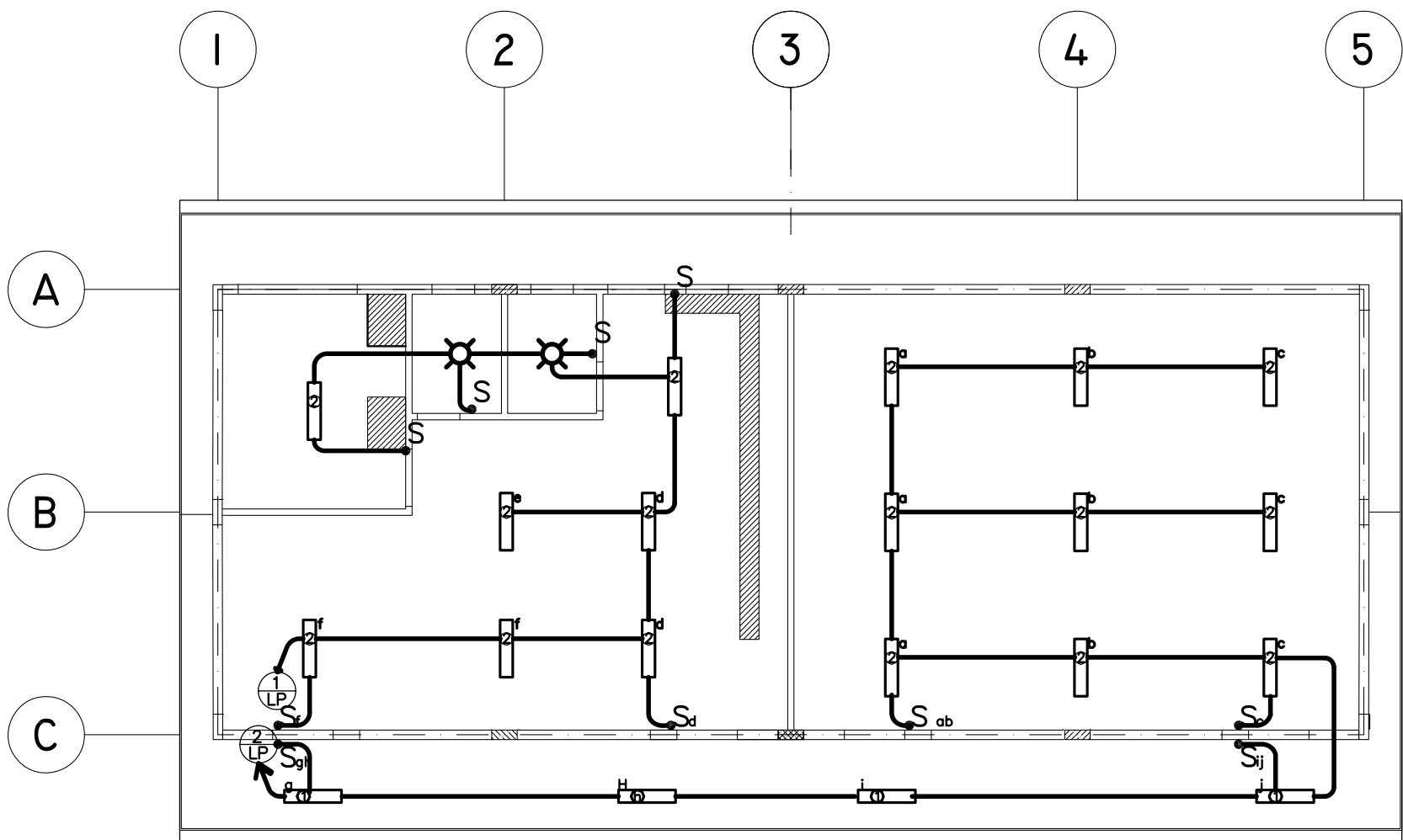
b. CONVENIENCE OUTLET – 0.30 M ABOVE FINISH FLOOR.

c. PANELBOARD – 1.80 M ABOVE FINISH FLOOR

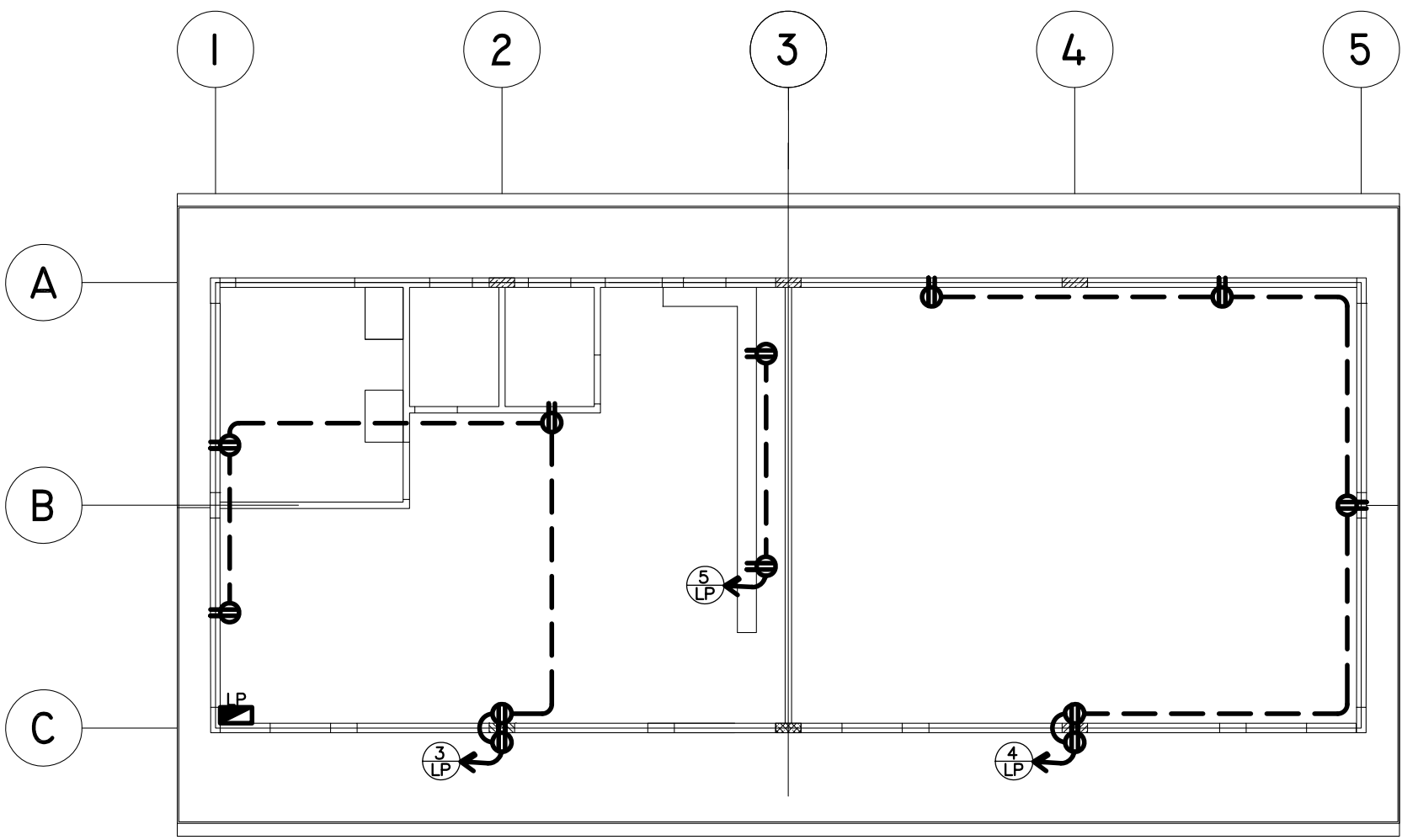
LEGEND

SYMBOL	DESCRIPTION
	– CEILING LIGHT OUTLET
	– 2 x 40 WATTS FLUORESCENT LAMP
	– CEILING FAN OUTLET
	– ONE GANG DEVICE SWITCH
	– TWO GANG DEVICE SWITCH
	– THREE GANG DEVICE SWITCH
	– 1 x 40 WATTS FLUORESCENT LAMP
	– FAN CONTROL SWITCH
	– RACEWAY CONDUIT CONCEALED IN CEILING
	– RACEWAY CONDUIT CONCEALED UNDER FLOOR
	– PANELBOARD
	– DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	– WEATHERPROOF TYPE DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	– HOMERUN DIRECT TO PANELBOARD
	– , ELECTRIC SERVICE METER
	– SERVICE ENTRANCE

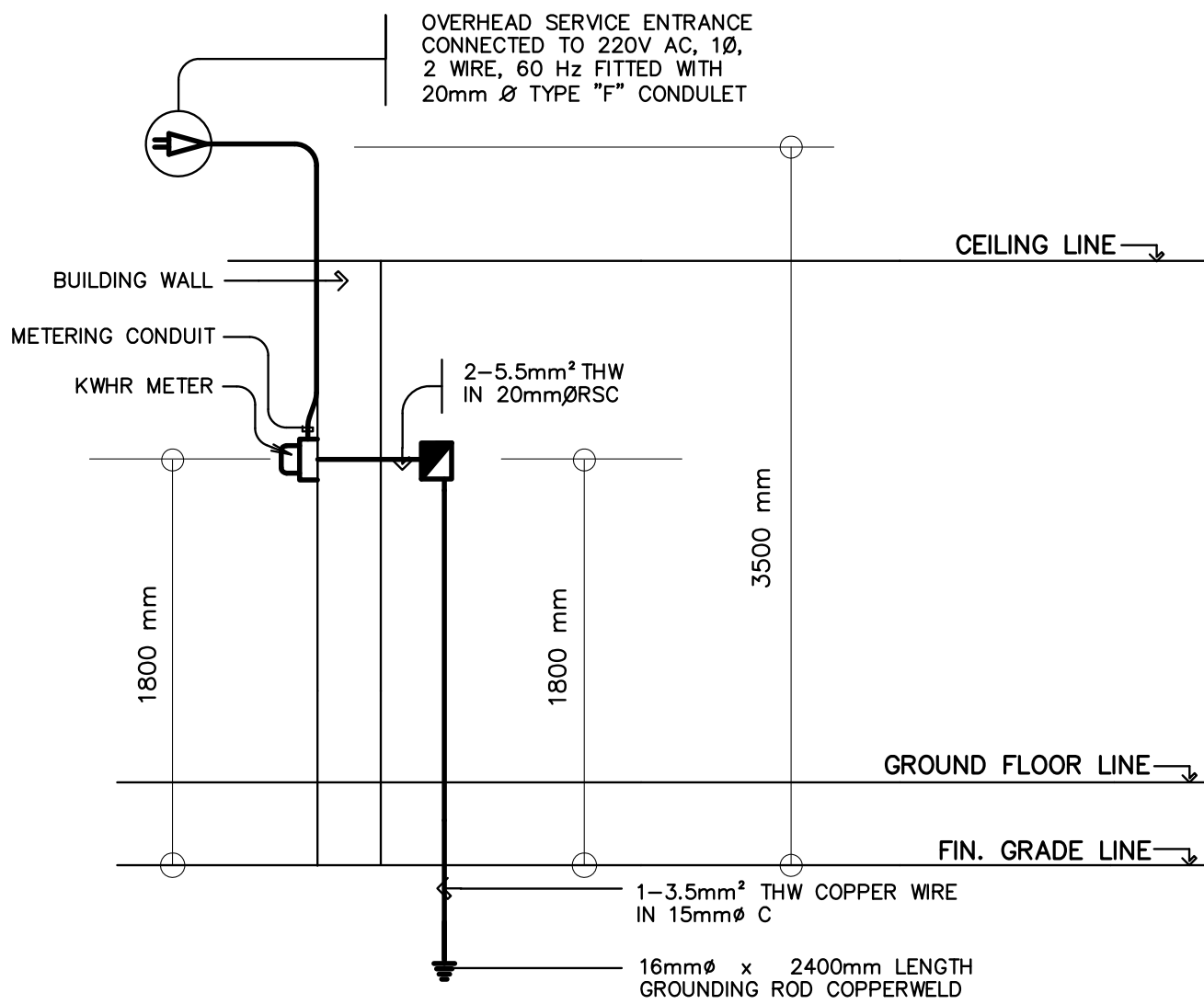
PANELBOARD: LP			MAIN : 40AT, 100AF, 2P, 240V				
CKT. NO.	DESCRIPTION	VA LOAD	CIRCUIT BREAKER				WIRE & CONDUIT SIZE
			VOLT	POLE	A T	A F	
1	LIGHTING OUTLET	900	230	2	20	50	3–3.5mm ² THW IN 15mmø C
2	LIGHTING OUTLET	1300	230	2	20	50	3–3.5mm ² THW IN 15mmø C
3	CONVENIENCE OUTLET	900	230	2	20	50	3–3.5mm ² THW IN 15mmø C
4	CONVENIENCE OUTLET	900	230	2	20	50	3–3.5mm ² THW IN 15mmø C
5	CONVENIENCE OUTLET	360	230	2	20	50	3–3.5mm ² THW IN 15mmø C
6	SPARE	1500	230	2	20	50	_____
	TOTAL	5860					
<div>IL = $\frac{5860}{230\text{ V}}$ = 25.48 A</div> <div>FEEDER: 2–5.5mm² THW IN 20mmØ RSC</div> <div>PROTECTION: 40 AT, 50 AF, 2P, 240 V</div>							



1 LIGHTING LAYOUT
E-1 SCALE: 1 : 100 M



2 POWER LAYOUT
E-1 SCALE: 1 : 100 M

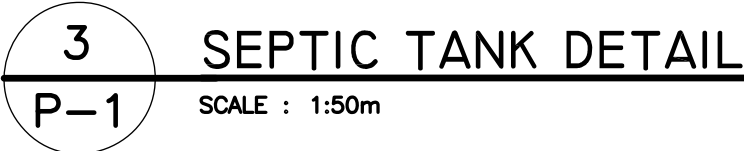


3 ELECTRICAL RISER DIAGRAM
E-1 SCALE: NTS

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION MERALCO AVENUE, PASIG CITY	PREPARED BY : MAXIMINO M. CALBANG PDO III PFSED–DepED	CHECKED BY : VENERANDO D. SAGUN ENGINEER III PFSED–DepED	RECOMMENDING APPROVAL : LUIS S. PURISIMA, Jr. HEAD, PLANNING & DESIGN UNIT PFSED–DepED	APPROVED BY : OLIVER R. HERNANDEZ CHIEF, PFSED–OPS DEPARTMENT OF EDUCATION	CONCURRED BY : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION	PROJECT TITLE : MULTI-PURPOSE WORKSHOP BUILDING LOCATION : .	PROJECT NO: DESIGNED BY: NQM ENCODED BY: MMC CHECKED BY: LGP DATE :	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : GENERAL NOTES, LEGEND, SINGLE LINE DIAGRAM, RISER DIAGRAM, LIGHTING & POWER LAYOUT	SHEET NO: E-I I

NOTE: THIS DRAWING, AS AN INSTRUMENT OF SERVICE IS THE PROPERTY OF PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION AND AS SUCH MUST NOT BE REPRODUCED OR COPIED IN PART OR IN WHOLE WITHOUT THEIR PERMISSION, ALL DRAWINGS ARE TO BE RETURNED WHEN NO LONGER IN USE.

REP. ACT 545



- ## PLUMBING NOTES:
1. GRADES OF HORIZONTAL PIPINGS
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND AT
A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
 2. CHANGE IN DIRECTION
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF
FORTY-FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND,
SIXTH-EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM
HORIZONTAL TO VERTICAL A SINGLE 1/8 BEND COMBINATION MAYBE USED
ON VERTICAL STACKS AND SHORT QUARTER BENDS MAYBE USED ON WASTE
LINE, TEE AND CROSSES MAYBE USED IN BENT PIPES.
 3. PROHIBITED FITTINGS
NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL
AND WASTE LINES, THE DRILLINGS AND TAPPING OF HOUSE DRAIN, WASTE
OR VENT PIPES AND USED OF SADDLE HUB AND BEND ARE PROHIBITED.
 4. PIPE CLEAN-OUTS
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
a) EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING TWENTY TWO AND
ONE-HALF DEGREES (22 1/2°).
b) ONE AND ONE-HALF METERS (1.50m.) INSIDE THE PROPERTY LINES
BEFORE THE HOUSE DRAINAGE CONNECTION.
c) EVERY FIFTEEN METERS (15.00m) IN HORIZONTAL RUN OF PIPES.
d) AT THE END OF ANY HORIZONTAL PIPE LINES.
 5. THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
 6. NOT LESS THAN 0.30 METER OF AIR SPACE MUST BE LEFT BETWEEN
THE TOP OF THE SEWAGE AND THE UNDER PART OF VAULT ROOF SLAB.
 7. NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.
 8. ALL PLUMBING WORKS SHALL BE UNDER THE SUPERVISION OF A
LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.
 9. ALL DIMENSION ARE IN MILLIMETER OTHERWISE SPECIFIED.

i. LIVE LOAD_____ 1000Pa

ii ALLOWABLE STRESSES

1. CONCRETE
 - a. FOR FOOTING, BEAMS AND SLABS
$$f_c'' = 20 \text{ MPa}$$
2. CONCRETE MASONRY UNITS (LOAD BEARING CHB)
$$f_m' = 6.90 \text{ MPa}, f_{rm} = 2.41 \text{ MPa}$$
3. REINFORCING STEEL BARS
FOR BARS SMALLER THAN 16mm ϕ
$$f_y = 230 \text{ MPa}$$
4. ASSUMED ALLOWABLE BEARING CAPACITY $\gamma = 100\text{KPa}$

- WATER TABLE IS 1500 BELOW GROUND LEVEL.