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SCALE : N T S

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ENGINEER/BUILDING OFFICIAL

DISTRICT/CITY/MUNICIPALITY

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ELECTRICAL

MECHANICAL



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF EDUCATION (DepED)
TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING
MERALCO AVENUE, PASIG CITY



CONSULTANT / DESIGNER
ALBERT Z. DE BELEN
ARCHITECT IV
PRC NO. : 0010990 TIN : 149 460 161
PTR NO. : DATE : 27 OCT. 2002

REVIEWED BY:
EMMANUEL M. MONTAPAY
CHIEF / ARCHITECTURAL DIVISION
BUREAU OF DESIGN, DPWH

RECOMMENDING APPROVAL :
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APPROVED FOR ACCREDITATION :
GILBERTO S. REYES
OIC, DIRECTOR IV
BUREAU OF DESIGN, DPWH

CONCURRED :
RAMON C. BACANI
UNDERSECRETARY
DEPARTMENT OF EDUCATION (DepED)

PROJECT TITLE :
**THREE STOREY
FIFTEEN CLASSROOM
SCHOOL BUILDING**
LOCATION :

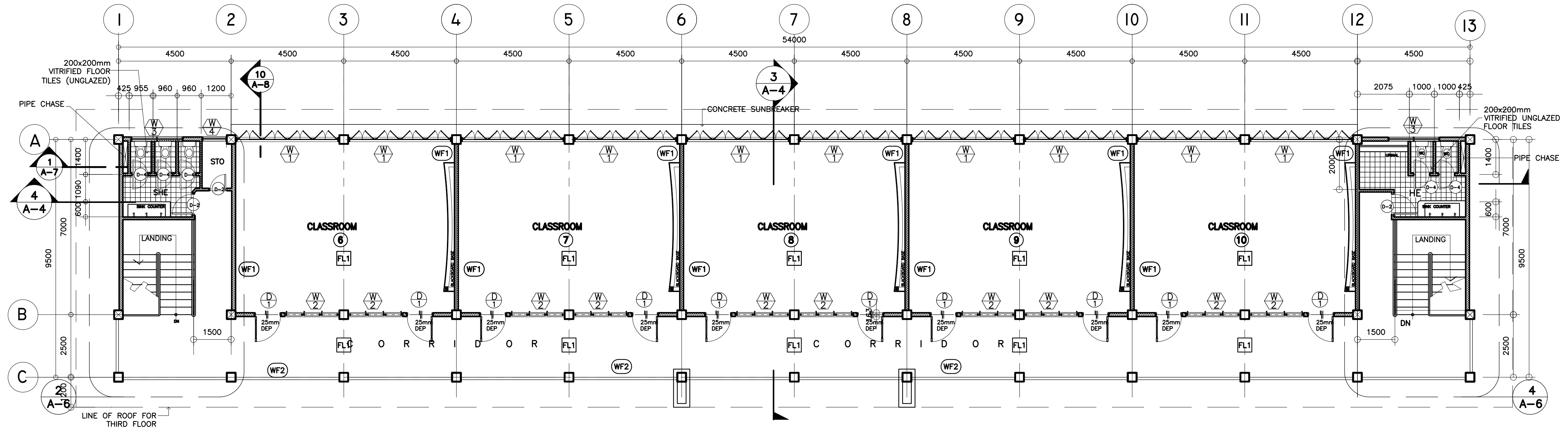
PROJECT NO: 01-002
DESIGNED BY: AZB
ENCODED BY: Max C
CHECKED BY:
DATE : 01 03

OWNER :
**DEPARTMENT OF EDUCATION
DepED**
SHEET CONTENTS :
PERSPECTIVE VIEW, TABLE OF CONTENTS

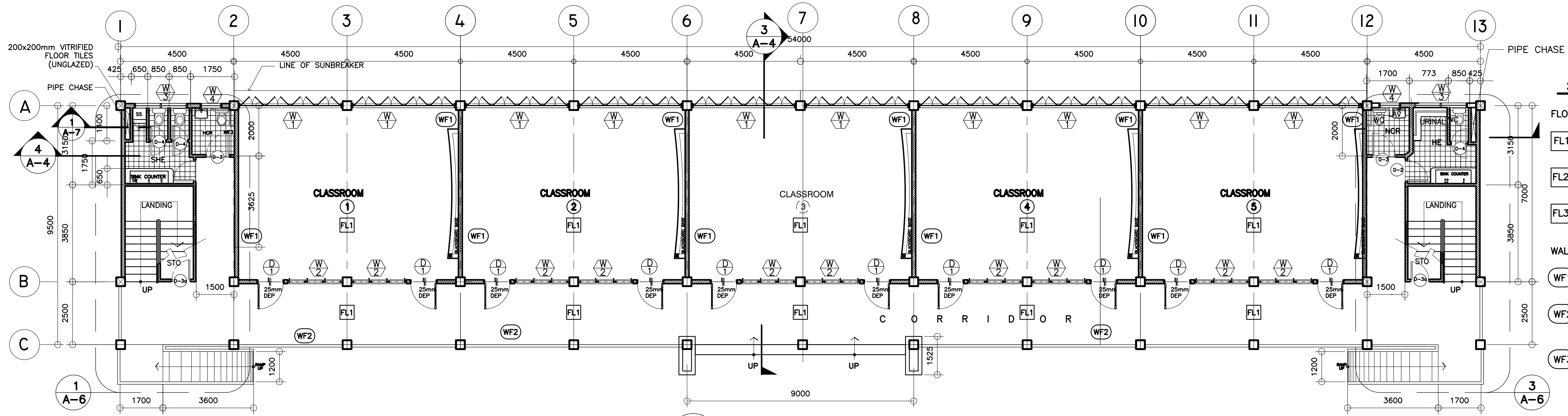
SHEET NO:
**A-1
9**

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2 TYPICAL 2ND & 3RD FLOOR PLAN
 A-2 SCALE : 1 : 100 METERS



1 GROUND FLOOR PLAN
 A-2 SCALE : 1 : 100 METERS

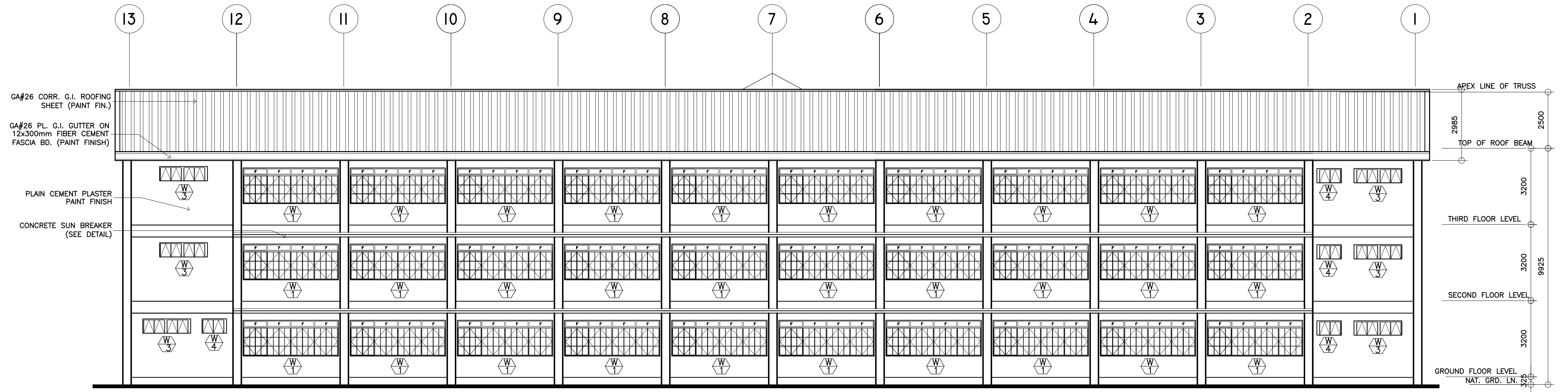
SCHEDULE OF FINISHES

- FLOORS :**
- FL1 - PLAIN CEMENT FLOOR FINISH
 - FL2 - PLAIN CEMENT FLOOR ROUGH WITH GROOVES
 - FL3 - 200X200 VITRIFIED FLR TILES (UNGLAZED)
- WALLS :**
- WF1 - 150 MM THK. CHB W/ PLAIN CEMENT PLASTER FIN (PAINT)
 - WF2 - 100 MM THK. CHB W/ PLAIN CEMENT PLASTER FIN (PAINT) 50mmØ G.I. PIPE FOR HANDRAIL
 - WF3 - 200X200 VITRIFIED WALL TILES (GLAZED)

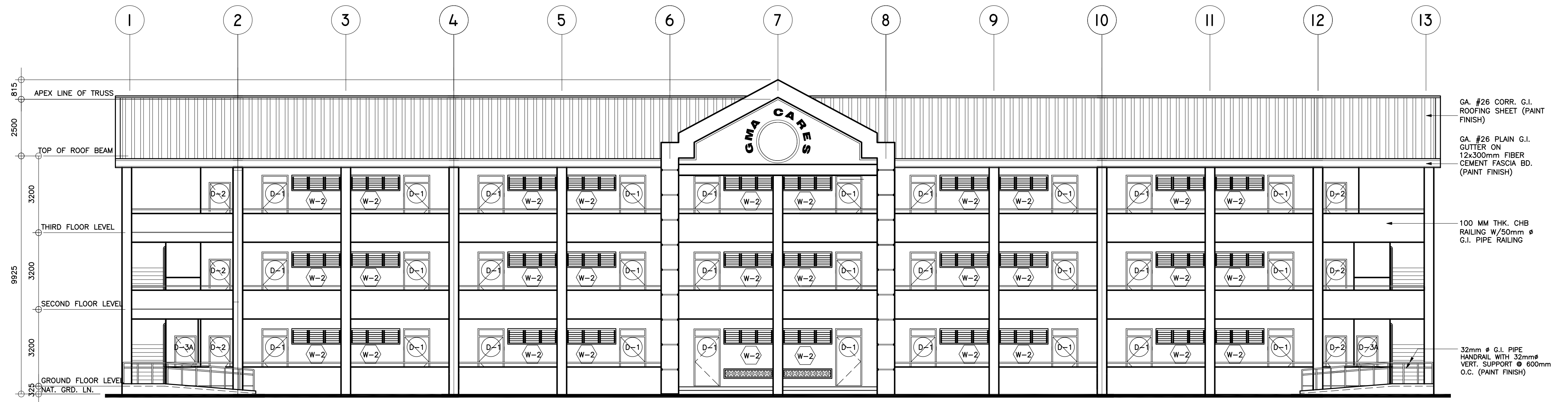
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:
	 ALBERT Z. DE BELEN	 BENJAMIN S. MONTAPAY	 SOFIA T. SANTIAGO	 GILBERTO S. REYES	 RAMON C. BACANI	THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING	DESIGNED BY: AZB	DEPARTMENT OF EDUCATION DepED	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> A-2 9 </div> </div>
	ARCHITECT IV PRC NO. : 0010990 PTR NO. : TIN : 149 460 161 DATE : 27 OCT. 2002	CHIEF ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH	OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	LOCATION :	ENCODED BY: Max C	SHEET CONTENTS :	
							CHECKED BY:	GROUND, 2nd & 3rd TYPICAL FLOOR PLAN, FINISHES	
							DATE : 01 03		

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2 REAR ELEVATION
A-3 SCALE : 1 : 100 METERS

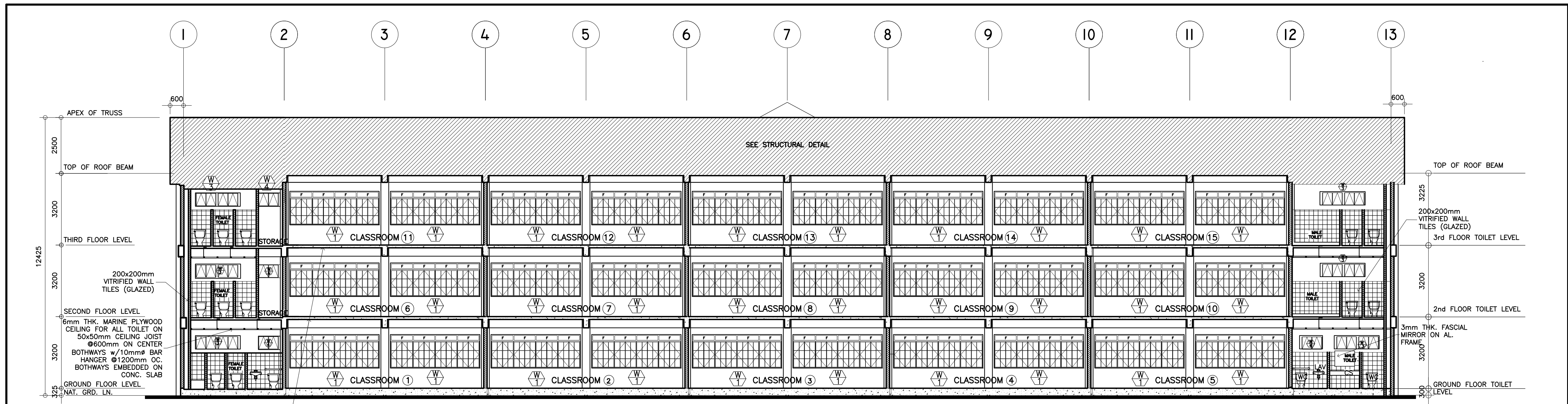


1 FRONT ELEVATION
A-3 SCALE : 1 : 100 METERS

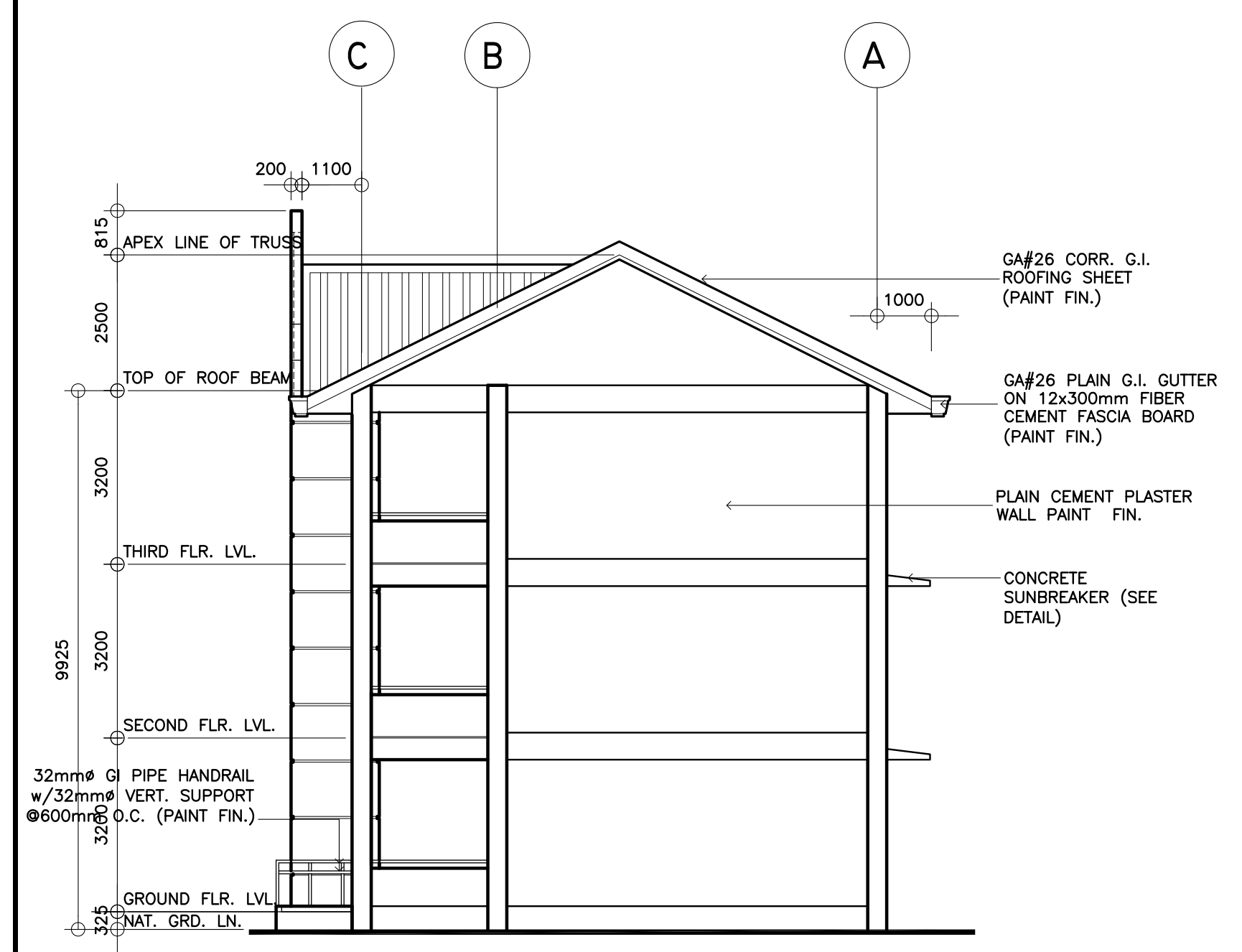
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	<p>CONSULTANT / DESIGNER ALBERT Z. DE BELEN ARCHITECT IV PRC NO. : 0010990 TIN : 149 460 161 PTR NO. : DATE : 27 OCT. 2002</p>	<p>REVIEWED BY: EMMANUEL M. MONTAPAY CHIEF ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH</p>	<p>RECOMMENDING APPROVAL : SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</p>	<p>APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</p>	<p>CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</p>	<p>PROJECT TITLE : THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING</p> <p>LOCATION :</p>	<p>PROJECT NO: 01-002 DESIGNED BY: AZB ENCODED BY: Max C CHECKED BY: DATE : 01 03</p>	<p>OWNER : DEPARTMENT OF EDUCATION DepED</p> <p>SHEET CONTENTS : FRONT, REAR ELEVATIONS</p>	<p>SHEET NO: A-3 9</p>
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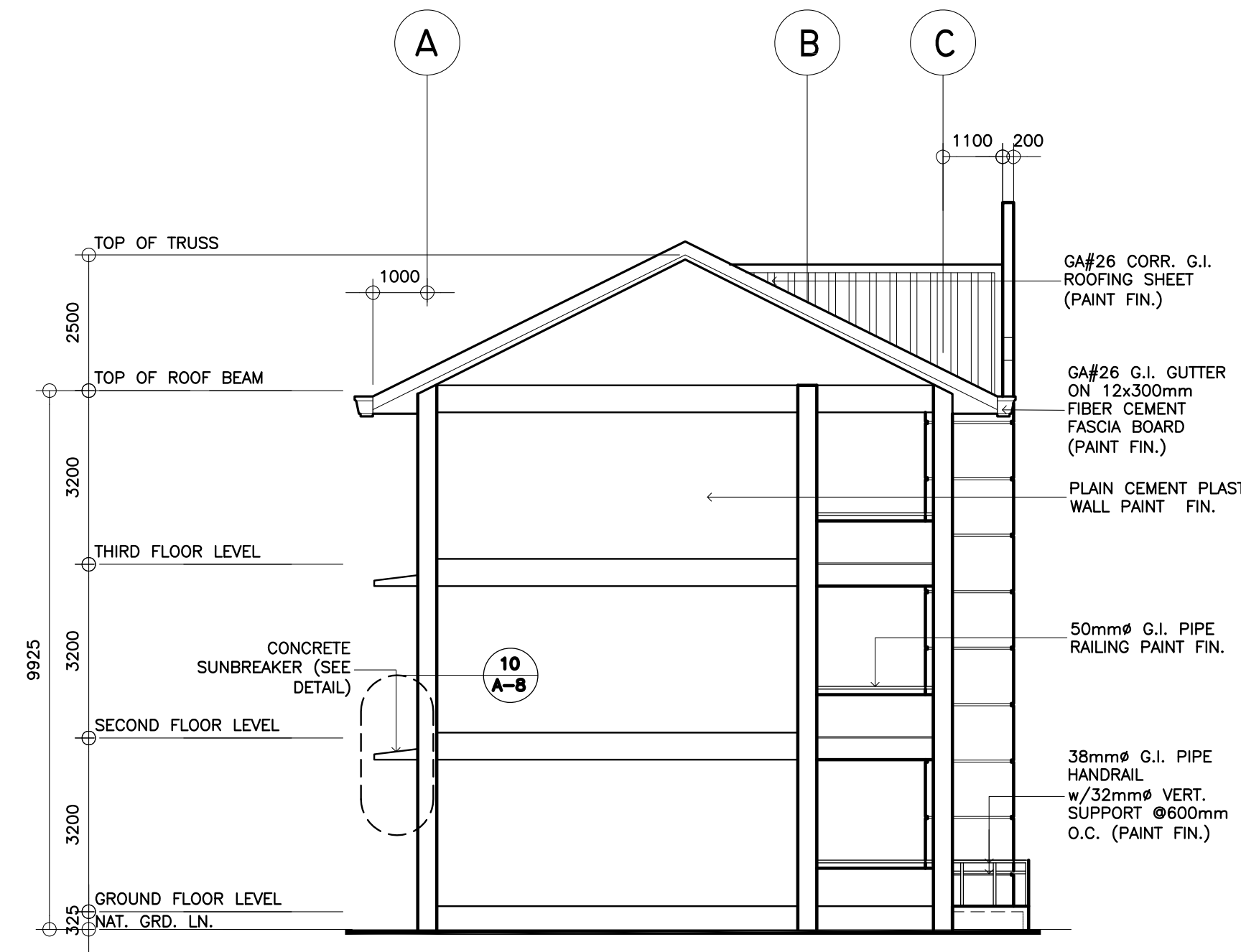
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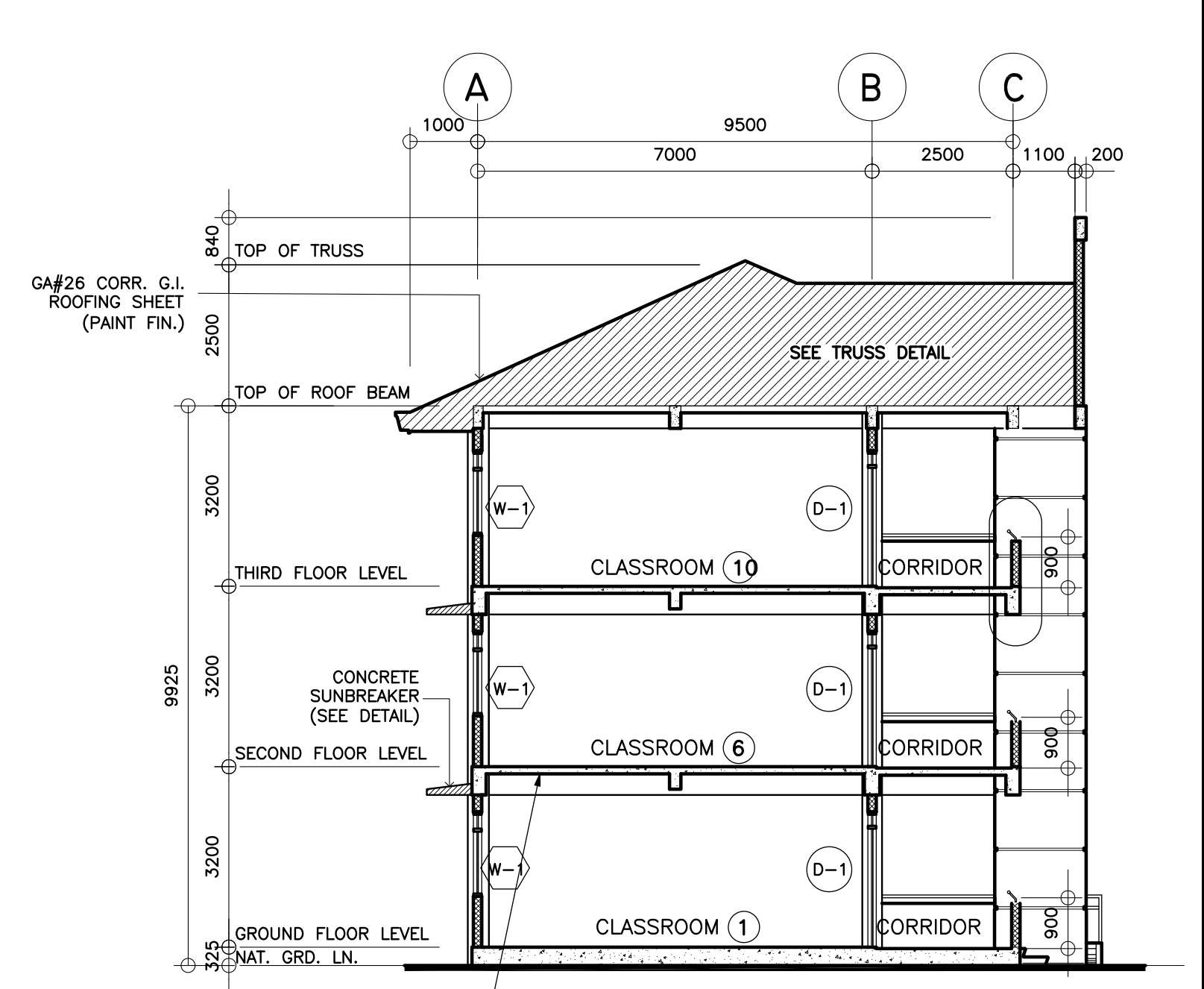
4 LONGITUDINAL SECTION
A-4 SCALE : 1 : 100 METERS



1 RIGHT SIDE ELEVATION
A-4 SCALE : 1 : 100 METERS



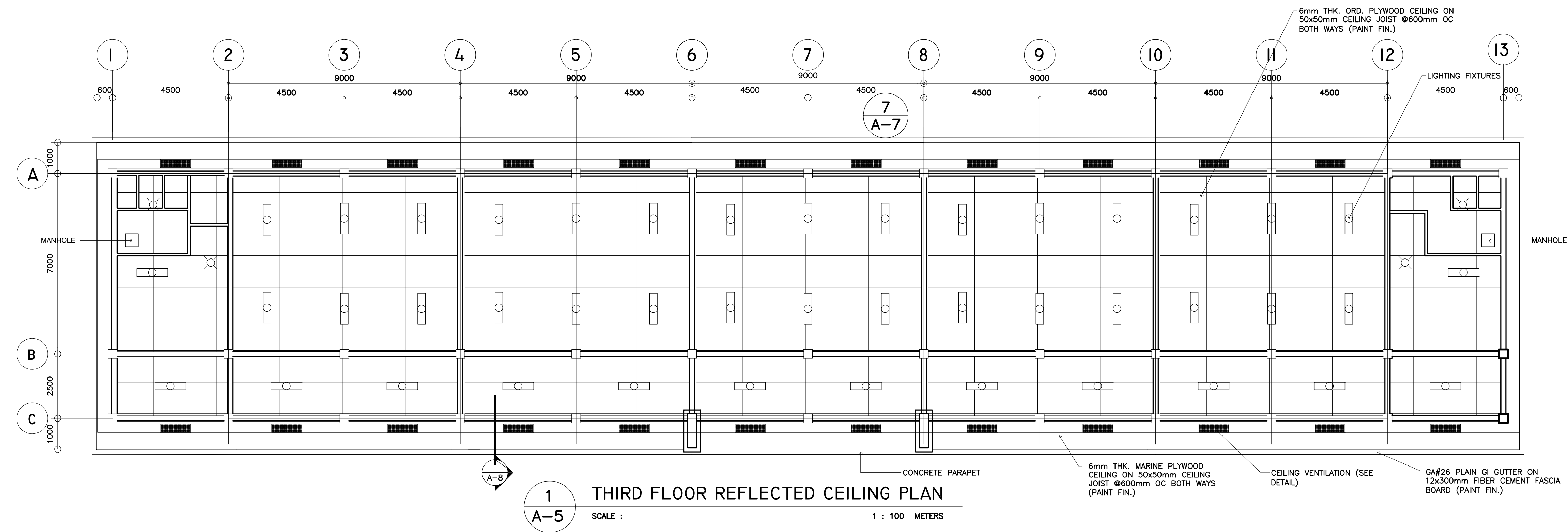
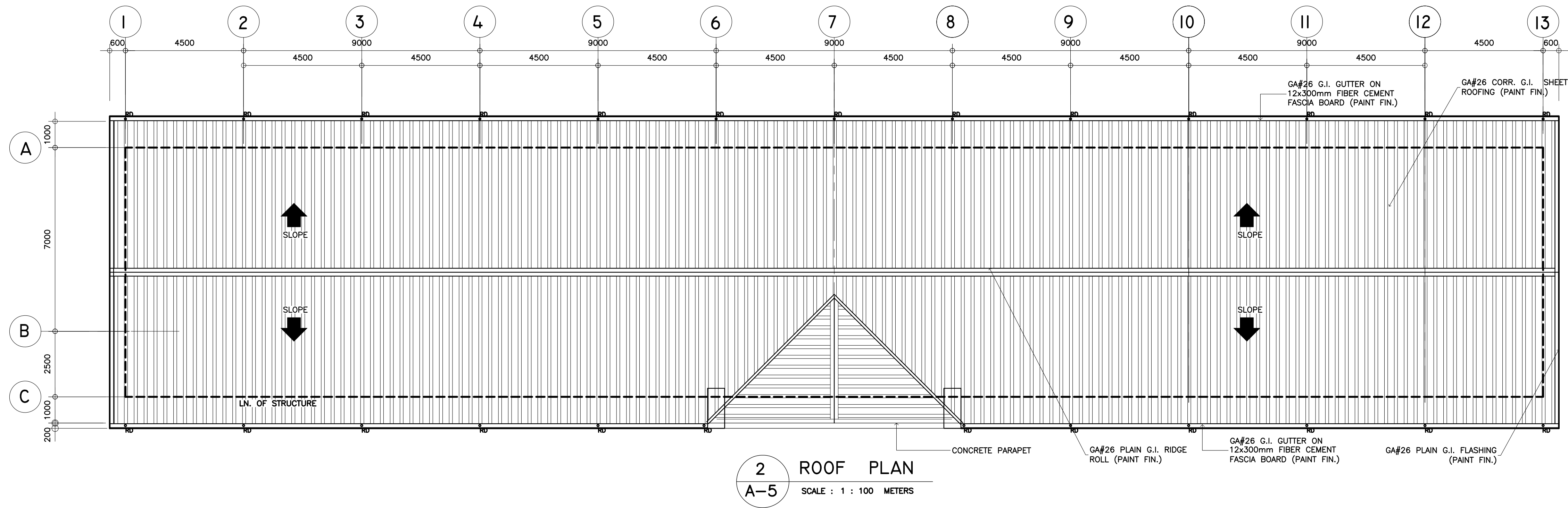
2 LEFT SIDE ELEVATION
A-4 SCALE : 1 : 100 METERS



3 CROSS SECTION
A-4 SCALE : 1 : 100 METERS

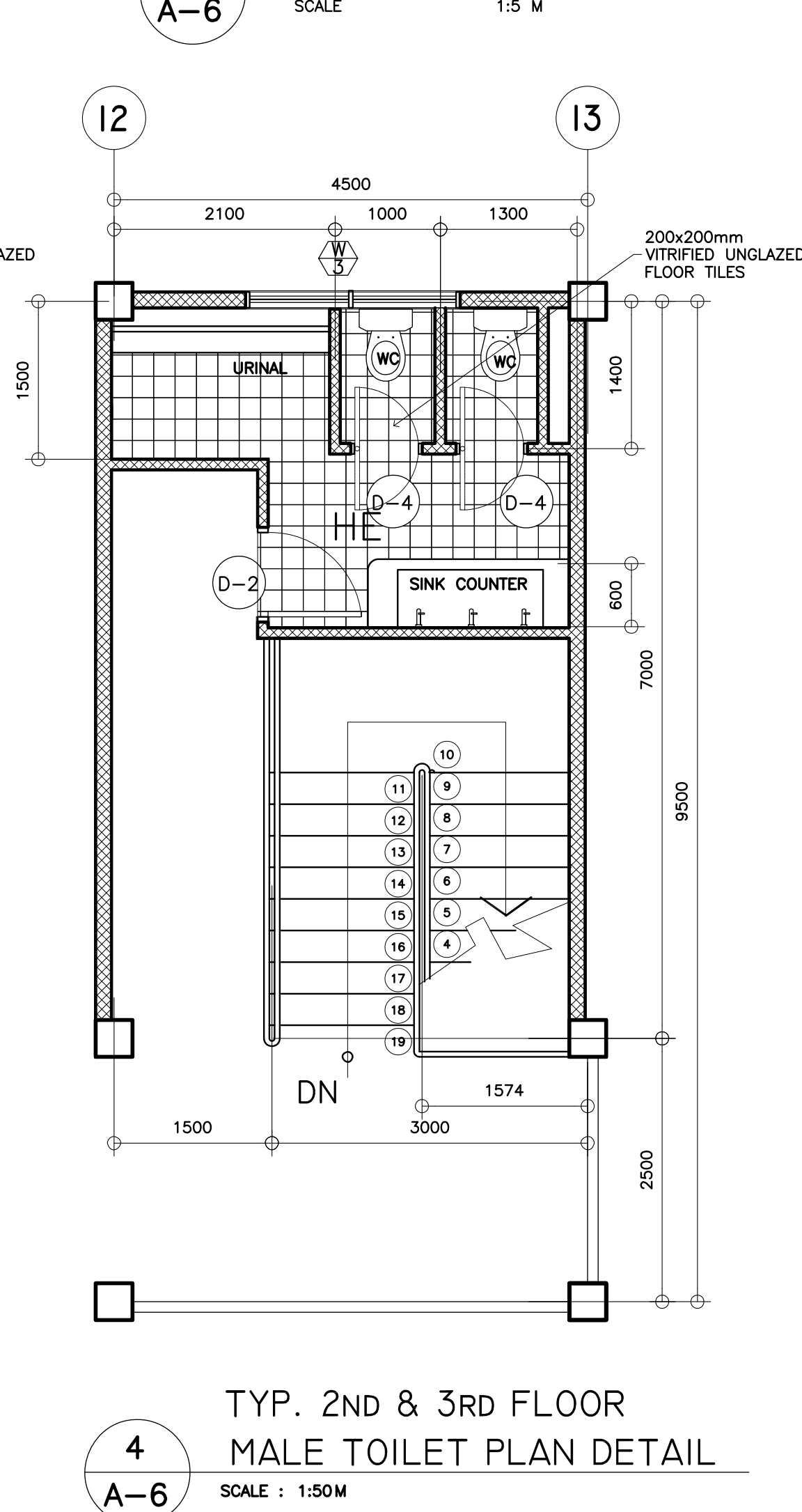
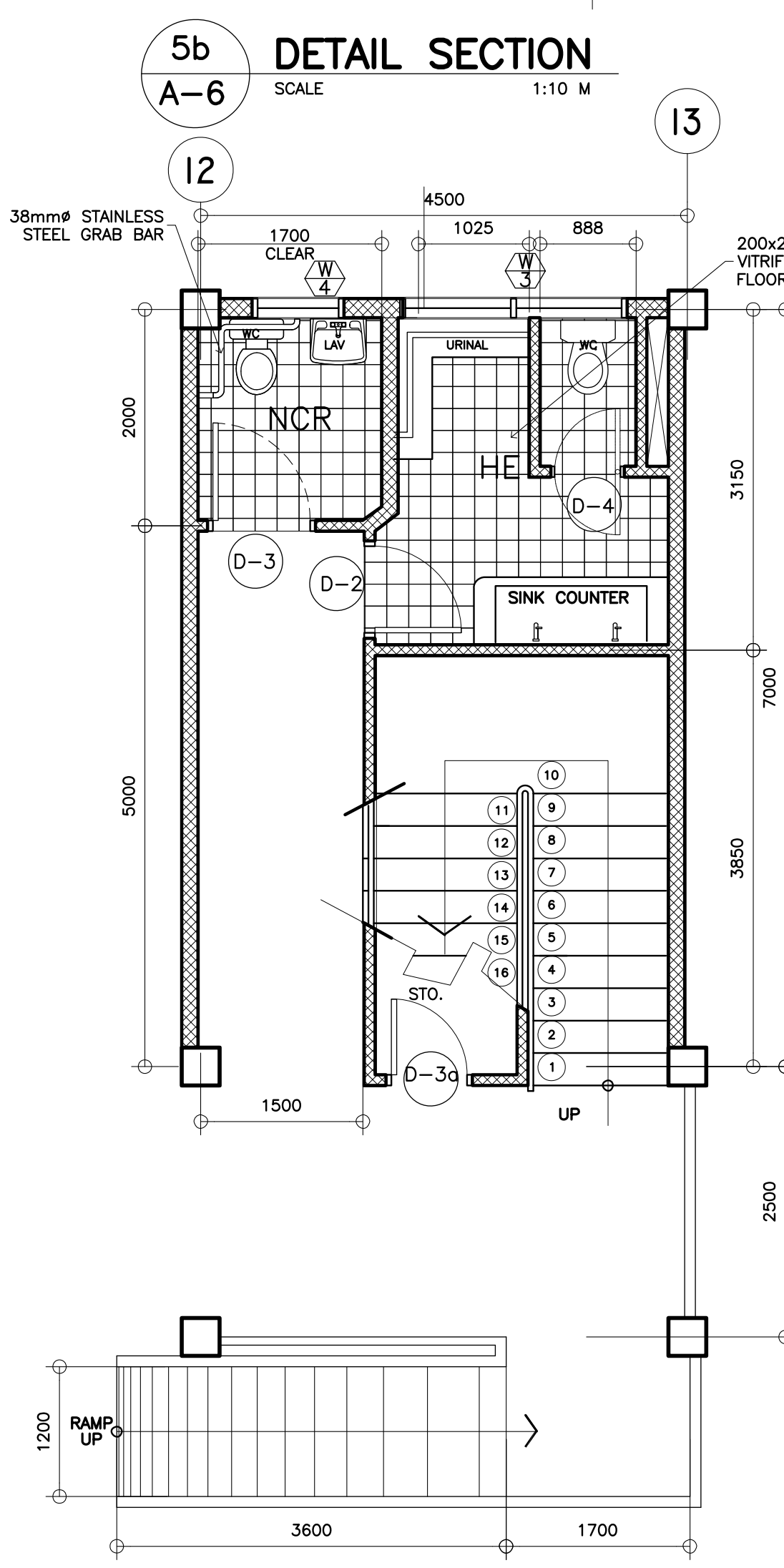
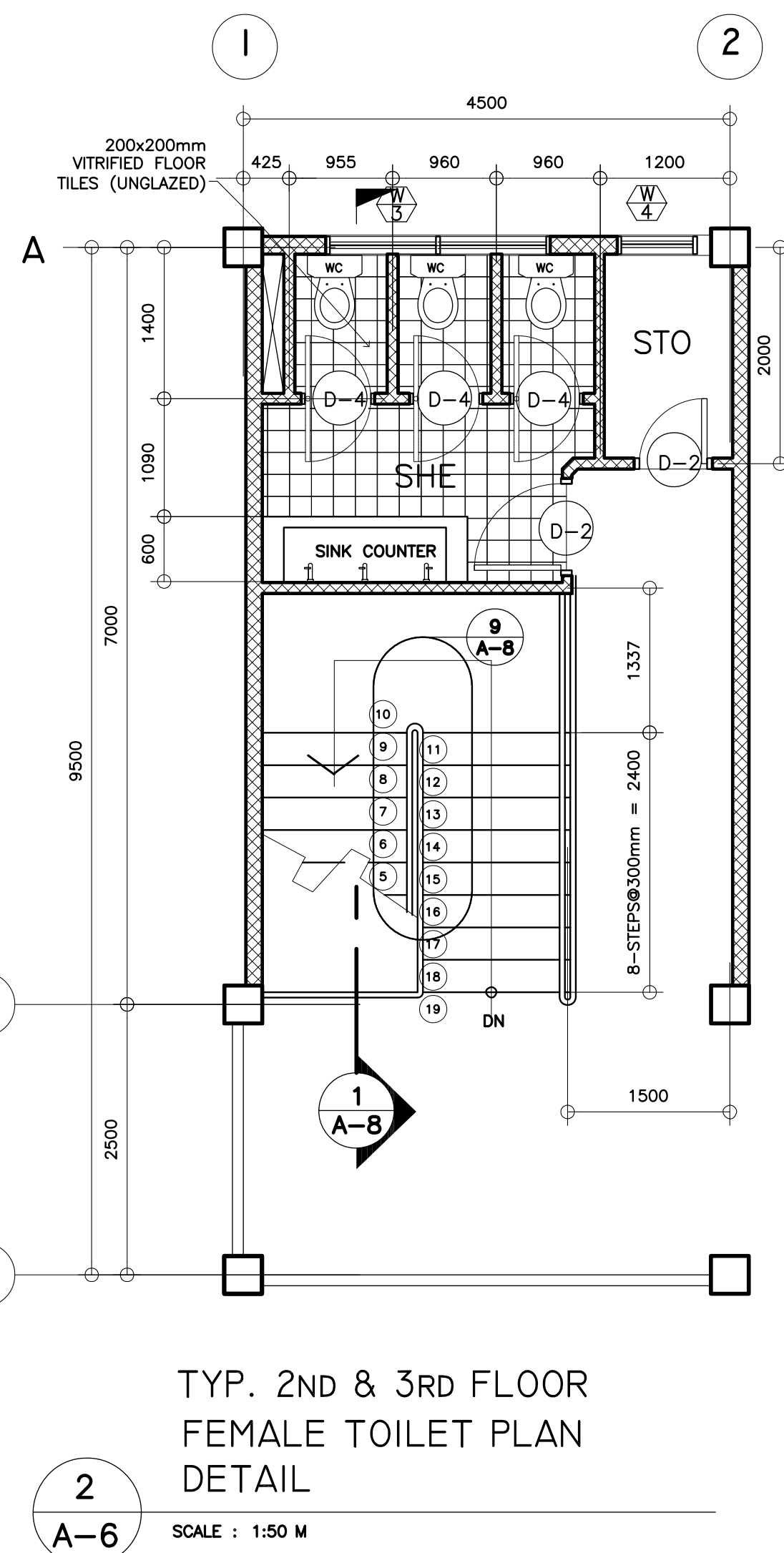
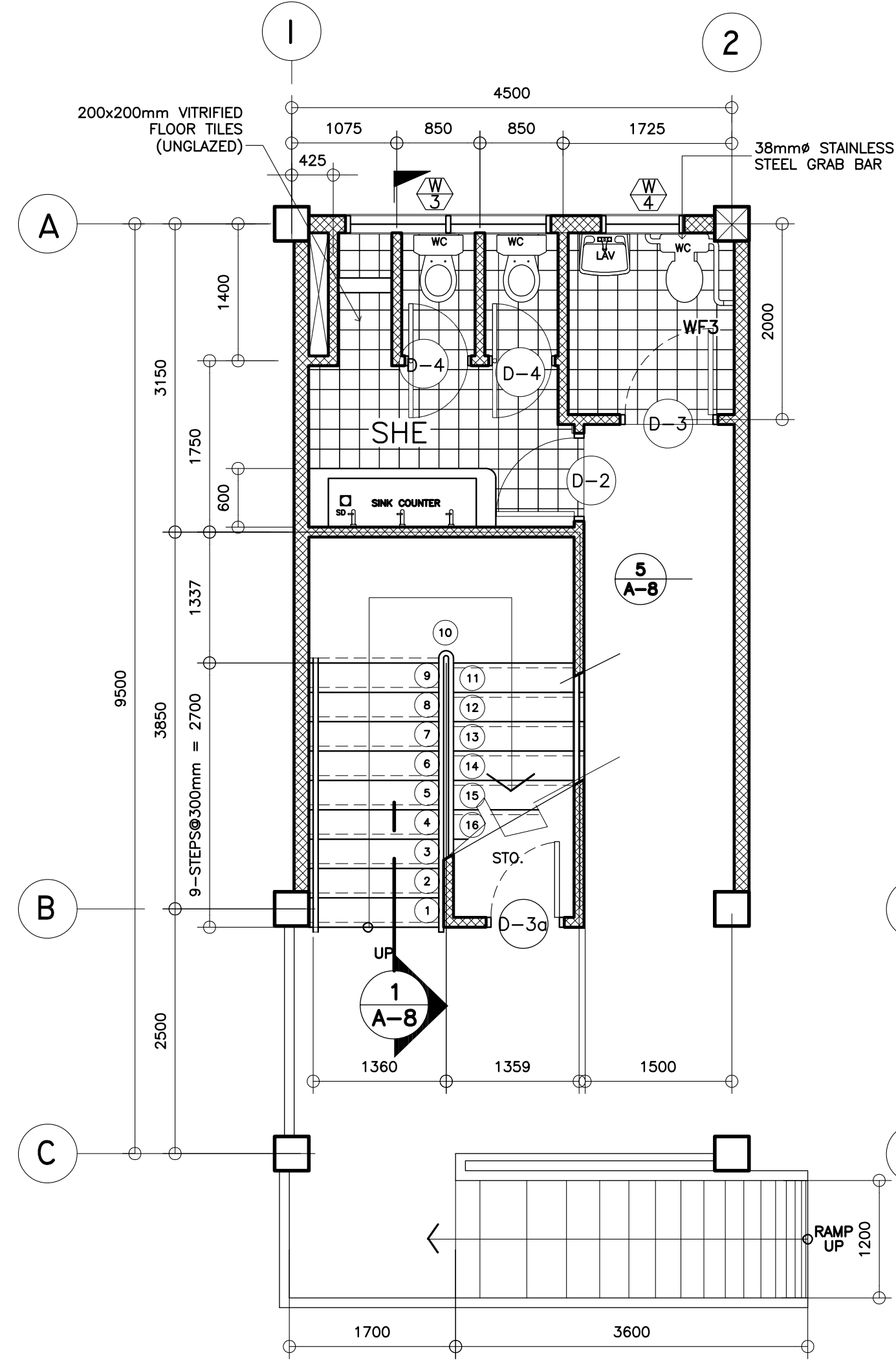
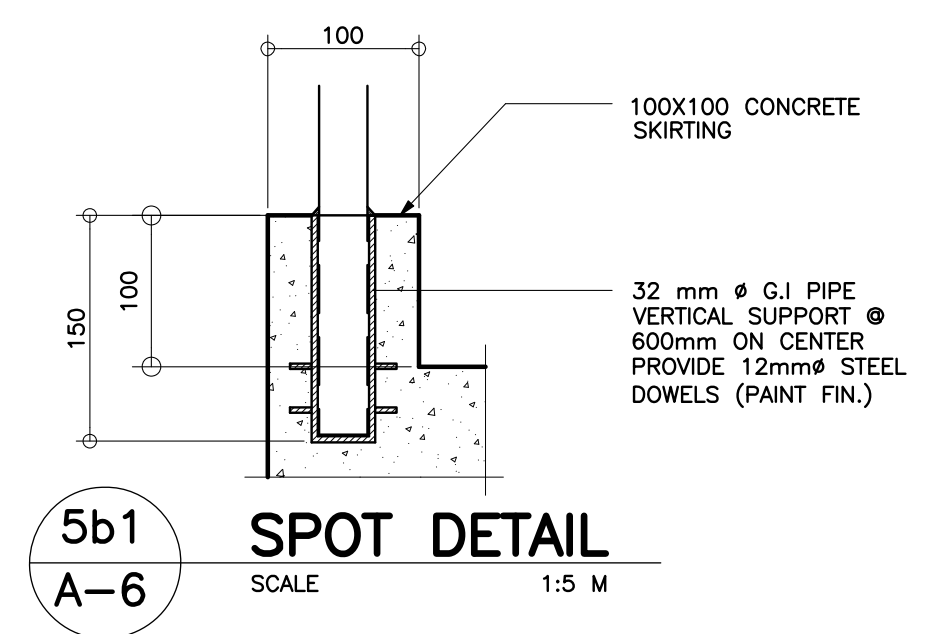
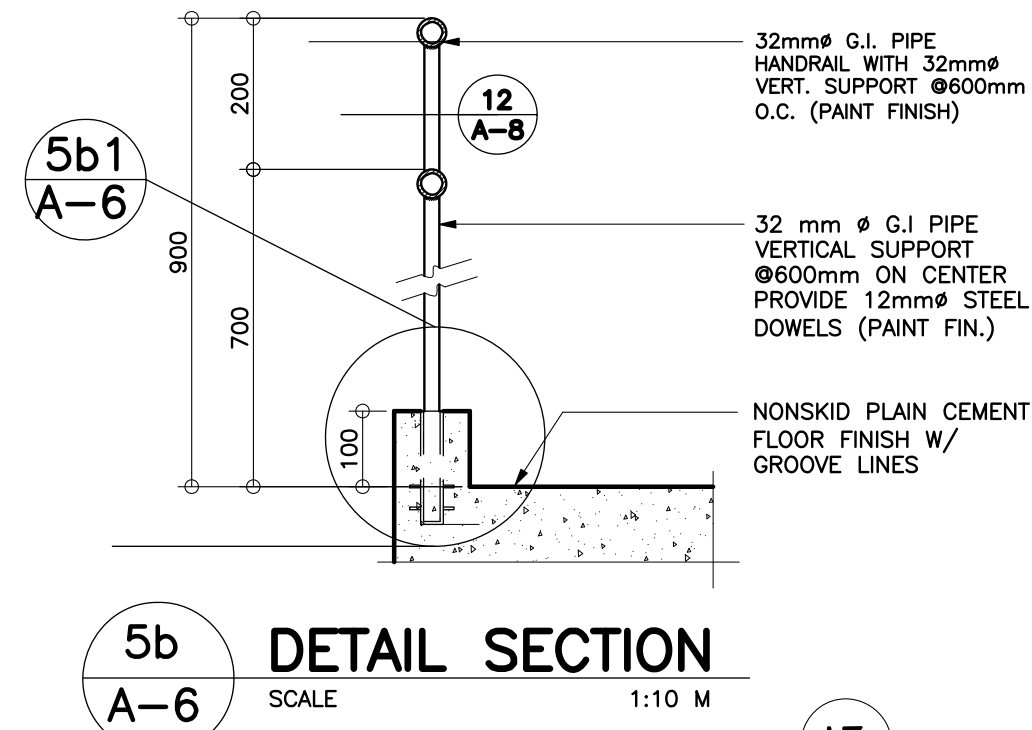
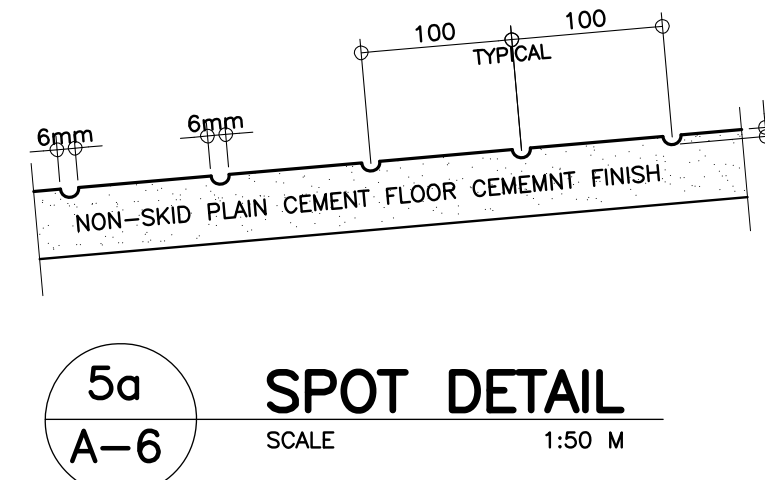
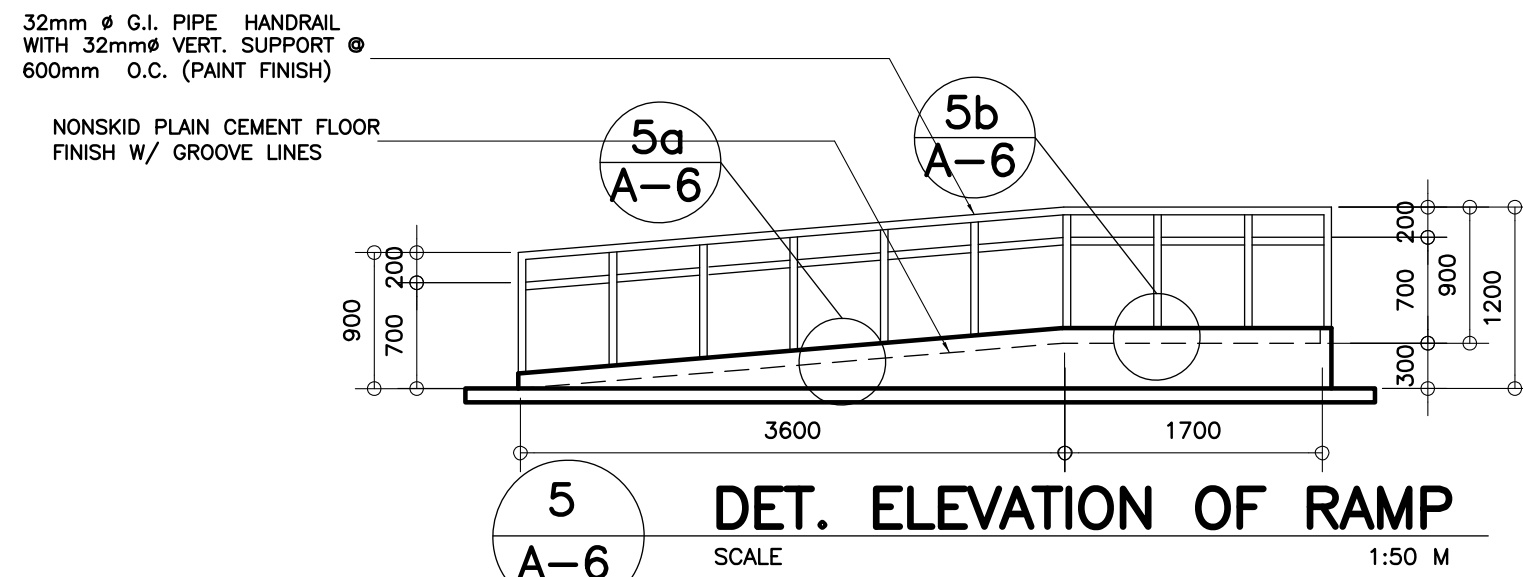
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	<p>CONSULTANT / DESIGNER ALBERT Z. DE BELEN ARCHITECT IV PRC NO. : 0010990 TIN : 149 460 161 PTR NO. : DATE : 27 OCT. 2002</p>	<p>REVIEWED BY: EMANUEL M. MONTAPAY CHIEF / ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH</p>	<p>RECOMMENDING APPROVAL : SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</p>	<p>APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</p>	<p>CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</p>	<p>PROJECT TITLE : THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING</p>	<p>PROJECT NO: 01-002 DESIGNED BY: AZB ENCODED BY: Max C CHECKED BY: DATE : 01 03</p>	<p>OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : RIGHT & LEFT SIDE ELEV., LONGITUDINAL & CROSS SECTION</p>	<p>SHEET NO: A-4 9</p>
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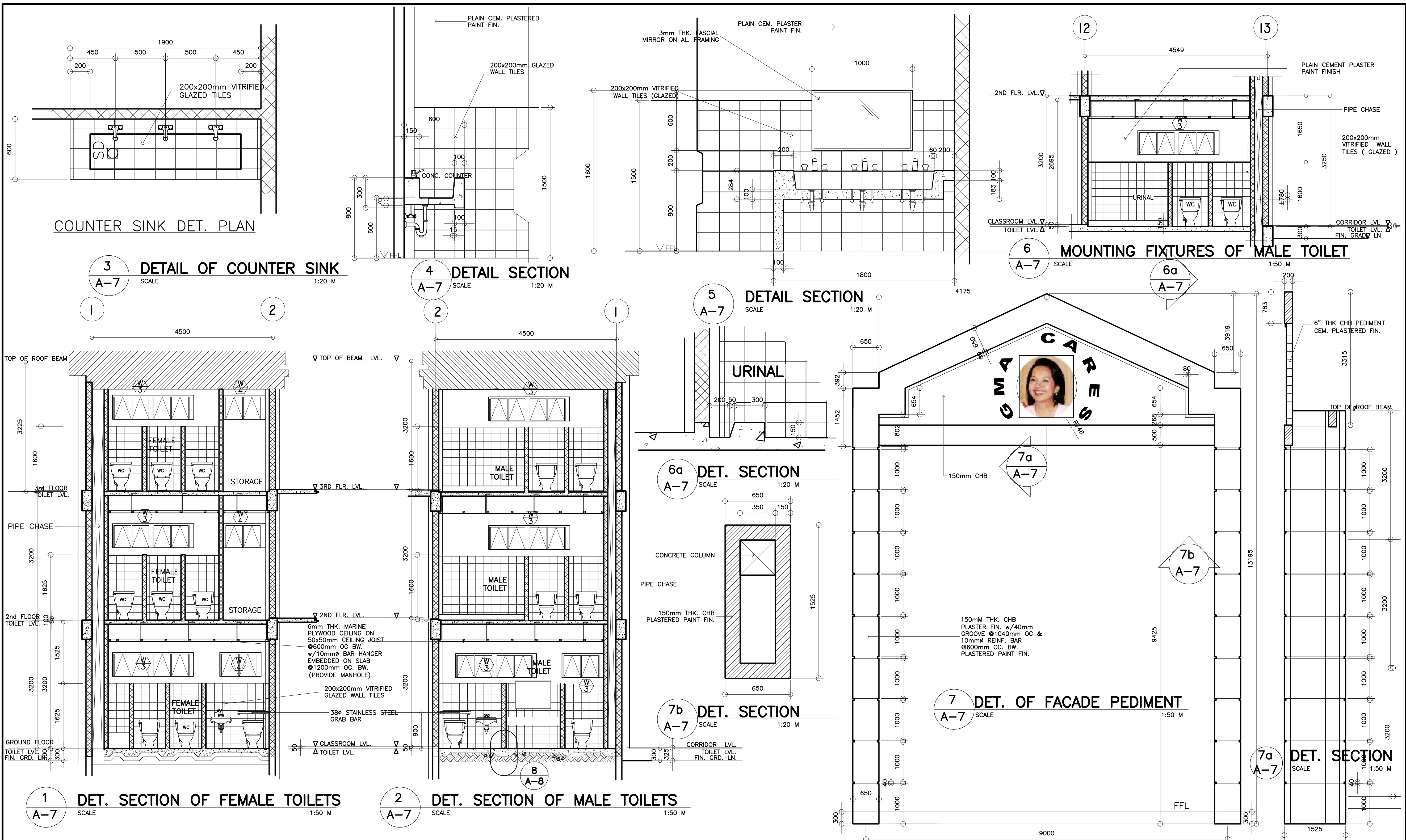
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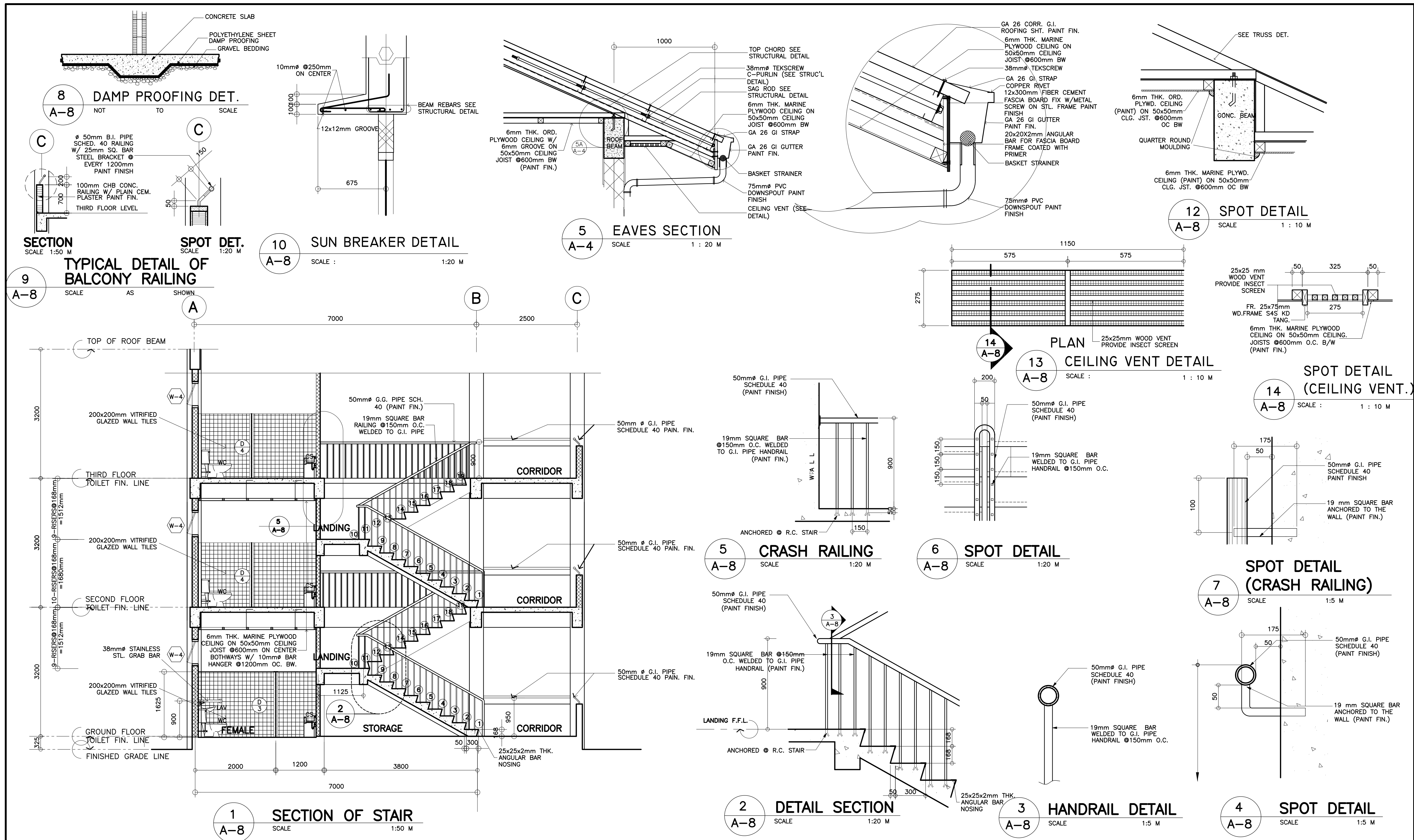
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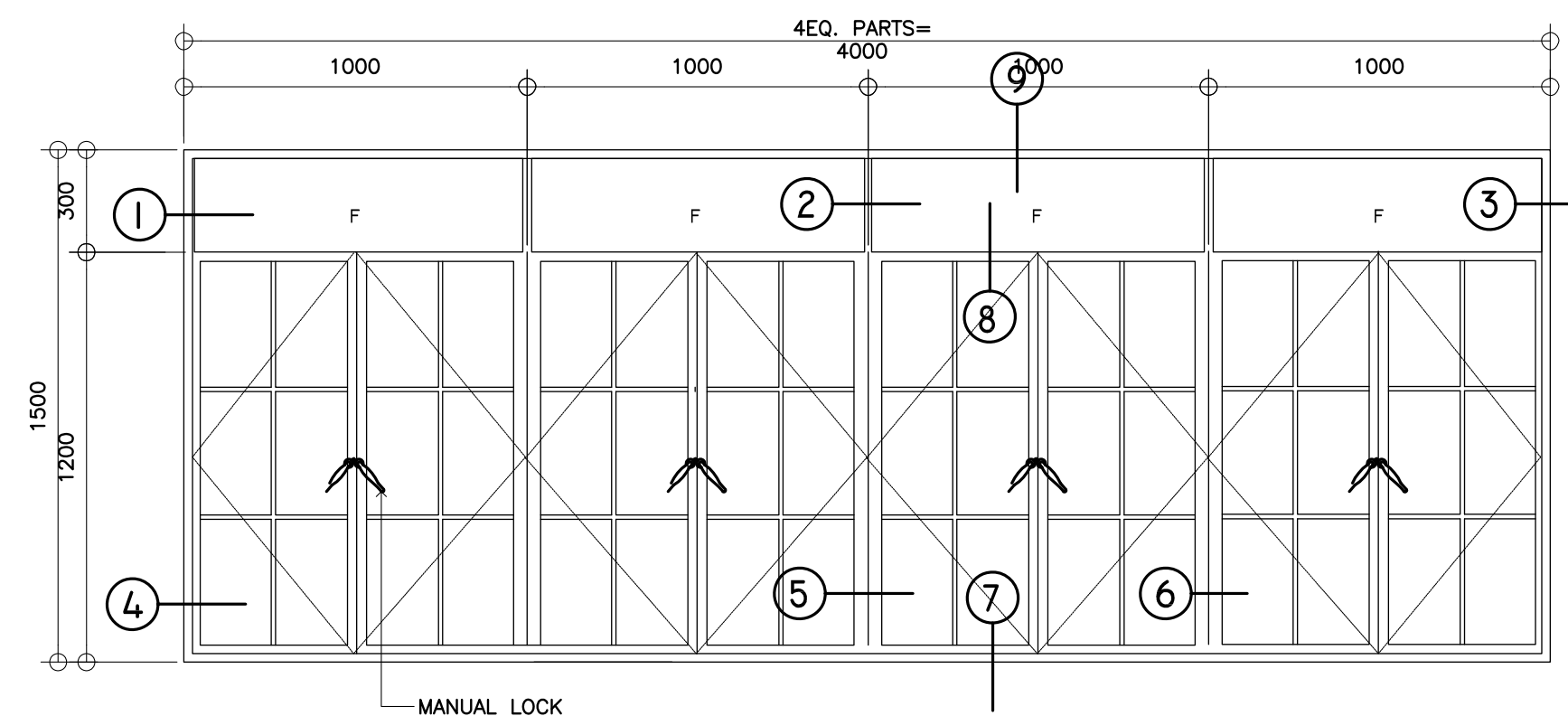
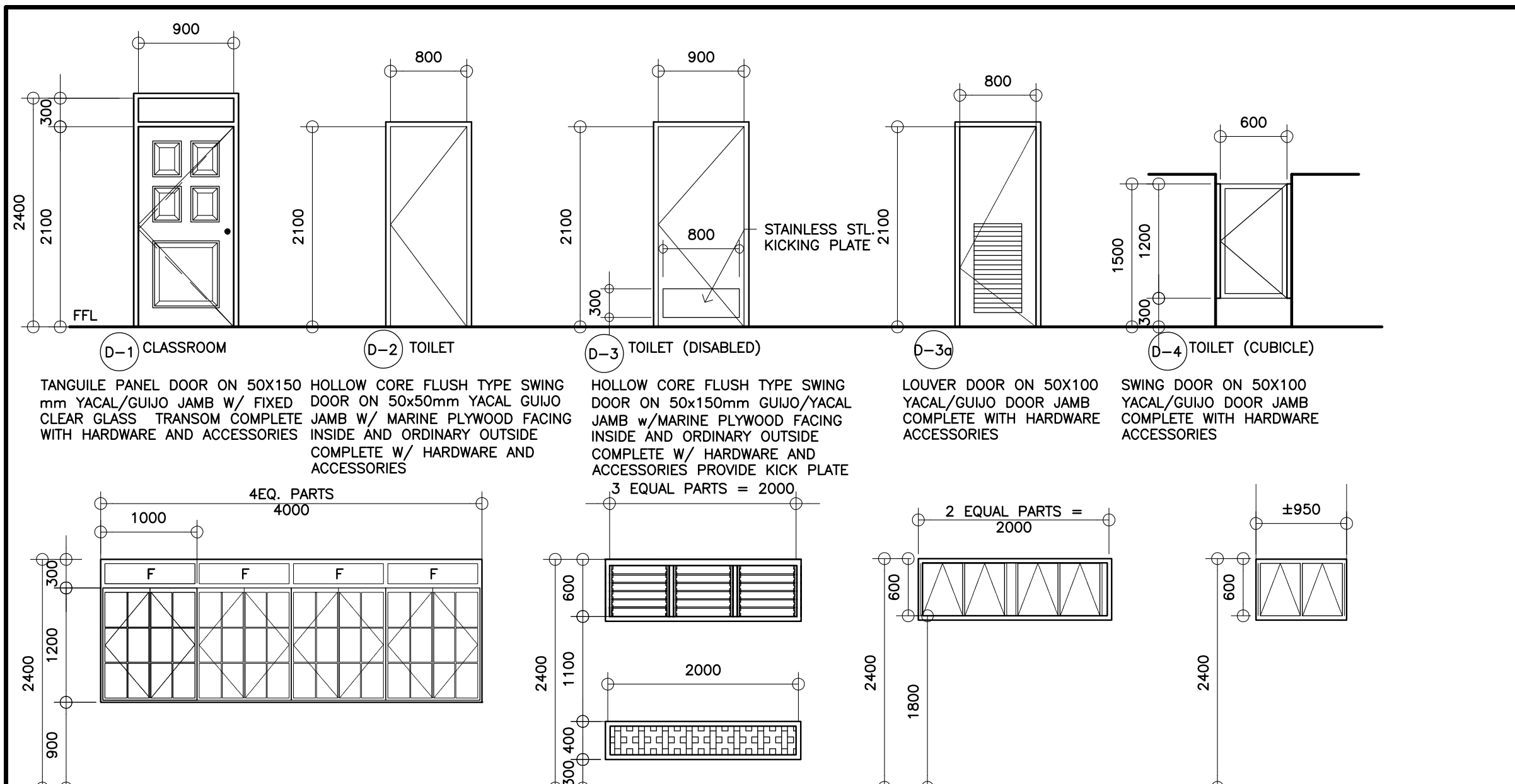
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	<div> ALBERT Z. DE BELEN ARCHITECT IV PRC NO. : 0010990 TIN : 149 460 161 PTR NO. : DATE : 27 OCT. 2002</div>		<div> BENJAMIN B. MONTIPAY CHIEF ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH</div>	<div> SOPIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</div>	<div> GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</div>	<div> RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</div>	THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING	DESIGNED BY: AZB ENCODED BY: Max C CHECKED BY: DATE : 01 03	DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : STAIR, HANDRAIL & MISC. DETAILS	<div>A-8</div> <div>9</div>	

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GENERAL NOTES

1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS 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 DONE UNDER THE 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 GAGE 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 — 1.50 M ABOVE FINISH FLOOR

d. FIRE ALARM STATION OUTLET — 1.50 M. ABOVE FINISH FLOOR

e. PUSH BUTTON OUTLET — 1.20 M ABOVE FINISH FLOOR

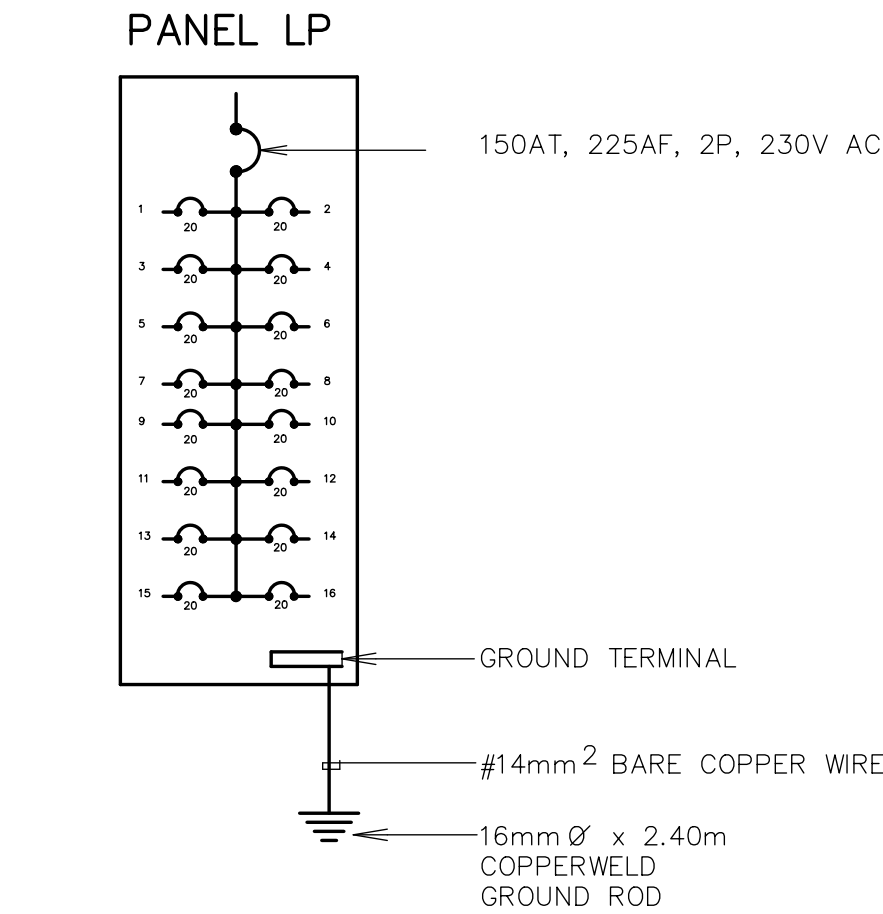
f. FIRE ALARM & VIBRATING BELL — 0.30 M BELOW CEILING LINE

LEGEND

SYMBOL	DESCRIPTION
	— CEILING LIGHT OUTLET
	— 2 x 40 WATTS FLUORESCENT LAMP
	— CEILING FAN OUTLET
S/5a	— ONE GANG DEVICE SWITCH
S/5b	— TWO GANG DEVICE SWITCH
S/5c	— THREE GANG DEVICE SWITCH
S/3W	— THREE WAY DEVICE SWITCH
S/f	— FAN CONTROL SWITCH
S/EF	— EXHAUST FAN SWITCH
	— RACEWAY CONDUIT CONCEALED IN CEILING
	— RACEWAY CONDUIT CONCEALED UNDER FLOOR
	— PANELBOARD
	— CKT. BREAKER, RATING AS INDICATED
	— DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	— EXHAUST FAN OUTLET, SINGLE, GROUNDING TYPE 10 AMPS, 250 VOLT WITH MODERN PLATE COVER
	— HOMERUN DIRECT TO PANELBOARD
	— PUSH BUTTON
	— ENCLOSED AIR CIRCUIT BREAKER
	— FIRE ALARM CONTROL PANEL
	— FIRE ALARM STATION OUTLET
	— VIBRATING BELL OUTLET
	— FIRE ALARM BELL
	— SERVICE METER
	— SERVICE ENTRANCE

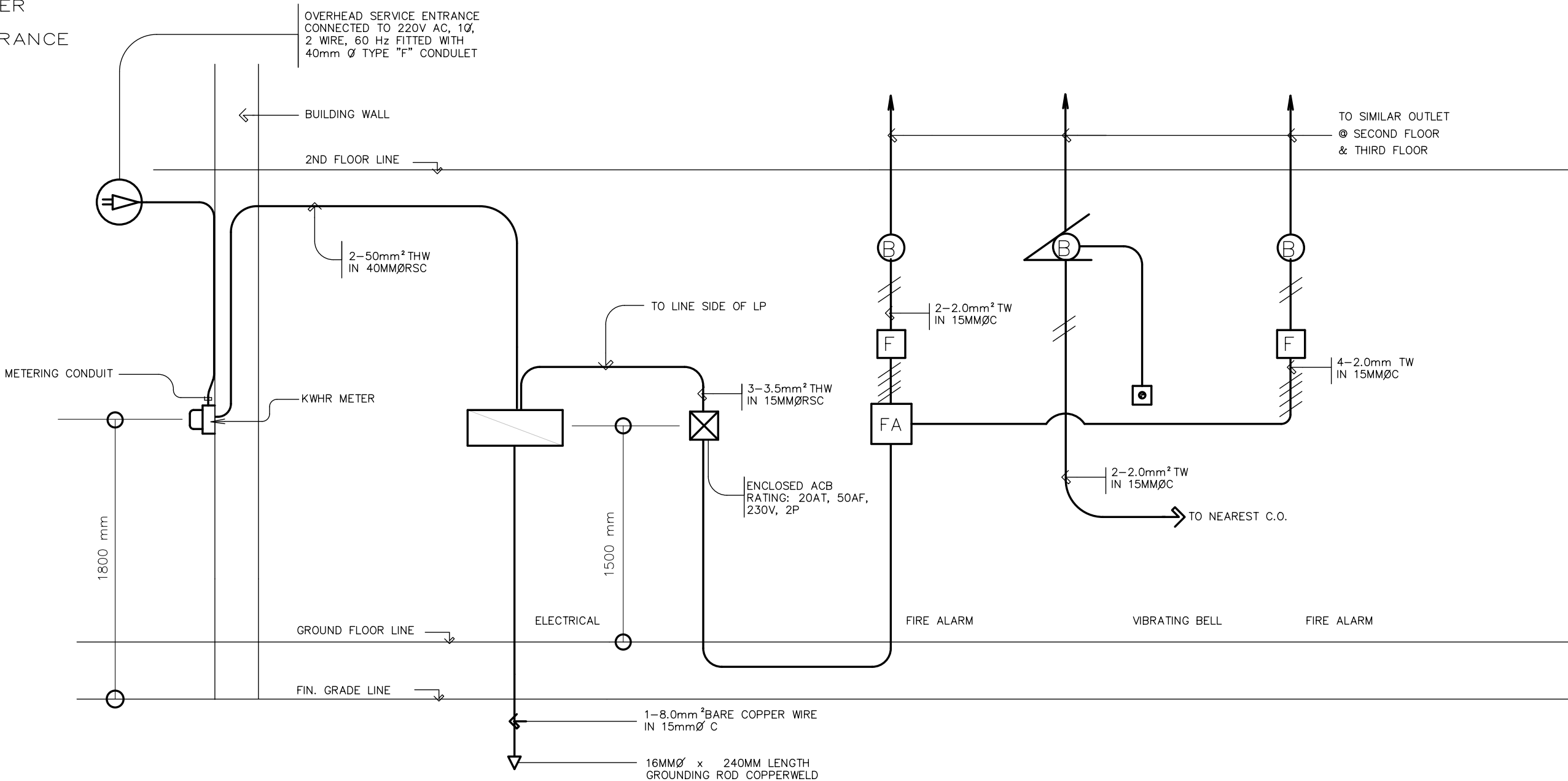
LOAD SCHEDULE

PANELBOARD: LP							
MOUNTING: FLUSH			TYPE: BOLT-ON		MAIN : 150AT, 225AF, 2P, 230V		
CKT. NO.	DESCRIPTION	VA LOAD	CIRCUIT BREAKER				WIRE & CONDUIT SIZE
			VOLT	POLE	A T	A F	
1	LIGHTING OUTLET	1860	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
2	LIGHTING OUTLET	1500	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
3	LIGHTING OUTLET	1000	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
4	CONVENIENCE OUTLET	1260	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
5	CONVENIENCE OUTLET	1260	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
6	LIGHTING OUTLET	1760	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
7	LIGHTING OUTLET	1500	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
8	LIGHTING OUTLET	1000	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
9	CONVENIENCE OUTLET	1260	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
10	CONVENIENCE OUTLET	1260	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
11	LIGHTING OUTLET	1760	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
12	LIGHTING OUTLET	1500	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
13	LIGHTING OUTLET	1000	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
14	CONVENIENCE OUTLET	1260	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
15	CONVENIENCE OUTLET	1260	230	2	20	50	3-3.5mm ² THW IN 15mm ØC
16	S P A R E	1500	230	2	20	50	—————
TOTAL		21940					
IL @ 80% D.F. = $\frac{21940 \times 80\%}{230 \text{ V}}$ x 1.25 = 95.4 A FEEDER: 2-50mm ² THW IN 40mmØC PROTECTION: 150 AT, 225 AF, 2P, 230 V							



SINGLE LINE DIAGRAM

NOT TO SCALE



RISER DIAGRAM

NOT TO SCALE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF EDUCATION (DepED)
TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING
MERALCO AVENUE, PASIG CITY



CONSULTANT / DESIGNER
VENERANDO D. SAHAGUN
ENGINEER II

PRC NO. : _____ TIN : _____
PTR NO. : _____ DATE : _____

REVIEWED BY:
FE M. BARRIENTOS
CHIEF, ELECTRICAL DIVISION
BUREAU OF DESIGN, DPWH

RECOMMENDING APPROVAL :
SOFIA T. SANTIAGO
OIC, DIRECTOR III
BUREAU OF DESIGN, DPWH

APPROVED FOR ACCREDITATION :
GILBERTO S. REYES
OIC, DIRECTOR IV
BUREAU OF DESIGN, DPWH

CONCURRED :
RAMON C. BACANI
UNDERSECRETARY
DEPARTMENT OF EDUCATION (DepED)

PROJECT TITLE :
**THREE STOREY
FIFTEEN CLASSROOM
SCHOOL BUILDING**

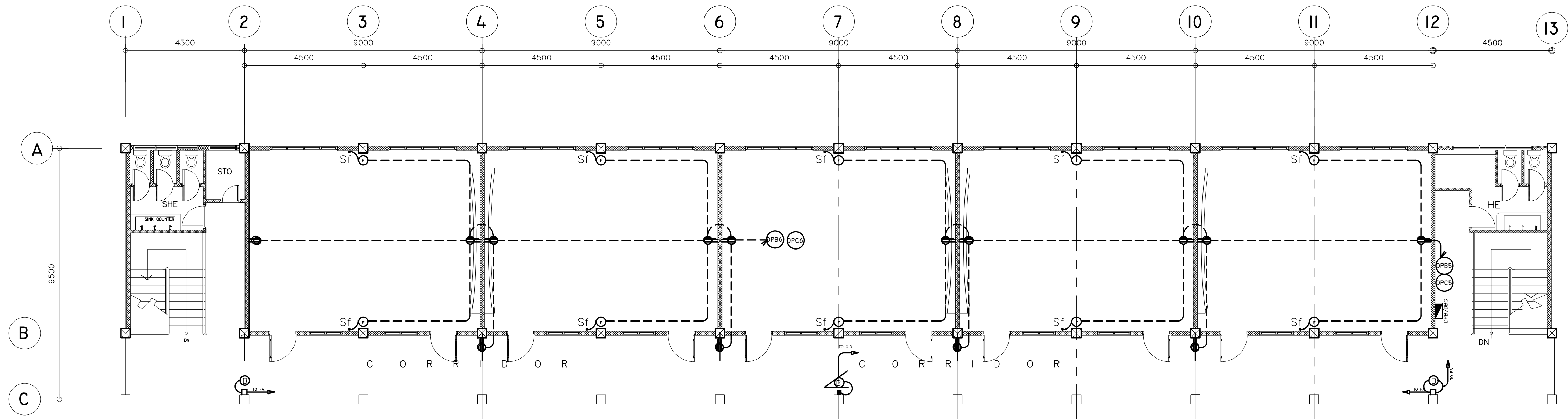
LOCATION :

PROJECT NO: 01-002
DESIGNED BY: BNA
ENCODED BY: BNA
CHECKED BY:
DATE : 01 03

OWNER :
**DEPARTMENT OF EDUCATION
DepED**

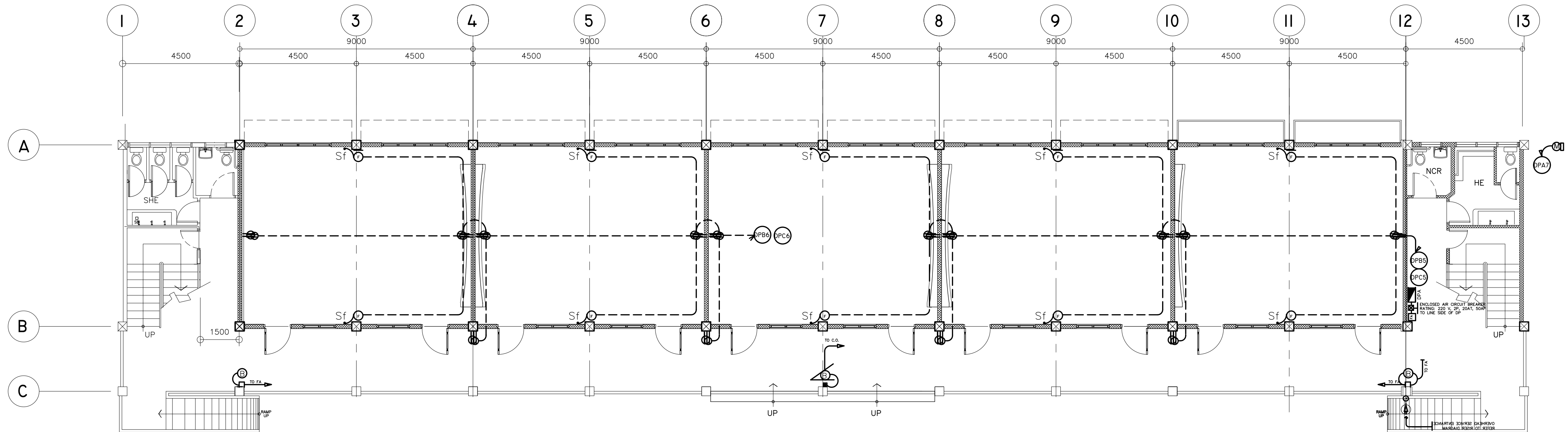
SHEET CONTENTS :
GENERAL NOTES
LOAD SCHEDULE
LEGEND
SINGLE LINE DIAGRAM
RISER DIAGRAM

SHEET NO:
**E-1
3**



TYPICAL 2ND & 3RD FLOOR POWER LAYOUT

SCALE : 1 : 100 METERS



GROUND FLOOR POWER LAYOUT

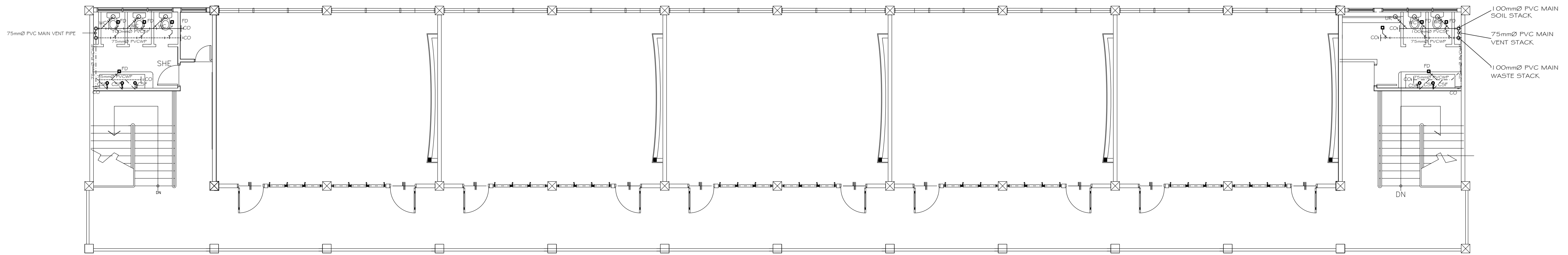
SCALE : 1 : 100 METERS

	CONSULTANT / DESIGNER VENERANDO D. SAHAGUN ENGINEER II	REVIEWED BY: FE. M. BARRIENTOS CHIEF, ELECTRICAL DIVISION BUREAU OF DESIGN, DPWH	RECOMMENDING APPROVAL : SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	CONCURRED : R. C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	PROJECT TITLE : THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING	PROJECT NO: 01-002	OWNER : DEPARTMENT OF EDUCATION DepED	SHEET NO: E-3 3
							DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY: DATE : 01 03		

THE REVIEW & APPROVAL OF THIS PLANS BY THE DPWH DOES NOT RELIEVE THE DESIGNER/CONSULTANT FROM RESPONSIBILITY FOR THE SAFETY OF THE COMPLETED FACILITIES AS WELL AS FOR THE FAILURE OF THE SAME DUE TO FAULTY DESIGN.

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PDF 1000 1000 1000

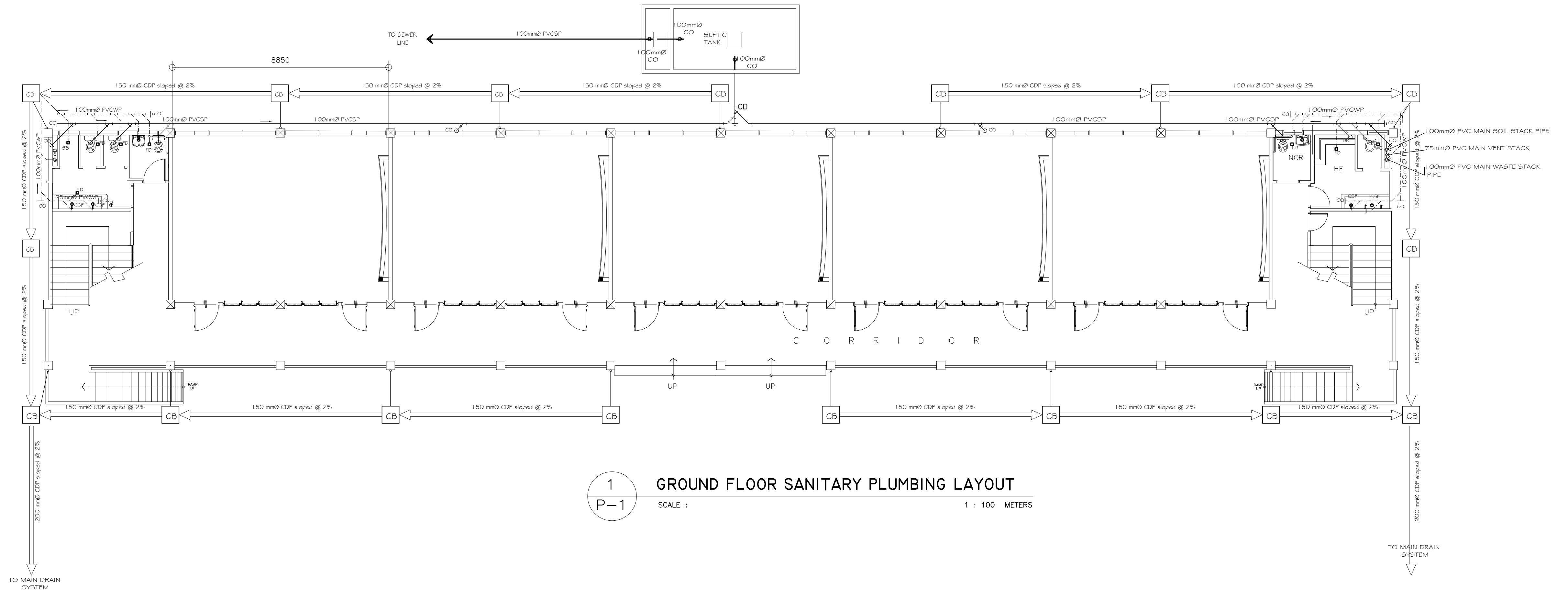


2
P-1

TYPICAL 2ND & 3RD FLOOR SANITARY PLUMBING LAYOUT

SCALE :

1 : 100 METERS



1
P-1

GROUND FLOOR SANITARY PLUMBING LAYOUT

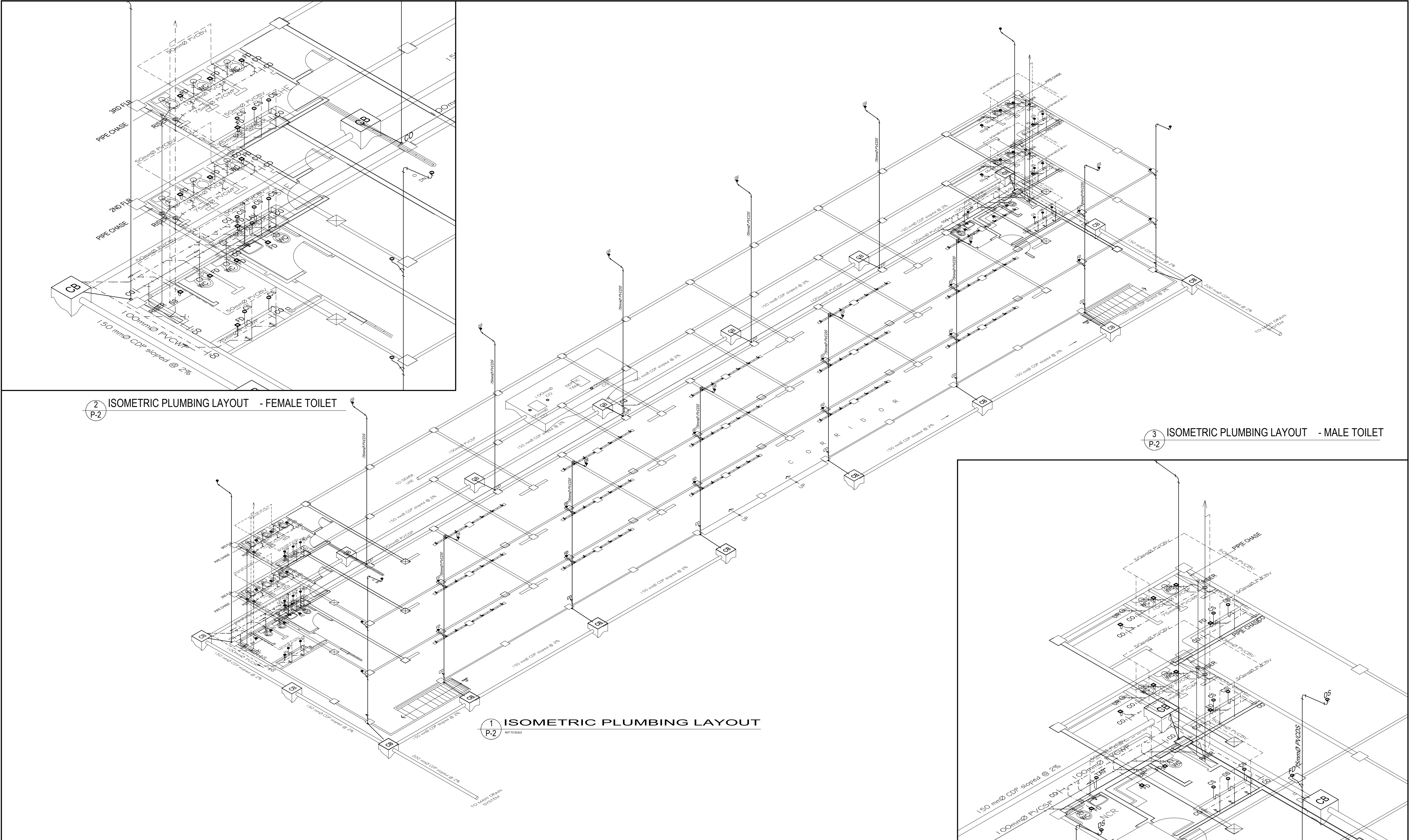
SCALE :

1 : 100 METERS

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	<p>CONSULTANT / DESIGNER ELIAS MELQUIADES EMEL B. CUBA II SANITARY ENGINEER PRC NO. : PTR NO. : TIN : DATE :</p>	<p>REVIEWED BY: EMMANUEL P. GUNTAPAY CHIEF, ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH</p>	<p>RECOMMENDING APPROVAL : SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</p>	<p>APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</p>	<p>CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</p>	<p>PROJECT TITLE : THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING LOCATION :</p>	<p>PROJECT NO: 01-002 DESIGNED BY: mmC ENCODED BY: Max C CHECKED BY: DATE : 01 03</p>	<p>OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : DRAINAGE AND SANITARY SYSTEM LAYOUT</p>	<p>SHEET NO: P-1 5</p>
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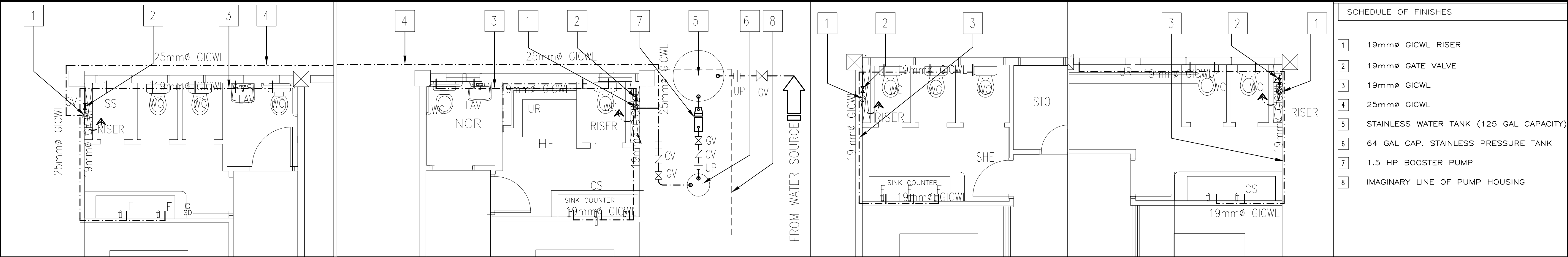
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REP. ACT 545



<div><div><div></div><div>REPUBLIC OF THE PHILIPPINES</div><div>DEPARTMENT OF EDUCATION (DepED)</div><div>TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING</div><div>MERALCO AVENUE, PASIG CITY</div></div><div><div></div><div>ELIAS MELQUIADES EMEL B. CUBA II</div><div>SANITARY ENGINEER</div><div>PRC NO. : PTR NO. : TIN : DATE :</div></div></div>	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:
						THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING	DESIGNED BY: AZB ENCODED BY: Max C CHECKED BY: DATE : 01 03	DEPARTMENT OF EDUCATION DepED	P-2
						LOCATION :		SHEET CONTENTS : DRAINAGE & SANITARY SYSTEM ISOMETRIC VIEW	5

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SCHEDULE OF FINISHES	
1	19mmØ GICWL RISER
2	19mmØ GATE VALVE
3	19mmØ GICWL
4	25mmØ GICWL
5	STAINLESS WATER TANK (125 GAL CAPACITY)
6	64 GAL CAP. STAINLESS PRESSURE TANK
7	1.5 HP BOOSTER PUMP
8	IMAGINARY LINE OF PUMP HOUSING

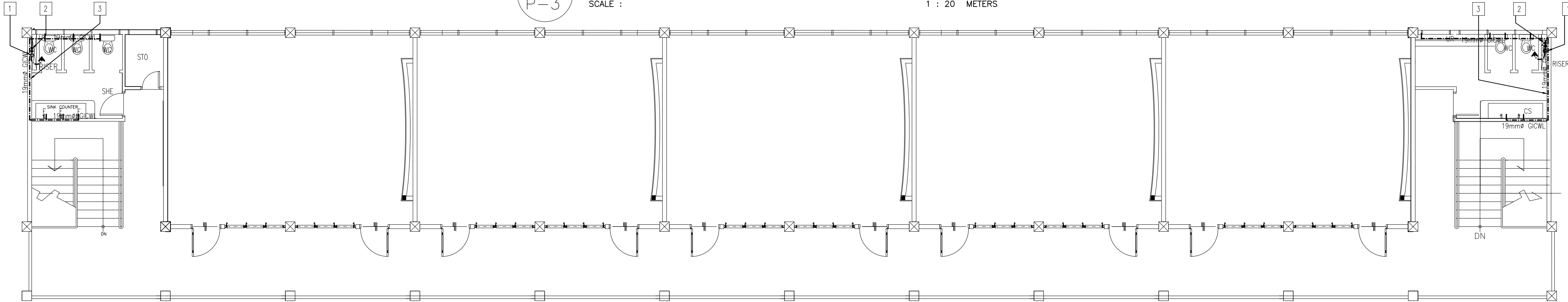
GROUND FLOOR FEMALE TOILET

GROUND FLOOR MALE TOILET

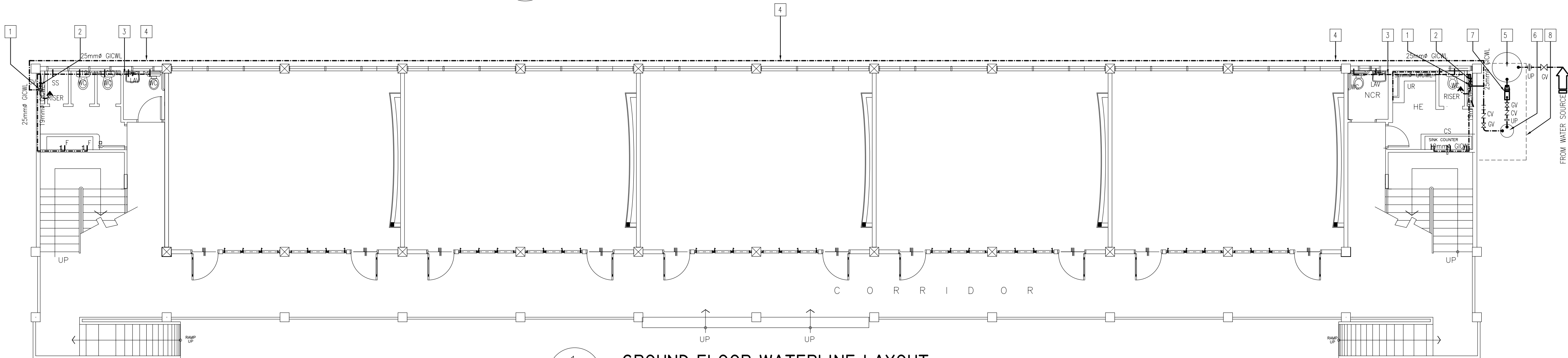
SEC. & 3RD FEMALE TOILET

SEC. & 3RD MALE TOILET

3 BLOW-UP DRAWINGS OF WATERLINE LAYOUT
SCALE : 1 : 20 METERS



2 TYPICAL 2ND & 3RD FLOOR WATERLINE LAYOUT
SCALE : 1 : 100 METERS

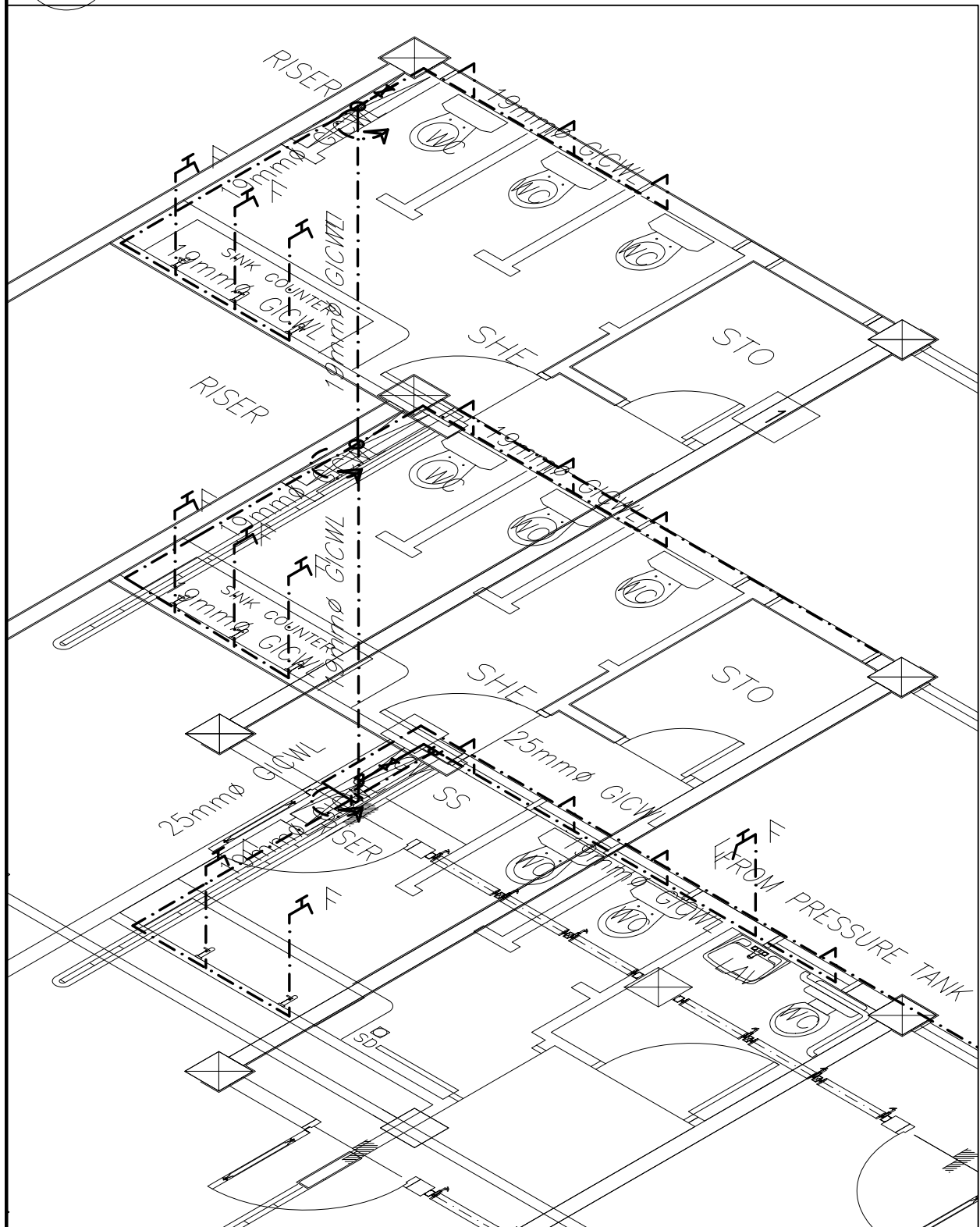


1 GROUND FLOOR WATERLINE LAYOUT
SCALE : 1 : 100 METERS

<div><div>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</div></div>	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:
	<div> ELIAS MELQUADES EMEL B. CUBA II SANITARY ENGINEER</div>	<div> EMMANUEL P. GUNTAPAY CHIEF, ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH</div>	<div> SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</div>	<div> GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</div>	<div> RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</div>	THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING	DESIGNED BY: AZB	DEPARTMENT OF EDUCATION DepED	<div> P-3 5</div>
	PRC NO. : PTR NO. : TIN : DATE :					ENCODED BY: Max C	SHEET CONTENTS :		
						CHECKED BY:	WATER SYSTEM LAYOUT		
						LOCATION :	DATE : 01 03		

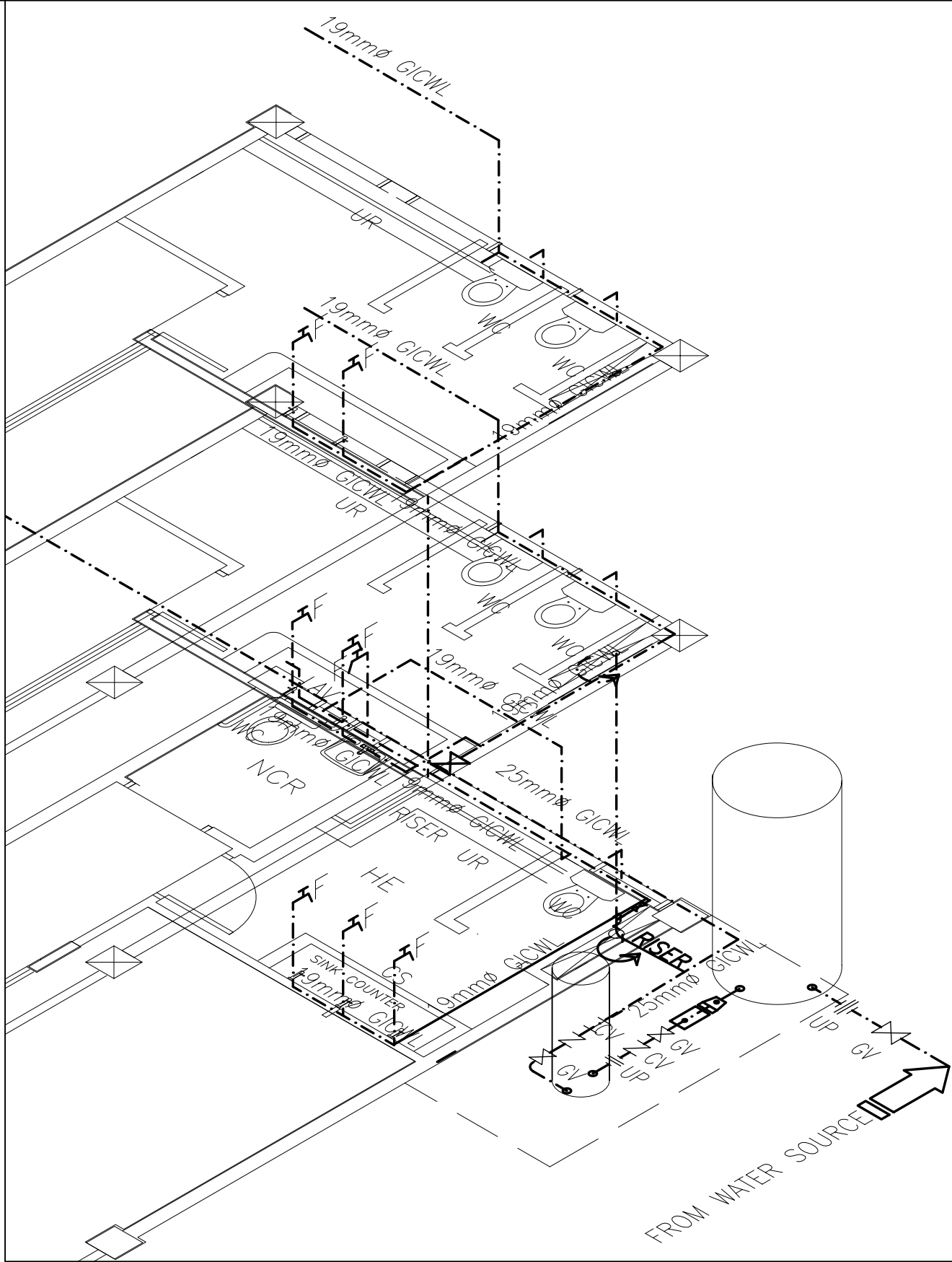
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2 FEMALE TOILET ISOMETRIC WATERLINE DIAG.
P-4 NOT TO SCALE



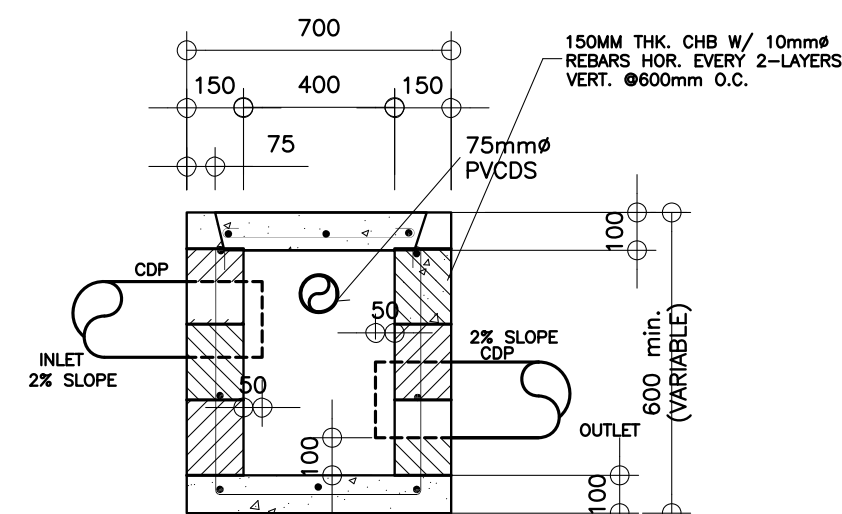
1 ISOMETRIC WATERLINE DIAGRAM
P-4 NOT TO SCALE

2 MALE TOILET ISOMETRIC WATERLINE DIAG.
P-4 NOT TO SCALE



	CONSULTANT / DESIGNER		REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:
	 ELIAS MELQUIADES EMEL B. CUBA II SANITARY ENGINEER		 EMMANUEL P. CUNTAPAY CHIEF, ARCHITECTURAL DIVISION BUREAU OF DESIGN, DPWH	 SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	 GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	 RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING	DESIGNED BY: AZB ENCODED BY: Max C CHECKED BY: DATE : 01 03	DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : WATER SYSTEM ISOMETRIC DIAGRAM	P-4 5
	PRC NO. : PTR NO. : TIN : DATE :									

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- LEGEND:**
- | | |
|----------|--|
| CB | CATCH BASIN |
| CDP | CONCRETE DRAIN PIPE |
| CO | CLEAN OUT |
| CV | CHECK VALVE |
| HB | HOSE BIBB |
| FD | FLOOR DRAIN |
| UP | UNION PATENTE |
| GICWL | GALVANIZED IRON COLD WATER LINE (SCH. 40) |
| GICWR | GALVANIZED IRON COLD WATER RISER (SCH. 40) |
| GV | GATE VALVE |
| MH | MANHOLE |
| PVCDS | POLYVINYL CHLORIDE DOWNSPOUT |
| PVCDP | POLYVINYL CHLORIDE DRAIN PIPE |
| PVCDS | POLYVINYL CHLORIDE DOWNSPOUT |
| PVCSP | POLYVINYL CHLORIDE SOIL PIPE |
| PVCVAC | POLYVINYL CHLORIDE VENT. ACROSS CEILING |
| PVCVP | POLYVINYL CHLORIDE VENT. PIPE |
| PVCVS | POLYVINYL CHLORIDE VENT STACK |
| PVCVTR/W | POLYVINYL CHLORIDE VENT TROUGH ROOF/WALL |
| PVCWP | POLYVINYL CHLORIDE WASTE PIPE |
| PVCWS | POLYVINYL CHLORIDE WASTE STACK |
| PVCSPR | POLYVINYL CHLORIDE SOIL PIPE RISER |
| RD | ROOF DRAIN |
| UD | URINAL DRAIN |
| WC | WATER CLOSET |
| LAV | LAVATORY |
| CS | COUNTER SINK |

PLUMBING NOTES:

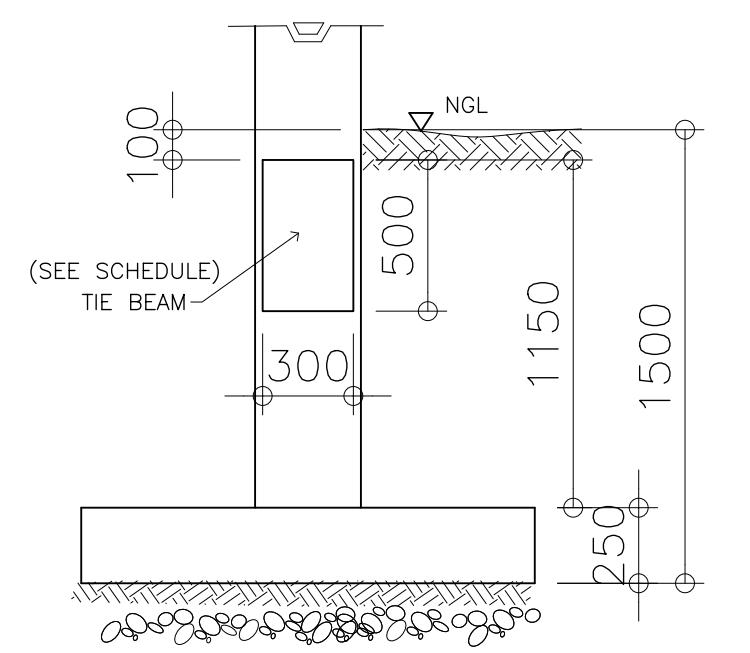
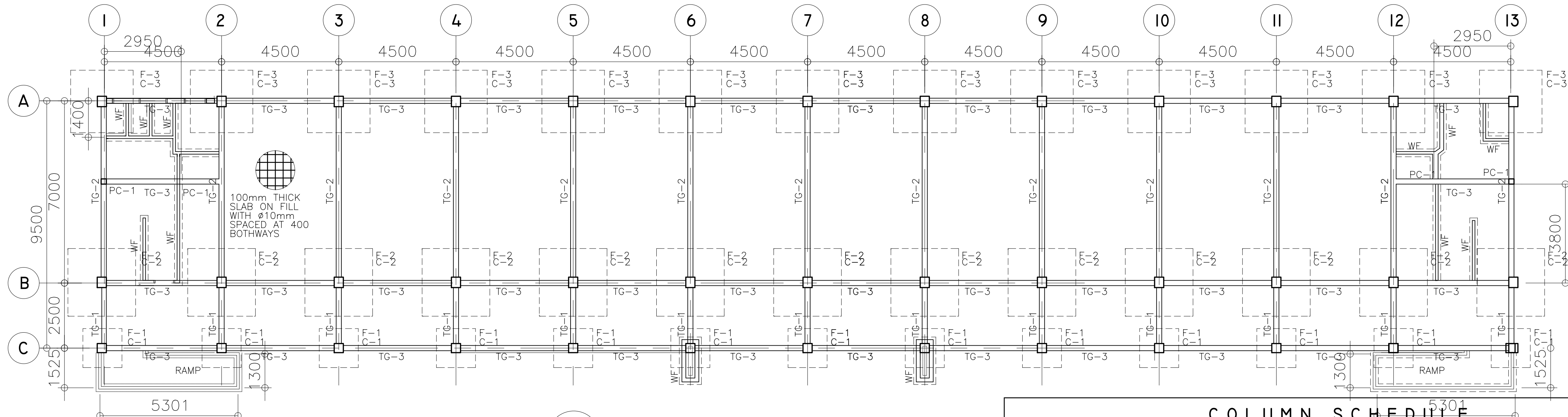
1. GRADES OF HORIZONTAL PIPINGS
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
2. CHANGE IN DIRECTION
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY-FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND, SIXTH-EIGHTH OR SIXTEENTH BEND. 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 SUPRVISION OF A LICENSED MASTER PLUMBER AND A LICENCED PLUMBING CONTRACTOR.

DESIGN CRITERIA

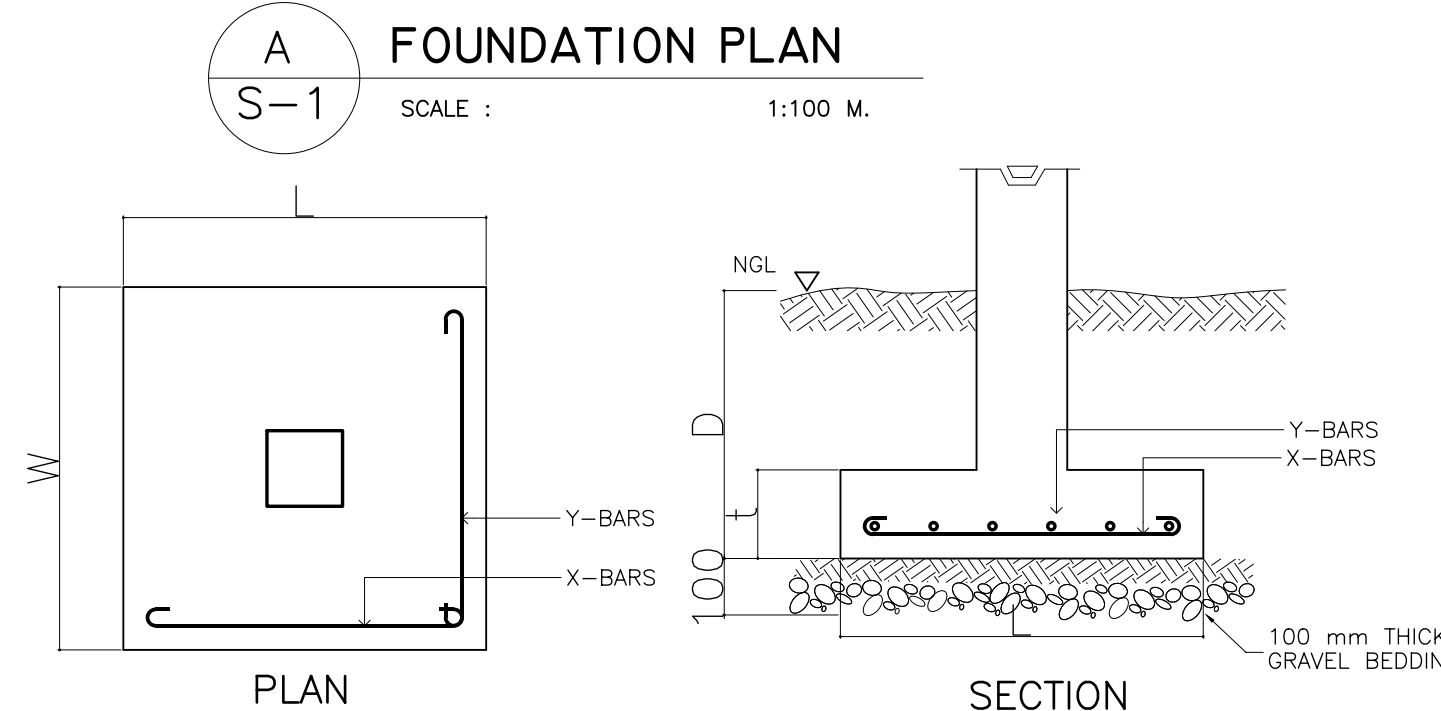
- i. LIVE LOAD_____ 1000Pa
- ii ALLOWABLE STRESSES
1. CONCRETE
 - a. FOR FOOTING, BEAMS AND SLABS
$$f_c'' = 20 \text{ MPa}$$
 2. CONCRETE MASONRY UNITS (LOAD BEARING CHB)
$$f_m' = 6.90 \text{ MPa}, f_m = 2.41 \text{ MPa}$$
 3. REINFORCING STEEL BARS
FOR BARS SMALLER THAN 16mm \emptyset
$$f_y = 230 \text{ MPa}$$
 4. ASSUMED ALLOWABLE BEARING CAPACITY $\gamma = 100\text{KPa}$

NOTE:

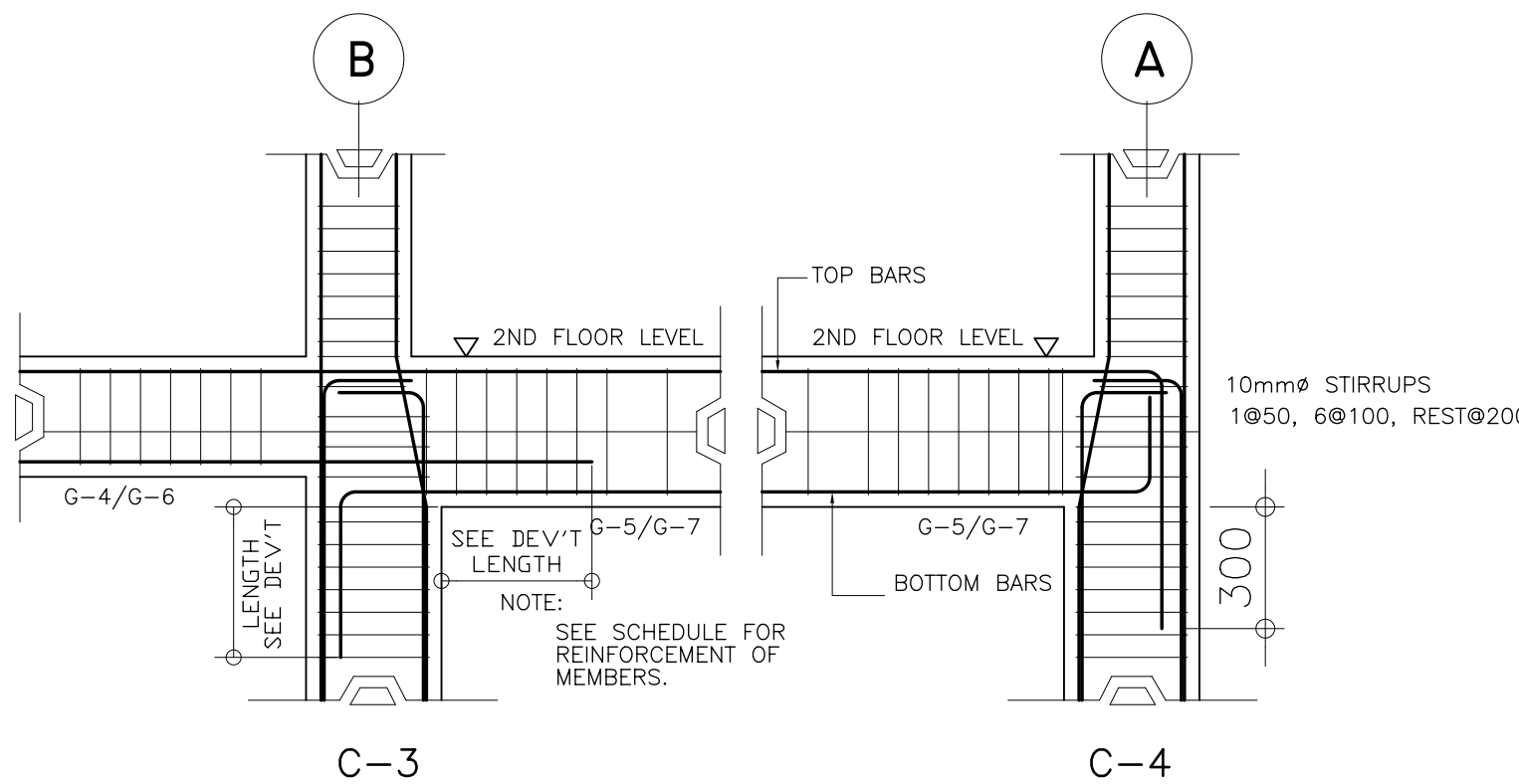
- WATER TABLE IS 1500 BELOW GROUND LEVEL.



C DETAIL OF TIE BEAM
S-1 SCALE 1:25 M



B TYP. FOOTING DETAIL
S-1 SCALE NTS



D ELEVATION OF COLUMN
S-1 SCALE 1:25 M

COLUMN SCHEDULE

LEVEL	C-1	C-2	C-3
3RD FLOOR LEVEL TO ROOF DECK LEVEL	 MAIN BAR: 6-ø16mm TIES : ø10 mm 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 8-ø20mm TIES : ø10 mm 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 8-ø20mm TIES : ø10 mm 1@50, 8@75, REST @ 150mm TO CENTER
2ND FLOOR LEVEL TO 3RD FLOOR LEVEL	 MAIN BAR: 6-ø16mm TIES : ø10 mm 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 12-ø20mm TIES : ø10 mm 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 12-ø20mm TIES : ø10 mm 1@50, 8@75, REST @ 150mm TO CENTER
FOUNDATION LEVEL TO 2ND FLOOR LEVEL	 MAIN BAR: 8-ø16mm TIES : ø10 mm 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 14-ø20mm TIES : ø10 mm 1@50, 10@75, REST @ 150mm TO CENTER	 MAIN BAR: 12-ø20mm TIES : ø10 mm 1@50, 10@75, REST @ 150mm TO CENTER

DESIGN CRITERIA

- A. CONCRETE** $f_c = 20.685 \text{ Mpa (3000psi)}$, 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. FOUNDATION** $SBP = 95.706 \text{ Kpa (2000psf)}$ was used in the design for all footings.
- No footing shall rest on fill.
- REFERENCES** NSCP 2001, ACI 318-89, AISC ((th Edition)

SCHEDULE OF FOOTING

FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)	Thickness (t)	BAR X	BAR Y	
F-1	1500	1500	1500	250	8 - 16mmø	8 - 16mmø	SQUARE FOOTING
F-2	2600	2600	1500	350	11 - 20mmø	11 - 20mmø	SQUARE FOOTING
F-3	2400	2400	1500	300	11 - 20mmø	11 - 20mmø	SQUARE FOOTING

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF EDUCATION (DepED)
TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING
MERALCO AVENUE, PASIG CITY

CONSULTANT / DESIGNER
BERNADETTE N. AQUINO
ENGINEER III
PRC NO. : 0074495 TIN : 199-674-196
PTR NO. : DATE :

REVIEWED BY:
WILFREDO S. LOPEZ
OIC, STRUCTURAL DIVISION
BUREAU OF DESIGN, DPWH

RECOMMENDING APPROVAL :
SOFIA T. SANTIAGO
OIC, DIRECTOR III
BUREAU OF DESIGN, DPWH

APPROVED FOR ACCREDITATION :
GILBERTO S. REYES
OIC, DIRECTOR IV
BUREAU OF DESIGN, DPWH

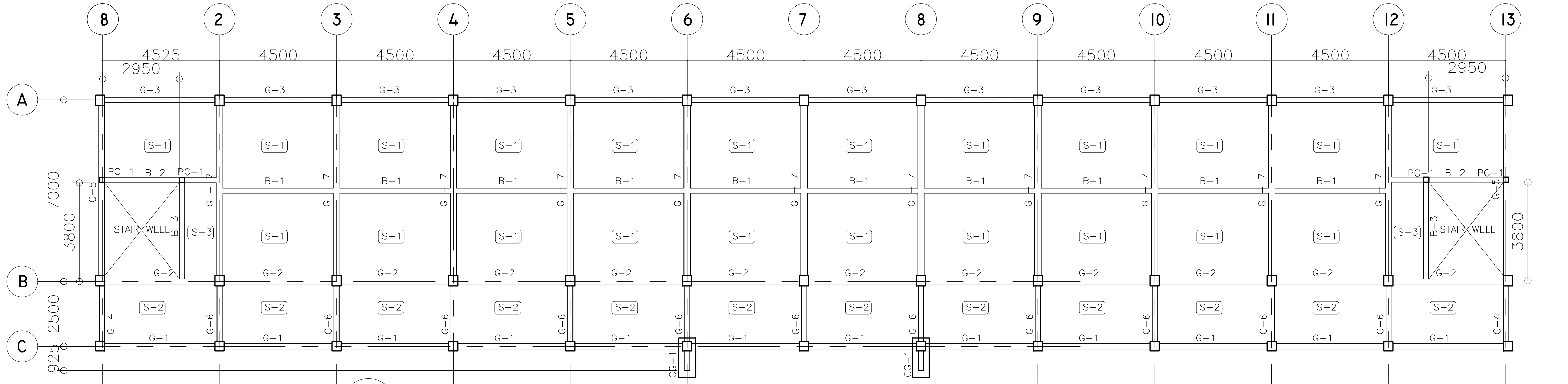
CONCURRED :
RAMON C. BACANI
UNDERSECRETARY
DEPARTMENT OF EDUCATION (DepED)

PROJECT TITLE :
**THREE STOREY
FIFTEEN CLASSROOM
SCHOOL BUILDING**
LOCATION :

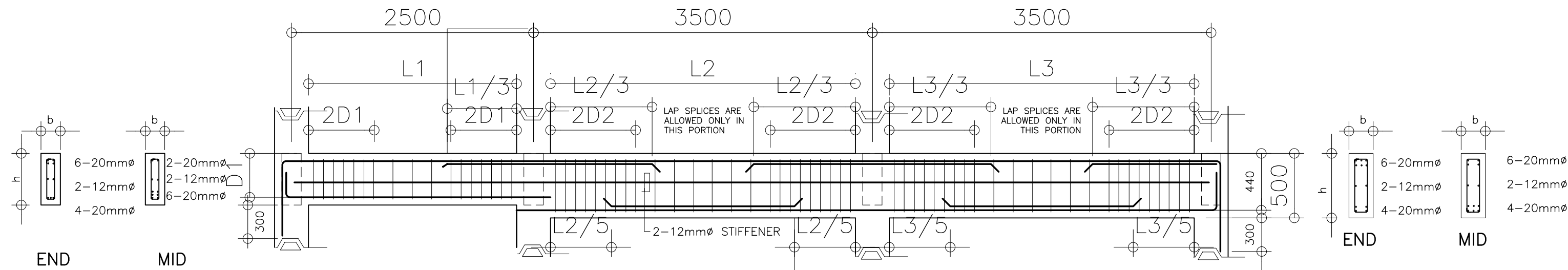
PROJECT NO: 01-002
DESIGNED BY: BNA
ENCODED BY: BNA
CHECKED BY:
DATE : 01 03

OWNER :
**DEPARTMENT OF EDUCATION
DepED**
SHEET CONTENTS :
**FOUNDATION PLAN, DET. OF FOOTING, TIE BEAM
ELEV. OF COL. SCH. FOOTING & COLUMN**

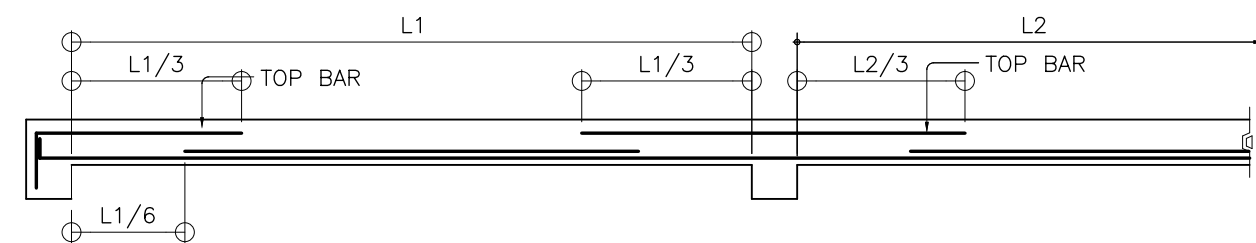
SHEET NO:
**S-1
4**



A
S-2
2ND & 3RD FLOOR FRAMING PLAN
SCALE : 1:100 M.



B
S-2
TYPICAL BEAM ELEVATION



C
S-2
TYPICAL SLAB ELEVATION

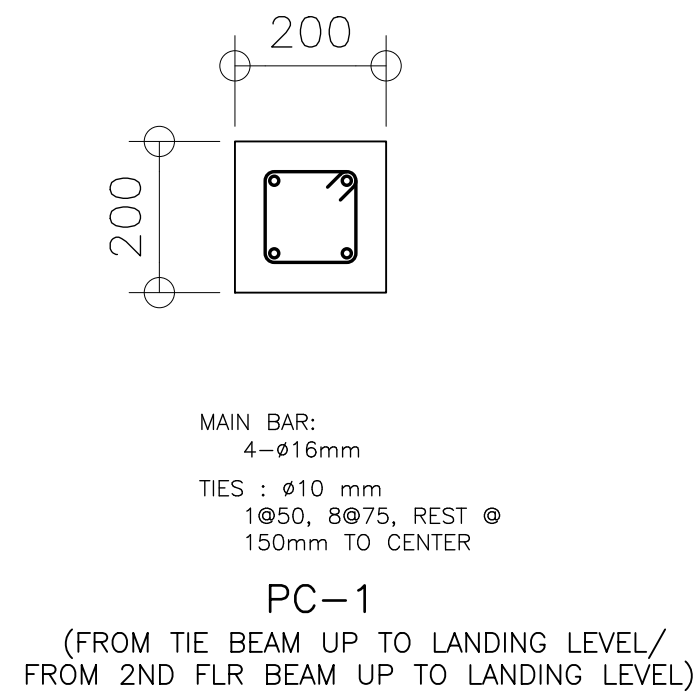
SCHEDULE OF SLABS																	
FLOOR LEVEL	SLAB MARK	THICK-NESS in mm	REBAR SPACING in mm ALONG SHORT DIRECTION						REBAR SPACING in mm ALONG LONG DIRECTION						REMARKS		
			REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		REBAR SIZE	LEFT SUPPORT		MIDSPAN			RIGHT SUPPORT	
				TOP	BOTT.	TOP	BOTT.	TOP	BOTT.		TOP	BOTT.	TOP	BOTT.		TOP	BOTT.
SECOND LEVEL																	
	S-1	100	10ø	200	300	-	300	200	300	10ø	250	300	-	300	250	300	TWO-WAY
	S-2	100	10ø	300	300	-	300	300	300	10ø	300	300	-	300	300	300	TWO-WAY
	S-3	100	10ø	200	200	-	200	200	200	10ø	300	300	-	300	300	300	ONE-WAY

B E A M S C H E D U L E											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		S T E E L R E I N F O R C E M E N T S						S T I R R U P S Ø10mm (UNLESS NOTED OTHERWISE)	
				REBAR (mm Ø)	LEFT		MID SPAN		RIGHT		
		b	h			TOP	BOTTOM	TOP	BOTTOM		TOP
2ND FLOOR LEVEL	G-1	200	400	Ø20mm	3	2	2	2	3	2	1Ø50, 6Ø100, REST@200
	G-2	200	400	Ø20mm	4	3	2	2	4	3	1Ø50, 6Ø100, REST@200
	G-3	200	400	Ø20mm	3	3	2	2	3	3	1Ø50, 6Ø100, REST@200
	G-4	200	400	Ø20mm	3	2	2	2	6	4	1Ø50, 6Ø100, REST@200
	G-5	250	500	Ø20mm	6	4	2	4	6	4	1Ø50, 8Ø100, REST@200
	G-6	200	400	Ø20mm	4	3	2	2	6	4	1Ø50, 6Ø100, REST@200
	G-7	250	500	Ø20mm	6	4	2	6	6	4	1Ø50, 8Ø100, REST@200
	CG-1	200	400	Ø20mm	4	3	4	3	4	3	1Ø50, 6Ø100, REST@200
	B-1	200	400	Ø16mm	4	2	2	2	4	2	1Ø50, 6Ø100, REST@200
	B-2	200	400	Ø16mm	2	2	2	5	2	2	1Ø50, 6Ø100, REST@200
B-3	200	400	Ø16mm	2	2	2	4	2	2	1Ø50, 6Ø100, REST@200	
3RD FLOOR LEVEL	G-1	200	400	Ø20mm	2	2	2	2	2	2	1Ø50, 6Ø100, REST@200
	G-2	200	400	Ø20mm	3	2	2	2	3	2	1Ø50, 6Ø100, REST@200
	G-3	200	400	Ø20mm	3	2	2	2	3	2	1Ø50, 6Ø100, REST@200
	G-4	200	400	Ø20mm	3	2	2	2	5	3	1Ø50, 6Ø100, REST@200
	G-5	250	500	Ø20mm	5	3	2	4	5	3	1Ø50, 8Ø100, REST@200
	G-6	200	400	Ø20mm	3	2	2	2	6	4	1Ø50, 6Ø100, REST@200
	G-7	250	500	Ø20mm	6	4	2	6	6	4	1Ø50, 8Ø100, REST@200
	CG-1	200	400	Ø20mm	3	2	3	2	3	2	1Ø50, 6Ø100, REST@200
	B-1	200	400	Ø16mm	4	2	2	2	4	2	1Ø50, 6Ø100, REST@200
	B-2	200	400	Ø16mm	3	3	3	5	3	3	1Ø50, 6Ø100, REST@200
B-3	200	400	Ø16mm	2	2	2	3	2	2	1Ø50, 6Ø100, REST@200	
ROOF LEVEL	RG-1	200	400	Ø16mm	2	2	2	2	2	2	1Ø50, 6Ø100, REST@200
	RG-2	200	500	Ø16mm	3	3	3	3	3	3	1Ø50, 8Ø100, REST@200
	RCG-1	200	500	Ø16mm	2	2	2	2	2	2	1Ø50, 8Ø100, REST@200
	RB-1	200	400	Ø16mm	2	2	2	3	3	2	1Ø50, 8Ø100, REST@200
TIE BEAM	TG-1	300	500	Ø20mm	5	4	2	2	6	4	1Ø50, 8Ø100, REST@200
	TG-2	300	500	Ø20mm	6	4	2	3	6	4	1Ø50, 8Ø100, REST@200
	TG-3	300	500	Ø20mm	3	3	2	2	3	3	1Ø50, 6Ø100, REST@200
STAIR BEAM	LB-1	200	400	Ø16mm	2	2	2	4	2	2	1Ø50, 6Ø100, REST@200

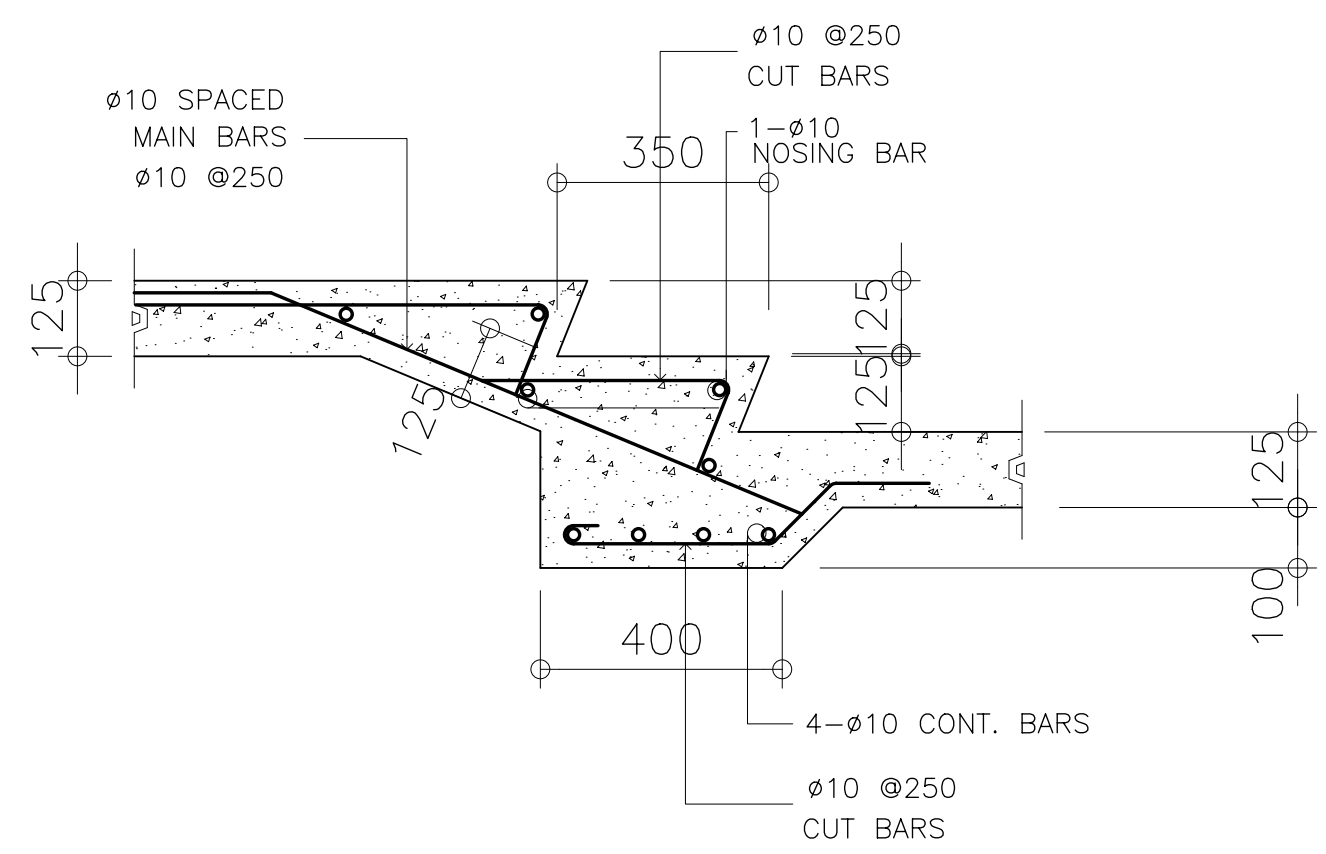
<div>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</div>	CONSULTANT / DESIGNER <div>BERNADETTE N. AQUINO ENGINEER III PRC NO. : 0074495 TIN : 199-674-196 PTR NO. : DATE : </div>	REVIEWED BY: <div>WILFREDO S. LOPEZ OIC, STRUCTURAL DIVISION BUREAU OF DESIGN, DPWH</div>	RECOMMENDING APPROVAL : <div>SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</div>	APPROVED FOR ACCREDITATION : <div>GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</div>	CONCURRED : <div>RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</div>	PROJECT TITLE : THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING LOCATION :	PROJECT NO: 01-002 DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY: DATE : 01 03	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : 2nd & 3RD FLOOR FRAMING PLAN, TYP. DET. OF BEAM & SLAB, SCH. OF BEAMS & SLABS	SHEET NO: S-2 4
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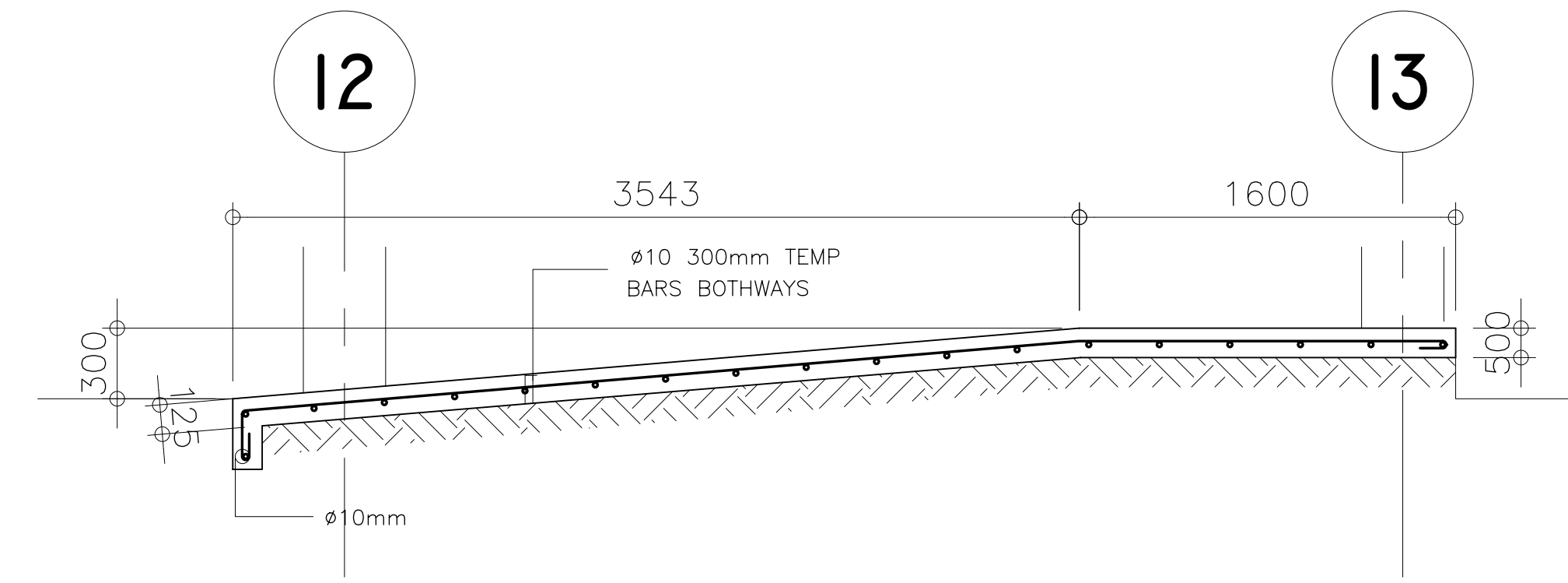
REP. ACT 545



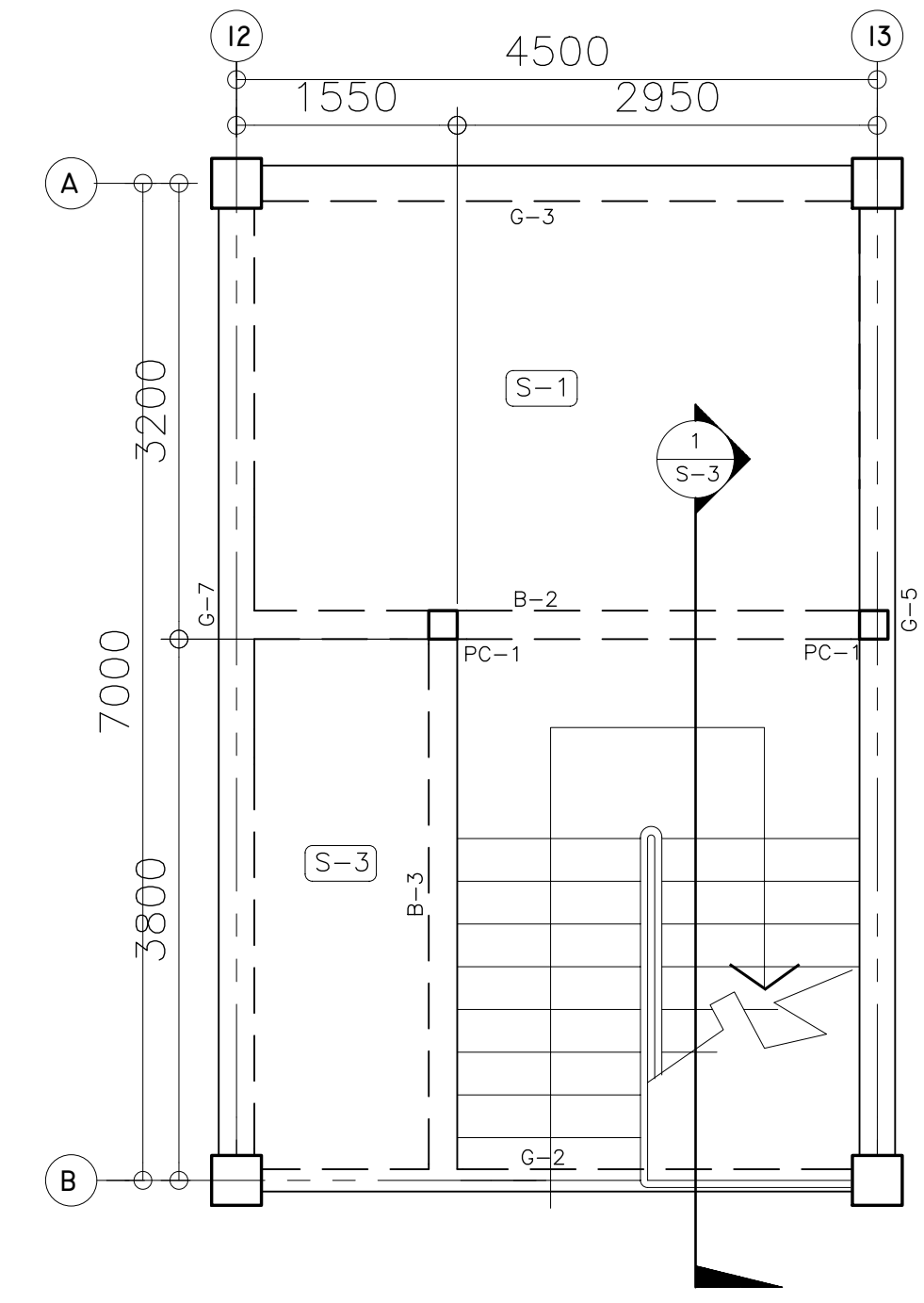
B SPOT DETAIL
SCALE 1 : 25 M



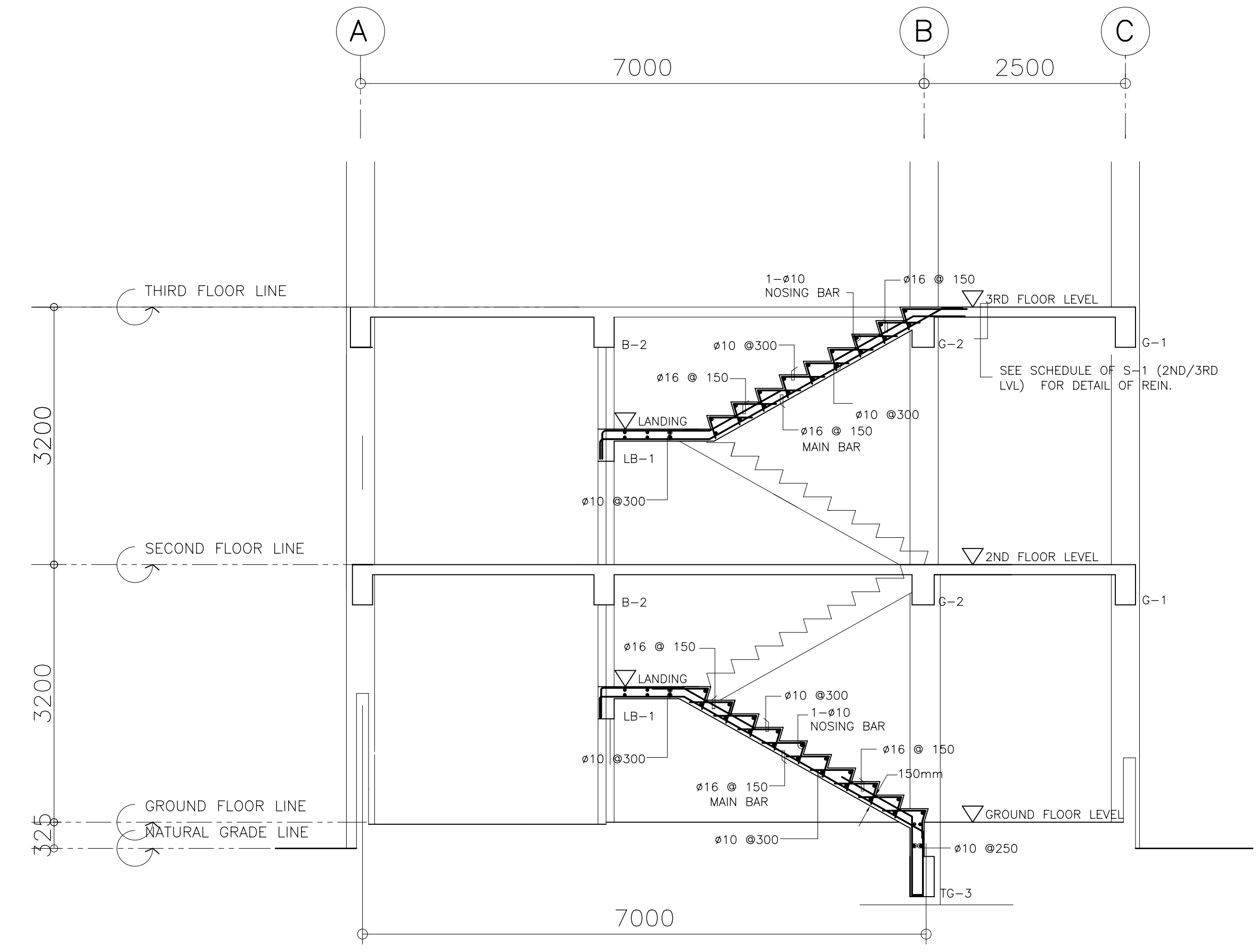
C DETAIL OF STAIR ON GRADE



D DETAIL OF RAMP



A STAIR FRAMING PLAN (TYP)
SCALE 1:50 M

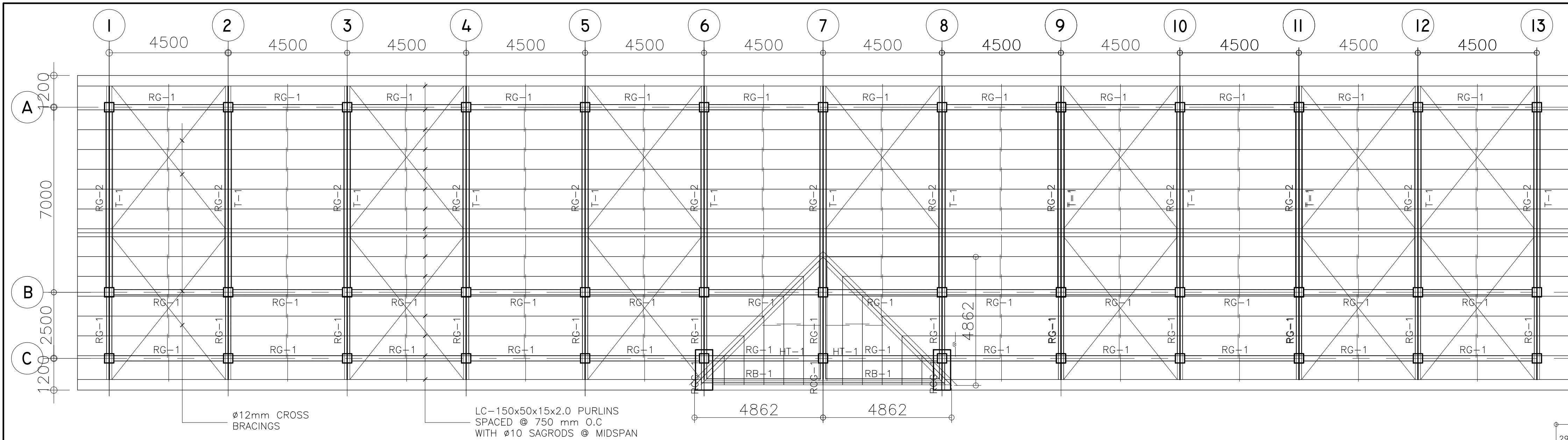


1 SECTION OF STAIR
SCALE 1:50 M

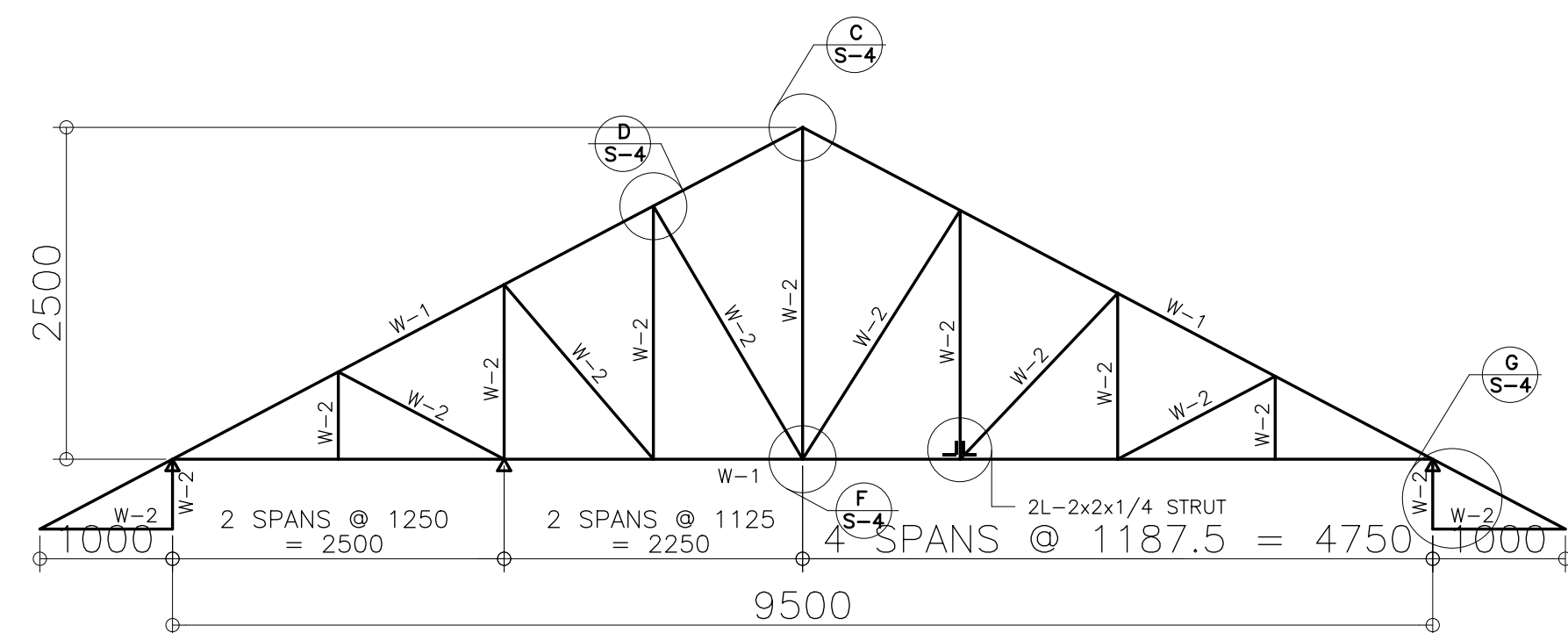
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	<p>CONSULTANT / DESIGNER BERNADETTE N. AQUINO ENGINEER III PRC NO. : 0074495 TIN : 199-674-196 PTR NO. : DATE :</p>	<p>REVIEWED BY: WILFREDO S. LOPEZ OIC, STRUCTURAL DIVISION BUREAU OF DESIGN, DPWH</p>	<p>RECOMMENDING APPROVAL : SOFIA T. SANTAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH</p>	<p>APPROVED FOR ACCREDITATION : GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH</p>	<p>CONCURRED : RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)</p>	<p>PROJECT TITLE : THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING LOCATION :</p>	<p>PROJECT NO: 01-002 DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY: DATE : 01 03</p>	<p>OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : STAIR PLAN & SECTION DETAIL, DETAIL OF RAMP & STAIR ON GRADE, MISC. DETAILS</p>	<p>SHEET NO: S-3 4</p>
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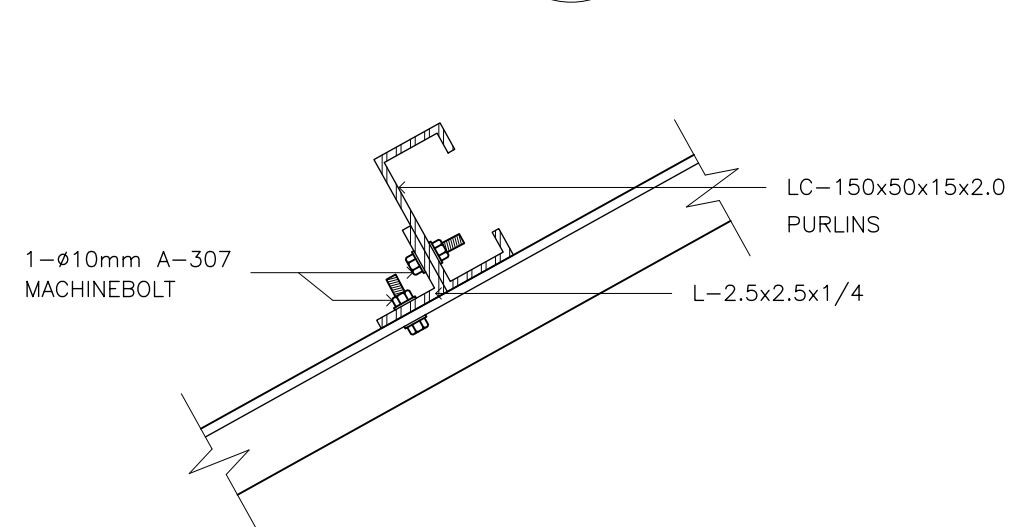
REP. ACT 545



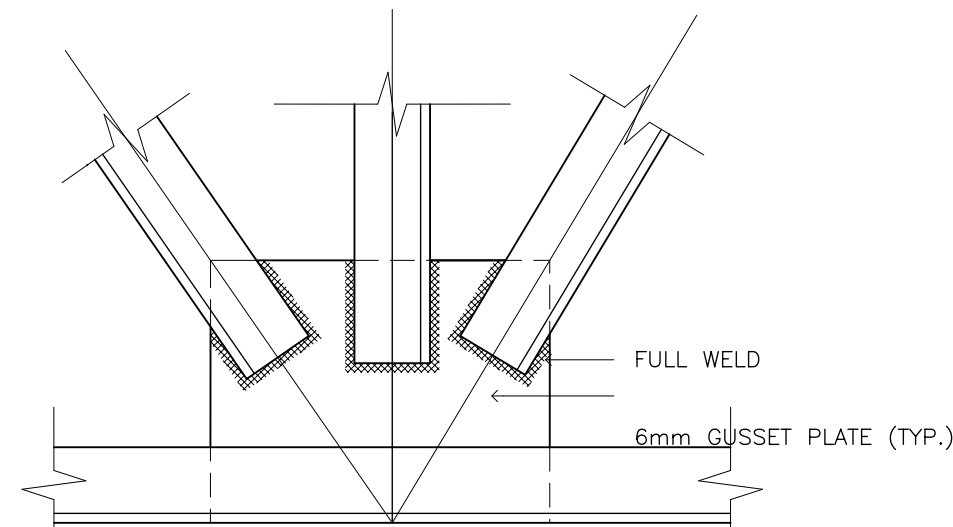
A
S-4 **ROOF FRAMING PLAN**
SCALE : 1:100 M.



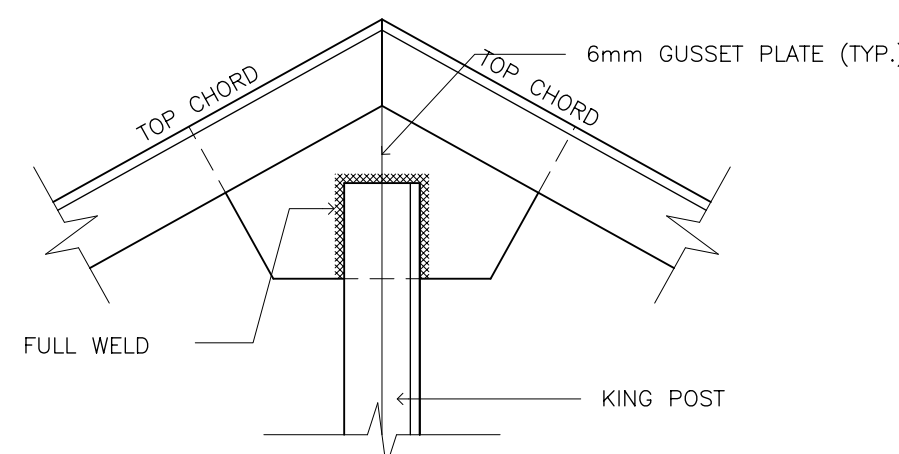
B
S-4 **DETAIL OF T-1**
SCALE 1 : 25 M



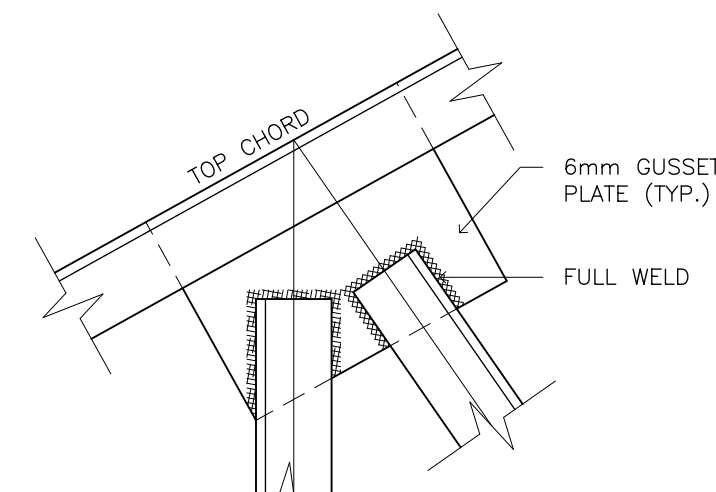
E
S-4 **PURLIN CONNECTION DETAIL**
SCALE 1 : 50 M



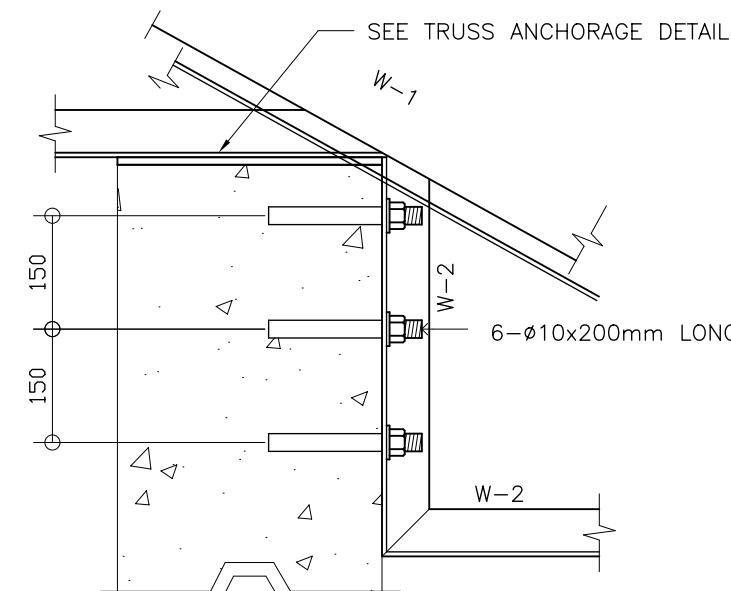
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S-4 **CONNECTION DETAIL**
SCALE 1 : 50 M



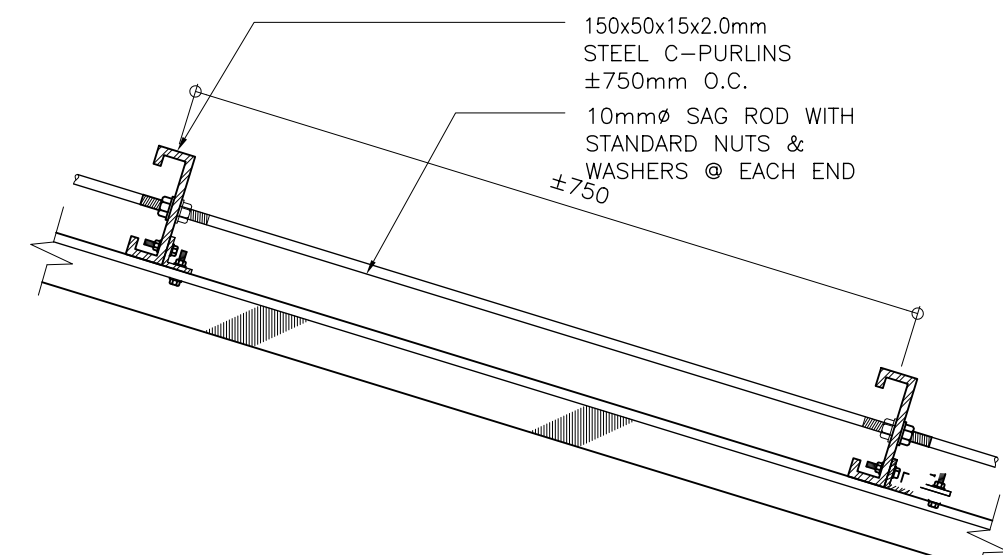
C
S-4 **CONNECTION DETAIL**
SCALE 1 : 50 M



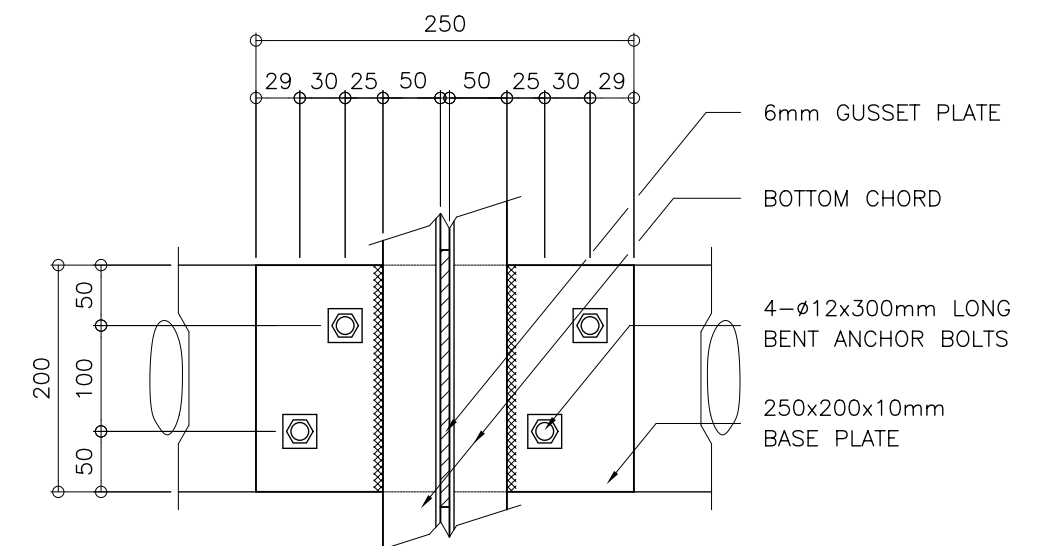
D
S-4 **CONNECTION DETAIL**
SCALE 1 : 50 M



G
S-4 **HALF TRUSS CONNECTION DETAIL**
SCALE 1 : 10 M



H
S-4 **SAG ROD CONNECTION DETAIL**
SCALE 1 : 10 M



I
S-4 **TYPICAL TRUSS ANCHORAGE DETAIL**
SCALE 1:5 M

SCHEDULE OF TRUSS MEMBERS			
MARK	DESCRIPTION	QTY	SIZE
W-1	TOP & BOT. CHORDS	2L	2"x2"x1/4"
W-2	WEB MEMBERS	2L	2"x2"x3/16"

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY</p>	CONSULTANT / DESIGNER	REVIEWED BY:	RECOMMENDING APPROVAL :	APPROVED FOR ACCREDITATION :	CONCURRED :	PROJECT TITLE :	PROJECT NO: 01-002	OWNER :	SHEET NO:
	BERNADETTE N. AQUINO ENGINEER III PRC NO. : 0074495 TIN : 199-674-196 PTR NO. : DATE :	WILFREDO S. LOPEZ OIC, STRUCTURAL DIVISION BUREAU OF DESIGN, DPWH	SOFIA T. SANTIAGO OIC, DIRECTOR III BUREAU OF DESIGN, DPWH	GILBERTO S. REYES OIC, DIRECTOR IV BUREAU OF DESIGN, DPWH	RAMON C. BACANI UNDERSECRETARY DEPARTMENT OF EDUCATION (DepED)	THREE STOREY FIFTEEN CLASSROOM SCHOOL BUILDING	DESIGNED BY: BNA ENCODED BY: BNA CHECKED BY: DATE : 01 03	DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : TRUSS DIAGRAM DETAILS OF STEEL CONNECTION	S-4 4
						LOCATION :			

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