



1 PERSPECTIVE VIEW
A-1 SCALE: NTS

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

ARCHITECTURAL

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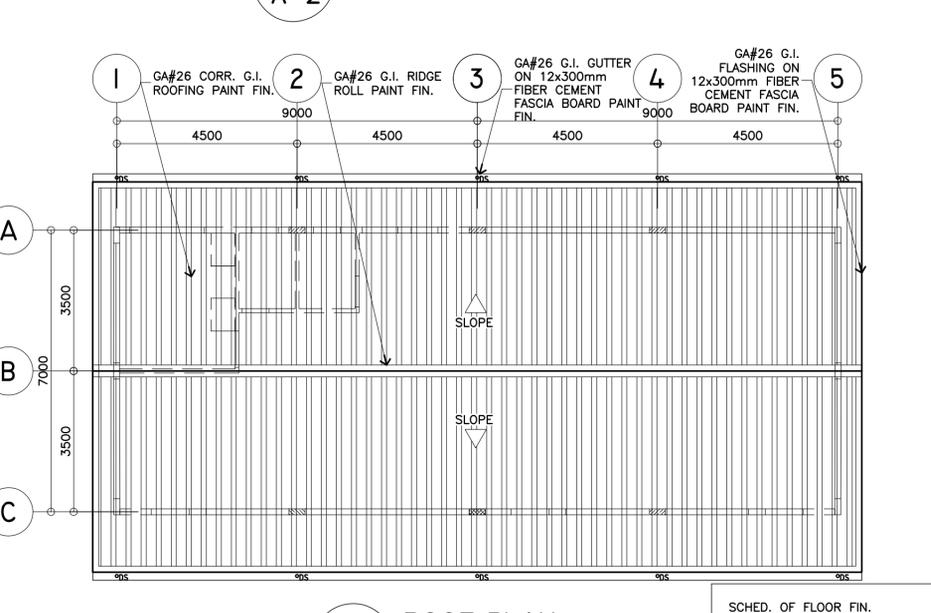
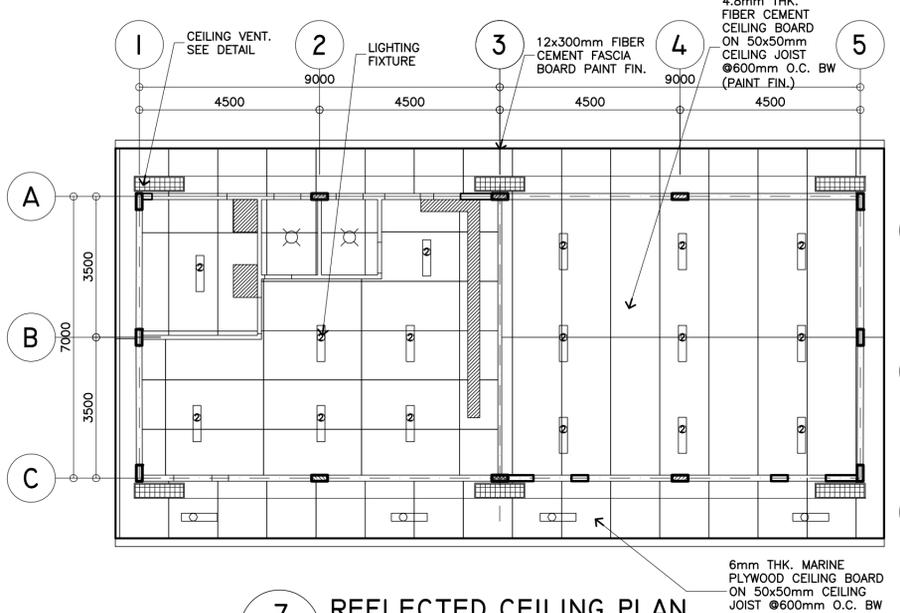
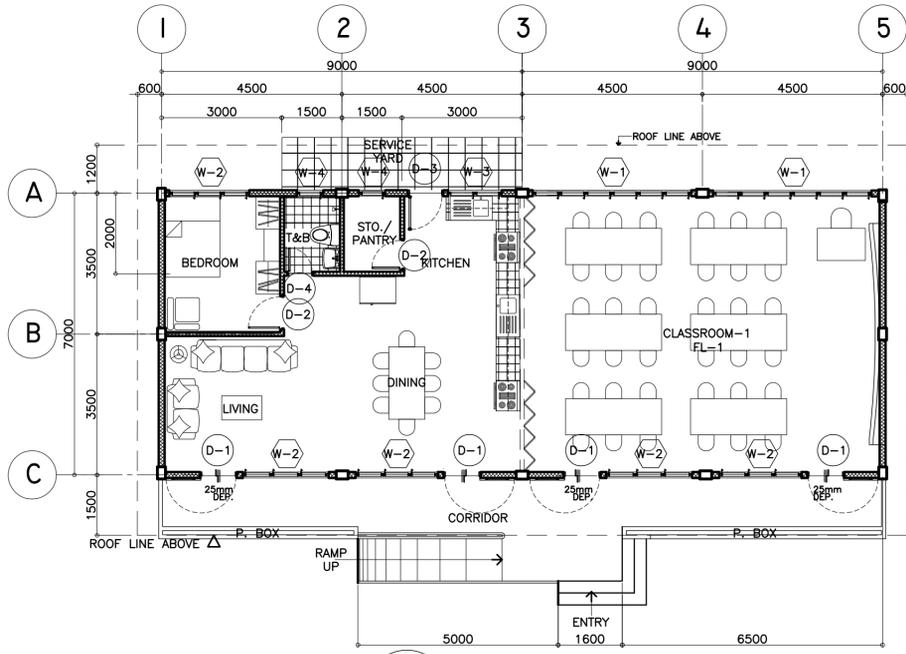
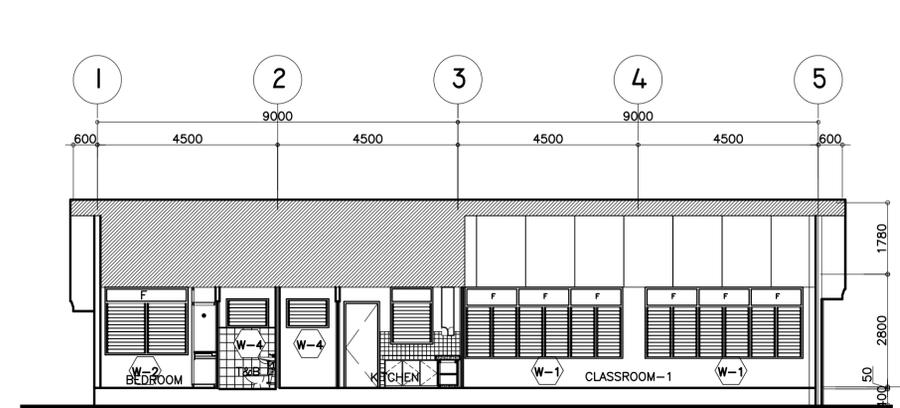
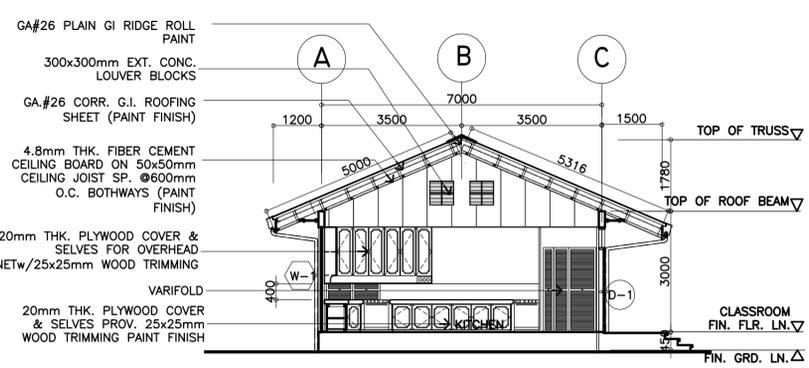
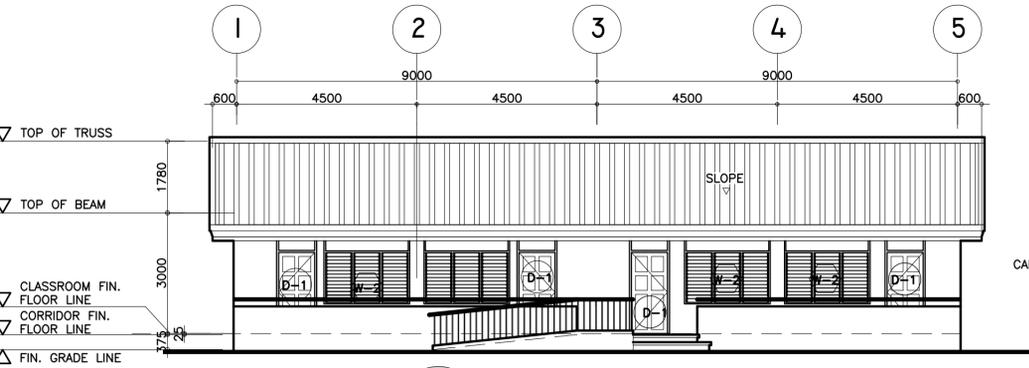
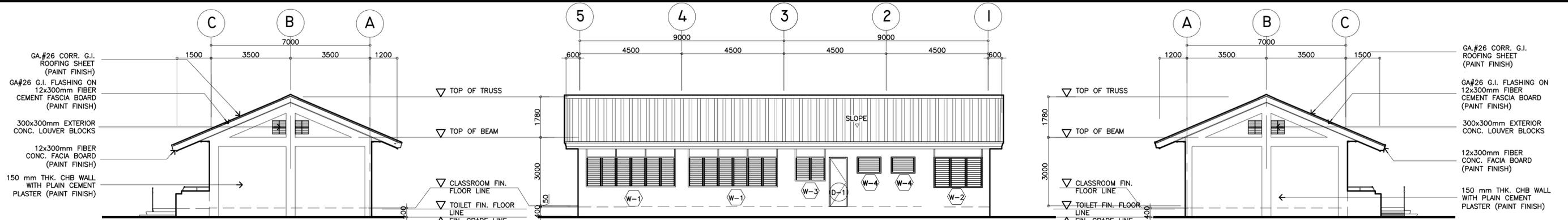
ELECTRICAL

MECHANICAL

<p>REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION MERALCO AVENUE, PASIG CITY</p>	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 CHEF, 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 SHEET CONTENTS : PERSPECTIVE TABLE OF CONTENTS

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REP. ACT 545

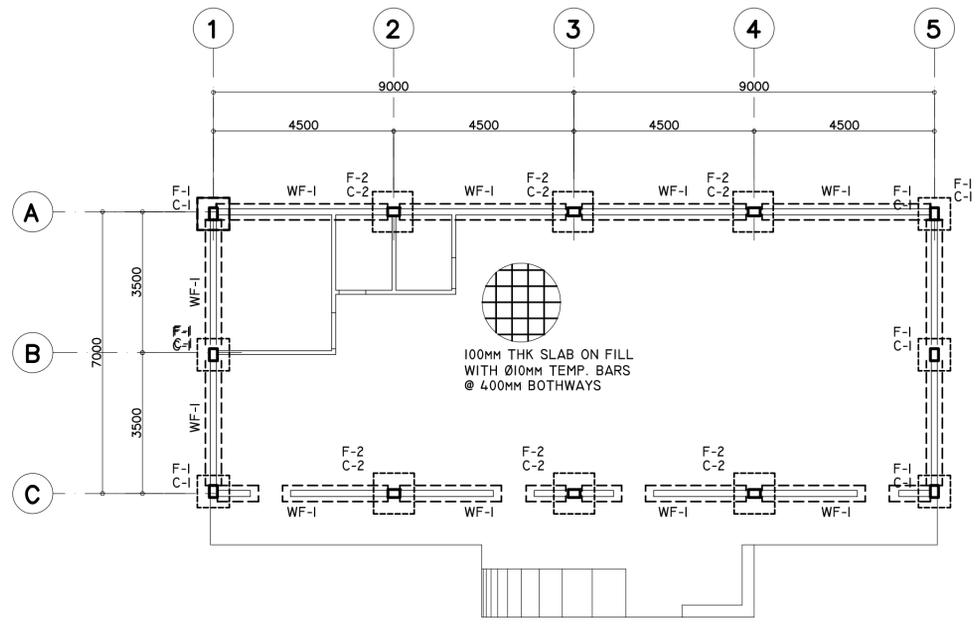


SCHED. OF FIN.	
FL-1	PLAIN CEMENT FINISH
FL-2	PLAIN CEMENT FLR. FIN. W/ GROOVE (ROUGH)

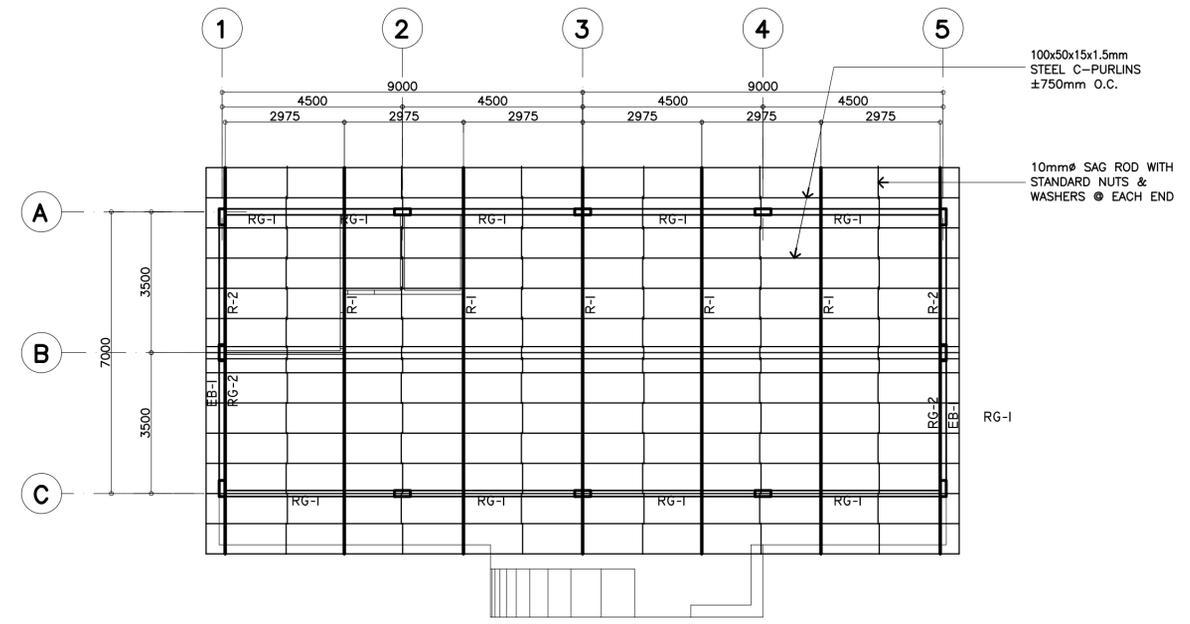
<p>REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION MERALCO AVENUE, PASIG CITY</p>	PREPARED BY : MAXIMO M. CALBANG PDO III PFS-DepED	CHECKED BY : NATHANIEL Q. MENDOZA ARCHITECT III PFS-DepED	RECOMMENDING APPROVAL : LUIS G. PURISIMA, Jr. HEAD, PLANNING & DESIGN UNIT PFS-DepED	APPROVED BY : OLIVER R. HERNANDEZ CHIEF, PFS-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 : FLOOR PLAN, REFLECTED CEILING PLAN, ROOF PLAN ELEVATIONS, SECTIONS	SHEET NO : A-2 4
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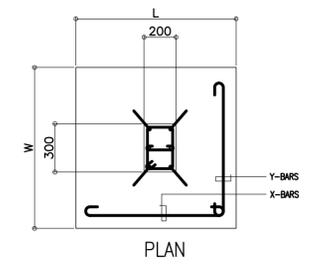
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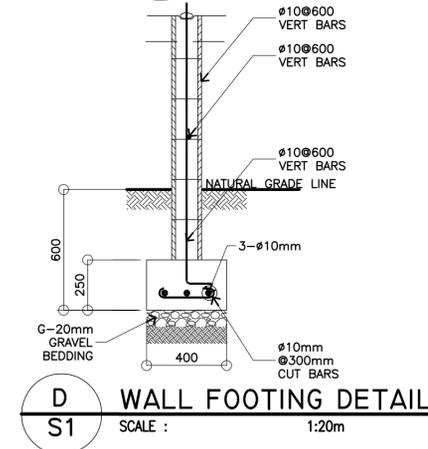
A FOUNDATION PLAN
S-1 SCALE : 1 : 1 0 0 MTS.



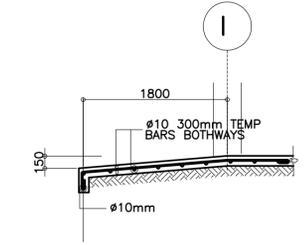
B ROOF FRAMING PLAN
S-1 SCALE : 1 : 1 0 0 MTS.



A TYP. FOOTING DETAIL
S1 SCALE : NTS



D WALL FOOTING DETAIL
S1 SCALE : 1:20m



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

COLUMN SCHEDULE

LEVEL	C-1	C-2
FOUNDATION LEVEL TO ROOF LEVEL	<p>MAIN BAR: 4-ϕ16mm TIES : ϕ10 mm 1ϕ50, 8ϕ75, REST ϕ150mm TO CENTER</p>	<p>MAIN BAR: 6-ϕ16mm TIES : ϕ10 mm 1ϕ50, 8ϕ75, REST ϕ150mm TO CENTER</p>

SCHEDULE OF FOOTINGS

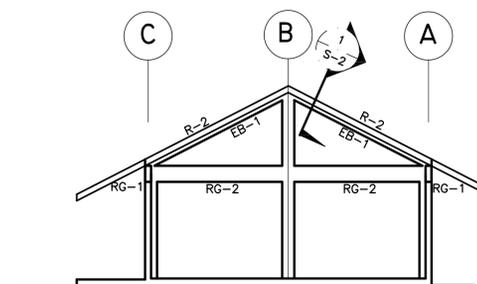
FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)	THICKNESS (t)	BAR X	BAR Y	
F-1	800	800	1200	250	4 - 16mm ϕ	4 - 16mm ϕ	SQUARE FOOTING
F-2	1000	1000	1200	250	4 - 16mm ϕ	4 - 16mm ϕ	SQUARE FOOTING

DESIGN CRITERIA :

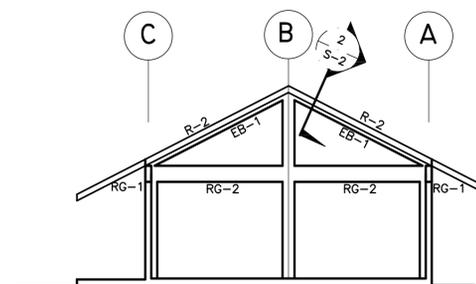
- A. CONCRETE
 $f_c' = 20.685 \text{ Mpa (3,000 Psi)}$, minimum compressive strength of concrete a 28 days unless otherwise specified.
- B. REBAR
 $f_y = 275.8 \text{ Mpa (40,000 Psi)}$, minimum yield strength of reinforcing bars unless otherwise specified.
- C. STRUCTURAL STEEL
 $F_y = 248 \text{ Mpa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

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	DESIGNED BY: NQM	ENCODDED BY: MMC	CHECKED BY: LGP	DATE :	2		SHEET CONTENTS : FOUNDATION, ROOF FRAMING PLAN, FOOTING & COLUMN SCHEDULE, DESIGN CRITERIA, AND WALL FTG. DET.		

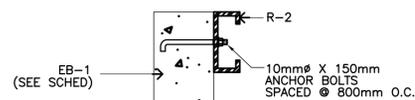
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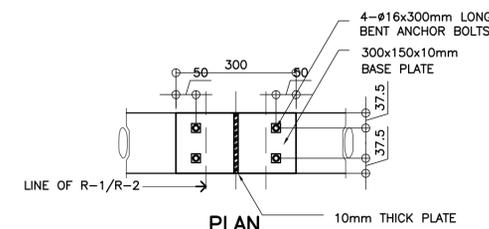
A ELEV @ GRID I & 5
S-2 SCALE: 1:100 M



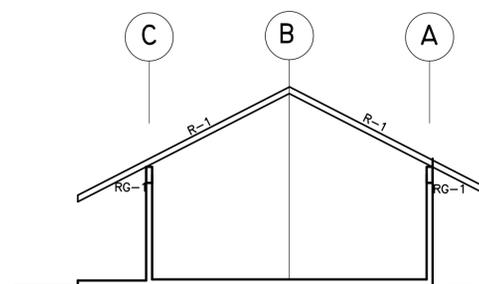
B ELEV @ GRID 3
S-2 SCALE: 1:100 M



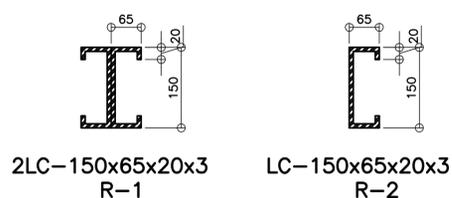
F SECTION DETAIL
S-2 SCALE: NTS



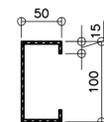
PLAN 10mm THICK PLATE



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

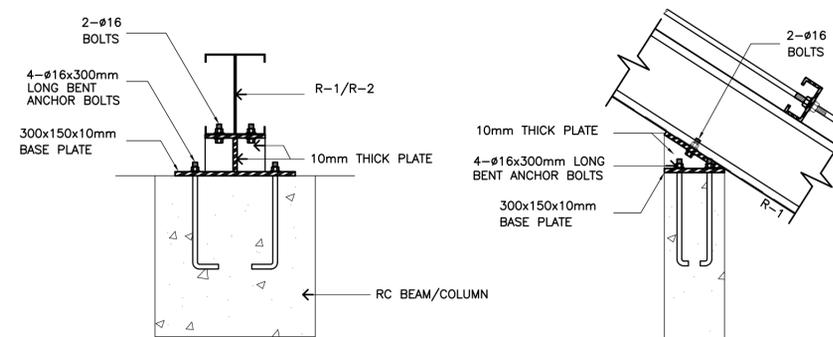


D DETAIL OF RAFTER
S-2 SCALE: NTS



LC-100x50x15x1.5

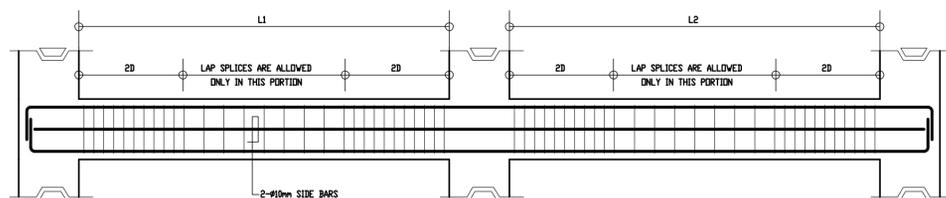
G DETAIL OF PURLINS
S-2 SCALE: NTS



ELEVATION

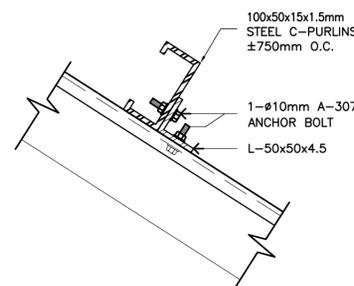
ELEVATION

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

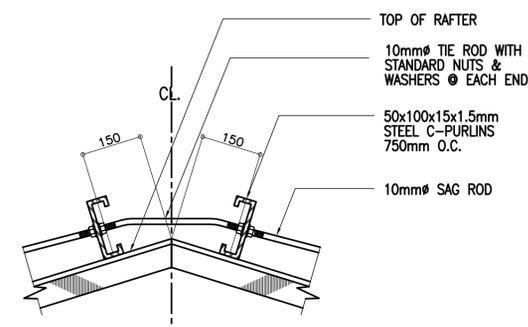


E TYPICAL BEAM ELEVATION
S-2

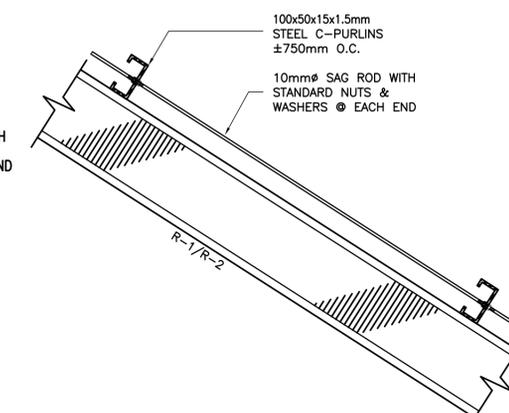
BEAM SCHEDULE											
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		REBAR (mm Ø)	STEEL REINFORCEMENTS						STIRRUPS #10mm (UNLESS NOTED OTHERWISE)
		b	h		LEFT		MID SPAN		RIGHT		
					TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM	
ROOF LEVEL	RG-1	150	400	Ø12mm	2	2	2	2	2	2	1Ø50, 8Ø100, REST@200
	RG-2	150	400	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 PURLIN CONNECTION DET
S-2 SCALE: 1:5 M



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



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



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GENERAL NOTES

- 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.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230 V AC, 60 Hz.
- WIRING METHOD SHALL BE AS FOLLOWS :
 - FEEDERS AND RISERS - INTERMEDIATE METALLIC CONDUIT
 - LIGHTING, POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT., & AUXILIARY SCH. 40
- 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 15mm \varnothing TRADE/NOMINAL SIZE.
- ALL OUTLET BOXES SHALL BE GALVANIZED GAUGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :
 - LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
 - CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR.
 - PANELBOARD - 1.80 M ABOVE FINISH FLOOR

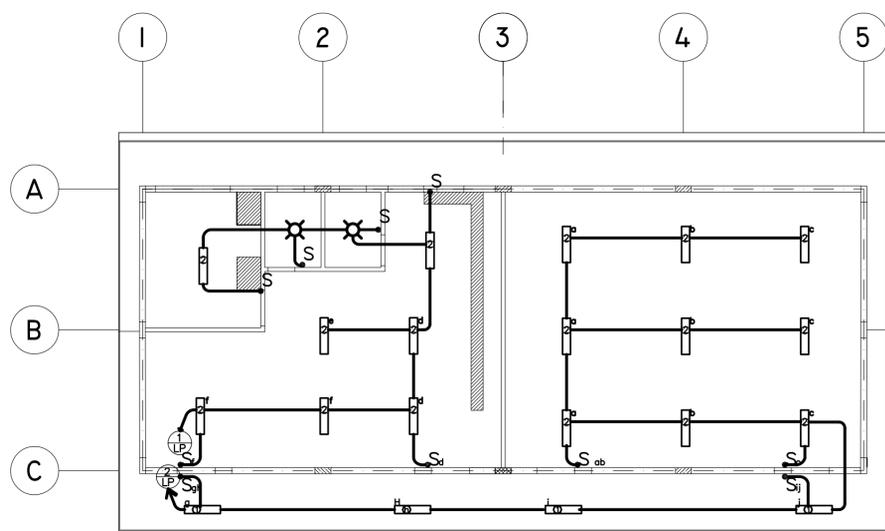
LEGEND

SYMBOL	DESCRIPTION
	- CEILING LIGHT OUTLET
	- 2 x 40 WATTS FLUORESCENT LAMP
	- CEILING FAN OUTLET
S/Sa	- ONE GANG DEVICE SWITCH
Sab	- TWO GANG DEVICE SWITCH
Scde	- THREE GANG DEVICE SWITCH
	- 1 x 40 WATTS FLUORESCENT LAMP
Sf	- 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

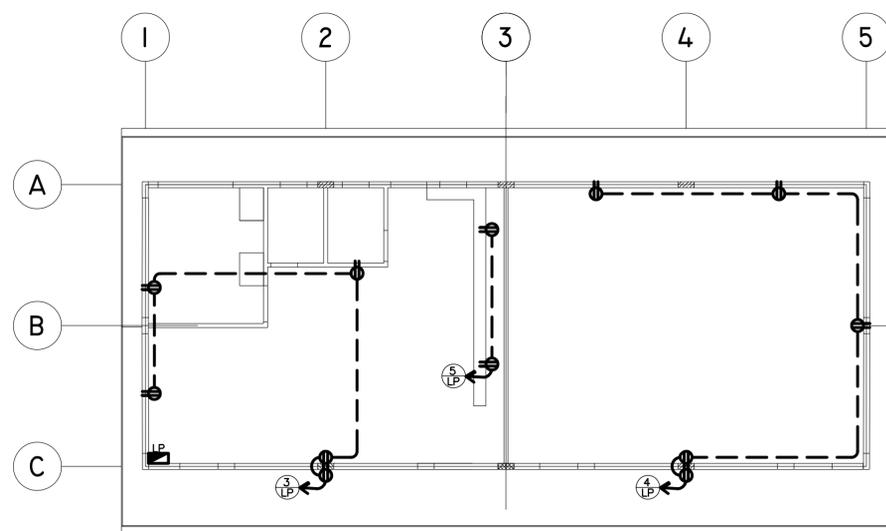
PANELBOARD: LP			MAIN : 40AT, 100AF, 2P, 240V				
CKT. NO.	DESCRIPTION	VA LOAD	CIRCUIT BREAKER				WIRE & CONDUIT SIZE
			VOLT	POLE	AT	AF	
1	LIGHTING OUTLET	900	230	2	20	50	3-3.5mm ² THW IN 15mm \varnothing C
2	LIGHTING OUTLET	1300	230	2	20	50	3-3.5mm ² THW IN 15mm \varnothing C
3	CONVENIENCE OUTLET	900	230	2	20	50	3-3.5mm ² THW IN 15mm \varnothing C
4	CONVENIENCE OUTLET	900	230	2	20	50	3-3.5mm ² THW IN 15mm \varnothing C
5	CONVENIENCE OUTLET	360	230	2	20	50	3-3.5mm ² THW IN 15mm \varnothing C
6	SPARE	1500	230	2	20	50	
TOTAL		5860					

$IL = \frac{5860}{230 V} = 25.48 A$

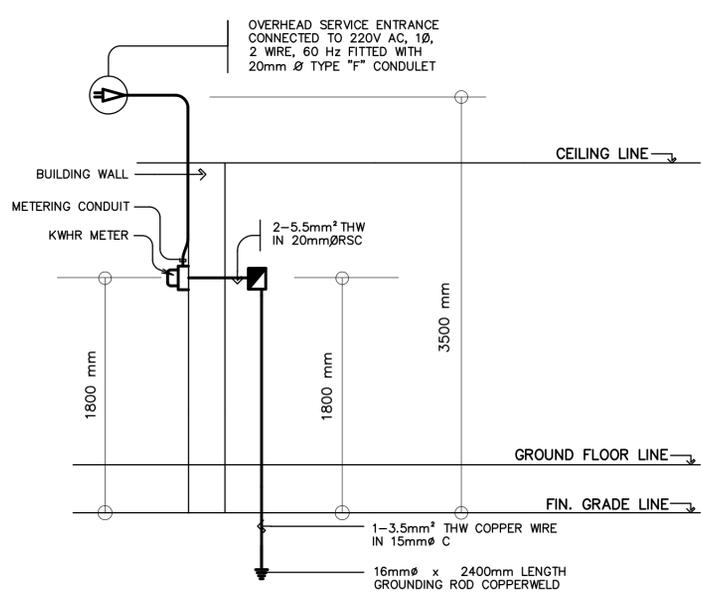
FEEDER: 2-5.5mm² THW IN 20mm \varnothing RSC
 PROTECTION: 40 AT, 50 AF, 2P, 240 V



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



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

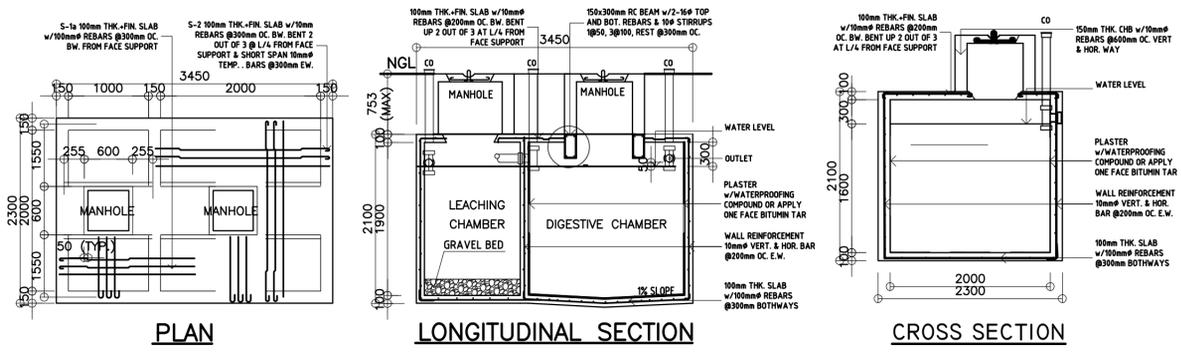


3 ELECTRICAL RISER DIAGRAM
E-1 SCALE: NTS

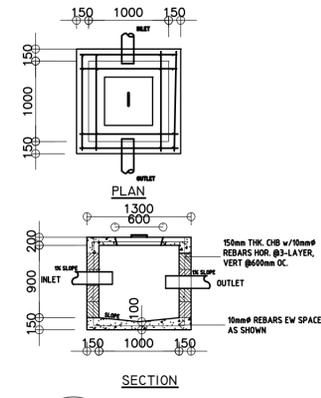
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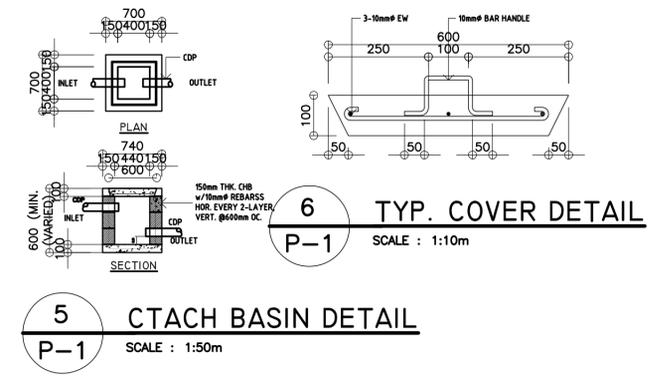
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3 SEPTIC TANK DETAIL
P-1 SCALE : 1:50m



4 DRAIN PIT DETAIL
P-1 SCALE : 1:50m

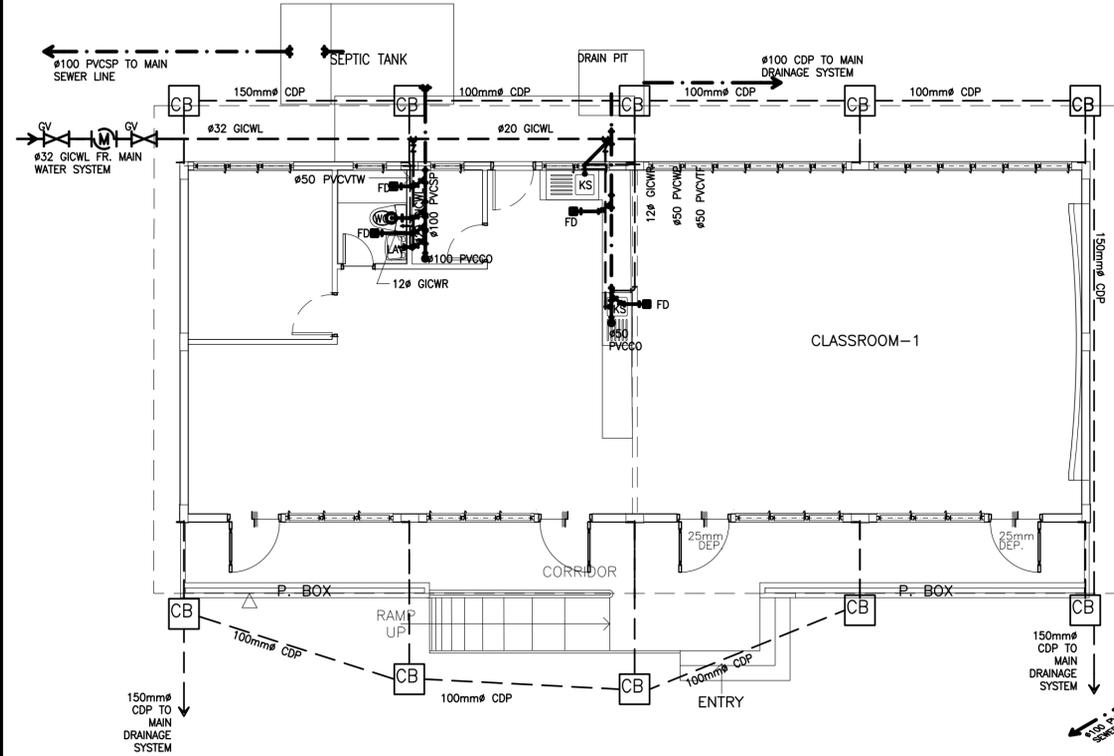


6 TYP. COVER DETAIL
P-1 SCALE : 1:10m

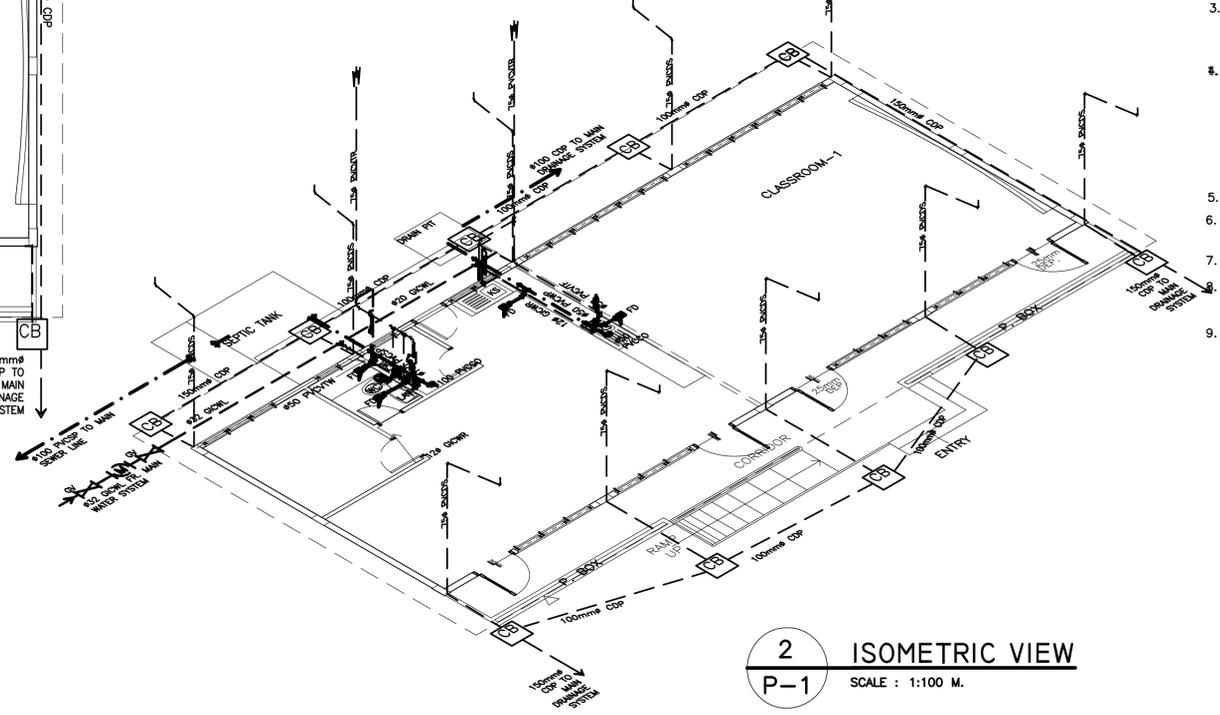
5 CTACH BASIN DETAIL
P-1 SCALE : 1:50m

- LEGEND:**
- CB CATCH BASIN
 - CDP CONCRETE DRAIN PIPE
 - PVCCO POLYVINYL CHLORIDE CLEAN OUT
 - CV CHECK VALVE
 - HB HOSE BIBB
 - FD FLOOR DRAIN
 - GICWL GALVANIZED IRON COLD WATER LINE (SCH. 40)
 - GICWR GALVANIZED IRON COLD WATER RISER (SCH. 40)
 - GV GATE VALVE
 - MH MANHOLE
 - PVCCDS POLYVINYL CHLORIDE DOWNSPOUT
 - PVCDP POLYVINYL CHLORIDE DRAIN PIPE
 - PVCCDS POLYVINYL CHLORIDE DOWNSPOUT
 - PVCCSP POLYVINYL CHLORIDE SOIL PIPE
 - PVCVAC POLYVINYL CHLORIDE VENT. ACROSS CEILING
 - PVCVP POLYVINYL CHLORIDE VENT. PIPE
 - PVCVS POLYVINYL CHLORIDE VENT STACK
 - PVCVTR/W/F POLYVINYL CHLORIDE VENT TROUGH FLOOR/ROOF/WALL
 - PVCWP POLYVINYL CHLORIDE WASTE PIPE
 - PVCWS POLYVINYL CHLORIDE WASTE STACK
 - 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-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 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.
- ALL PLUMBING WORKS SHALL BE UNDER THE SUPRVISION OF A LICENSED MASTER PLUMBER AND A LICENCED PLUMBING CONTRACTOR.
9. ALL DIMENSION ARE IN MILLIMETER OTHERWISE SPECIFIED.



1 PLUMBING RO-IN LAYOUT
P-1 SCALE : 1:80 M.



2 ISOMETRIC VIEW
P-1 SCALE : 1:100 M.

- DESIGN CRITERIA**
- i. LIVE LOAD _____ 1000Pa
 - ii ALLOWABLE STRESSES
 1. CONCRETE
 - a. FOR FOOTING, BEAMS AND SLABS
fc'' = 20 MPa
 2. CONCRETE MASONRY UNITS (LOAD BEARING CHB)
fm' = 6.90 MPa, fm = 2.41 MPa
 3. REINFORCING STEEL BARS
FOR BARS SMALLER THAN 16mmØ
fy = 230 MPa
 4. ASSUMED ALLOWABLE BEARING CAPACITY Y = 100KPa
- NOTE:**
- WATER TABLE IS 1500 BELOW GROUND LEVEL.

<p>REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION PHYSICAL FACILITIES AND SCHOOLS ENGINEERING DIVISION MERALCO AVENUE, PASIG CITY</p>	PREPARED BY :	CHECKED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	CONCURRED BY :	PROJECT TITLE :	PROJECT NO.:	OWNER :	SHEET NO.:
	 MAXIMO M. CALBANG POO III PFSED-DepED	 ELJAS MELOUADES EMEL CUBA II ENGINEER III PFSED-DepED	 LUIS S. 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		DEPARTMENT OF EDUCATION DepED
						LOCATION : .	DESIGNED BY: EMMBC	SHEET CONTENTS : GEN. NOTES, LEGEND, DESIGN CRITERIA, PLUMBING LAYOUT, ISOMETRIC VIEW, SEPTIC TANK, CATCH BASIN, COVER DETAIL.	
							ENCODED BY: MMC		
							CHECKED BY: LQP		
							DATE :		

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