

1 Load Schedule
E-18 SCALE NTS

LOAD SCHEDULE AND COMPUTATION														
Panel Board Name:		PPAU				Source: MDP								
Supply Voltage:		400 V line to line, Three Phase, Four Wire System				Mounting Type: Wall Mounted								
Number of Circuit		Provide 5 Circuits & 1 Spare				Enclosure: NEMA Class 1								
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			CB Rating			Home Run Description		
	CO	LO	Location			Single Phase Load Current, Ampere			Three Phase	AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C -N						
1	1		MBC: Hall way	PAU-1B 3TR (4.25HP)	6,417	27.90			40	100	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ PVC	
2	1		MBC: Hallway	PAU-1B 3TR (4.25HP)	6,417	27.90			40	100	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ PVC	
3	1		MBC: 2F Lobby Hallway	PAU-1B 3TR (4.25HP)	6,417	27.90			40	100	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ PVC	
4	1		MBC: Hallway	PAU-2B 6.67TR (10.5HP)	13,087		56.90		80	100	1	2 - 22.0 mm2 THHN + 1 - 8.0 mm2 THHN	21 mmφ PVC	
5	1		MBC: Hallway	PAU-2B 6.67TR (10.5HP)	13,087		56.90		80	100	1	2 - 22.0 mm2 THHN + 1 - 8.0 mm2 THHN	21 mmφ PVC	
6			Ground Floor	Spare					80	100	1			
Total	5				45,425	83.70	56.90	56.90						
Total Maximum Non Coincident Demand, Volt Ampere							45,425							
Total Maximum Non Coincident Demand, Ampere							114.02							
Total Line Current with the application of Demand Factor, Ampere							70.29							
Size and type of Feeder Conductor							4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN grounding in 35 mmφ IMC							
Size and Rating of Protective Device							100 Ampere, 150 AF, 400 V, 3 pole, CB							

2 Design Analysis
E-18 SCALE NTS

Design Analysis for PPAU					
Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article in PEC 2017
1	PAU-1B 1.3TR (4HP)	6,417	6417	100.00	
2	PAU-1B 1.3TR (4HP)	6,417	6417	100.00	
3	PAU-1B 1.3TR (4HP)	6,417	6417	100.00	
5	PAU-2B 6.67TR (10.5HP)	13,087	13087	100.00	
6	PAU-2B 6.67TR (10.5HP)	13,087	13087	100.00	
Sub Total		45,425.00	45,425.00		
Total		45,425.00	45,425.00		

Total Load of MDP	Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
	45,425.00	45,425.00
Total Load of MDP	Non-Coincident Load, Ampere	Coincident Load, Ampere
	65.57	70.29

LOAD SCHEDULE AND COMPUTATION														
Panel Board Name:		PAH1				Source: MDP								
Supply Voltage:		400 V Line to Line, Three Phase, Four Wire System				Mounting Type: Wall Mounted								
Number of Circuit		Provide 27 Circuits & 1 Spare				Enclosure: NEMA Class 1								
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			Three Phase	CB Rating			Home Run Description	
	CO	LO	Location			Single Phase Load Current, Ampere				AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C - N						
1	1		Main BC	AHU-1A 12.5TR (20.5HP)	19,398				28.00	40	150	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
2	1		Main BC	AHU-1A 12.5TR (20.5HP)	19,398				28.00	40	150	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
3	1		Main BC	AHU-1A 12.5TR (20.5HP)	19,398				28.00	40	150	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
4	1		Main BC	AHU-1A 12.5TR (20.5HP)	19,398				28.00	40	150	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
5	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0mm2 THHN	27 mmφ IMC
6	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0mm2 THHN	27 mmφ IMC
7	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0mm2 THHN	27 mmφ IMC
8	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0mm2 THHN	27 mmφ IMC
9	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0mm2 THHN	27 mmφ IMC
10	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0mm2 THHN	27 mmφ IMC
11	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0mm2 THHN	27 mmφ IMC
12	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0mm2 THHN	27 mmφ IMC
13	1		MPA & Badminton C	AHU-3A 28.5TR (50HP)	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
14	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
15	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
16	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
17	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
18	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
19	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
20	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
21	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
22	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
23	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
24	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
25	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
26	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
27	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
28			Ground Floor	Spare						100	150	3		
Total	27				1,065,665	0.00	0.00	0.00	1538.20					
Total Maximum Non Coincident Demand, Volt Ampere						1,065,665								
Total Maximum Non Coincident Demand, Ampere						1,538.20								
Total Line Current with the application of Demand Factor, Ampere						1554.40								
Size and type of Feeder Conductor						4X(4 - 400.0 mm2 THHN + 1 - 30.0 mm2 THHN grounding in 129 mmφ IMC)								
Size and Rating of Protective Device						2000 Ampere, 2500 AF, 400 V, 3 pole, CB								

Design Analysis for PAH1					
Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article in PEC 2017
1	AHU-1A 12.51TR (20.5HP)	19398	19398	100.00	
2	AHU-1A 12.51TR (20.5HP)	19398	19398	100.00	
3	AHU-1A 12.51TR (20.5HP)	19398	19398	100.00	
4	AHU-1A 12.51TR (20.5HP)	19398	19398	100.00	
5	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
6	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
7	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
8	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
9	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
10	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
11	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
12	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
13	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
14	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
15	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
16	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
17	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
18	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
19	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
20	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
21	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
22	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
23	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
24	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
25	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
26	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
27	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
Sub Total		1,065,664.00	1,065,664.00		
Total		1,065,664.00	1,065,664.00		

Total Load of MDP	Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
	1,065,664.00	1,065,664.00
Total Load of MDP	Non-Coincident Load, Ampere	Coincident Load, Ampere
	1,538.20	1,554.40



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BATAAN FIRST DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE III
ROMAN EXPRESSWAY MULAAN, ORANI, BATAAN

PROJECT NAME AND LOCATION :
BASIC INFRASTRUCTURE PROGRAM -
MULTI - PURPOSE BUILDINGS/FACILITIES TO
SUPPORT SOCIAL SERVICE - CONSTRUCTION
OF MULTI-PURPOSE BUILDING (GYMNASIUM),
SAMAL, BATAAN

SHEET CONTENT :

AS SHOWN

DRAWN BY:
ROLANDO P. SOLIMAN
ARCHITECT II

REVIEWED BY:
ROSETTE A. COLENTAVA
ENGINEER II
DATE:

SUBMITTED BY:
CELIA M. RAMOS
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED BY:
REGINA H. AGUSTIN
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED BY:
JOHN PAOLO S. TAN
OIC-DISTRICT ENGINEER
DATE:

1 Load Schedule
E-19 SCALE NTS

2 Design Analysis
E-19 SCALE NTS

LOAD SCHEDULE AND COMPUTATION														
Panel Board Name:		PAH2				Source: MDP								
Supply Voltage:		400 V Line to Line, Three Phase, Four Wire System				Mounting Type: Wall Mounted								
Number of Circuit		Provide 27 Circuits & 1 Spare				Enclosure: NEMA Class 1								
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			Three Phase	CB Rating			Home Run Description	
	CO	LO	Location			Single Phase Load Current, Ampere				AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C - N						
1	1		Main BC	AHU-1A 12.5TR (20.5HP)	19,398				28.00	40	150	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
2	1		Main BC	AHU-1A 12.5TR (20.5HP)	19,398				28.00	40	150	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
3	1		Main BC	AHU-1A 12.5TR (20.5HP)	19,398				28.00	40	150	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
4	1		Main BC	AHU-1A 12.5TR (20.5HP)	19,398				28.00	40	150	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
5	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0 mm2 THHN	27 mmφ IMC
6	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0 mm2 THHN	27 mmφ IMC
7	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0 mm2 THHN	27 mmφ IMC
8	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0 mm2 THHN	27 mmφ IMC
9	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0 mm2 THHN	27 mmφ IMC
10	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0 mm2 THHN	27 mmφ IMC
11	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0 mm2 THHN	27 mmφ IMC
12	1		Main BC	AHU-2A 25TR (42.5HP)	39,074				56.40	70	150	3	4-14.0 mm2 THHN + 1 - 8.0 mm2 THHN	27 mmφ IMC
13	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
14	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
15	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
16	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
17	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
18	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
19	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
20	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
21	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
22	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
23	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
24	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
25	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
26	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
27	1		MPA & Badminton C	AHU-3A 28.5TR (50HP) Provision	45,032				65.00	100	150	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
28			Ground Floor	Spare						100	150	3		
Total	27				1,065,665	0.00	0.00	0.00	1538.20					
Total Maximum Non Coincident Demand, Volt Ampere						1,065,665								
Total Maximum Non Coincident Demand, Ampere						1,538.20								
Total Line Current with the application of Demand Factor, Ampere						1554.40								
Size and type of Feeder Conductor						4X(4 - 400.0 mm2 THHN + 1 - 30.0 mm2 THHN grounding in 129 mmφ IMC)								
Size and Rating of Protective Device						2000 Ampere, 2500 AF, 400 V, 3 pole, CB								

Design Analysis for PAH2					
Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article in PEC 2017
1	AHU-1A 12.51TR (20.5HP)	19398	19398	100.00	
2	AHU-1A 12.51TR (20.5HP)	19398	19398	100.00	
3	AHU-1A 12.51TR (20.5HP)	19398	19398	100.00	
4	AHU-1A 12.51TR (20.5HP)	19398	19398	100.00	
5	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
6	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
7	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
8	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
9	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
10	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
11	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
12	AHU-2A 251TR (42.5HP)	39074	39074	100.00	
13	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
14	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
15	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
16	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
17	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
18	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
19	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
20	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
21	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
22	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
23	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
24	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
25	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
26	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
27	AHU-3A 28.51TR (50HP)	45032	45032	100.00	
Sub Total		1,065,664.00	1,065,664.00		
Total		1,065,664.00	1,065,664.00		

Total Load of MDP	Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
	1,065,664.00	1,065,664.00
Total Load of MDP	Non-Coincident Load, Ampere	Coincident Load, Ampere
	1,538.20	1,554.40

LOAD SCHEDULE AND COMPUTATION														
Panel Board Name:		PACU				Source: MDP								
Supply Voltage:		400 V Line to Line, Three Phase, Four Wire System				Mounting Type: Wall Mounted								
Number of Circuit		Provide 4 Circuits & 2 Spare				Enclosure: NEMA Class 1								
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			Three Phase	CB Rating			Home Run Description	
	CO	LO	Location			Single Phase Load Current, Ampere				AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C - N						
1	1		Room 1	ACCU-1 D 2TR (3HP)	3,910		17,000			30	63	1	2- 5.5 mm2 THHN + 1- 5.5 mm2 THHN	16 mmΦ PVC
2	1		Room 2	ACCU-1 D 2TR (3HP)	3,910		17,000			30	63	1	2- 5.5 mm2 THHN + 1- 5.5 mm2 THHN	16 mmΦ PVC
3	1		Room 3	ACCU-1 D 2TR (3HP)	3,910			17,000		30	63	1	2- 5.5 mm2 THHN + 1- 5.5 mm2 THHN	16 mmΦ PVC
4	1		Spare Room	ACCU-3D 4TR (8HP)	9,200	44,900				60	63	1	2- 14.0 mm2 THHN + 1- 5.5 mm2 THHN	27 mmΦ PVC
5	1		Ground Floor	Spare						30	63	1		
6	1		Ground Floor	Spare						30	63	1		
Total	6				20,930	44.90	34.00	17.00	0.00					
Total Maximum Non Coincident Demand, Volt Ampere							20,930							
Total Maximum Non Coincident Demand, Ampere							55.37							
Total Line Current with the application of Demand Factor, Ampere							33.53							
Size and type of Feeder Conductor							4- 8.0 mm2 THHN + 1- 5.5 mm2 THHN grounding in 21 mmΦ IMC							
Size and Rating of Protective Device							50 Ampere, 60 AF, 400 V, 3 pole, CB							

Design Analysis for PACU					
Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article in PEC 2017
1	ACCU	3,910.00	3,910.00	100.00	
2	ACCU	3,910.00	3,910.00	100.00	
3	ACCU	3,910.00	3,910.00	100.00	
4	ACCU	9,200.00	9,200.00	100.00	
Sub Total		20,930.00	20,930.00		
Total		20,930.00	20,930.00		

Total Load of MDP	Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
	20,930.00	20,930.00
Total Load of MDP	Non-Coincident Load, Ampere	Coincident Load, Ampere
	30.21	33.53



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BATAAN FIRST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE III
ROMAN EXPRESSWAY MULAWIN, ORANI, BATAAN

PROJECT NAME AND LOCATION :
BASIC INFRASTRUCTURE PROGRAM -
MULTI - PURPOSE BUILDINGS/FACILITIES TO
SUPPORT SOCIAL SERVICE - CONSTRUCTION
OF MULTI-PURPOSE BUILDING (GYMNASIUM),
SAMAL, BATAAN

SHEET CONTENT :
AS SHOWN

DRAFTED BY:
REYNALDO S. ANTONIO
DRAFTSMAN II
PREPARED BY:
ROLANDO P. SOLIMAN
ARCHITECT II

REVIEWED BY:
ROSETE A. COLONTAVA
ENGINEER II
DATE:

SUBMITTED BY :
CELIA M. RAMOS
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED :
REGINA H. AGUSTIN
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED :
JOHN PADLO S. TAN
OIC-DISTRICT ENGINEER
DATE:

SET NO. 31
SHT. NO. 65

LOAD SCHEDULE AND COMPUTATION														
Panel Board Name:		PFAN					Source: MDP							
		400 V Line to Line, Three Phase, Four Wire System					Mounting Type: Wall Mounted							
Number of Circuit		Provide 16 Circuits & 2 Spare					Enclosure: NEMA Class 1							
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			Three Phase	CB Rating			Home Run Description	
	CO	LO	Location			Single Phase Load Current, Ampere				AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C - N						
1	10		MAIN BASKETBALL COURT PLAYER'S RM 1 & 2: TOILET & BATH, BADMINTON COURT / MULTI-PURPOSE AREA PLAYER'S RM 1 TO 6	EF-1 - 10 Units	1,200			5.22		30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
2	2		MULTI-PURPOSE AREA PLAYER'S RM 1 TO 4: TOILET	EF-2 - 2 Units Provision	620	2.70				30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
3	1		VIP LOUNGE: PANTRY & TOILET (HE)	EF-3 - 1 Units	310		1.35			30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
4	2		STORAGE AREA, UTILITY & LOBBY TOILET (SHE) AND PLAYER'S LOUNGE 1 & 2 TOILET & LOCKER TOILET	EF-4 - 2 Units	860	3.74				30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
5	1		TOILET (HE) & (SHE). PWD TOILET	EF-5 - 1 Unit	520	2.26				30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
6	1		ELECTRICAL RM, STORAGE AREA & LOCKER TOILET	EF-6 - 1 Unit	840		3.65			30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
7	1		EQUIPMENT STORAGE	EF-7 - 1 Unit	160	0.70				30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
8	1		ELECTRICAL EQUIPMENT STORAGE	EF-8 - 1 Unit	840		3.65			30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
9	1		ELECTRICAL EQUIPMENT STORAGE	EF-9 - 1 Unit	840			3.65		30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
10	8		Badminton C/ MPA	WEF -1 (10 SHP EACH) - 8 Units	83,136				120.00	150	200	3	4 - 50.0 mm2 THHN + 1 - 14.0 mm2 THHN	53 mmφ IMC
11	8		MBC	WEF -2 (5.5HP EACH) - 8 Units	47,665				68.80	90	200	3	4 - 22.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
12	6		MPA Player's Rm 1 to 6	FAF-1 - 6 Units Provision	180		0.78			30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
13	8		MBC	FAF-2 (5.5HP EACH) - 8 Units	47,665				68.80	90	200	3	4 - 22.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
14	2		Badminton C/ MPA	FAB-1 (30HP EACH) - 2 Units Provision	55,424				80.00	100	200	3	4 - 30.0 mm2 THHN + 1 - 8.0 mm2 THHN	35mmφ IMC
15	1		Ping Pong C/ Storage Area	CEF-1 - 1 Unit	30		0.13			30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
16	8		OTHER AREA'S TOILETS	CEF-4	480		2.09			30	200	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ IMC
17			Ground Floor	Spare						30	200	1		
18			Ground Floor	Spare						30	200	1		
Total	61				240,769	9.39	10.74	9.78	337.60					
Total Maximum Non Coincident Demand, Volt Ampere								240,769						
Total Maximum Non Coincident Demand, Ampere								354.87						
Total Line Current with the application of Demand Factor, Ampere								357.61						
Size and type of Feeder Conductor								4 - 400.0 mm2 THHN + 1 - 38.0 mm2 THHN grounding in 129 mmφ IMC						
Size and Rating of Protective Device								500 Ampere, 600 AF, 400 V, 3 pole, CB						

Design Analysis for PFAN					
Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article In PEC 2017
1	EF-1 (6)	1,200	1,200	100.00	
2	EF-2 (4)	620	620	100.00	
3	EF-3 (2)	310	310	100.00	
4	EF-4 (1)	860	860	100.00	
5	EF-5 (1)	520	520	100.00	
6	EF-6 (1)	840	840	100.00	
7	EF-7 (1)	160	160	100.00	
8	EF-8 (1)	840	840	100.00	
9	EF-9 (1)	840	840	100.00	
10	WEF-1 (8)	83,136	83,137	100.00	
11	WEF-2 (8)	47,665	47,665	100.00	
12	FAF-1 (6)	180	180	100.00	
13	FAF-2 (8)	47,665	47,665	100.00	
14	FAB-1 (2)	55,424	55,424	100.00	
15	CEF-1	30	31	100.00	
16	CEF-4	540	540	100.00	
Sub Total		240,829.28	240,831.28		
Total		240,829.28	240,831.28		

Total Load of MDP		
Total Load of MDP	Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
	240,829.28	240,831.28
Total Load of MDP	Non-Coincident Load, Ampere	Coincident Load, Ampere
	347.62	357.61

LOAD SCHEDULE AND COMPUTATION														
Panel Board Name:		PPBP				Source :MDP								
Supply Voltage:		400 V Line to Line, Three Phase, Four Wire System				Mounting Type: Wall Mounted								
Number of Circuit		Provide 2Circuits & 2 Spare				Enclosure: NEMA Class 1								
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			Three Phase	CB Rating			Home Run Description	
	CO	LO	Location			Single Phase Load Current, Ampere				AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C - N						
1	1		Ground Floor	Booster Pump (7.5HP), 400V Duty	7,621				11.00	30	63	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ PVC
2	1		Ground Floor	Booster Pump (7.5HP), 400V Duty	7,621				11.00	30	63	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ PVC
3	1		Ground Floor	Booster Pump (7.5HP), 400V Stand-by	7,621				11.00	30	63	1	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ PVC
4			Ground Floor	Spare						30	63	1		
Total	3				22,862	0.00	0.00	0.00	33.00					
Total Maximum Non Coincident Demand, Volt Ampere						22,862								
Total Maximum Non Coincident Demand, Ampere						33.00								
Total Line Current with the application of Demand Factor, Ampere						33.00								
Size and type of Feeder Conductor						4 - 8.0 mm2 THHN + 1 - 5.5 mm2 THHN grounding in 21 mmφ IMC								
Size and Rating of Protective Device						50 Ampere, 70 AF, 400V, 3 pole, CB								

Design Analysis for PPBP					
Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article In PEC 2017
1	Booster Pumps	22,862.00	22,862.00	100.00	Section 2.20.3.3
Sub Total		22,862.00	22,862.00		
Total		22,862.00	22,862.00		

Total Load of MDP		
Total Load of MDP	Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
	22,862.00	22,862.00
Total Load of MDP	Non-Coincident Load, Ampere	Coincident Load, Ampere
	33.00	33.00

1 Load Schedule E-21 SCALE NTS

LOAD SCHEDULE AND COMPUTATION														
Panel Board Name:				Source: MDP										
Supply Voltage:				400 V line to line, Three Phase, Four Wire System										
Number of Circuit				Provide 2 Circuits & 2 Spare										
				Enclosure: NEMA Class 1										
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			Three Phase	CB Rating			Home Run Description	
	CO	LO	Location			Single Phase Load Current, Ampere				AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C - N						
1	1		Ground Floor	Jockey Pump (5HP), 400V	5,265				7.60	30	63	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ PVC
2	1		Ground Floor	Fire Pump (20HP), 400V	18,706				27.00	40	63	3	4 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmφ PVC
3			Ground Floor	Spare						30	63	1		
4			Ground Floor	Spare						30	63	1		
Total	2				23,971	0.00	0.00	0.00	34.60					
Total Maximum Non Coincident Demand, Volt Ampere						23,971								
Total Maximum Non Coincident Demand, Ampere						34.60								
Total Line Current with the application of Demand Factor, Ampere						67.55								
Size and type of Feeder Conductor						4 - 22.0 mm2 THHN + 1 - 8.0 mm2 THHN grounding in 35 mmφ IMC								
Size and Rating of Protective Device						80 Ampere, 100 AF, 400 V, 3 pole, CB								

Panel Board Name:				DPRD				Source: MDP						
Supply Voltage:				400 V Line to Line, Three Phase, Four Wire System				Mounting Type: Wall Mounted						
Number of Circuit:				Provide 1 Circuit & 1 Spare				Enclosure: NEMA Class 1						
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			Three Phase	CB Rating			Home Run Description	
	CO	LO	Location			Single Phase Load Current, Ampere				AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C - N						
1	1		Roofdeck	Elevator (15HP), 400V	14,549				21.00	40	70	3	4 - 5.5 mm2 FR + 1 - 5.5 mm2 FR	16 mmφ IMC
2				Spare						30	70	3		
Total	1				14,549	0.00	0.00	0.00	21.00					
Total Maximum Non Coincident Demand, Volt Ampere										14,549				
Total Maximum Non Coincident Demand, Ampere										21.00				
Total Line Current with the application of Demand Factor, Ampere										26.25				
Size and type of Feeder Conductor										4 - 8.0 mm2 FR + 1 - 5.5 mm2 FR grounding in 21 mmφ IMC				
Size and Rating of Protective Device										50 Ampere, 70 AF, 400 V, 3 pole, CB				

LOAD SCHEDULE AND COMPUTATION														
Panel Board Name:		PAUX				Source: MDP								
Supply Voltage:		400 V Line to Line, Three Phase, Four Wire System				Mounting Type: Wall Mounted								
Number of Circuit		Provide 13 Circuits & 1 Spare				Enclosure: NEMA Class 1								
Circuit Number	Item			Circuit Description	Power, Volt-Ampere	Demand			Three Phase	CB Rating			Home Run Description	
	CO	LO	Location			Single Phase Load Current, Ampere				AT	AF	P	Conductor Size and Type	Conduit Size
						Phase A - N	Phase B - N	Phase C -N						
1	1		Main BC	CCTV - Main Area, Perimeter and Walkway	3,500	15.22				30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
2	1		Main BC	Sound System and Public Adress System	3,000		13.04			30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
3	12		Main BC	Television and Monitor	6,000			26.09		30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
4	1		Main BC	Point of Sales (POS)	1,500	6.52				30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
5	4		Main BC	Score Board	2,000		8.70			30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
6	4		Main BC	Digital Clock and Counter	1,000			4.35		30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
7	1		Main BC	Telephone/Data/Wifi	1,500	6.52				30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
8	1		VIP Lounge	Access Control	1,000			4.35		30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
9	2		Main BC	Entertainment System	3,000			13.04		30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
10	2		Main BC	Control System	3,000		13.04			30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
11	1		Main BC	Public Adress System (VIP)	1,000			4.35		30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
12	2		Main BC	Signage	2,000		8.70			30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
13	2		Main BC	Entertainment Billboard	2,000		8.70			30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
14	3		Front Gate	ATM Machine	3,000	13.04				30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
15	4		Parking	RFID and Parking System	3,200	13.91				30	50	1	2 - 5.5 mm2 THHN + 1 - 5.5 mm2 THHN	16 mmø PVC
16	1		Main BC	Spare										
17	1		Main BC	Spare										
18			Ground Floor	Spare										
Total	43				36,700	55.22	52.17	52.17	-					
Total Maximum Non Coincident Demand, Volt Ampere					36,700									
Total Maximum Non Coincident Demand, Ampere					53.19									
Total Line Current with the application of Demand Factor, Ampere					53.19									
Size and type of Feeder Conductor					4 - 22.0 mm2 THHN + 1 - 8.0 mm2 THHN grounding in 35 mmø IMC									
Size and Rating of Protective Device					100 Ampere, 150 AF, 400 V, 3 pole, CB									

2 Design Analysis E-21 SCALE NTS

Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article in PEC 2017
1	Jockey Pump (5HP)	5,265.28	5,265.28	100.00	Section 2.20.3.3
2	Fire Pump (20 HP)	18,705.60	18,705.60	100.00	Section 2.20.3.3
Sub Total		23,970.88	23,970.88		
Total		23,970.88	23,970.88		

Total Load of MDP		Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
		23,970.88	23,970.88
Total Load of MDP		Non-Coincident Load, Ampere	Coincident Load, Ampere
		34.60	41.35

Design Analysis for DPRD					
Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article in PEC 2017
1	Elevator (15HP)	14,549.00	14,549.00	100.00	Section 2.20.3.3
Sub Total		14,549.00	14,549.00		
Total		14,549.00	14,549.00		

Total Load of MDP		Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
		14,549.00	14,549.00
Total Load of MDP		Non-Coincident Load, Ampere	Coincident Load, Ampere
		21.00	26.25

Design Analysis for PAUX					
Item	Load Circuit Description	Non-Coincident Load, Watts	Coincident Load, Watts	Demand Factor	Reference Article in PEC 2017
1	Telecoms	36,700.00	36,700.00	100.00	Section 2.20.3.3
Sub Total		36,700.00	36,700.00		
Total		36,700.00	36,700.00		

Total Load of MDP		Non-Coincident Load, Volt-Ampere	Coincident Load, Volt-Ampere
		36,700.00	36,700.00
Total Load of MDP		Non-Coincident Load, Ampere	Coincident Load, Ampere
		52.97	52.97



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BATAAN FIRST DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE III
ROMAN EXPRESSWAY MULAAN, ORANI, BATAAN

PROJECT NAME AND LOCATION :
BASIC INFRASTRUCTURE PROGRAM - MULTI - PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICE - CONSTRUCTION OF MULTI-PURPOSE BUILDING (GYMNASIUM), SAMAL, BATAAN

SHEET CONTENT :
AS SHOWN

DRAFTED BY:
REYNALDO BLANTONIO
DRAFTSMAN II
PREPARED BY:
ROLANDO P. SOLIMAN
ARCHITECT II

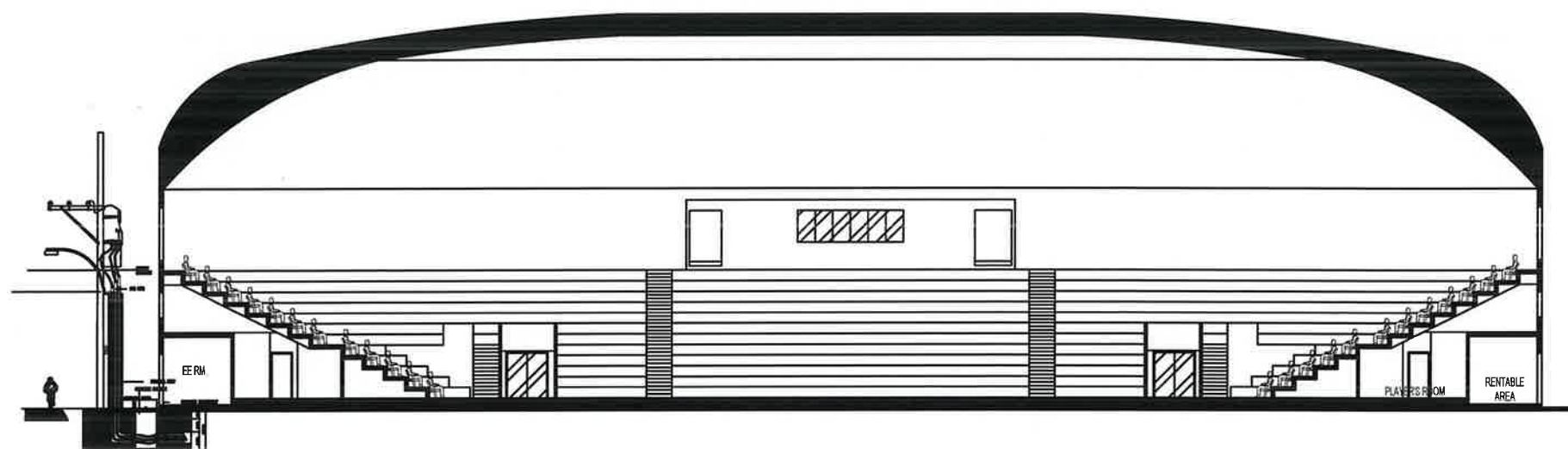
REVIEWED BY:
ROSETTE A. COLENTAVA
ENGINEER II
DATE:

SUBMITTED BY :
CELIA M. RAMOS
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED :
REGINA H. AGUSTIN
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED :
JOHN PAOLO S. TAN
OIC-DISTRICT ENGINEER
DATE:

SHEET NO. 33
SHT. NO. 65



MAIN ARENA
CROSS SECTION
SCALE: 1:100MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BATAAN FIRST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE III
ROMAN EXPRESSWAY MULAWIN, ORANI, BATAAN

PROJECT NAME AND LOCATION :
BASIC INFRASTRUCTURE PROGRAM -
MULTI - PURPOSE BUILDINGS/FACILITIES TO
SUPPORT SOCIAL SERVICE - CONSTRUCTION
OF MULTI-PURPOSE BUILDING (GYMNASIUM),
SAMAL, BATAAN

AS SHOWN

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REGINA H. AGUSTIN
ASSISTANT DISTRICT ENGINEER
DATE:

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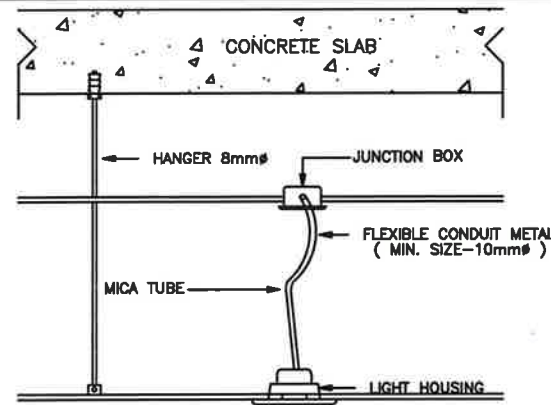
DIST. NO. 34
OIT. NO. 65

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN STRICT COMPLIANCE WITH THE RULES SET BY THE LATEST PHILIPPINE ELECTRICAL CODE, THE REQUIREMENT OF MERALCO AND THE RULES AND REGULATIONS OF ALL LOCAL AND NATIONAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS
- POWER SUPPLIED BY MERALCO SHALL BE THREE PHASE, 400 VOLT, 60 HZ WITH NEUTRAL & GROUNDING CONDUCTOR.
- ALL WORKS HEREUNDER SHALL BE DONE IN CONDUIT RUN. CONDUIT SHALL BE 15 MM ϕ SHALL BE USED PVC OR INTERMEDIATE METALLIC CONDUIT (IMC), THE SERVICE CONDUCTOR ON THE OTHER HAND SHALL USED INTERMEDIATE METALLIC CONDUIT (IMC). BRANCH CIRCUIT AND AUXILIARY SYSTEM SHALL BE DONE IN G.I. WITH ALL EQUIPMENT IN PROPER GROUNDING MEANS.
- THE MINIMUM SIZE OF WIRE SHALL BE 3.5 SQ. MM. GROUNDING WIRE SHALL BE PROPERLY IDENTIFIED BY GREEN INSULATION AND SHALL BE SIZE BASED ON THE PROTECTIVE DEVICE
- THE BASIC INSULATION LEVEL OF THE CONDUCTOR SHALL BE AT 600 V WITH THERMOPLASTIC INSULATION TYPE THHN OR THWN OR ANY APPROVED EQUIVALENCE.
- ALL CONDUCTORS SHALL MADE FROM PURE COPPER
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND APPROVED TYPE FOR BOTH INTENDED LOCATION AND PURPOSED
- ALL CONDUIT RUNS SHALL BE CONTINUOUS FROM BOXES TO BOXES COMPLETE WITH PROPER FITTINGS AND SUPPORT. NO JOINTS SHALL BE DONE WITHIN RUNS EXCEPT IN JUNCTION AND PULL BOXES.
- ALL JOINTS AND SPLICES SHALL BE COVERED WITH PROPER INSULATION EQUIVALENT TO THE INSULATION SET IN ITEM 5 AND THERE SHALL BE NO EXPOSED WIRING.
- USED G.A. 18 DEEP TYPE UTILITY BOXES FOR CONVENIENCE OUTLET, SWITCHES AND AIR CONDITIONING OUTLET, 4-11/16" AND 4" OCTAGONAL BOXES FOR LIGHT OUTLET.
- USED POLYCARBONATE, GROUNDING TYPE CONDUIT OUTLET
- USE MCCB, INDUSTRIAL TYPE CONDUIT BRAND
- MOUNTING HEIGHT SHALL BE AS FOLLOWS:
 - CONVENIENCE OUTLET - 60.5 CM ABOVE FINISH GRADE LEVEL FLOOR
 - LIGHT CONTROL SWITCH - 100.5 CM ABOVE FINISH GRADE LEVEL FLOOR
 - TABLE HEIGHT OUTLET - 150 MM ABOVE COUNTER
 - AIRCON OUTLET - VERIFY FROM THE ARCHITECT
 - PANEL BOARD - 1500 MM ABOVE FINISH GRADE LEVEL FLOOR
- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN A WORKMAN-LIKE MANNER AND SHALL DONE UNDER THE DIRECT SUPERVISION FROM COMPETENT LICENSE AND REGISTERED PROFESSIONAL ELECTRICAL ENGINEER

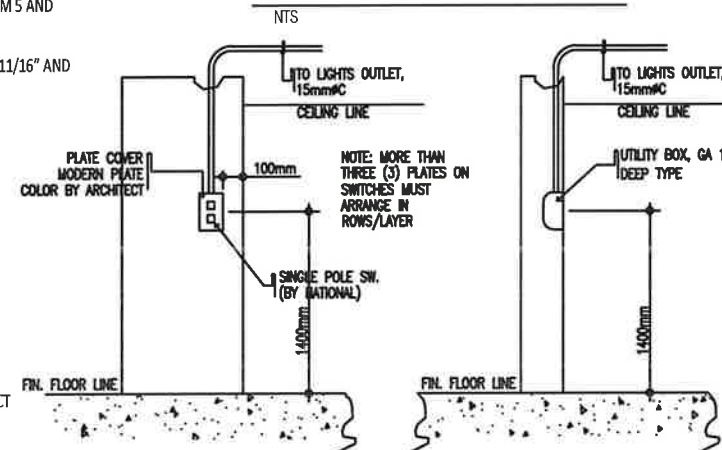
LEGEND	DESCRIPTION	LEGEND	DESCRIPTION	LEGEND	DESCRIPTION
	LED 6 LAMP 75 STRING LIGHT (HIGH BAY FIXTURE 132 WATTS CLEAR (PRIMELIGHTS))		2X10W DOUBLE SQUARE GIMBAL		CHANDLIER
	24W COOL WHITE MESON LED FUNCTIONAL DOWNLIGHT PHILIPS		3X28 SW NATURAL WHITE STYLE STATE TRACKLIGHT PHILIPS		SWITCH
	TROFFER LIGHT 60X60 TS 3X14WATTS		STRIPLIGHT FOR COVE LIGHTING		3WAY SWITCH
	12W WARM WHITE DROSSLER MY GARDEN WALL LIGHT LED WEATHERPROOF		2X14W LUDERE OUTDOOR FLOODLIGHT PHILIPS		SWITCH STATION
	12 W FLOOR MOUNTED UPLIGHT		1X15W UNIBOLLARD PHILIPS		
	GREEN EXIT LIGHT WITH INTERNAL BATTERY		1X150W SMARTBRIGHT FLOODLIGHT PHILIPS		

LEGEND	DESCRIPTION	LEGEND	DESCRIPTION
	2-GANG CONVENIENCE OUTLET ELEV. @ 400mm FROM FLOOR TO THE BOTTOM OF BOX		ELECTRICAL POST
	2-GANG HAND DRYER GFCI (GROUND-FAULT CIRCUIT INTERRUPTER) OUTLET ELEV. @ 1200mm FROM FLOOR TO THE BOTTOM OF BOX		GROUNDING BUSBAR
	2-GANG WATER HEATER OUTLET (CENTRALIZED)		GROUNDING TEST WELL
	SIMPLEX OUTLET FOR EMERGENCY LIGHTS WITH BACK UP BATTERY		LIGHTNING ARRESTER
	WEATHERPROOF OUTLET		
	FLOOR MOUNTED OUTLET		

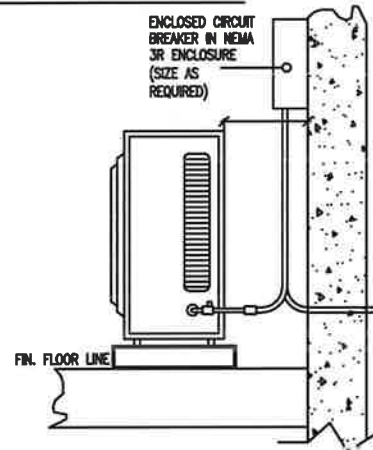
LEGEND	DESCRIPTION
	EXHAUST FAN
	FAN COIL UNIT
	AIR HANDLING UNIT
	WALL EXHAUST FAN (WEF)



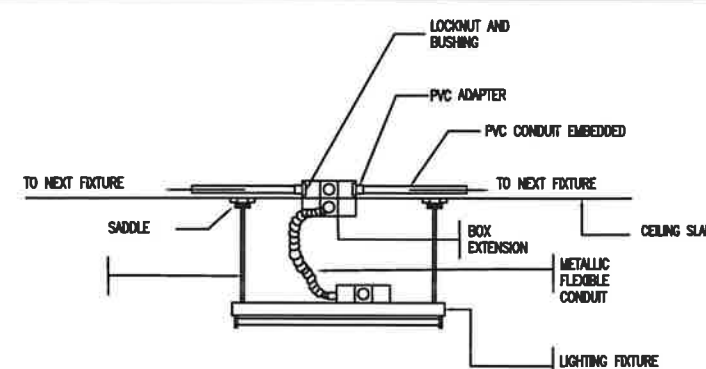
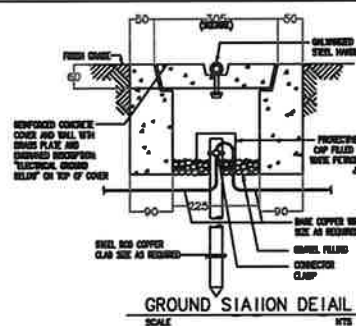
PINLIGHT MOUNTING DETAIL



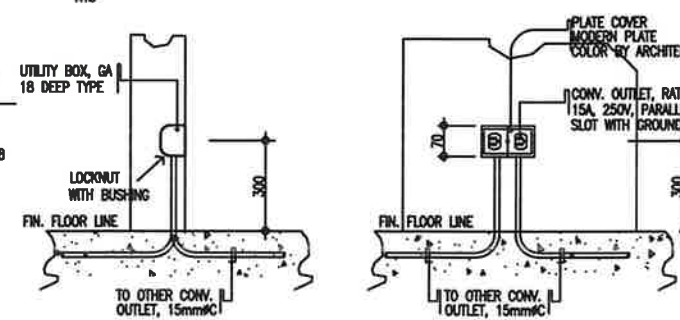
LIGHT SWITCHES DETAIL



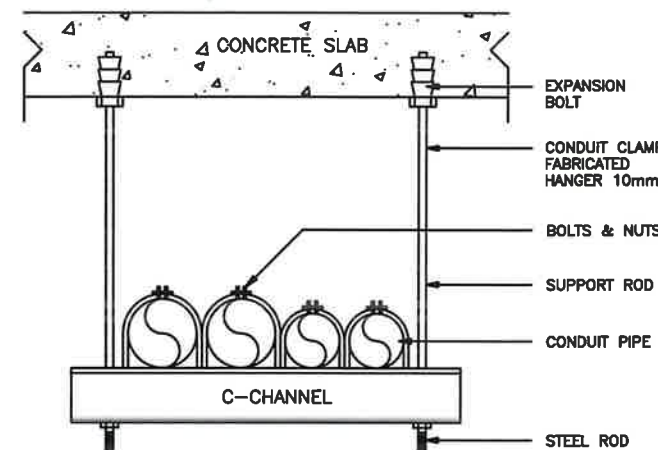
(FOR SPLIT PACKAGE A/C)
ACCUMOUNTING DETAIL



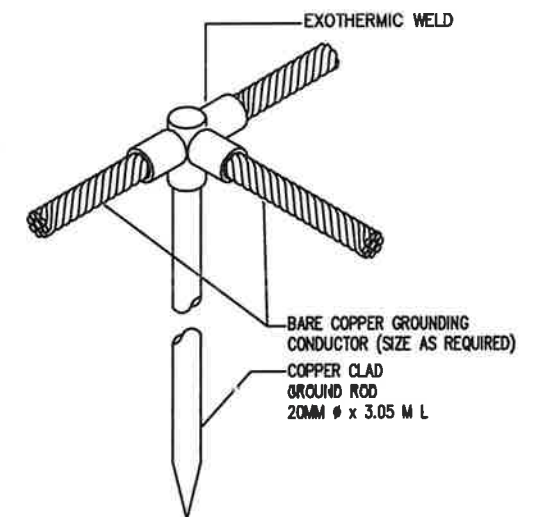
LIGHTING FIXTURE INSTALLATION DETAIL



DUPLEX CONVENIENCE OUTLET DETAIL



CONDUIT HANGER DETAILS



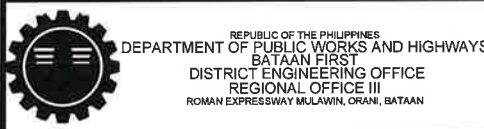
GROUND ROD DETAIL

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ELECTRICAL

1 Installation Details
E-14 SCALE (A1) NTS



PROJECT NAME AND LOCATION :
BASIC INFRASTRUCTURE PROGRAM -
MULTI - PURPOSE BUILDINGS/FACILITIES TO
SUPPORT SOCIAL SERVICE - CONSTRUCTION
OF MULTI-PURPOSE BUILDING (GYMNASIUM),
SAMAL, BATAAN

SHEET CONTENT :
AS SHOWN

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REYNALDO B. ANTONIO
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PREPARED BY:
ROLANDO P. SOLIMAN
ARCHITECT II

REVIEWED BY:
ROSETTE A. COLENTAVA
ENGINEER II
DATE:

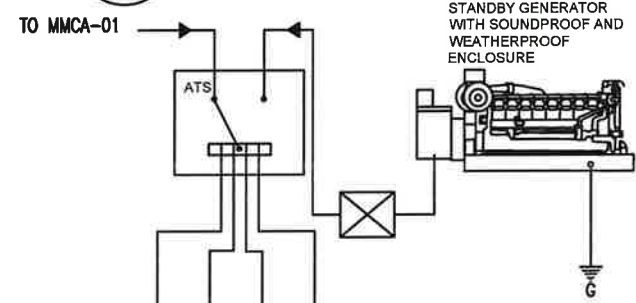
SUBMITTED BY :
CELIA M. RAMOS
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED :
REGINA H. AGUSTIN
ASSISTANT DISTRICT ENGINEER
DATE:

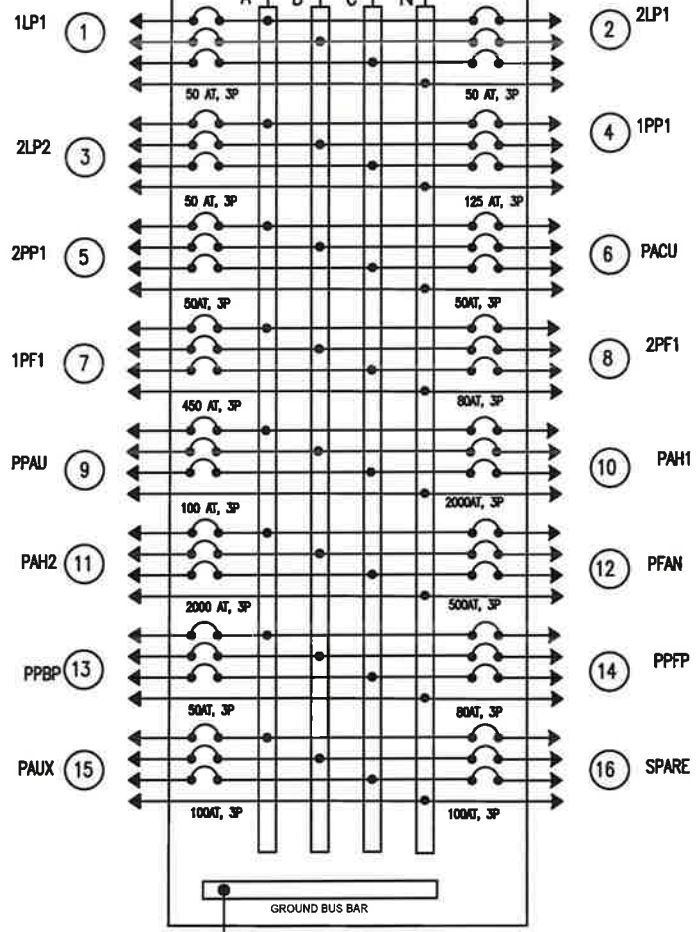
APPROVED :
JOHN PAOLO S. TAN
OIC-DISTRICT ENGINEER
DATE:

SET NO. SHT NO.
E-14 35
65

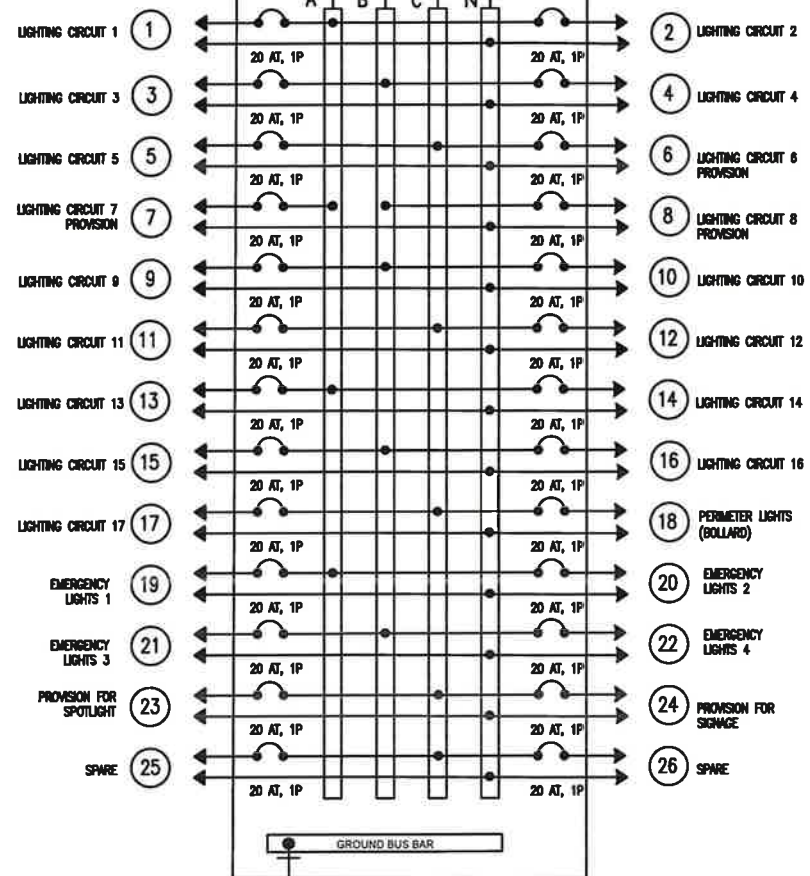
1 Single Line Diagram E-15 SCALE (A1) NTS



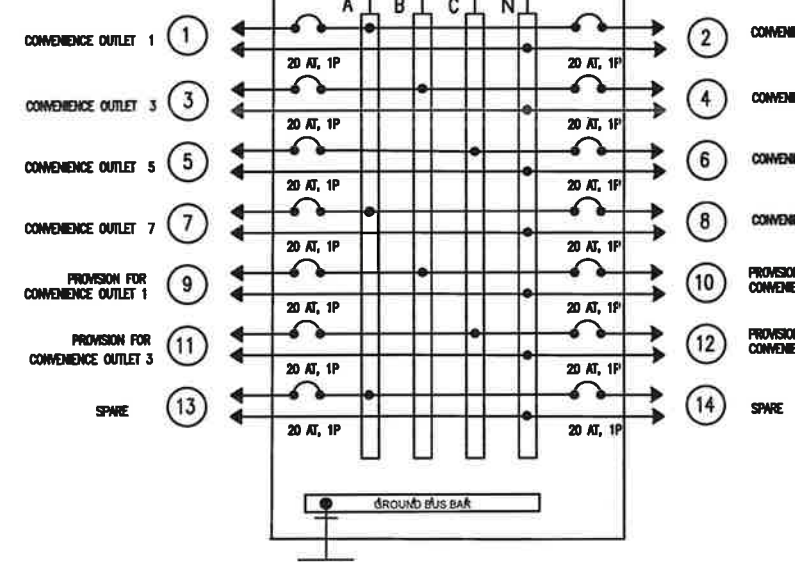
MDP 10x(4 - 400.0 mm² THHN + 1 - 30.0 mm² THHN grounding in 125 mm² MC)



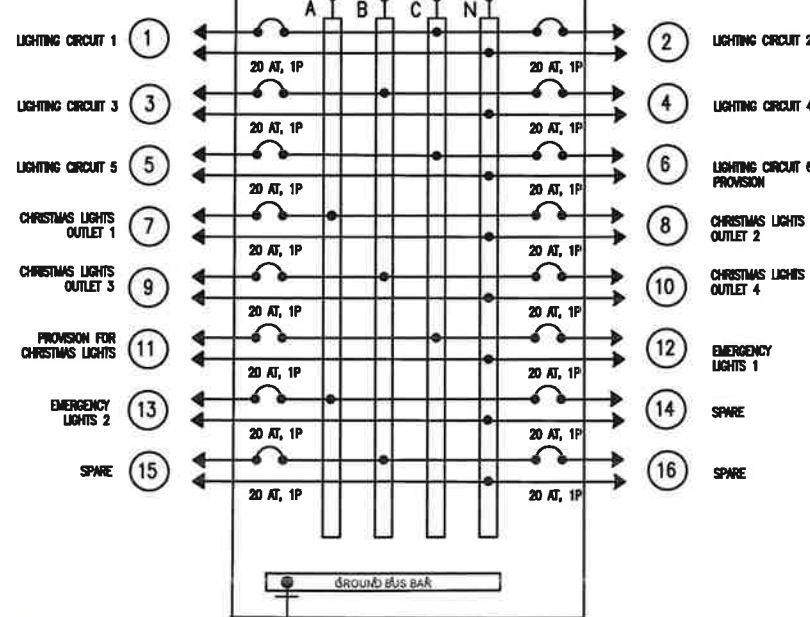
1LP1 4 - 8.0 mm² THHN + 1 - 5.5 mm² THHN grounding in 21 mm² MC



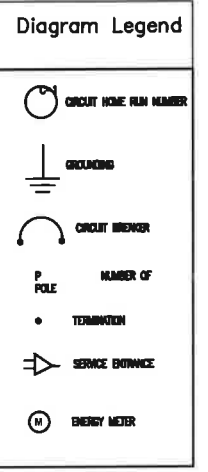
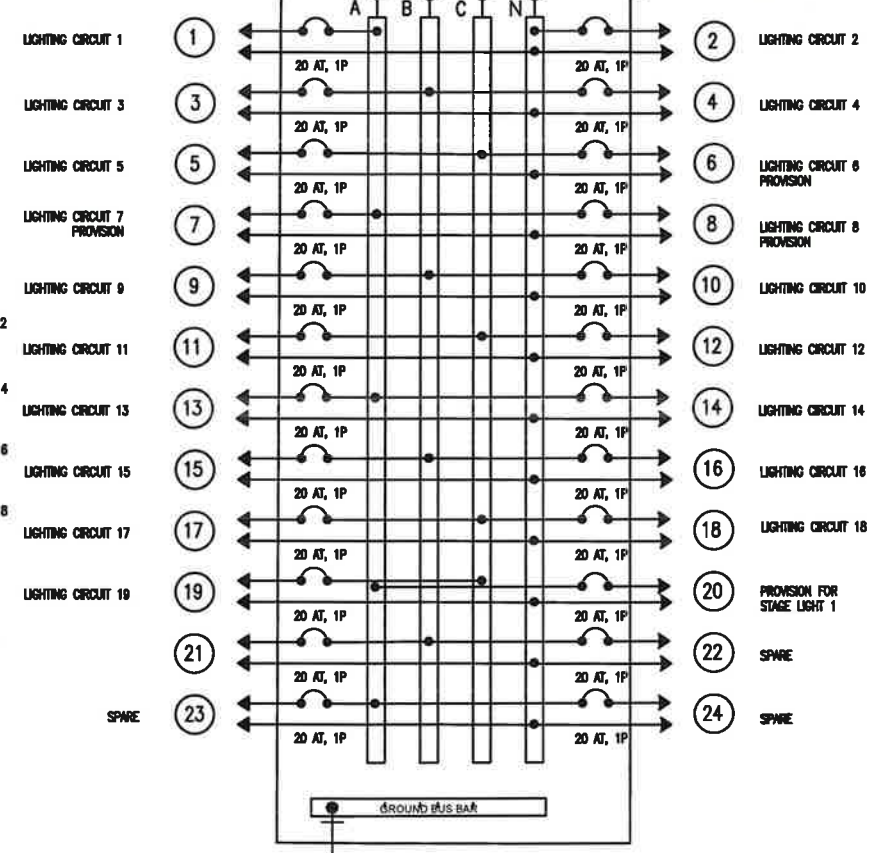
2PP2 4 - 8.0 mm² THHN + 1 - 5.5 mm² THHN grounding in 21 mm² MC



2LP2 4 - 8.0 mm² THHN + 1 - 5.5 mm² THHN grounding in 21 mm² MC



2LP1 4 - 8.0 mm² THHN + 1 - 5.5 mm² THHN grounding in 21 mm² MC



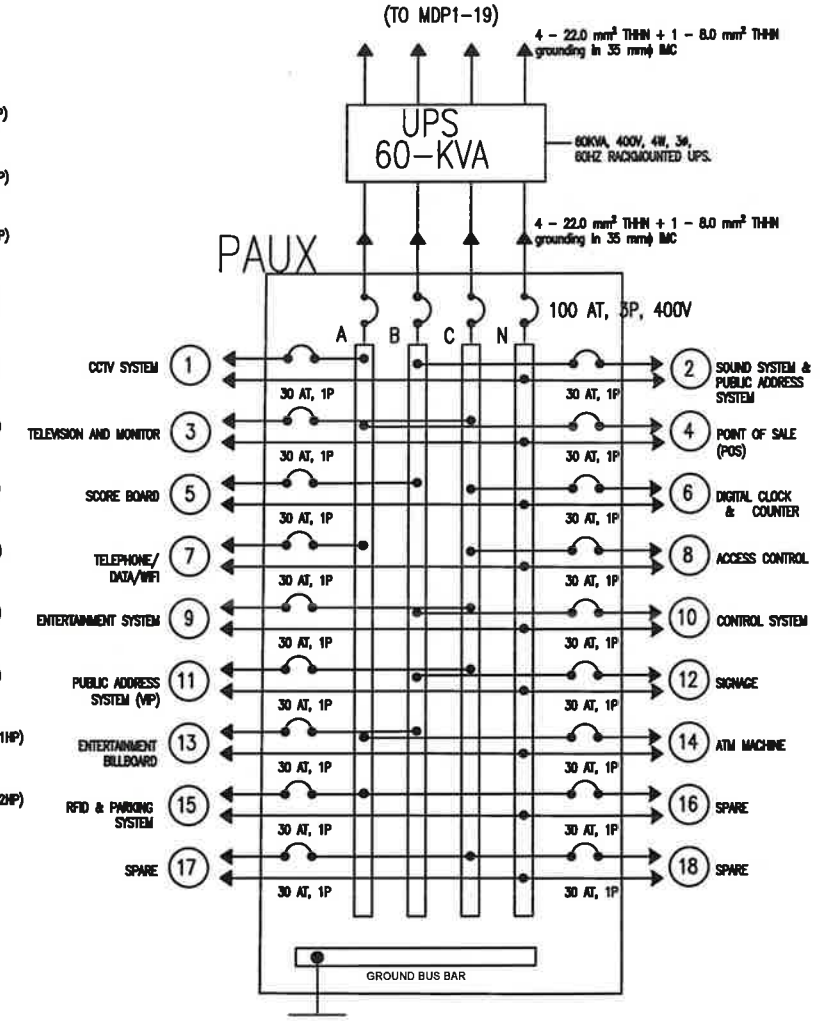
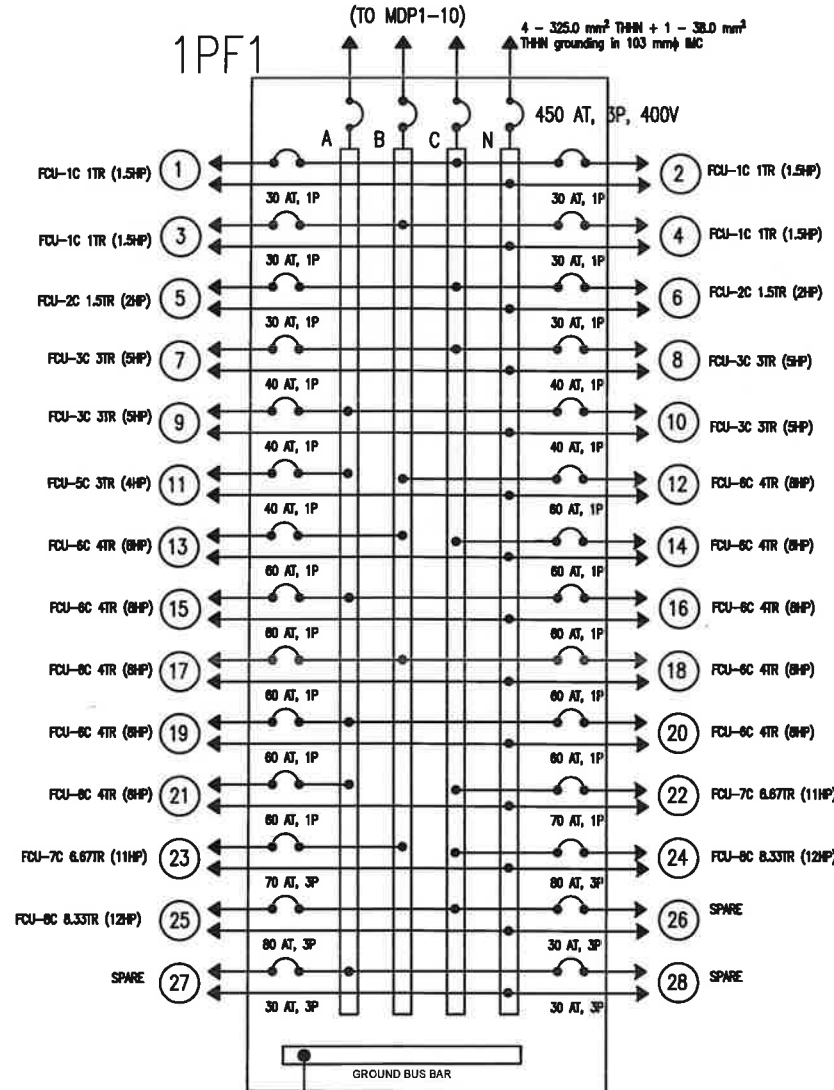
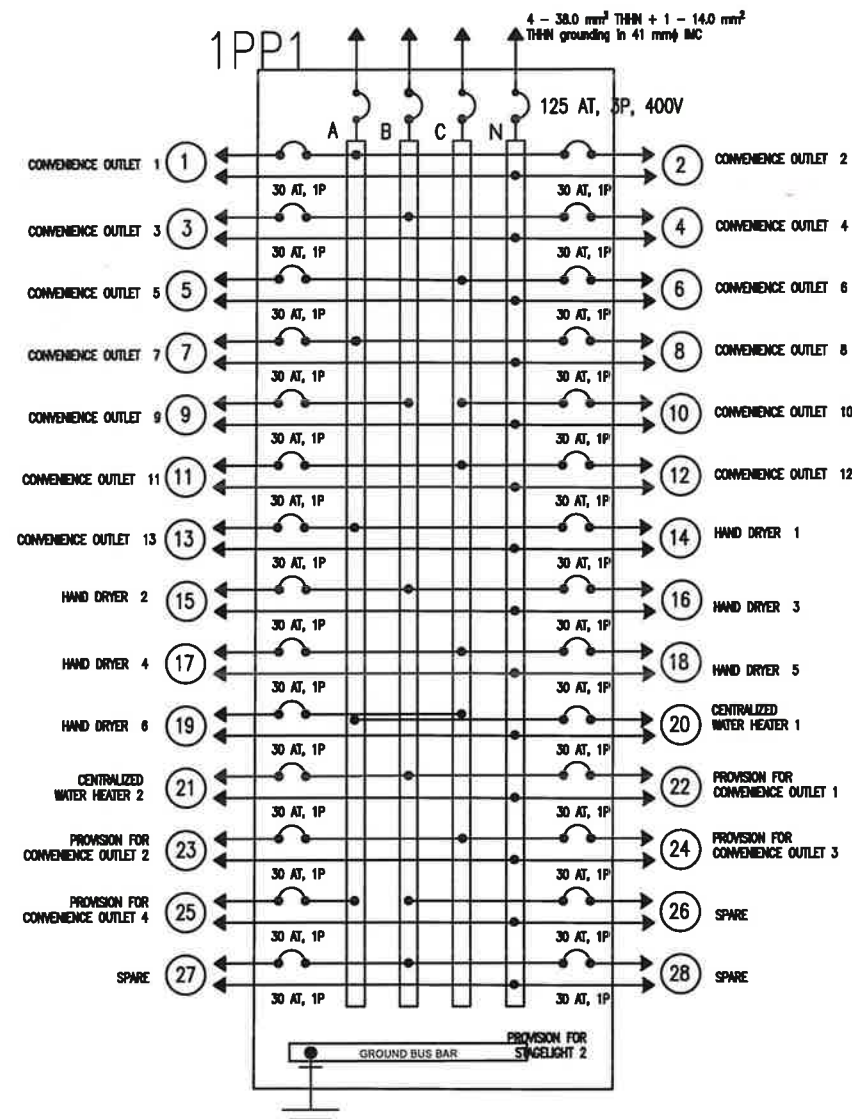
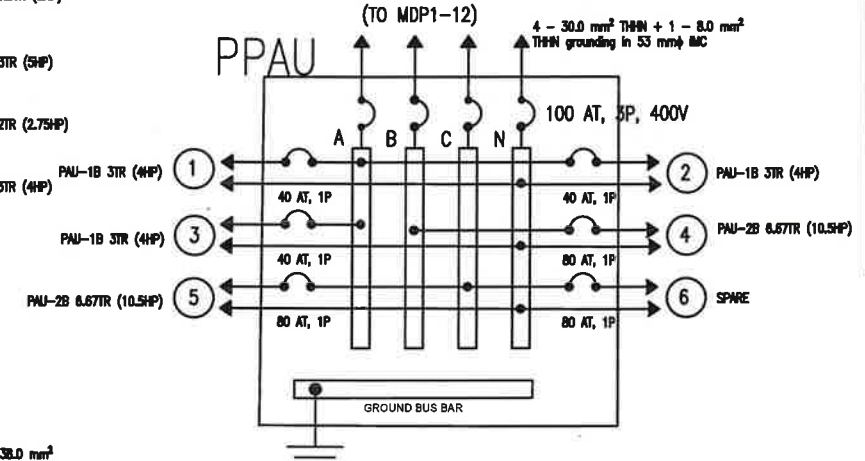
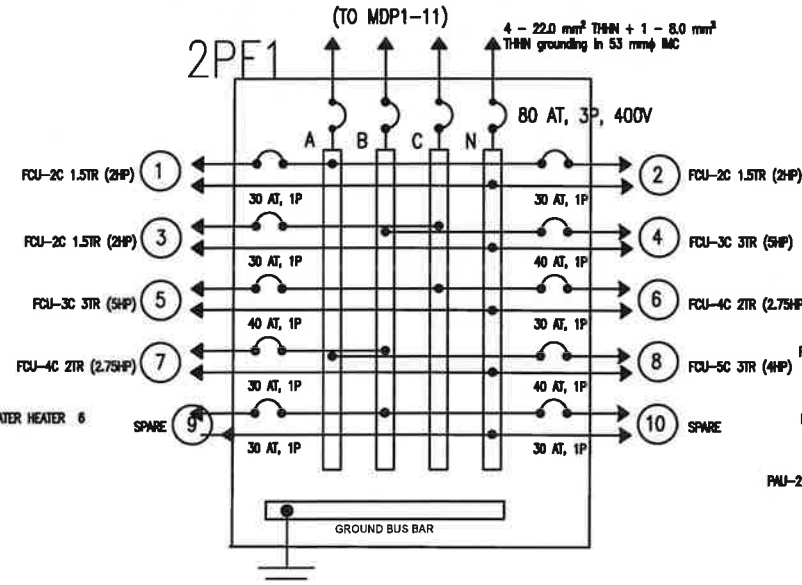
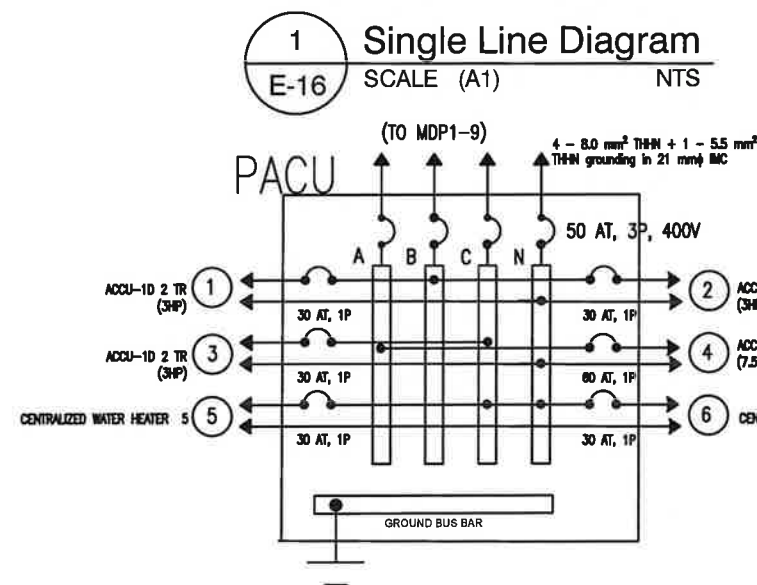
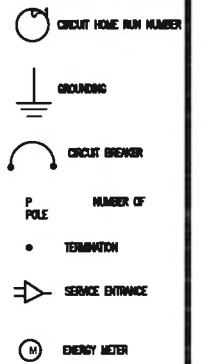


Diagram Legend



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BATAAN FIRST
DISTRICT ENGINEERING OFFICE
REGIONAL OFFICE III
ROMAN EXPRESSWAY MULAWIN, ORANI, BATAAN

PROJECT NAME AND LOCATION :
BASIC INFRASTRUCTURE PROGRAM -
MULTI - PURPOSE BUILDINGS/FACILITIES TO
SUPPORT SOCIAL SERVICE - CONSTRUCTION
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SAMAL, BATAAN

SHEET CONTENT :
AS SHOWN

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DRAFTSMAN II
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DATE:

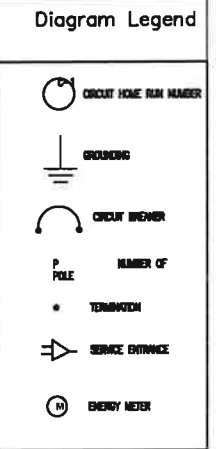
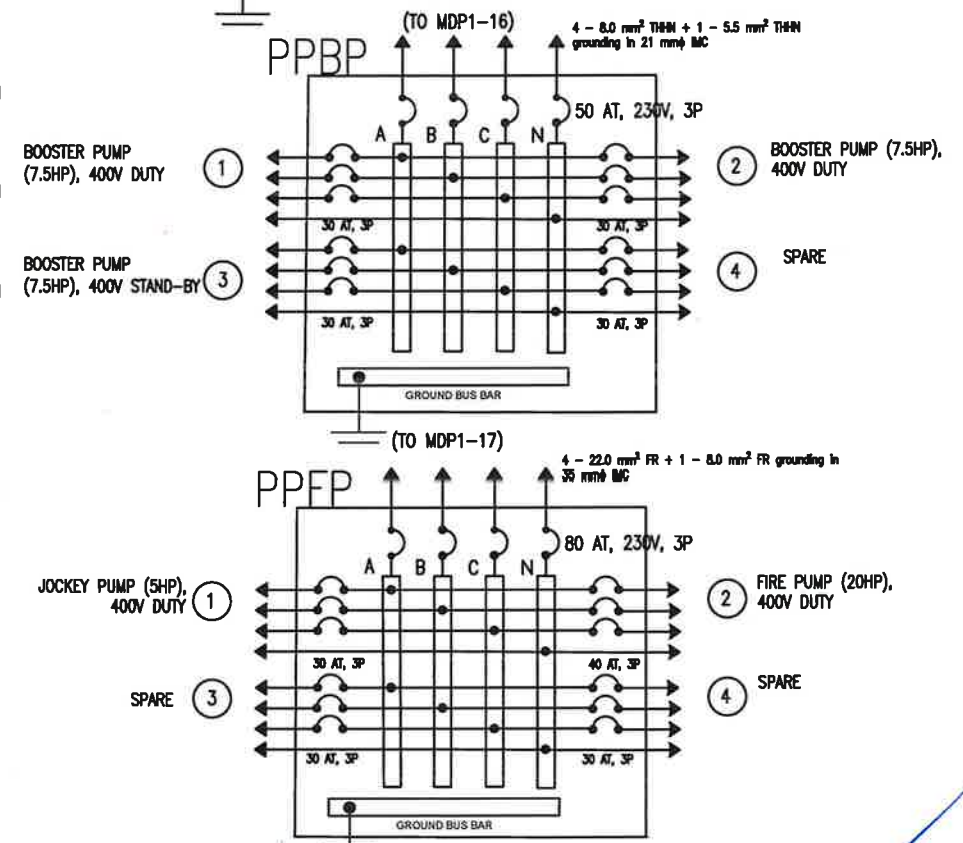
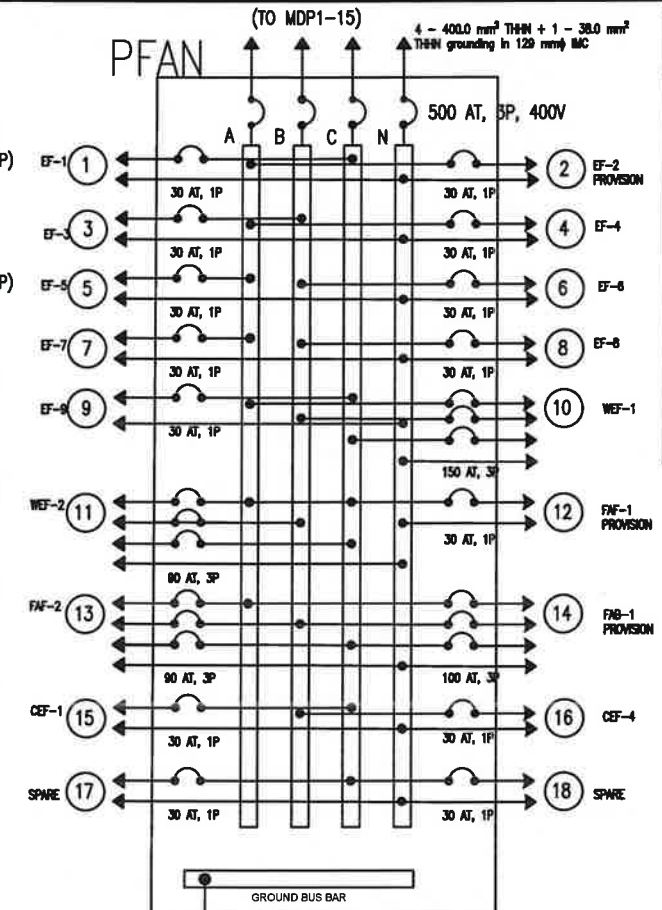
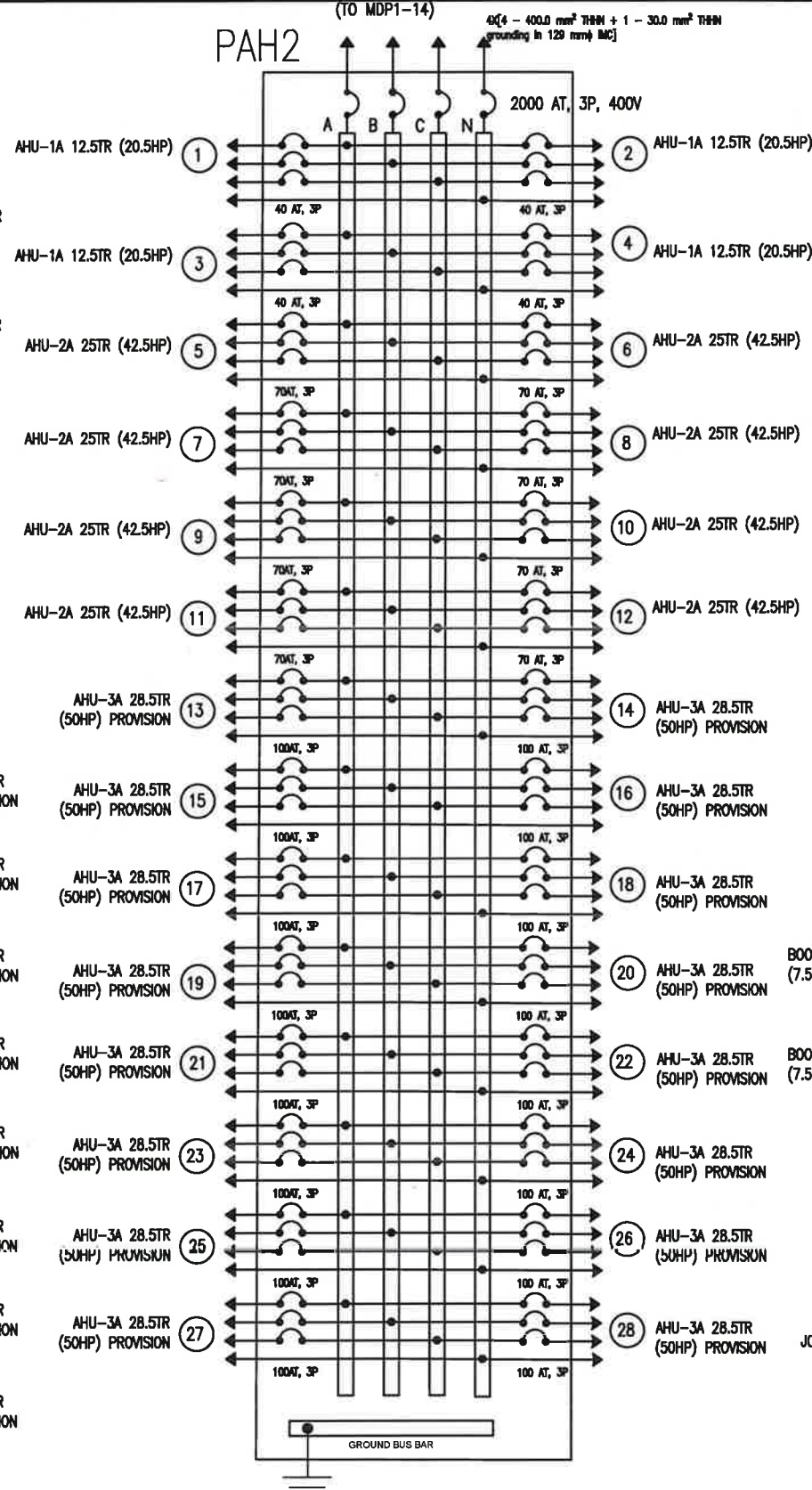
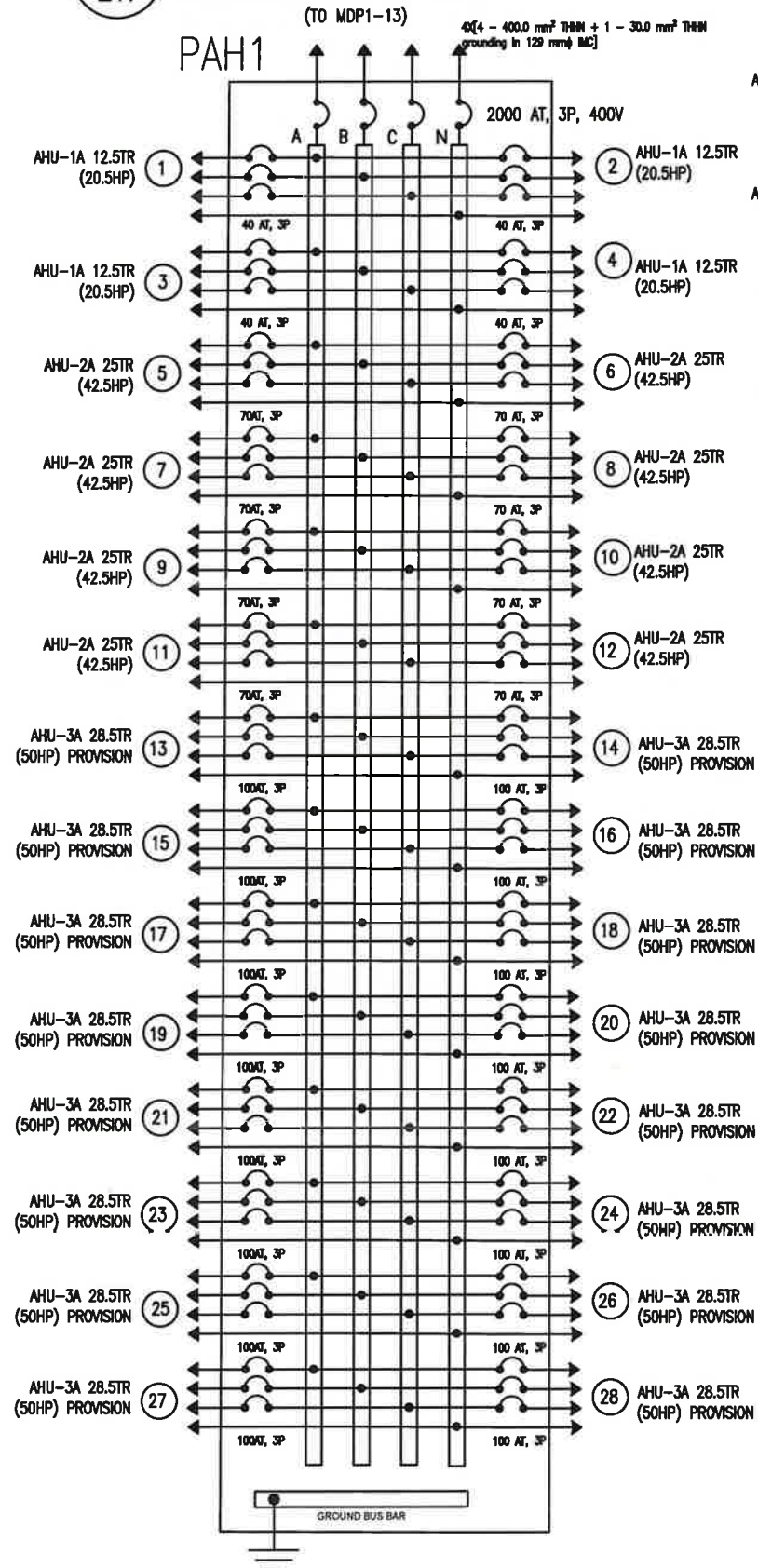
SUBMITTED BY :
CELIA M. RAMOS
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED :
REGINA H. AGUSTIN
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED :
JOHN PAOLO S. TAN
OIC-DISTRICT ENGINEER
DATE:

SFT NO. SHT NO.
E-16 37
65

1 Single Line Diagram E17 SCALE (A1) NTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
BATAAN FIRST DISTRICT ENGINEERING OFFICE
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OIC-DISTRICT ENGINEER
DATE:

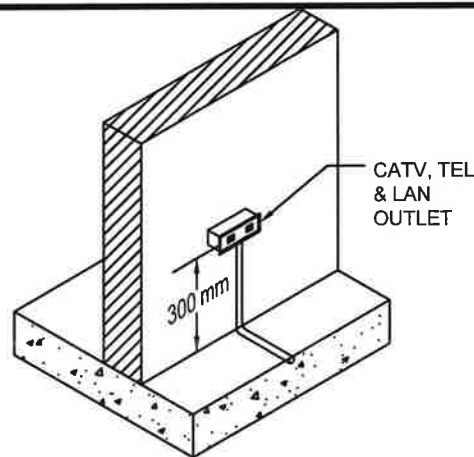
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SHT. NO. 65

GENERAL NOTES

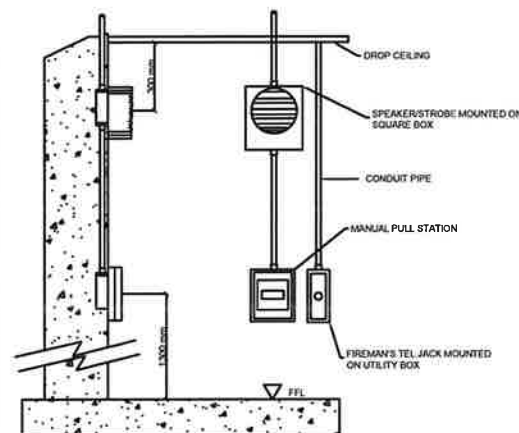
- THE ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE EXISTING LOCAL ORDINANCES, AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
- THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO POWER SUPPLY OF THE PROJECT.
- UNLESS OTHERWISE SPECIFIED, THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE NO. 3.5mm² (# 12) AND 15mm² (1/2") DIAMETER RESPECTIVELY.
- ALL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR LOCATION AND PURPOSES.
- ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD, MORE THAN 30.5 M (100 FT.) LENGTH SHALL BE 5.5mm², UNLESS OTHERWISE SPECIFIED.
- STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATIONS SHALL BE USED.
- ALL EQUIPMENT WHICH ARE SUBJECT TO VIBRATIONS SHALL BE CONNECTED WITH FLEXIBLE CONDUIT.
- ALL DEVICES AND EQUIPMENT SHOWN ARE ONLY APPROXIMATE LOCATION, ACTUAL SETTING CAN BE MOVED WITHIN 4.5 METERS (15 FT.) AROUND WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT AND LIGHTING FIXTURE SHALL BE EFFECTIVELY GROUNDED.
- THE MAXIMUM NUMBER OF CONDUCTORS IN TRADE SIZES OF CONDUITS SHALL BE AS PER ELECTRICAL CODE REQUIREMENTS.
- PROVIDE PULL WIRES TO ALL EMPTY CONDUITS.
- CONDUIT SHALL BE PVC FOR EMBEDDED WORK AND EMT OR IMC FOR EXPOSED WORK. EXPOSED CONDUIT RUNS SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE BLDG. LINE AND SUPPORTED BY CONDUIT CLAMPS EVERY 1500mm. DIAGONAL RUNS SHALL NOT BE ACCEPTED.
- ALL BRANCH CIRCUIT FEEDERS SHALL BE PROVIDED WITH ADDITIONAL GROUND WIRE IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE EVEN IF NOT SHOWN ON DRAWINGS.
- CONTROLLERS FOR ELECTRICALLY OPERATED EQUIPMENT FOR A/C, AND OTHER SPECIAL SYSTEM SHALL BE PROVIDED BY RESPECTIVE CONTRACTORS INCLUDING WIRE AND CONDUIT FROM EQUIPMENT TO CONTROLLER.
- WIRING LAYOUT INDICATED ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL WIRE THE SYSTEM TO ATTAIN ITS INTENDED FUNCTION EVEN WIRES ARE NOT INDICATED ON THE PLAN.
- ALL STEEL MATERIALS TO BE USED IN THIS PROJECT SHALL BE EITHER HOT DIPPED GALVANIZED OR ZINC COATED.
- ELECTRICAL WORKS SHALL BE DONE BY LICENSED ELECTRICAL CONTRACTOR AND SUPERVISED BY LICENSED ELECTRICAL ENGINEER.
- ALL CONDUIT SIZES SHOWN SHALL BE INSIDE DIAMETER.
- ALL JUNCTION BOXES THAT ARE EXPOSED TO WEATHER SHALL USE WEATHERPROOF ENCLOSURE.

ELECTRONICS LEGENDS:

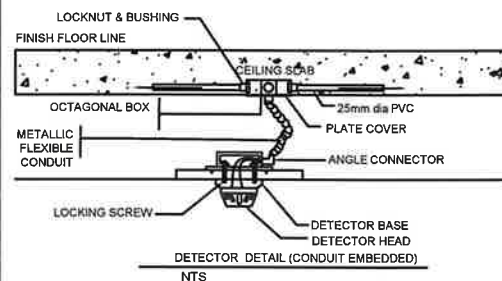
▼	TELEPHONE OUTLET	○ FP/UP	FIRE PUMP CONTROLLER/ JOCKEY PUMP CONTROLLER
TTC	TELEPHONE TERMINAL CABINET	◇ A	ANNUNCIATOR
MTTC	MAIN TELEPHONE TERMINAL CABINET	□ FAPB	FIRE ALARM PULL BOX
①	DATA OUTLET	□ FACP	FIRE ALARM CONTROL PANEL
②	DATA OUTLET FLOOR MOUNTED	△	HORN SPEAKER
RTR	ROUTER	○ S	CEILING SPEAKER
⊗	AUXILIARY PULLBOX	□ PB	PULL BOX
MDP	MAIN DISTRIBUTION FRAME	□ CONSULE	BIM CONSULE
SD	SMOKE DETECTOR	TV	CABLE TV & DATA OUTLET
HD	HEAT DETECTOR	CTC	CABLE TELEVISION CABINET
FK	MANUAL PULL STATION/FIRE HORN	MCTC	MAIN CABLE TELEVISION CABINET
BD	FIRE MAN TELEPHONE JOCKEY	↙	CCTV FIXED TYPE
RCV	RECEIVER DETECTOR	PTZ	CCTV DOME TYPE
SS7S	SUPERVISORY SWITCH/TAMPER SWITCH	NVR	NETWORK VIDEO RECORDER



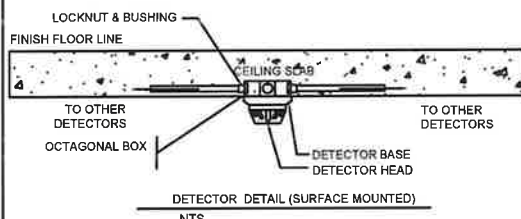
CATV, TEL & LAN OUTLET INSTALLATION DETAIL
NTS



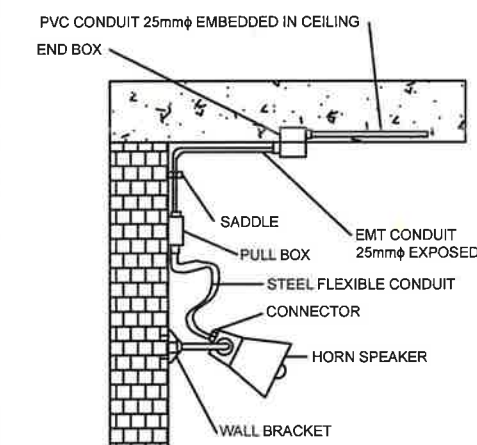
SPEAKER HORN, MANUAL PULL STATION &
FIREMAN'S TELEPHONE JACK MOUNTING DETAIL
NTS



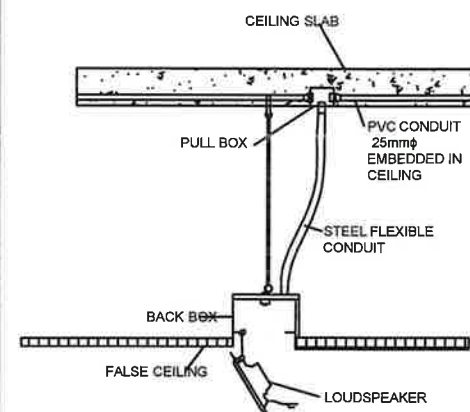
DETECTOR DETAIL (CONDUIT EMBEDDED)
NTS



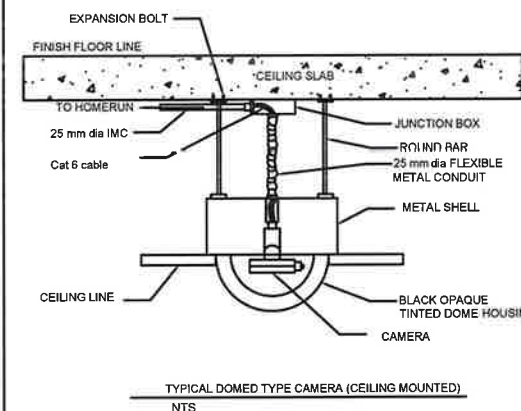
DETECTOR DETAIL (SURFACE MOUNTED)
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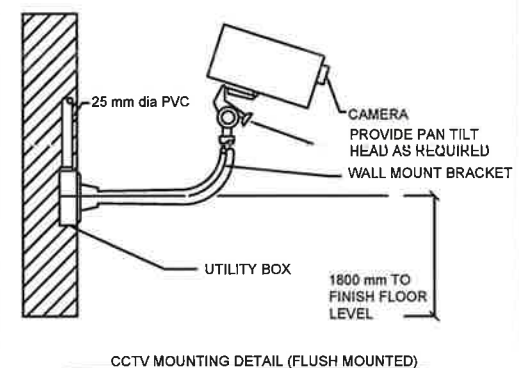
TYPICAL HORN SPEAKER (WALL MOUNTED)
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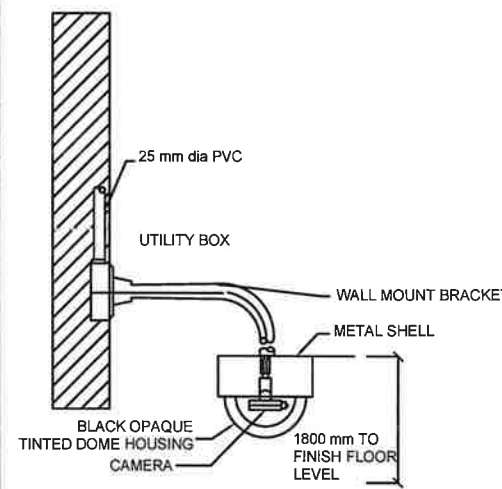
TYPICAL SPEAKER (CEILING MOUNTED)
NTS



TYPICAL DOME TYPE CAMERA (CEILING MOUNTED)
NTS



CCTV MOUNTING DETAIL (FLUSH MOUNTED)
NTS



TYPICAL DOME TYPE CAMERA
MOUNTING DETAIL (WALL MOUNTED)
NTS

TABLE OF CONTENTS

TYPE	DWG. NO.	DESCRIPTION
ELECTRONICS	EC - 1	GENERAL NOTES LEGEND INSTALLATION DETAILS
	EC - 2	TELEPHONE & DATA SINGLE LINE DIAGRAM
	EC - 3	FDAS SINGLE LINE DIAGRAM
	EC - 4	BGM/PA SINGLE LINE DIAGRAM
	EC - 5	CATV & CCTV SINGLE LINE DIAGRAM
	EC - 6	GROUND FLOOR DATA PLAN
	EC - 7	SECOND FLOOR DATA PLAN
	EC - 8	GROUND FLOOR TELEPHONE PLAN
	EC - 9	SECOND FLOOR TELEPHONE PLAN
	EC - 10	GROUND FLOOR FDAS PLAN
	EC - 11	SECOND FLOOR FDAS PLAN
	EC - 12	GROUND FLOOR BGM PLAN
	EC - 13	SECOND FLOOR BGM PLAN
	EC - 14	GROUND FLOOR CATV & CCTV PLAN
	EC - 15	SECOND FLOOR CATV & CCTV PLAN
	EC - 16	GROUND FLOOR AUXILIARY PLAN
	EC - 17	SECOND FLOOR AUXILIARY PLAN

MOUNTING HEIGHTS

FACP	1830 MM	FROM TOP OF PANEL TO FINISH FLOOR LEVEL
MANUAL STATIONS	1200 MM	FROM OPERATING HANDLES TO FINISH FLOOR LEVEL
NOTIFICATION APPLIANCE DEVICES	2030 MM	FROM CENTER OF DEVICE TO FINISH FLOOR LEVEL
CABINETS	1830 MM	FROM TOP OF PANEL TO FINISH FLOOR LEVEL
GROUND BAR	450 MM	FROM CENTER OF DEVICE TO FINISH FLOOR LEVEL

* MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS DETAILED BY THE ARCHITECT AND/OR INTERIOR DESIGNER.

CONDUIT FILL

CONDUIT SIZE (MM)	20	25	32	40	50	65	80	90	100
4PR CAT6 UTP CABLE	3	6	8	13	21	33	57	86	109



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SAMAL, BATAAN

SHEET CONTENT :
AS SHOWN

1
EC1 Installation Details
SCALE (A1) NTS

DRAFTED BY:
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DRAFTSMAN II
PREPARED BY:
ROLANDO P. SOLIMAN
ARCHITECT II

REVIEWED BY:
ELECTRONIC ENGINEER
DATE:

SUBMITTED BY :
CELIA M. RAMOS
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED :
REGINA H. AGUSTIN
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED :
JOHN PAOLO S. TAN
OIC-DISTRICT ENGINEER
DATE:

SET NO. SHT. NO.
EC-1 39
67

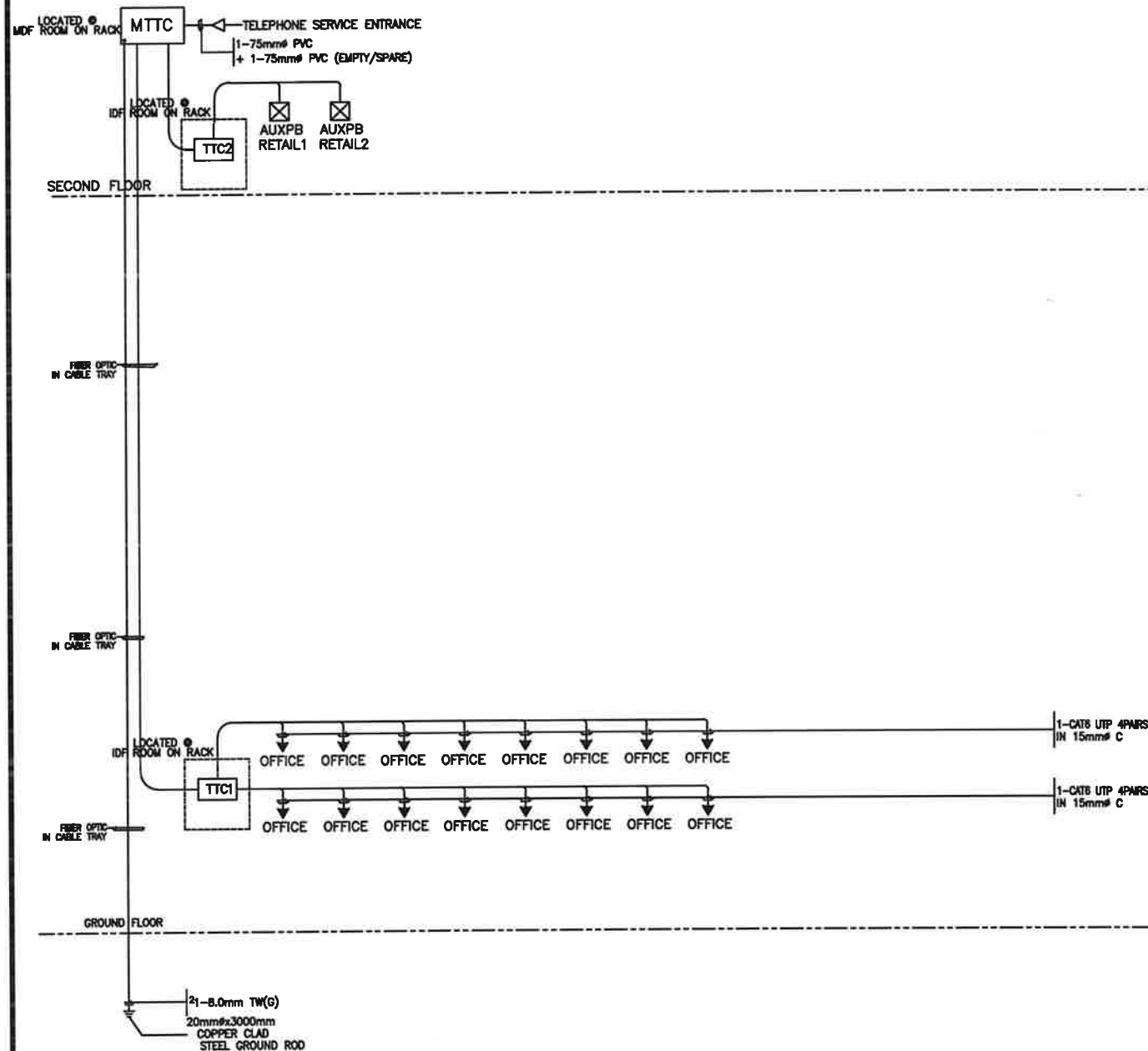
NOTES (TELEPHONE) :

1. THE TELEPHONE INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, PHILIPPINE ELECTRONICS CODE THE LOCAL ORDINANCES AND REQUIREMENTS AND STANDARDS OF THE LOCAL TELEPHONE COMPANY AND THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY.
2. ALL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY QUALIFIED AND COMPETENT LICENSED ELECTRONICS AND COMMUNICATION ENGINEER.
3. ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND OF APPROVED TYPE FOR THE LOCATION AND PURPOSES.
4. WHENEVER REQUIRED THE NECESSARY PULL BOXES AND JUNCTION BOXES GAUGE NO. 16 SHALL BE INSTALLED AT CONVENIENT SPACE AND LOCATIONS.
5. ALL MOUNTING HEIGHTS ARE SUBJECT TO ARCHITECTS APPROVAL PRIOR TO INSTALL'N.

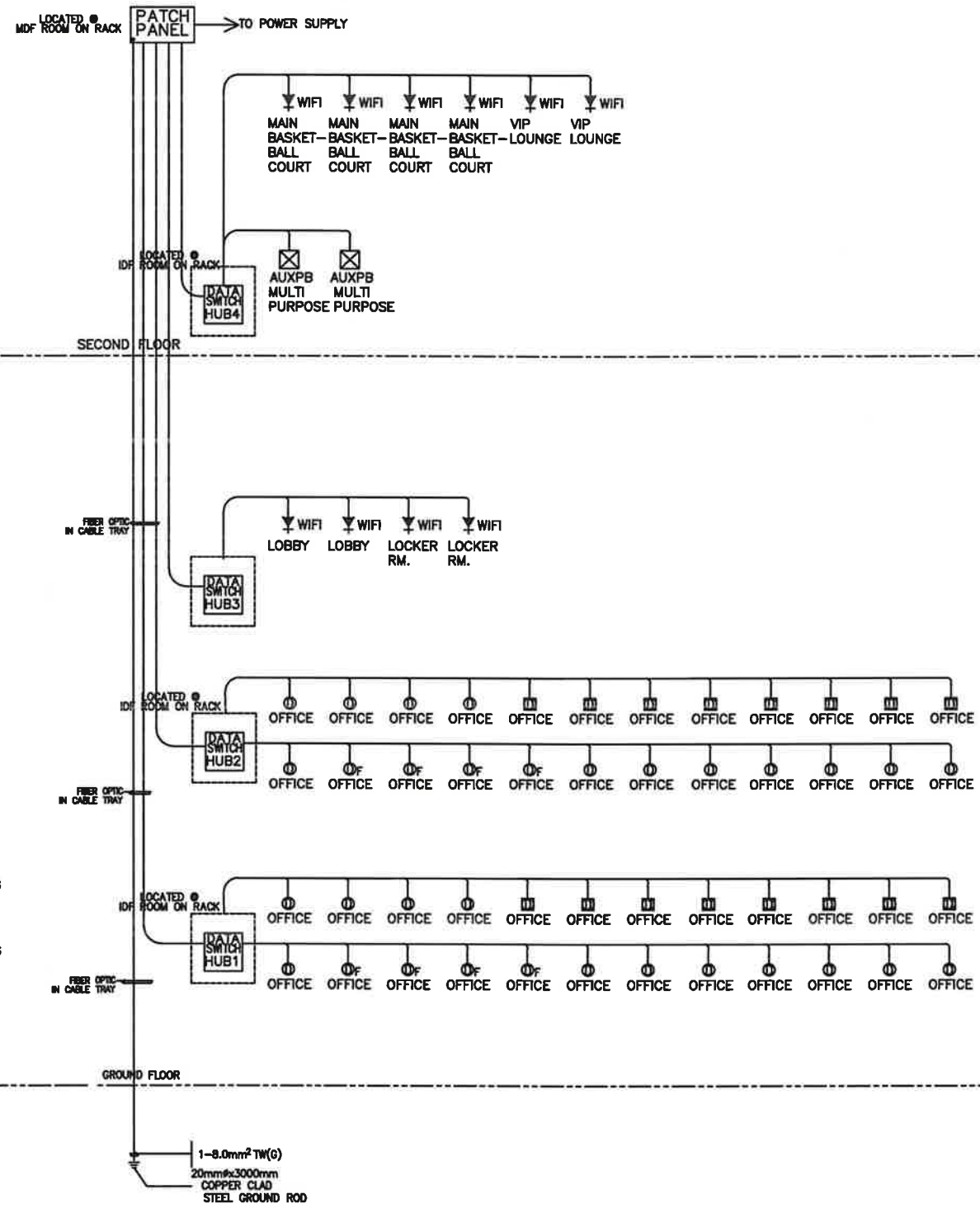
6. THE WORK THROUGHOUT SHALL BE EXECUTED IN THE MOST AND THOROUGH MANNER KNOWN TO TRADE AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
7. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT TELEPHONE PLAN FOR APPROVAL OF THE TELEPHONE COMPANY.
8. ANY FIELD CHANGES IN THE APPROVED TELEPHONE SYSTEM SHALL BE REVIEWED AND COORDINATED WITH THE TELEPHONE COMPANY.
9. THE TELEPHONE COMPANY RESERVES THE RIGHT TO CHANGE, ALTER, MODIFY AND REVISE THE STANDARDS AT ANY TIME IN ORDER TO INCORPORATE LATEST ENG'G TRENDS AND PRACTICES AND INCLUDE NEW OR DELETE OLD COMPANY POLICIES.
10. ALL CABINETS TO BE PROVIDED SHALL BE GAUGE NO.16 STEEL AND SHALL BE INSTALLED ACCORDING TO THE PLAN.

NOTES (DATA):

1. NETWORK CABLES/CONDUIT SHALL HAVE A MINIMUM DISTANCE OF 0.3M FROM POWER CONDUIT WHEN LAID PARALLEL & MUST RUN PERPENDICULAR TO THE STEEL CONDUIT WHEN CUTTING ACROSS A POWER LINE.
2. CABLES & TERMINAL CABINET TO BE USED ARE SUBJECT TO SERVICE PROVIDER'S RECOMMENDATIONS.



TELEPHONE SYSTEM SIGLE LINE DIAGRAM
SCALE NTS



DATA/LAN SYSTEM SINGLE LINE DIAGRAM
SCALE NTS



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REGIONAL OFFICE III
ROMAN EXPRESSWAY MULAWIN, ORANI, BATAAN

PROJECT NAME AND LOCATION :
BASIC INFRASTRUCTURE PROGRAM -
MULTI - PURPOSE BUILDINGS/FACILITIES TO
SUPPORT SOCIAL SERVICE - CONSTRUCTION
OF MULTI-PURPOSE BUILDING (GYMNASIUM),
SAMAL, BATAAN

SHEET CONTENT :
AS SHOWN

DRAFTED BY :
REYNALDO B. ANTONIO
DRAFTSMAN II
PREPARED BY :
ROLANDO P. SOLIMAN
ARCHITECT II

REVIEWED BY :
ELECTRONIC ENGINEER
DATE:

SUBMITTED BY :
CELIA M. RAMOS
CHIEF, PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED :
REGINA H. AGUSTIN
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED :
JOHN PAOLO S. TAN
OIC-DISTRICT ENGINEER
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EC-2 40
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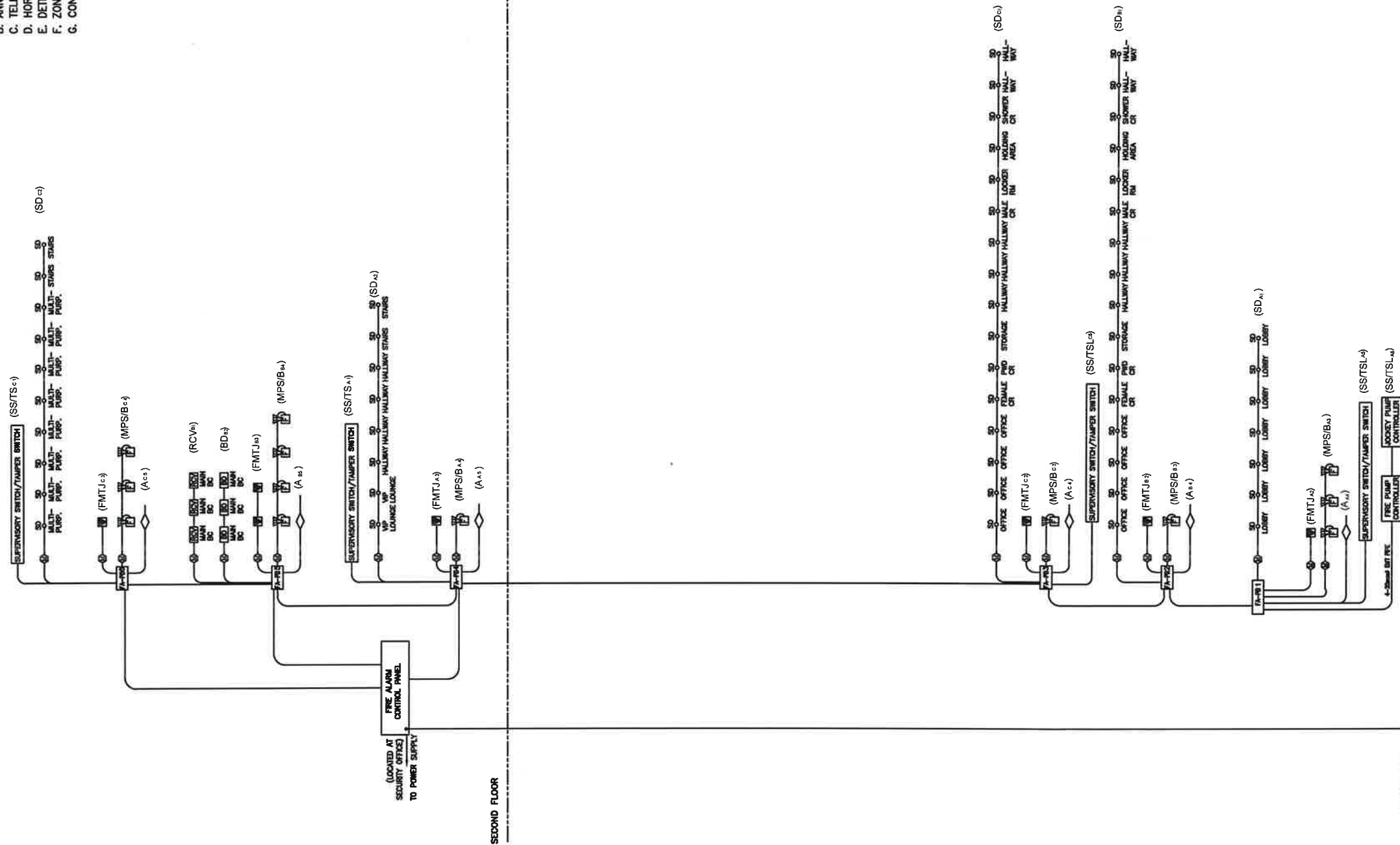
RECOMMENDED :
REGINA H. AGUSTIN
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SET NO. SHT. NO.
EC-3 41
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NOTES (FDAS):

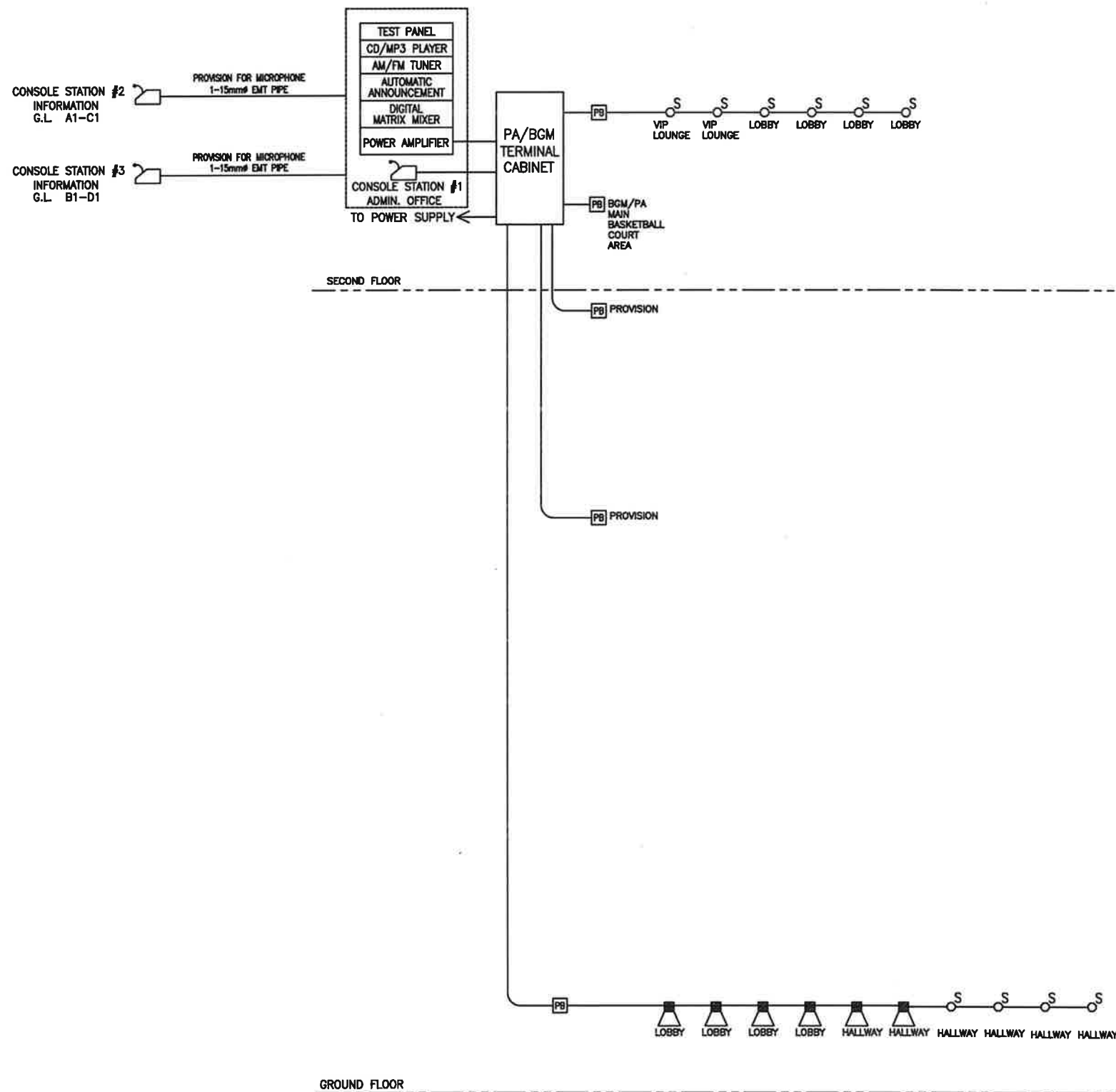
- THIS DRAWING IS SCHEMATIC REPRESENTATION SYSTEM ONLY. TENDERS TO DETAIL COMPLIANT OFFER BASED ON MANUFACTURER'S SYSTEM & WIRING METHODS RECOMMENDATION.
- ELEVATOR CONTROL PANEL SHALL BE INTERFAC TO THE FIRE ALARM SYSTEM.
- SPRINKLER ALARM CONTROL PANEL SHALL BE INTERFACE TO FIRE ALARM SYSTEM.
- PROVIDE CONTROL MODULE ON EACH FLOOR.
- SMOKE EVACUATION SHALL BE INTERFACE TO FIRE ALARM SYSTEM.
- CONDUIT USED SHALL BE 15mmØ EMT MINIMUM
- PROVIDE VISUAL ALARM SIGNAL (STROBE LIGHT) BESIDE EACH FIRE ALARM HORN.
- WIRING METHODS:
A. MANUAL PULL STATION - 1.25mm² TF WIRE
B. ANNUNCIATOR - 1.25mm² TF WIRE
C. TELEPHONE JACK - 1.25mm² TSP WIRE
D. HORN - 1.25mm² TF WIRE
E. DETECTORS - 1.25mm² TF WIRE
F. ZONE MODULE - 1.25mm² TF WIRE
G. CONTROL MODULE - 2.0mm² UTP WIRE



FIRE DETECTION AND ALARM SYSTEM SINGLE LINE RISER DIAGRAM

SCALE

M/S



- NOTES (BGM/PA):
1. PAGING MICROPHONE SHALL OVERRIDE THE INPUTS FROM THE MUSIC SOURCE ON SELECTION OF ZONE.
 2. EMERGENCY AND FIRE INPUTS SHALL OVERRIDE ALL INPUT SOURCES.
 3. NUMBER OF AMPLIFIERS, AS REQUIRED.
 4. USE AWG #14 SPEAKER WIRE IN 15mm² CONDUIT.
 5. BGM/PA SYSTEM SHALL BE INTERFACE TO FIRE ALARM SYSTEM.
 6. THIS DRAWING IS SCHEMATIC REPRESENTATION OF SYSTEM ONLY. TENDER TO DETAIL COMPLIANT OFFER BASED ON MANUFACTURER'S SYSTEM & WIRING METHODS RECOMMENDATION.

SYMBOLS:

- WALL-MOUNTED HORN SPEAKER
- FLUSH-MOUNTED CONE SPEAKER
- LEC "A" LOCAL EQUIPMENT CONTROL (ZONE "A")
- CONSOLE STATION

BGM/PA SYSTEM SINGLE LINE DIAGRAM
SCALE: NTS



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EC-4 42
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1. DRAWINGS AND SINGLE LINE RISER DIAGRAM ARE SUBJECT TO APPROVAL AND RECOMMENDATIONS OF CATV SERVICE PROVIDER.
2. CABLES & TERMINAL CABINET TO BE USED ARE SUBJECT TO CATV SERVICE PROVIDER'S RECOMENDATIONS.

1.) THIS DRAWING IS A SCHEMATIC REPRESENTATION OF THE SYSTEM ONLY. TENDERS TO DETAIL COMPLIANT OFFER BASED ON MANUFACTURER'S SYSTEM & WIRING METHODS RECOMMENDATION.

2.) TYPICAL WIRING FOR ALL CAMERA :
A. UTP CABLE CAT5e

4.) CCTV SYSTEM IS SUBJECT OWNER'S APPROVAL.



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PROJECT NAME AND LOCATION :	BASIC INFRASTRUCTURE PROGRAM - MULTI - PURPOSE BUILDINGS/FACILITIES TO SUPPORT SOCIAL SERVICE - CONSTRUCTION OF MULTI-PURPOSE BUILDING (GYMNASIUM), SAMAL, BATAAN
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AS SHOWN

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