

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 SCH. 40 BRANCH CKT., & AUXILIARY
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. I
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

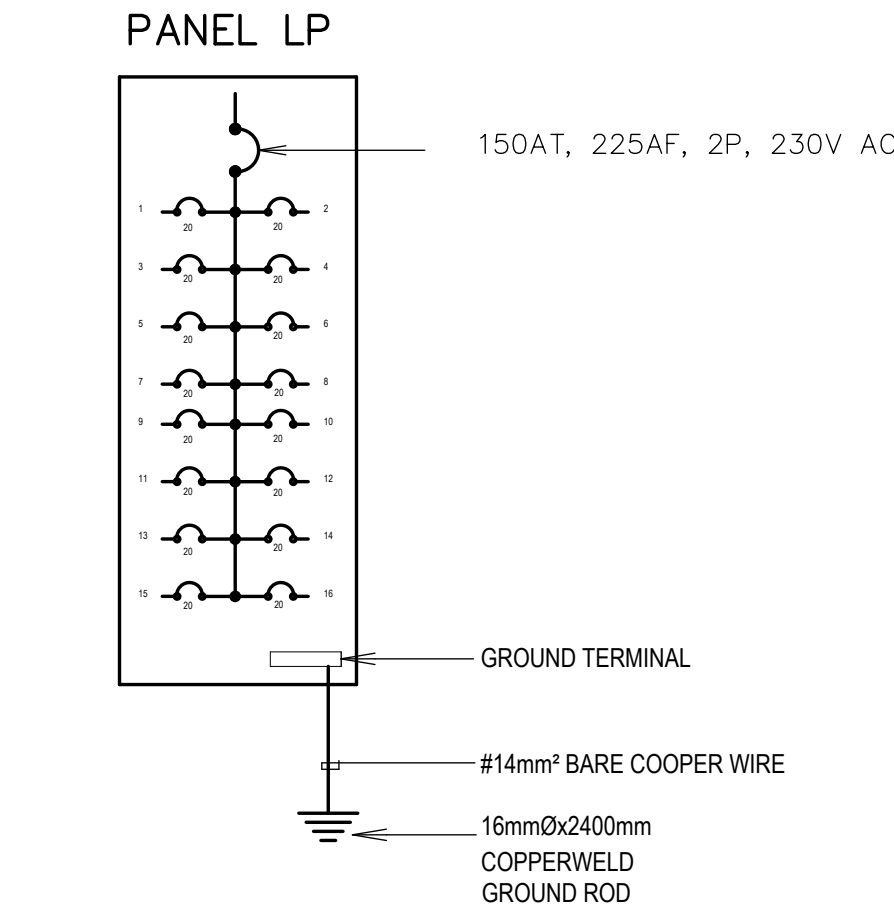
f. FIRE ALARM & VIBRATING BELL – 0.30 M BELOW CEILING LINE

LEGEND

SYMBOL	DESCRIPTION
	– CEILING LIGHT OUTLET
	– 2 x 40 WATTS FLUORESCENT LAMP
	– CEILING FAN OUTLET
S/S _a	– ONE GANG DEVICE SWITCH
S _{ab}	– TWO GANG DEVICE SWITCH
S _{cde}	– 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

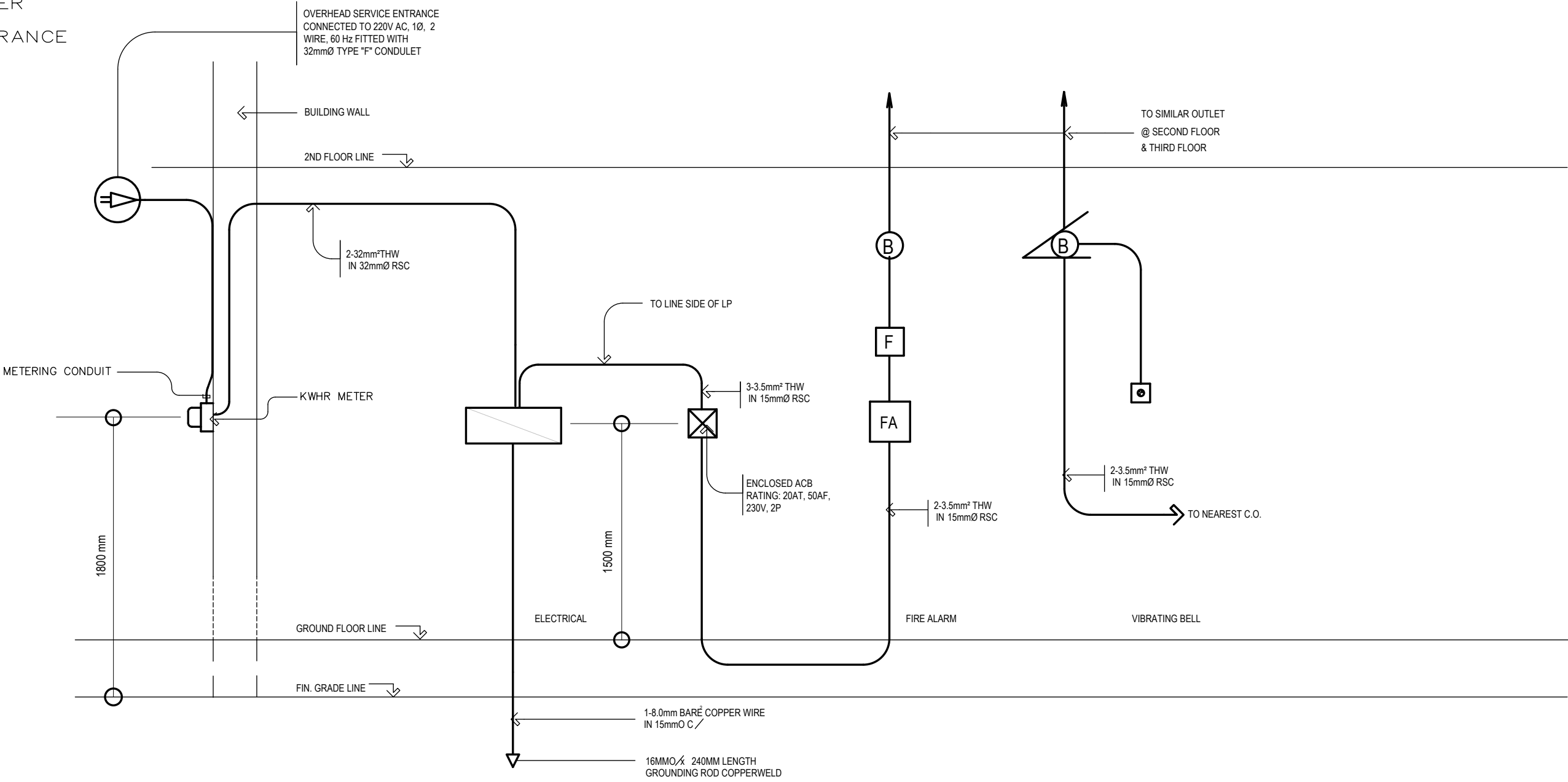
LOAD SCHEDULE

PANELBOARD: LP							MAIN : 100AT, 100AF, 2P, 230V	
CKT. NO.	DESCRIPTION	V/A LOAD	CIRCUIT BREAKER				WIRE & CONDUIT SIZE	
			VOLT	POLE	A T	A F		
1	CONVENIENCE OUTLET - 9x180w	1860	230	2	20	50	3.35mm² THW IN 15mmØ C	
2	CONVENIENCE OUTLET - 9x180w	1860	230	2	20	50	3.35mm² THW IN 15mmØ C	
3	CONVENIENCE OUTLET - 6x180w	1080	230	2	20	50	3.35mm² THW IN 15mmØ C	
4	LIGHTING OUTLET	1460	230	2	20	50	3.35mm² THW IN 15mmØ C	
5	LIGHTING OUTLET	1500	230	2	20	50	3.35mm² THW IN 15mmØ C	
6	LIGHTING OUTLET	1200	230	2	20	50	3.35mm² THW IN 15mmØ C	
7	LIGHTING OUTLET	1000	230	2	20	50	3.35mm² THW IN 15mmØ C	
8	LIGHTING OUTLET	1100	230	2	20	50	3.35mm² THW IN 15mmØ C	
9	LIGHTING OUTLET	1100	230	2	20	50	3.35mm² THW IN 15mmØ C	
10	S P A R E	1500	230	2	20	50		
11	S P A R E	1500	230	2	20	50		
TOTAL		14680						
IL @ 80% D.F. = 14680x 80% x 1.25 = 63.8 A 230 V							FEEDER: 2-30mm² THW IN 32mmØ C PROTECTION: 150 AT, 225 AF, 2P, 230 V	



SINGLE LINE DIAGRAM

NOT TO SCALE



RISER DIAGRAM

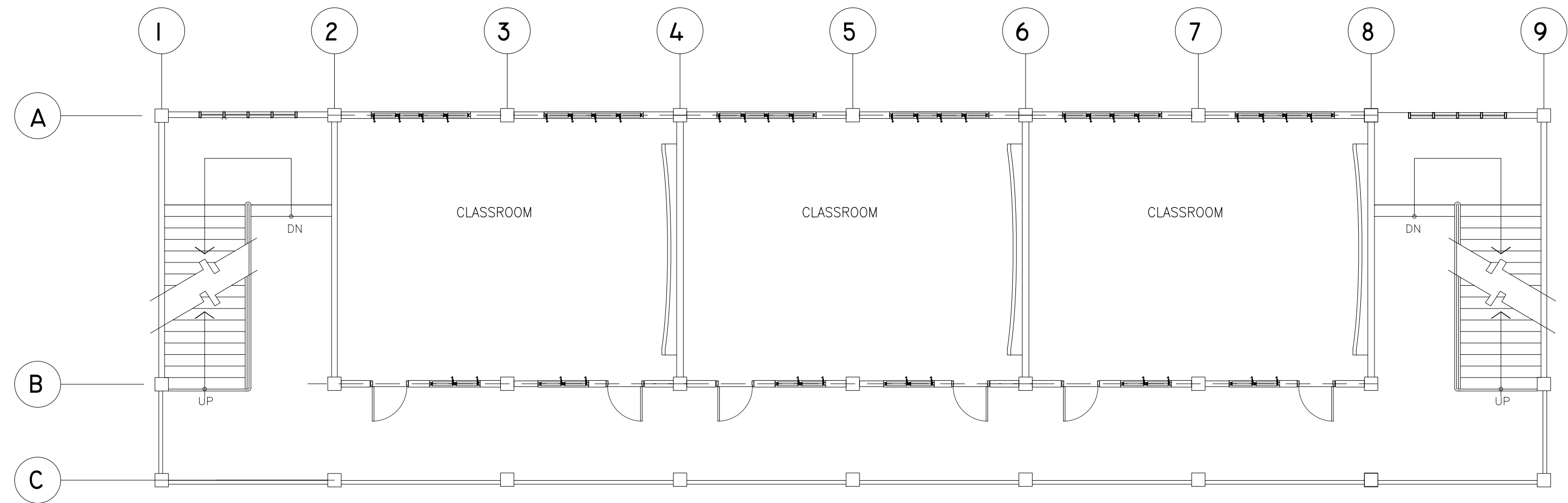
NOT TO SCALE

 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	REVIEWED BY: FE M. BARRIOS 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 SIX CLASSROOM W/MULTI-PURPOSE	PROJECT NO: 01-002 DESIGNED BY: RDS ENCODED BY: Max C CHECKED BY: DATE : 6-23-03	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : GENERAL LINE DIAGRAM LOAD SCHEDULE LEGEND RISER DIAGRAM	SHEET NO: E-1 3
	PRC NO. : _____ TIN : _____ PTR NO. : _____ DATE : _____					LOCATION :			

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.

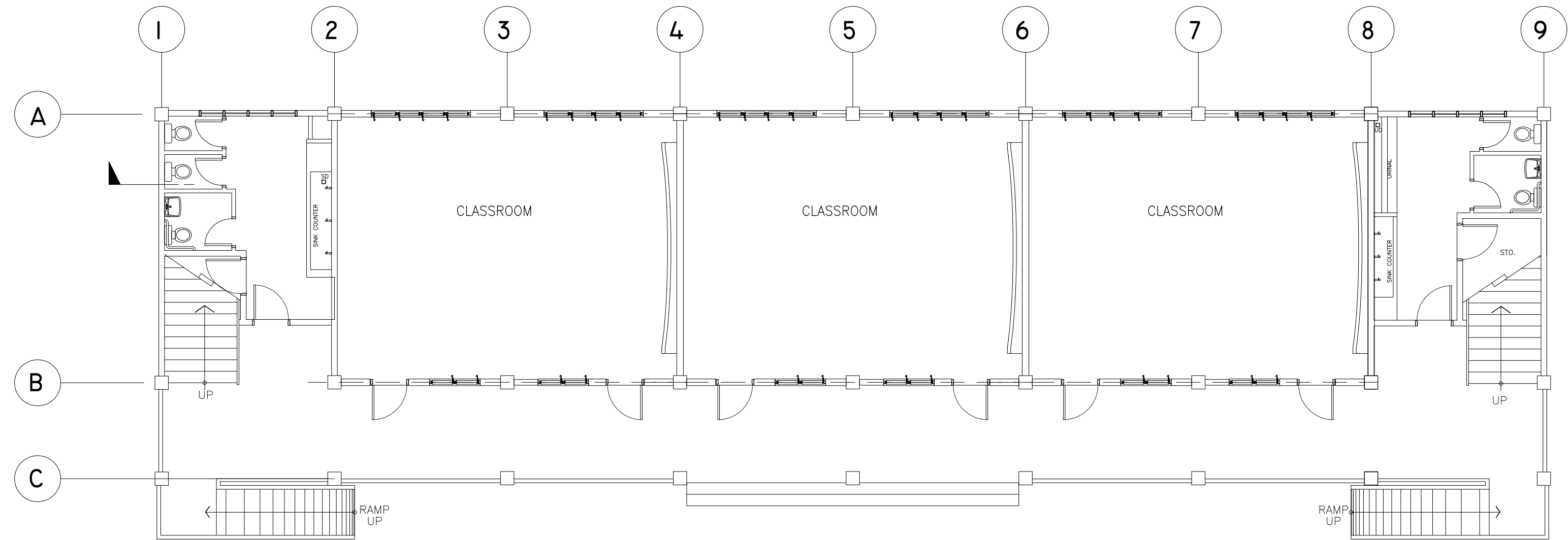
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REP. ACT 545



TYPICAL 2ND & 3RD FLOOR LIGHTING LAYOUT

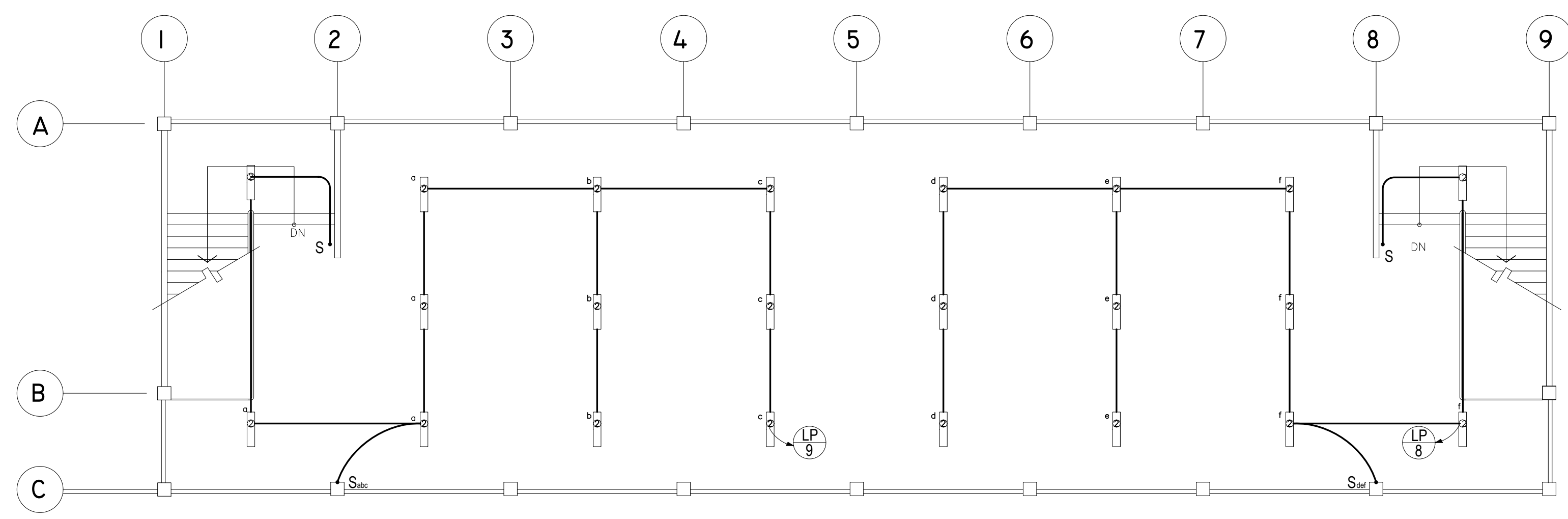
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GROUND FLOOR LIGHTING LAYOUT

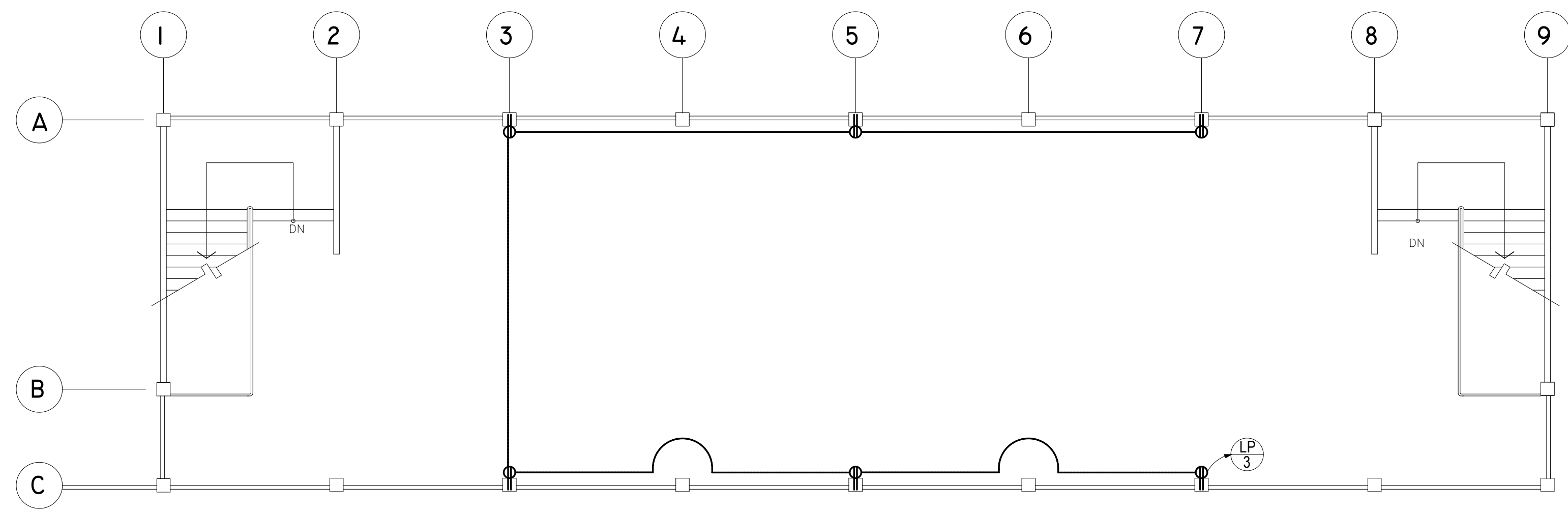
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<div><div><div></div><div>REPUBLIC OF THE PHILIPPINES</div><div>DEPARTMENT OF EDUCATION (DepED)</div><div>TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING</div><div>MERALCO AVENUE, PASIG CITY</div></div><div><div></div><div></div></div></div>	CONSULTANT / DESIGNER <div><div>VINCENTO T. MAGNAN</div><div>ELECTRICAL ENGINEER</div></div>	REVIEWED BY: <div><div>FE. M. BARRIENTOS</div><div>CHIEF, ELECTRICAL DIVISION</div><div>BUREAU OF DESIGN, DPWH</div></div>	RECOMMENDING APPROVAL : <div><div>SOFIA T. SANTIAGO</div><div>OIC, DIRECTOR III</div><div>BUREAU OF DESIGN, DPWH</div></div>	APPROVED FOR ACCREDITATION : <div><div>GILBERTO S. REYES</div><div>OIC, DIRECTOR IV</div><div>BUREAU OF DESIGN, DPWH</div></div>	CONCURRED : <div><div>RAMON C. BACANI</div><div>UNDERSECRETARY</div><div>DEPARTMENT OF EDUCATION (DepED)</div></div>	PROJECT TITLE : <div>THREE STOREY SIX CLASSROOM W/MULTI-PURPOSE</div>	PROJECT NO: 01-002	OWNER : <div>DEPARTMENT OF EDUCATION DepED</div>	SHEET NO: <div>E-2 3</div>
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	PTR NO. : _____ DATE : _____					ENCODED BY: Max C	ENCODED BY: Max C		
						CHECKED BY:	CHECKED BY:	SHEET CONTENTS : LIGHTING LAYOUT	




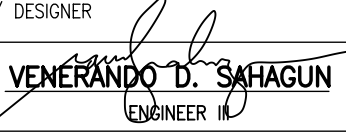



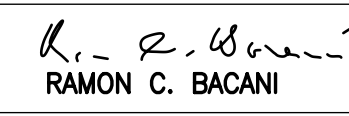
THIRD FLOOR LIGHTING LAYOUT

SCALE : 1 : 100 METERS



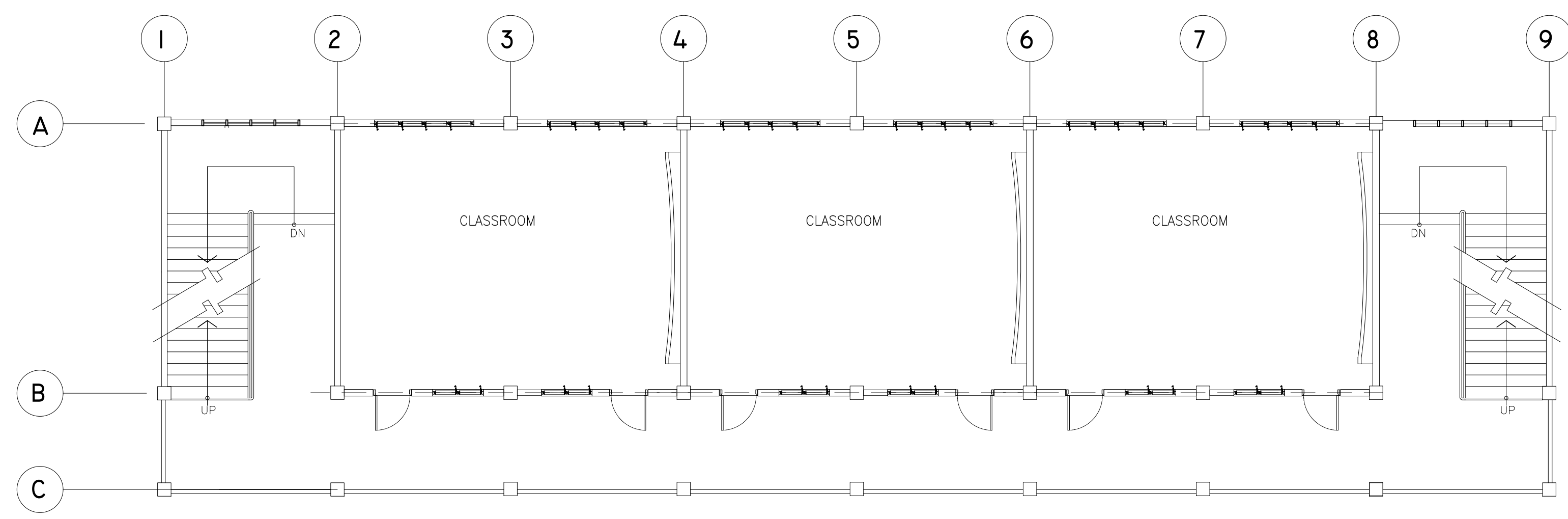
THIRD FLOOR POWER LAYOUT

SCALE : 1 : 100 METERS

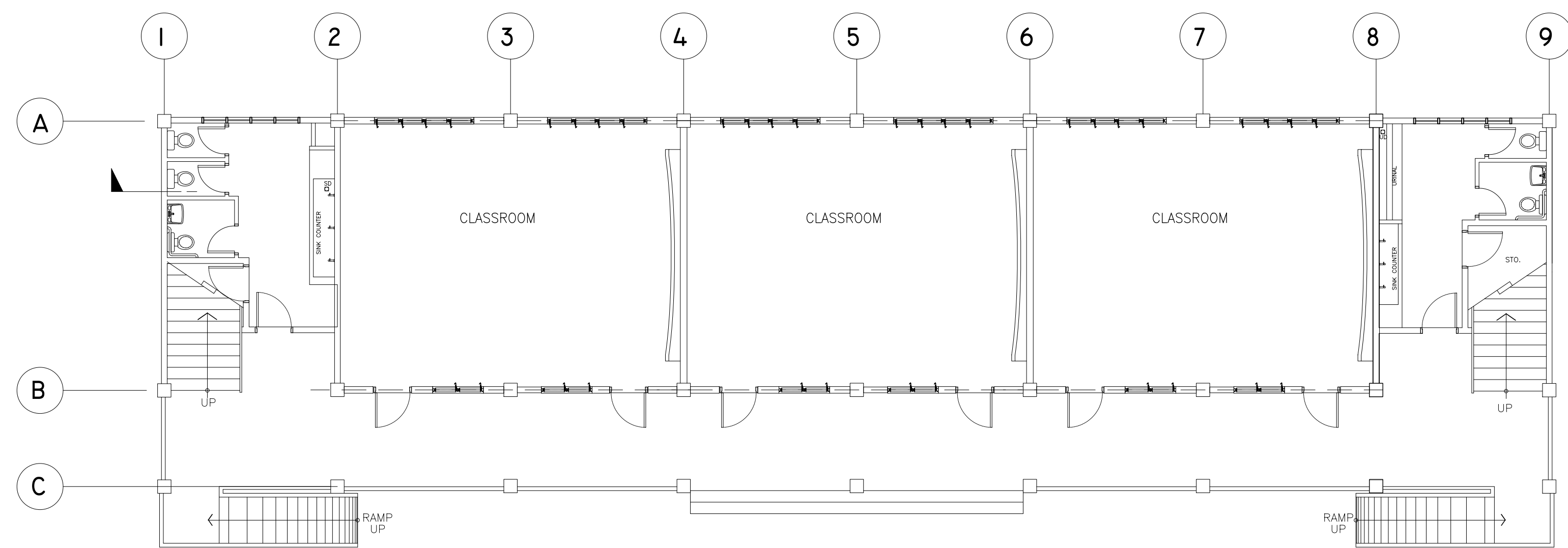
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION (DepED) TASK FORCE ENGINEERING, ASSESSMENT AND MONITORING MERALCO AVENUE, PASIG CITY	CONSULTANT / DESIGNER  VENERANDO D. SAHAGUN ENGINEER III	REVIEWED BY:  FE M. BARRIENTOS CHIEF, ELECTRICAL DIVISION BUREAU OF DESIGN, DPWH	RECOMMENDING APPROVAL :  SOFIA 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 SIX CLASSROOM W/MULTI-PURPOSE LOCATION :	PROJECT NO: 01-002 DESIGNED BY: RDS ENCODED BY: Max C CHECKED BY: DATE : 01 03	OWNER : DEPARTMENT OF EDUCATION DepED SHEET CONTENTS : POWER LAYOUT	SHEET NO: E-3 3
	PRC NO. : _____ TIN : _____ PTR NO. : _____ DATE : _____								

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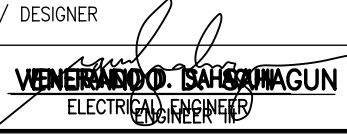



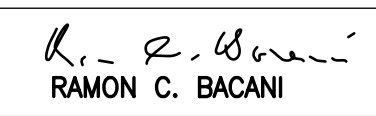
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TYPICAL 2ND & 3RD FLOOR POWER LAYOUT
SCALE : 1 : 100 METERS



GROUND FLOOR POWER LAYOUT
SCALE : 1 : 100 METERS

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