

- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND
 ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE UTILITY COMPANY.
- THE CONTRACTOR SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE WORK AND SHALL FURNISH THE OWNER THROUGH THE ENGINEERS,
 FINAL CERTIFICATES OF ELECTRICAL INSPECTION AND APPROVAL FROM PROPER GOVERNMENT AUTHORITIES FOR COMPLETION OF WORK.
- ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE IMC SUPPORTED BY CONDUIT CLAMPS EVERY 700
 MILIMETERS
- 4. PULL BOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS. SIZING OF ALL PULLBOXES SHALL BE COMPUTED BASED ON THE CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. LOCATION OF PULLBOXES SHALL BE APPROVED BY THE ARCHITECT/ENGINEER AND MUST BE REFLECTED ON THE "AS-BUILT" PLAN.
- 5. ALL POWER OUTLETS AND SWITCHES SHALL BE GROUNDING TYPE WITH PARALLEL SLOTS FOR 230 V.
- 6. PROVIDE GROUND FAULT CURRENT INTERRUPTER CIRCUIT BREAKER FOR LOADS MARKED "GFCI" ON THE PLAN.
- 7. ALL METALLIC CONDUITS, CABINETS AND EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED.
- 8. UNLESS OTHERWISE NOTED, MOUNTING HEIGHT FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:

RECEPTACLE OUTLET - 300 MM AFF , 150MM ABOVE WORKING COUNTER.

TELEPHONE OUTLET - 300 MM AFF

CATV OUTLET - 300 MM AFF

LIGHTING SWITCH - 1400 MM AFF

PANELBOARD - 1600 MM AFF

- 9. ALL MATERIALS TO BE USED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED.
- 10. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PRESENT GENERAL LAYOUT AND BROAD OUTLINE/DESCRIPTION OF THE PROJECT BUT DO NOT NECESSARILY INDICATE/DESCRIBED ACTUAL LOCATIONS, LEVEL AND DISTANCES OF THE EQUIPMENT. THE CONTRACTOR IS HEREBY REQUIRED TO MAKE SUCH ADJUSTMENT AT THE JOBSITE AS LOCATION, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.
- 11. ANY DISCREPANCY BETWEEN THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DECISION.
- ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL BE 3.5 SQ. MM. THWN-2 COPPER WIRE UNLESS OTHERWISE NOTED. MINIMUM SIZE OF WIRE SHALL. BE
 3.5 SQ. MM. COPPER WIRE. ALL WIRES AND CABLES SHALL BE COLOR CODED AS FOLLOWS:

LINE 1 - RED

LINE 2 - YELLOW

NEUTRAL - WHITE

GROUND - GREEN

14. BOXES, WIRE, GUTTERS, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:

MAXIMUM WIDTH OF THE WIDEST SURFACE STEEL

GA

UP TO INCLUDING 152.40 MM

GA 16 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT

OVER 152.40 MM BUT NOT OVER 457.30

GA 14 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT

OVER 457.30 MM BUT NOT OVER 762 MM

GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
GA 10 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT

- 15. ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED BY EXPERIENCED MEN UNDER THE DIRECT SUPERVISION OF A FULL-TIME LICENSED ELECTRICAL ENGINEER AND A DULY ACCREDITED ELECTRICAL CONTRACTOR BY PCAB. WORKS SHALL BE NEATLY PLACED, SECURELY FASTENED AND PROPERLY FINISHED.
- 16. TYPE OF SERVICE ENTRANCE SHALL BE SINGLE-PHASE, TWO-WIRE PLUS GROUND, . 60 HERTZ, 230V AC NOMINAL.
- 17. CONDUITS IN NO CASE SHALL THERE BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD MADE BY USING HYDRAULIC BENDERS. MINIMUM BENDING RADIUS MUST BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
- 18. UPON COMPLETION OF ELECTRICAL CONSTRUCTION WORK, INSULATION RESISTANCE TEST AND FUNCTIONALITY TEST SHALL BE PERFORMED BY THE CONTRACTOR INCLUSIVE OF THE INSTALLATION TO BE REPORTED IN DETAILS ON FORMS APPROVED BY THE QUEZON CITY ENGINEERING DEPARTMENT REPRESENTATIVE. THE GROUND RESISTANCE FOR ELECTRICAL SYSTEMS SHALL NOT BE MORE THAN 5 OHMS. COMMUNICATION GROUNDING RESISTANCE SHALL NOT EXCEED 2 OHMS.

LOCATION:

20-00135



600mm X 1200mm, 2x18W LED, TROFFER FIXTURE



SPECIAL PURPOSE OUTLET , 20 A, 250 V , 3-WIRE GROUNDING TYPE, PRONG CONFIGURATION TO MATCH EQUIPMENT RUG DEVICE TO BE INSTALLED ADJACENT TO UNIT TO BE SERVED (AIRCONOLITIET)

DUPLEX CONVENIENCE OUTLET, 3-WIRE GROUNDING TYPE, 250 VAC



ORBIT FAN



CIRCUIT LINE SWITCH LINE

WALL FAN

EMERGENCY LIGHT



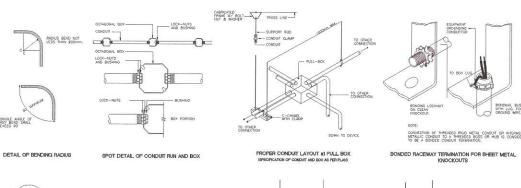
CIRCUIT HOMERUN
PANEL BOARD

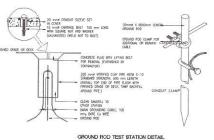


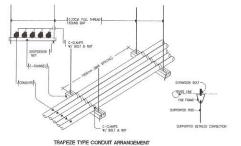
KILOWATT-HOUR METER

LEGEND & SYMBOLS

NOT TO SCALE







1 GENERAL NOTES & SPECIFICATIONS

NOT TO SCALE

ENSIGN NO.:

DRAWNBY: Grawn SUBMITTED BY:

3 MISCELLANEOUS DETAILS

NOT TO SCALE

SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE :

PROPOSED REHABILITATION OF ELECTRICAL SYSTEM AT SERGIO OSMEÑA SENIOR HIGH

SCHOOL

BARANGAY MASAMBONG, DISTRICT 1,

ENGR. LEO S. DEL ROSARIO I
HED, PLANNES PROGRAMMISSIONSION

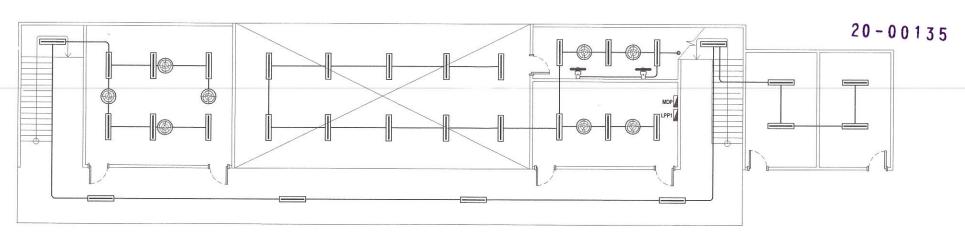
ENGR-ISAGANI R. VERZOSA, JR. OC, OTY ENSINEERING DEPARTMENT

RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE

APPROVED BY:

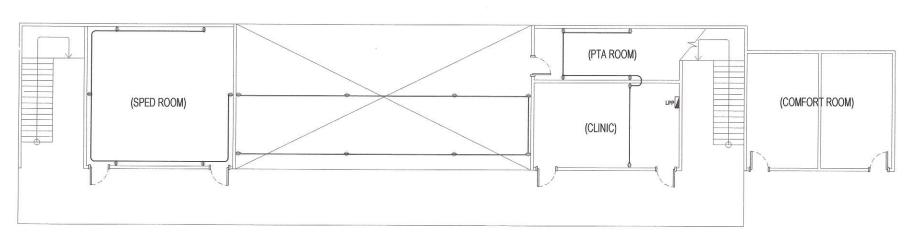
GENERAL NOTES & SPECIFICATIONS LEGEND & SYMBOLS MISCELLANEOUS DETAILS



- 1) REVURING OF LIGHTING & POWER LAYOUT
- 2) REPLACEMENT OF UNUSABLE WIRING DEVICES/ LIGHTING FIXTURES AND OTHER FIXTURES.
- 3) REWIRING & REPLACEMENT OF SUB-PANEL BOARD.
 4) REHABILITATION OF MAIN DISTRIBUTION PANEL BOARD.

GROUND FLOOR LIGHTING LAYOUT - OSMEÑA BUILDING

NOT TO SCALE



- I) REWIRING OF LIGHTING & POWER LAYOUT

 2) REPLACEMENT OF UNLEABLE WIRING DEVICES/ LIGHTING FIXTURES AND OTHER FIXTURES.

 3) REWIRING & REPLACEMENT OF SUB-PANEL BOARD.

GROUND FLOOR POWER LAYOUT - OSMEÑA BUILDING

PROJECT TITLE :

LOCATION:

NOT TO SCALE SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

_	
	PROPOSED REHABILITATION OF ELECTRICAL
	SYSTEM AT SERGIO OSMEÑA SENIOR HIGH
	SCHOOL

11/10/2020 BARANGAY MASAMBONG, DISTRICT 1,



SUBMITTED BY:

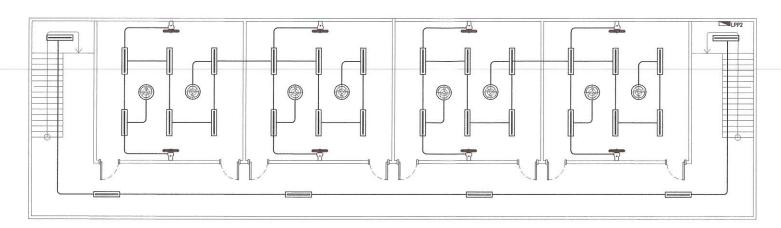


RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

APPROVED BY:

GROUND FLOOR LIGHTING LAYOUT-NEW MATHAY BUILDING SECOND FLOOR LIGHTING LAYOUT-NEW MATHAY BUILDING (TYPICAL TO THIRD FLOOR)



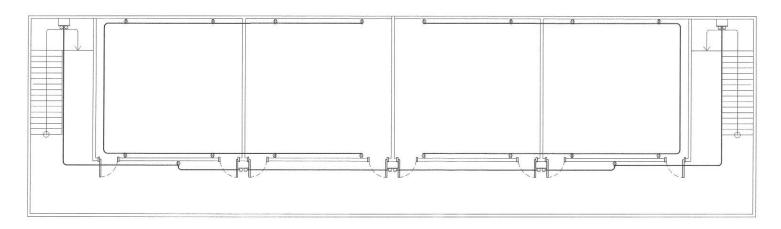
NOTE

1) REPLACEMENT OF UNUSABLE WIRING DEVICES/LIGHTING FIXTURES AND OTHER FIXTURES.

2) REWIRING & REPLACEMENT OF SUB-PANEL BOARD.

1 | SECOND FLOOR LIGHTING LAYOUT - OSMEÑA BUILDING (TYPICAL TO THIRD FLOOR)

NOT TO SCALE



SUBMITTED BY:

NOTE:

1) REPLACEMENT OF UNUSABLE WIRING DEVICES/LIGHTING FIXTURES AND OTHER FIXTURES.

2) REWIRING & REPLACEMENT OF SUB-PANEL BOARD.

2 | SECOND FLOOR POWER LAYOUT - OSMEÑA BUILDING (TYPICAL TO THIRD FLOOR)

NOT TO SCALE

SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE:

PROPOSED REHABILITATION OF ELECTRICAL
SYSTEM AT SERGIO OSMEÑA SENIOR HIGH
SCHOOL

LOCATION: BARANGAY MASAMBONG, DISTRICT 1, QUEZON CITY



ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING BRICGHAMMING DIVISION



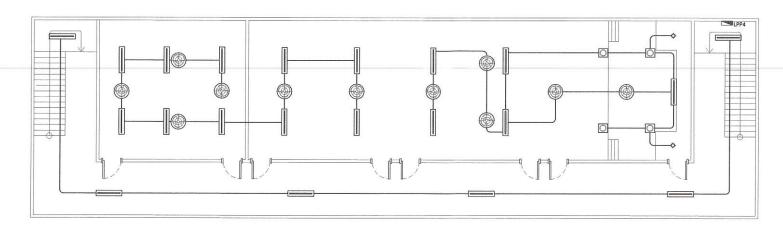
RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZONCITY

APPROVED BY:

SECOND FLOOR POWER
LAYOUT-NEW MATHAY
BUILDING (TYPICAL TO THIRD
FLOOR)
SECOND FLOOR POWER
LAYOUT-NEW MATHAY
BUILDING

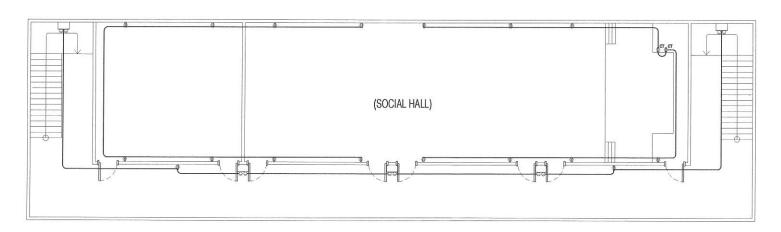




1) REPLACEMENT OF UNUSABLE WIRING DEVICES/ LIGHTING FIXTURES AND OTHER FIXTURES 2) REWIRING & REPLACEMENT OF SUB-PANEL BOARD.

FOURTH FLOOR LIGHTING LAYOUT - OSMEÑA BUILDING

NOT TO SCALE



SUBMITTED BY

11/10/2020

1) REPLACEMENT OF UNUSABLE WIRING DEVICES/ LIGHTING FIXTURES AND OTHER FIXTURES. 2) REWIRING & REPLACEMENT OF SUB-PANEL BOARD.

FOURTH FLOOR POWER LAYOUT - OSMEÑA BUILDING

LOCATION:

NOT TO SCALE

SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED REHABILITATION OF ELECTRICAL SYSTEM AT SERGIO OSMEÑA SENIOR HIGH SCHOOL

BARANGAY MASAMBONG, DISTRICT 1, QUEZON CITY





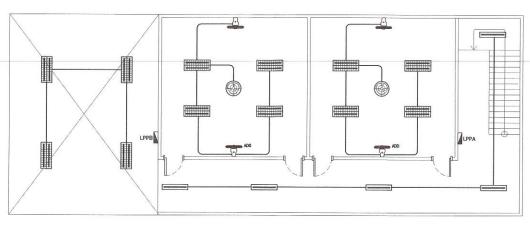
RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

APPROVED BY:

FOURTH FLOOR LIGHTING LAYOUT-NEW MATHAY BUILDING FOURTH FLOOR POWER LAYOUT-NEW MATHAY BUILDING

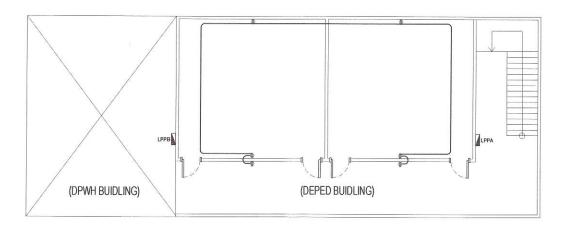




- 1) FOR REPLACEMENT OF UNUSABLE WIRING DEVICES/LIGHTING FIXTURES AND OTHER FIXTURES.
 2) FOR REPLACEMENT AND UPGRADING OF PANEL BOARD.
 3) VERIFY ACTUAL LOCATION

GROUND FLOOR LIGHTING LAYOUT - DEPED & DPWH BUILDING

NOT TO SCALE



1) FOR REPLACEMENT OF UNUSABLE WIRING DEVICES/LIGHTING FIXTURES.

GROUND FLOOR POWER LAYOUT - DEPED & DPWHBUILDING

LOCATION:

NOT TO SCALE SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED REHABILITATION OF ELECTRICAL SYSTEM AT SERGIO OSMEÑA SENIOR HIGH SCHOOL

BARANGAY MASAMBONG, DISTRICT 1,

11/10/2020 ENGR. LEO S. DEL ROSARIO HEAD, PLAVINGS PROGRAMMYGDINGION

SUBMITTED BY;

DRAWNBY: Op....

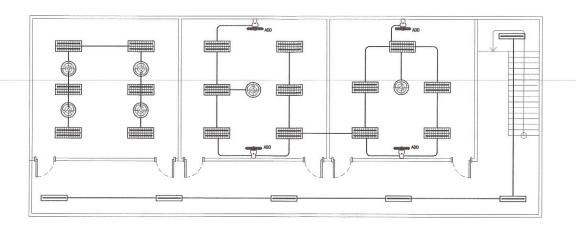


RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

APPROVED BY:

GROUND FLOOR LIGHTING LAYOUT-DEPED & DPWH LAYOUT-DEPED & DPWH BUILDING 06

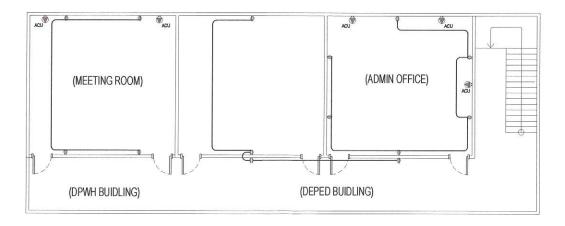


NOTE

1) REPLACEMENT OF UNUSABLE WIRING DEVICES/LIGHTING FIXTURES AND OTHER FIXTURES.

1 | SECOND FLOOR LIGHTING LAYOUT - DEPED & DPWH BUILDING

NOT TO SCALE



NOTE:

1) REPLACEMENT OF UNUSABLE WIRING DEVICES/ LIGHTING FIXTURES.

2 | SECOND FLOOR POWER LAYOUT - DEPED & DPWH BUILDING

NOT TO SCALE

SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

	PROJECT TILE.
	PROPOSED REHABILITATION OF ELECTRICAL
	SYSTEM AT SERGIO OSMEÑA SENIOR HIGH
	SCHOOL
_	

LOCATION: BARANGAY MASAMBONG, DISTRICT 1, QUEZON CITY



	\wedge
ENGR.	SAGANI R. VERZOSA, JR.
	OIC, CITY ENGINEERING DEPARTMENT

RECOMMENDING APPROVAL:

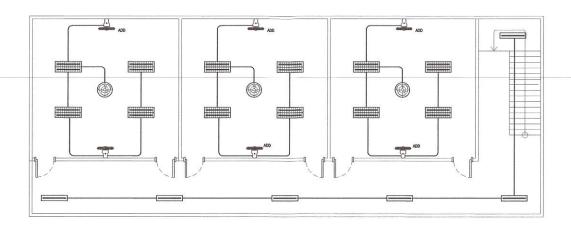
HON. MA. JOSEFINA G. BELMONTE

GTYMAYOR, QUEZONCITY

APPROVED BY:

SECOND FLOOR LIGHTING
LAYOUT-DEPED & DPWH
BUILDING
SECOND FLOOR POWER
LAYOUT-DEPED & DPWH
BUILDING

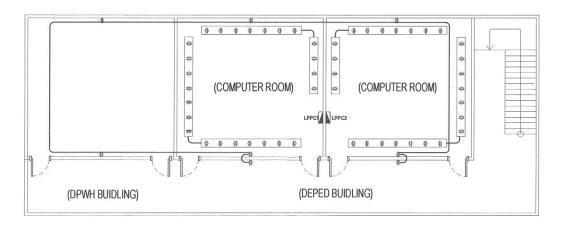




1) REPLACEMENT OF UNUSABLE WIRING DEVICES/LIGHTING FIXTURES AND OTHER FIXTURES.

THIRD FLOOR LIGHTING LAYOUT - DEPED & DPWH BUILDING

NOT TO SCALE



1) REPLACEMENT OF UNUSABLE WIRING DEVICES/ LIGHTING FIXTURES.
2) INSTALLATION OF OUTLETS FOR 50 PC UNITS.

3) INSTALLATION OF SUB-PANEL FOR COMPUTER ROOM.

THIRD FLOOR POWER LAYOUT - DEPED & DPWH BUILDING

NOT TO SCALE

SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED REHABILITATION OF ELECTRICAL SYSTEM AT SERGIO OSMEÑA SENIOR HIGH SCHOOL BARANGAY MASAMBONG, DISTRICT 1, LOCATION:

QUEZON CITY

gu. 11/10/2020 CHECKED BY CHIEF REVISION NO. :

SUBMITATED BY:

ENGR. LEO S. DEL ROSARIO



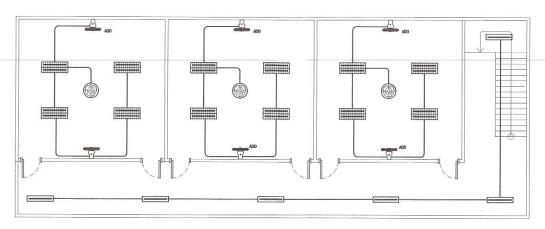
RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

APPROVED BY:

THIRD FLOOR LIGHTING LAYOUT-DEPED & DPWH BUILDING THIRD FLOOR POWER LAYOUT-DEPED & DPWH





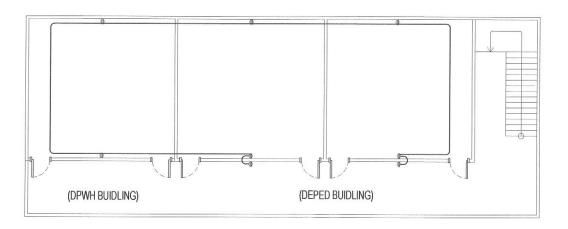
NACOTE:

1) REPLACEMENT OF UNUSABLE WIRING DEVICES/LIGHTING FIXTURES AND OTHER FIXTURES.

2) INSTALLATION OF ADDITIONAL WALL FANS

1 | FOURTH FLOOR LIGHTING LAYOUT - DEPED & DPWH BUILDING

NOT TO SCALE



NOTE:

1) REPLACEMENT OF UNUSABLE WIRING DEVICES/ LIGHTING FIXTURES.

2 | FOURTH FLOOR POWER LAYOUT - DEPED & DPWH BUILDING

LOCATION:

NOT TO SCALE

SHEET NO.



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE:

PROPOSED REHABILITATION OF ELECTRICAL
SYSTEM AT SERGIO OSMEÑA SENIOR HIGH
SCHOOL

BARANGAY MASAMBONG, DISTRICT 1,

QUEZON CITY

CHECKED BY:
REVISION NO.:

ENGR. LEO S. DEL ROSARIO
HEAD, PLANNINGS RECORAMINASDIVISION

SUBMITTED BY:



RECOMMENDING APPROVAL:

HON. WA. JOSEFINA G. BELMONTE CITYMAYOR, QUEZONCITY

APPROVED BY:

FOURTH FLOOR LIGHTING
LAYOUT-DEPED & DPWH
BUILDING
BUILDING
FOURTH FLOOR POWER
LAYOUT-DEPED & DPWH
BUILDING



MOUNTING: NEMA1, SURFACE MOUNTED WITH GRAY OSMEÑA BUILDING LOCATION: GROUND FLOOR POWDERED COATED FINISH WITH MULTI-TERMINAL BLOCK FOR SOLID GROUND BUS SIZE OF LOAD DESCRIPTION **VOLTS** VA AMP. AT WIRES CONDUITS 2-30mm² THHN COPPER WIRE 1-14mm² TW GROUND WIRE EXISTING LOAD IN 40mmø PVC PIPE 230 7500 32.61 2 2-30mm² THHN COPPER WIRE 1-14mm² TW GROUND WIRE IN 40mmø PVC PIPE EXISTING LOAD 230 7500 32.61 100 2-22mm² THHN COPPER WIRE 1-8.0mm² TW GROUND WIRE 2-22mm² THHN COPPER WIRE 1-8.0mm² TW GROUND WIRE IN 32mmø PVC PIPE 3 LPP1 230 7300 31.74 IN 32mmø PVC PIPE LPP2 4 230 6540 28.43 70 5 IN 32mmø PVC PIPE LPP3 230 6540 28.43 70 2-22mm² THHN COPPER WIRE 1-8.0mm² TW GROUND WIRE IN 32mmø PVC PIPE LPP4 7690 33.43 230 TOTAL 43070 187.26

230 V

COMPUTATION :

OVER CURRENT PROTECTION

USE: 225AT, 2P, 230V CIRCUIT BREAKER

*Note: EXISTING PANEL

= 187.26 AMPERES

MAIN FEEDER:

USE: 2 - 125mm2 THHN & 1-30mm2 TW GROUND WIRE IN 65mmØ IMC PIPE

	1-OSMEÑA BUILDNIC ON: GROUND FLOOR	3			MOUNTING: NEMA1, SURFACE MOUNTED WITH GRAY POWDERED COATED FINISH WITH MULTI-TERMINAL BLC FOR SOLID GROUND BUS			
CKT.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF		
NO.						WIRES	CONDUITS	
1	16-LIGHTING OUTLETS 4-ORBIT FANS	230	1600	6.96	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmø PVC PIPE	
2	18-LIGHTING OUTLETS 4-ORBIT FANS, 2-WALL FANS	230	2100	9.13	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
3	6-CONVENIENCE OUTLETS	230	1080	4.70	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
4	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
5	6-CONVENIENCE OUTLETS	230	1080	4.70	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
6	SPARE	230	-	-	20	EMPTY	EMPTY	
	TOTAL		7300	31.74			T10-11	

COMPUTATION:

OVER CURRENT PROTECTION

IT = 7300 VA 230 V

= 31.74 AMPERES

USE: 70AT, 2P, 230V CIRCUIT BREAKER

LOCATION:

USE: 2 - 22mm2 THHN & 1-8.0mm2 TW GROUND WIRE IN 32mmØ PVC PIPE

TYP	2-OSMEÑA BUILDING ICAL TO THIRD FLO	OR / LI	MOUNTING: NEMA1, SURFACE MOUNTED WITH GRAY POWDERED COATED FINISH WITH MULTI-TERMINAL BLI FOR SOLID GROUND BUS						
1000	ON: SECOND FLOOR & THIRD FLOO	JK)				075.05			
CKT.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF			
NO.	LOAD BLOOMI HOW	VOLIS	VA	AWIF.	Al	WIRES	CONDUITS		
1	12-LIGHTING OUTLETS 4-ORBIT FANS, 4-WALL FANS	230	1200	5.22	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE		
2	12-LIGHTING OUTLETS 4-ORBIT FANS, 4-WALL FANS	230	1200	5.22	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE		
3	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmø PVC PIPE		
4	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE		
5	2-CONVENIENCE OUTLETS 5-EMERGENCY LIGHTS	230	1260	5.48	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE		
6	SPARE	230	-	-	20	EMPTY	EMPTY		
	TOTAL		6540	28.43					
COMP	UTATION:		OVERCU	RRENTPRO	TECTION				
388	= 7300 VA 230 V	USE: 70AT, 2P, 230V CIRCUIT BREAKER MAIN FEEDER:							
	= 28.43 AMPERES				THHN &	1-8.0mm² TW GROUND WIRE IN 3	32mmØ PVC PIPE		

_PP2	1-OSMEÑA BUILDNI ON: FOURTH FLOOR	G					RFACE MOUNTED WITH GRAY NISH WITH MULTI-TERMINAL BLOCK S	
CKT.	LOAD DESCRIPTION		VA	AMP.	AT	SIZE OF		
NO.		VOLTS				WIRES	CONDUITS	
1	16-LIGHTING OUTLETS 6-ORBIT FANS	230	2000	8.70	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmø PVC PIPE	
2	11-LIGHTING OUTLETS 5-ORBIT FANS	230	1550	6.74	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
3	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
4	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
5	2-CONVENIENCE OUTLETS 5-EMERGENCY LIGHTS	230	1260	5.48	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
6	SPARE		-	-	20	EMPTY	EMPTY	
	TOTAL		7690	33.43				

IT = 7690 VA 230 V

USE: 70AT, 2P, 230V CIRCUIT BREAKER

= 33.43 AMPERES

MAIN FEEDER:

USE: 2 - 22mm² THHN & 1-8.0mm² TW GROUND WIRE IN 32mmØ PVC PIPE

APPROVED BY:

SCHEDULE OF LOADS

NOT TO SCALE

SHEET CONTENT

SCHEDULE OF LOADS



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE: PROPOSED REHABILITATION OF ELECTRICAL SYSTEM AT SERGIO OSMEÑA SENIOR HIGH SCHOOL

QUEZON CITY

BARANGAY MASAMBONG, DISTRICT 1,

11/10/2020 CHECKED BY COMICE REVISION NO.:

SUBMITTED BY:

DRAWNBY: Qu-

ENGR. LEO S DEL ROSARIO HEAD, PLANING & PROGRAMMING DIVISION

ENGR. SAGANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT

RECOMMENDING APPROVAL:

HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

EL 10

SHEET NO.

						SIZE OF		
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS	
1	24-LIGHTING OUTLETS	230	1200	5.22	20	2-3.5mm² THHN COPPER WIRE	IN 20mmø PVC PIPE	
2	24-LIGHTING OUTLETS	230	1200	5.22	20	2-3.5mm² THHN COPPER WIRE	IN 20mmø PVC PIPE	
3	24-LIGHTING OUTLETS	230	1200	5.22	20	2-3.5mm² THHN COPPER WIRE	IN 20mmø PVC PIPE	
4	15-LIGHTING OUTLETS	230	750	3.26	20	2-3.5mm² THHN COPPER WIRE	IN 20mmø PVC PIPE	
5	12-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
6	16-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmø PVC PIPE	
7	12-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmø PVC PIPE	
8	6-ORBIT FANS	230	1200	5.22	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
9	6-ORBIT FANS	230	1200	5.22	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
10	6-ORBIT FANS	230	1200	5.22	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
11	6-ORBIT FANS	230	1200	5.22	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
12	SPARE	230	-	-	-	EMPTY	EMPTY	
	TOTAL		13860	77.46				
COMPUTATION:			OVER CURRENT PROTECTION					

	HAY BUILDING - ME ON: GROUND FLOOR)P					IRFACE MOUNTED WITH GRAY NISH WITH MULTI-TERMINAL BLOC IS	
CKT.						SIZE OF		
NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	WIRES	CONDUITS	
1	24-LIGHTING OUTLETS	230	1200	5.22	20	2-3.5mm² THHN COPPER WIRE	IN 20mmø PVC PIPE	
2	24-LIGHTING OUTLETS	230	1200	5.22	20	2-3.5mm² THHN COPPER WIRE	IN 20mmø PVC PIPE	
3	18-LIGHTING OUTLETS	230	900	3.91	20	2-3.5mm² THHN COPPER WIRE	IN 20mmø PVC PIPE	
4	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
5	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmø PVC PIPE	
6	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
7	8-CONVENIENCE OUTLETS	230	1440	6.26	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmø PVC PIPE	
8	8-ORBIT FANS	230	1600	6.96	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
9	8-ORBIT FANS	230	1600	6.96	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
10	9-ORBIT FANS	230	1800	7.83	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
11	9-ORBIT FANS	230	1800	7.83	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmø PVC PIPE	
12	21-LIGHTING OUTLETS 6-ORBIT FANS	230	2250	9.78	20	2-3.5mm² THHN COPPER WIRE	IN 20mmø PVC PIPE	
13	6-CONVENIENCE OUTLETS 6-WALL FANS	230	2280	9.91	20	2-3.5mm ² THHN COPPER WIRE 1-3.5mm ² TW GROUND WIRE	IN 20mmø PVC PIPE	
14	SPARE	230	-	-	-	EMPTY	EMPTY	
	TOTAL		20390	88.65				

COMPUTATION:

OVER CURRENT PROTECTION

= 88.65 AMPERES

USE: 100AT, 2P, 230V CIRCUIT BREAKER

USE: 2 - 30mm² THHN & 1-14mm² TW GROUND WIRE IN 32mmØ PVC PIPE

SCHEDULE OF LOADS

NOT TO SCALE

SHEET NO.

SHEET CONTENT

SCHEDULE OF LOADS



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT PROJECT TITLE: PROPOSED REHABILITATION OF ELECTRICAL SYSTEM AT SERGIO OSMEÑA SENIOR HIGH SCHOOL

QUEZON CITY

LOCATION:

BARANGAY MASAMBONG, DISTRICT 1,

DATE 11/10/2020

FEVISION NO.:

DRAWNBY: Of SUBMITTED BY:

ENGR. LED S. DEL ROSARIO HEAD, PLANNING & PPOGRAMMING DIVISION

ENGR. ISAGANI R. VERZOSA, JR.

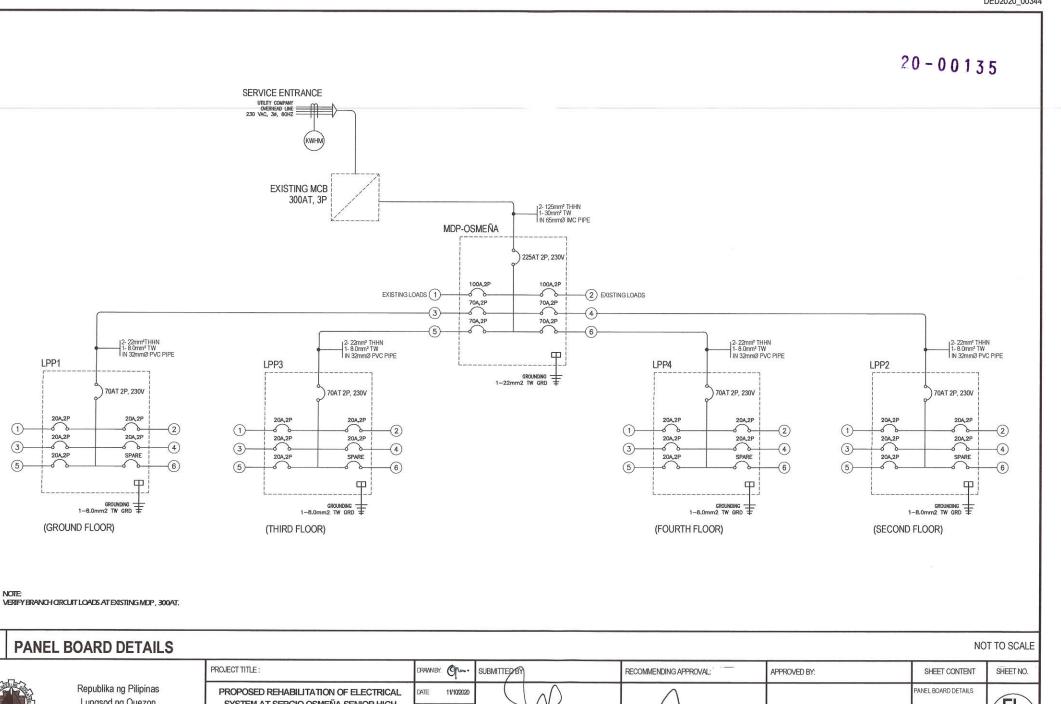
RECOMMENDING APPROVAL:

CITY MAYOR, QUEZON CITY

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE

EL



Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

LPP1

20A.2P

20A,2P

3

SYSTEM AT SERGIO OSMEÑA SENIOR HIGH SCHOOL BARANGAY MASAMBONG, DISTRICT 1, LOCATION: QUEZON CITY

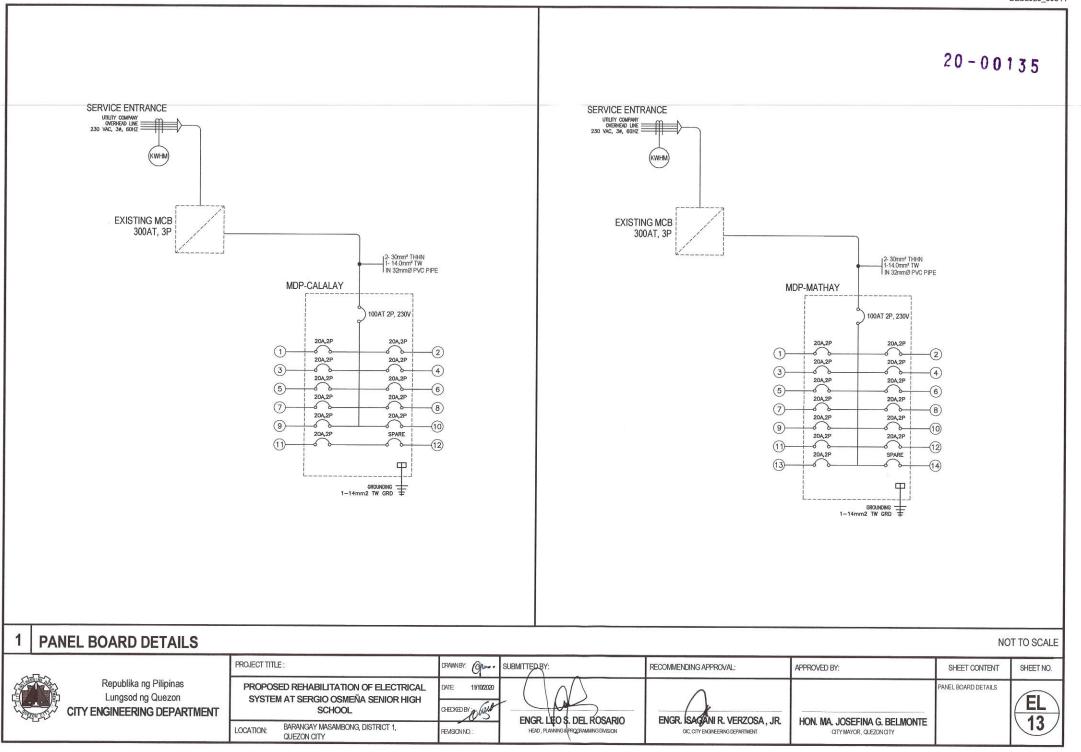
CHECKED BY WILL ENGR. LEO S. DEL ROSARIO

REVISION NO.:

ENGR. 48AGANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT

HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY

EL



GENERAL NOTES:

NOTES ON REINFORCEMENT:

- 1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDING CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318)
- 2. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE ENO OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS

STRENGTH 3000 Psi (20.685 MPA) MAX SIZE OF AGGREGATES 1 in (25 mm)

4 in (100mm)

4 in (100mm)

a.SLAB ON GRADE. CURBS. PAVEMENTS.

WALL FOOTING

3 in (19mm)

b.BEAMS COLUMNS. 3000 Psi (20.685 MPA) FOOTINGS SUSPENDED SLAB

- 3. All REINFORCING BARS SHALL CONFORM TO PNS49 GRADE 275 FOR 12MM AND SMALLER BARS AND GRADE 415 FOR 16mm AND LARGER BARS
- 4. IN GENERAL THE LATEST EDITION OF ACM15. MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTVERWISE SHOWN OR NOTED.
- 5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

CONCRETE DEPOSITED DIRECTLY AGAINST GROUND 75mm

SUSPENDED SLABS

20mm 40 mm

SIAB ON GRADE WALLS ABOVE GRADE

25 mm

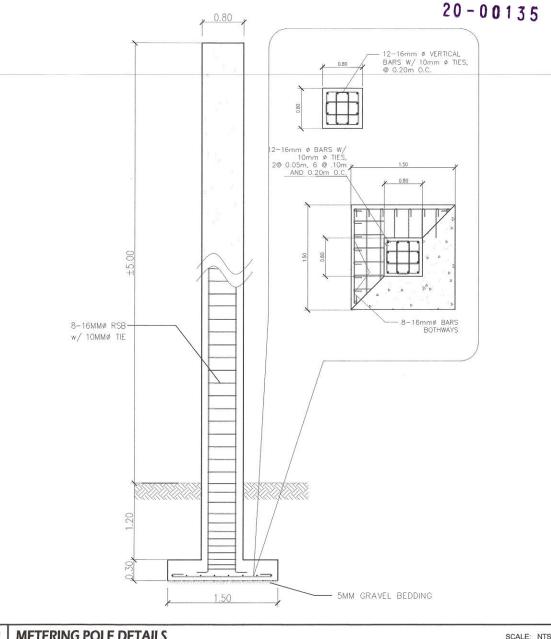
BEAMS & COLUMNS

40mm

- 6. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPLICE AND ANCHORAGE LENGTH UNLESS OTHERWISE SHOWN ON DRAWINGS SPICES SHALL BE STAGGERED WHENEVER POSSIBLE.)
- 7. ALL ANCHOR BOLTS DOWELS AND OTHER INSERTS SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR PLACING OF CONCRETE
- 8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS SILLS STOOLS, EQUIPMENTS & MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL. ELECTRICAL, AND MECHANICAL
- 9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP FOG SPRAYING, CURING COMPOUNDS OR OTHER
- 10. STRIPPING OF FORMS AND SHORES:

FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN	
ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALL	21 DAYS
BEAMS	14 DAYS
COLUMNS	21 DAYS

- 11. DEVELOPMENT LENGTH FOR ALL BARS SHALL BE A MINIMUM OF 50 BAR DIAMETER UNLESS OTHERWISE NOTED STRUCTURAL STEEL AND PLATES.
- 12. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM (A-36) SPECIFICATIONS WITH MINIMUM YIELD STRENGTH, fy= 250 MPa
- 13. ANCHOR & FASTENER BOLTS. ALL BOLTS SHALL CONFORM TO ASTM (A-307) SPECIFICATIONS
- 14. WELDING RODS. ALL WELDING RODS SHALL BE MILD STEEL ELECTRODE. LOW HYDROGEN E7018 WITH MINIMUM YIELD STRENGTH = 420 MPa
- 15. FOUNDATION IS DESIGNED BASED ON NATIONAL BUILDING CODE OF THE PHILIPPINES FOR AN ALLOWABLE SOIL BEARING CAPACITY Of 240KPa
- 16. FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL
- 17. THE CONTRACTOR SHALL NOTIFY THE ENGINEER UPON COMPLETION OF FOUNDATION EXCAVATION FOR ACTUAL SOIL CONDITIONS WHICH DO NOT CONFORM TO THE BOA BEARING CAPACITY FOR PROPER REVISION.



GENERAL SPECIFICATIONS

Republika ng Pilipinas Lungsod ng Quezon CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED UPGRADING OF SERVICE ENTRANCE DATE: OF DON QUINTIN PAREDES HIGH SCHOOL

UBMITTED BY: OCATION: BARANGAY QUIRINO 2-B, DISTRICT 3, QUEZON CITY

METERING POLE DETAILS ECOMMENDING APPROVAL

ENGR. LEO S. DEL ROSARIO

ENGR ISAGANI R. VERZOSA , JR.

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE

CITY MAYOR, QUEZON CIT

SPECIFICATIONS

ST-01