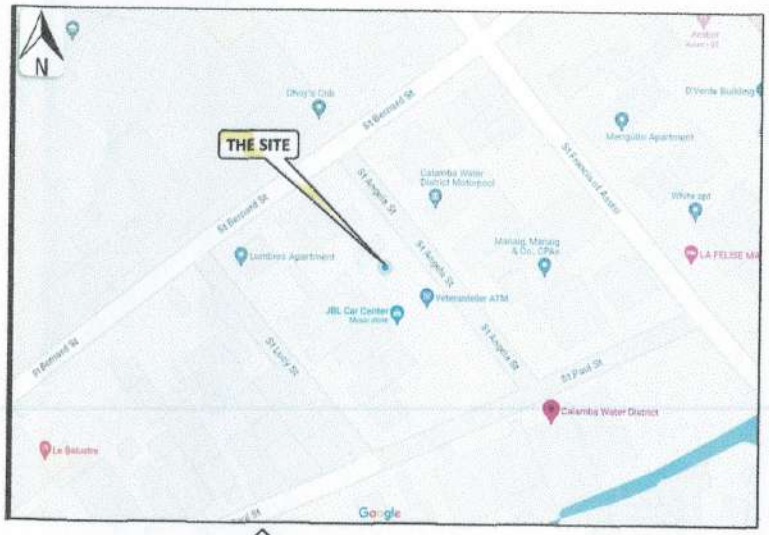
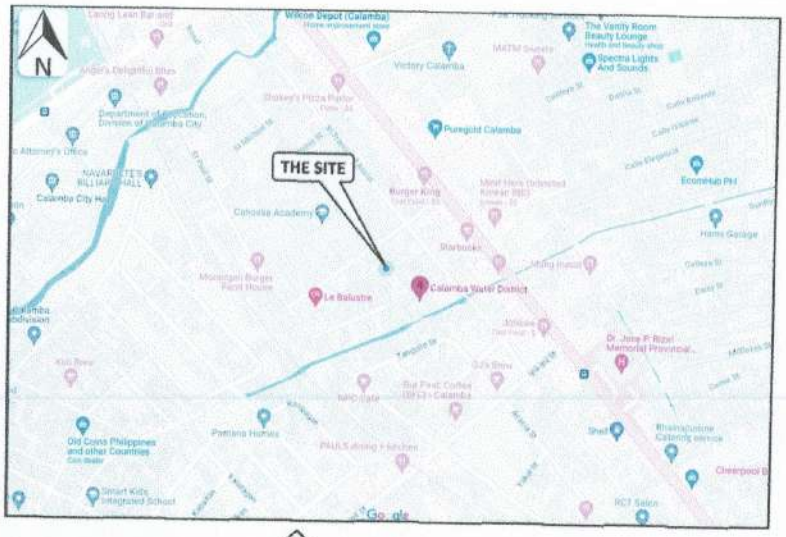
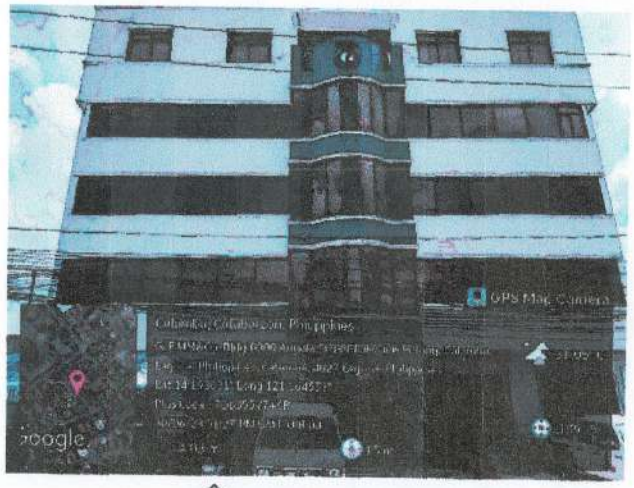


1/E1 VICINITY MAP
SCALE NTS



2/E1 LOCATION MAP
SCALE NTS



3/E1 MAIN OFFICE
SCALE NTS

NOTES:
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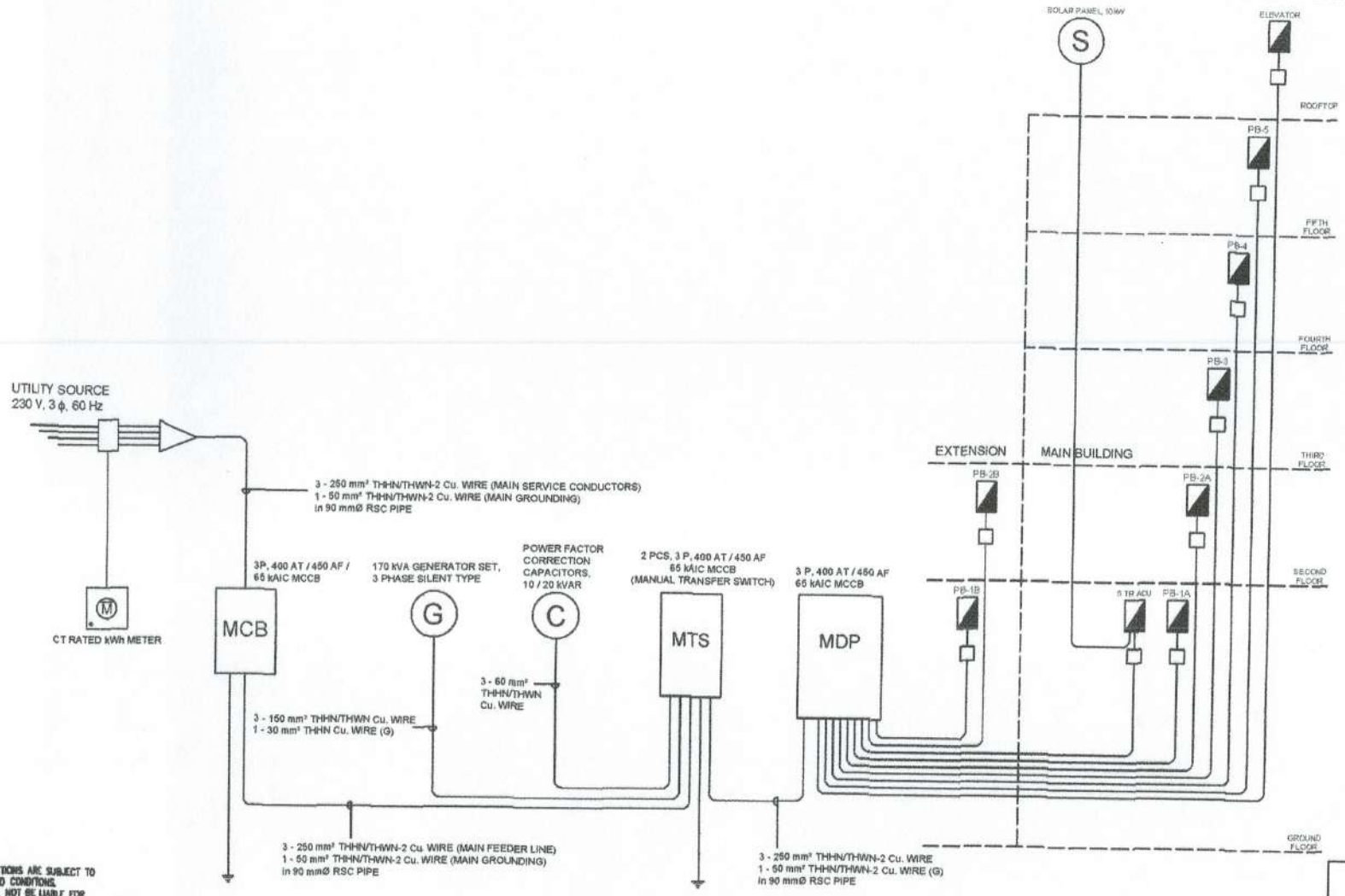
Calamba Water District Lakeview Subdivision, Halang, Calamba, Laguna Tel. Nos. 545-1614; 245-2086; 245-3180/3182 Tel./Fax: (049) 545-2863 PHP QMS 21 93 0047 24/7 Public Service	PROJECT TITLE: SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM	DRAWN & DESIGNED BY: ENGR. N. MARFORI 10/12/23 CHECKED BY: ENGR. R. CAPITLE for 10/6/23 RECOMMENDED BY: ENGR. R. CARTAGO 10/6/23 APPROVED BY: MR. E. A. AGUILAR, JR.	ENGR. JAIME ASILO PACO 10/18/23 Electrical Engineer SHEET CONTENTS: VICINITY MAP, LOCATION MAP, MAIN OFFICE DATE: 08/31/2023 SHEET NO. E-1 REVISION NO.
TECHNICAL SERVICES DEPARTMENT ENGINEERING AND MAINTENANCE DIVISION	LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA		

DOC. REF. NO. CWD-QF-TS-EMD-004 Revision No.: 01 EFFECTIVITY DATE: May 17, 2022



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1/E2 RISER DIAGRAM
SCALE NTS

10/18/23
ENGR. JAIME ASILO PACO
Electrical Engineer

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PHP QMS 21 93 0047

TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI 10/06/23	SHEET CONTENTS:	DATE: 08/31/2023	
CHECKED BY: ENGR. R. CAPITLE 10/6/23	RISER DIAGRAM	SHEET NO.	
RECOMMENDED BY: ENGR. R. CARTAGO 10/6/23		E-2	
APPROVED BY: MR. E. A. AGUILAR, JR.	REVISION NO.		

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PANELBOARD 1A (PB-1A)		SCHEDULE OF LOADS																	
CIRCUIT NO.	LOAD DESCRIPTION	NO. OF OUTLETS			NO. OF SWITCHES				POWER, VA	FULL LOAD CURRENT, A	VOLTAGE, V	CIRCUIT BREAKER (BOLT-ON TYPE)				SIZE OF COPPER WIRE		CONDUIT	
		L.O.	C.O.	OTHER	S1	S2	S3	3WS				AT	AF	kAIC	POLE	CONDUCTOR	GROUNDING	Ø SIZE, mm	TYPE OF PIPE
1	LIGHTING OUTLET	15					1		1500	6.52	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
2	LIGHTING OUTLET	11			3		1		1100	4.78	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
3	LIGHTING OUTLET	9					1		900	3.91	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
4	LIGHTING OUTLET	15				1	2	2	1500	6.52	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
5	LIGHTING OUTLET	25			2	2	1		2500	10.87	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
6	LIGHTING OUTLET	10			5				1000	4.35	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
7	CONVENIENCE OUTLET		6						2160	9.39	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
8	CONVENIENCE OUTLET		6						2160	9.39	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
9	CONVENIENCE OUTLET		8						2880	12.52	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
10	CONVENIENCE OUTLET		6						2160	9.39	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
11	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5mm² THHN/THWN-2	1 - 5.5mm² THHN/THWN-2	25	PVC
12	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5mm² THHN/THWN-2	1 - 5.5mm² THHN/THWN-2	25	PVC
13	2.5 HP WALL MOUNTED SPLIT TYPE ACU			1					2310	10.04	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
14	1.5 HP WINDOW TYPE ACU			1					1350	5.87	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
15	SPARE								500		230	30	50	22	2	-	-	-	-
16	SPARE								500		230	20	50	22	2	-	-	-	-
	TOTAL	85	26	4	10	3	6	2	30880	129.91	230								

TYPE OF SERVICE: 230V, 60 HZ, 2-WIRE, 1Ø ENCLOSURE: NEMA 1R MOUNTING: WALL MOUNT LOCATION: GROUND FLOOR

TOTAL CAPACITY: 125% x (TOTAL POWER / VOLTAGE) = 125% x (30880 VA / 230 V) = 167.62 A

FEEDER WIRE SIZE: 2 - 60 mm² THHN/THWN-2 Cu. WIRE + 1 - 22mm² THHN/THWN-2 Cu. WIRE (G) in 50 mmØ RSC PIPE

MAIN CIRCUIT BREAKER: 175 AT / 200 AF / 42 kAIC / 2P MCCB

PANELBOARD 1B (PB-1B) [EXTENSION]		SCHEDULE OF LOADS																	
CIRCUIT NO.	LOAD DESCRIPTION	NO. OF OUTLETS			NO. OF SWITCHES				POWER, VA	FULL LOAD CURRENT, A	VOLTAGE, V	CIRCUIT BREAKER (BOLT-ON TYPE)				SIZE OF COPPER WIRE		CONDUIT	
		L.O.	C.O.	OTHER	S1	S2	S3	3WS				AT	AF	kAIC	POLE	CONDUCTOR	GROUNDING	Ø SIZE, mm	TYPE OF PIPE
1	LIGHTING OUTLET	13				1	1		1300	5.65	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
2	LIGHTING OUTLET	10				3			1000	4.35	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
3	LIGHTING OUTLET	10			2	1			1000	4.35	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
4	LIGHTING OUTLET	11				2			1100	4.78	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
5	LIGHTING OUTLET	10					1		1000	4.35	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
6	LIGHTING OUTLET	14				3			1400	6.09	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
7	CONVENIENCE OUTLET		12						4320	18.78	230	30	50	22	2	2 - 5.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
8	CONVENIENCE OUTLET		11						3960	17.22	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
9	CONVENIENCE OUTLET		11						3960	17.22	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
10	CONVENIENCE OUTLET		13						4680	20.35	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
11	1 HP WINDOW TYPE ACU			1					800	3.48	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
12	1 HP WINDOW TYPE ACU			1					800	3.48	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
13	1 HP WINDOW TYPE ACU			1					800	3.48	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
14	1 HP WALL MOUNTED SPLIT TYPE ACU			1					800	3.48	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
15	2 HP FLOOR MOUNTED SPLIT TYPE ACU			1					1600	6.96	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
16	2 HP FLOOR MOUNTED SPLIT TYPE ACU			1					1600	6.96	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
17	3/4 HP WALL MOUNTED SPLIT TYPE ACU			1					700	3.04	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5mm² THHN/THWN-2	20	PVC
18	SPARE								500		230	30	50	22	2	-	-	-	-
	TOTAL	68	47	7	2	10	2	0	31320	134.00	230								

TYPE OF SERVICE: 230V, 60HZ, 2-WIRE, 1Ø ENCLOSURE: NEMA 1R MOUNTING: WALL MOUNT LOCATION: GROUND FLOOR - EXTENSION

TOTAL CAPACITY: 125% x (TOTAL POWER / VOLTAGE) = 125% x (31320 VA / 230 V) = 170.22 A

FEEDER WIRE SIZE: 2 - 60 mm² THHN/THWN-2 Cu. WIRE + 1 - 22mm² THHN/THWN-2 Cu. WIRE (G) in 50 mmØ RSC PIPE

MAIN CIRCUIT BREAKER: 175 AT / 200 AF / 42 kAIC / 2P MCCB

NOTES:
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1 E 3 SCHEDULE OF LOADS

SCALE NTS

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Tel. Fax: (049) 545-2863
24/7 Public Service
PHP QMS 21 93 0047

TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI 10/06/23
CHECKED BY: ENGR. R. CAPITLE 10/6/23
RECOMMENDED BY: ENGR. R. CARTAGO
APPROVED BY: MR. E. A. AGUILAR, JR.

10/18/23
ENGR. JAIME ASILO PACO
Electrical Engineer

SHEET CONTENTS: SCHEDULE OF LOADS
DATE: 08/31/2023
SHEET NO. E-3
REVISION NO.

PANELBOARD 2A (PB-2A)

SCHEDULE OF LOADS

CIRCUIT NO.	LOAD DESCRIPTION	NO. OF OUTLETS			NO. OF SWITCHES				POWER, VA	FULL LOAD CURRENT, A	VOLTAGE, V	CIRCUIT BREAKER (BOLT-ON TYPE)				SIZE OF COPPER WIRE		CONDUIT	
		L.O.	C.O.	OTHER	S1	S2	S3	3WS				AT	AF	kAIC	POLE	CONDUCTOR	GROUNDING	ø SIZE, mm	TYPE OF PIPE
1	LIGHTING OUTLET	11			2		1		1100	4.78	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
2	LIGHTING OUTLET	26			3		1		2600	11.30	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
3	LIGHTING OUTLET	9			1				900	3.91	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
4	LIGHTING OUTLET	19			1	1		2	1900	8.26	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
5	CONVENIENCE OUTLET		6						2880	12.52	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
6	CONVENIENCE OUTLET		6						2880	12.52	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
7	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
8	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
9	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
10	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
11	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
12	2.5 HP WALL MOUNTED SPLIT TYPE ACU			1					2310	10.04	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
13	1.5 HP WINDOW TYPE ACU			1					1350	5.87	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
14	1.5 HP WINDOW TYPE ACU			1					1350	5.87	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
15	SPARE								500		230	30	50	22	2	-	-	-	-
16	SPARE								500		230	20	50	22	2	-	-	-	-
	TOTAL	65	16	8	7	1	2	2	39170	165.96	230								

TYPE OF SERVICE: 230 V, 60 HZ, 2-WIRE, 1Ø ENCLOSURE: NEMA 1R MOUNTING: WALL MOUNT LOCATION: SECOND FLOOR

TOTAL CAPACITY: 125% x (TOTAL POWER / VOLTAGE) = 125% x (39170 VA / 230 V) = 212.88 A

FEEDER WIRE SIZE: 2 - 100 mm² THHN/THWN-2 Cu. WIRE + 1 - 30 mm² THHN/THWN-2 Cu. WIRE (G) in 65 mmø RSC PIPE

MAIN CIRCUIT BREAKER: 225 AF / 250 AF / 42 kAIC / 2P MCCB

PANELBOARD 2B (PB-2B) [EXTENSION]

SCHEDULE OF LOADS

CIRCUIT NO.	LOAD DESCRIPTION	NO. OF OUTLETS			NO. OF SWITCHES				POWER, VA	FULL LOAD CURRENT, A	VOLTAGE, V	CIRCUIT BREAKER (BOLT-ON TYPE)				SIZE OF COPPER WIRE		CONDUIT	
		L.O.	C.O.	OTHER	S1	S2	S3	3WS				AT	AF	kAIC	POLE	CONDUCTOR	GROUNDING	ø SIZE, mm	TYPE OF PIPE
1	LIGHTING OUTLET	12					2		1200	5.22	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
2	LIGHTING OUTLET	12					1		1200	5.22	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
3	LIGHTING OUTLET	11					1		1100	4.78	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
4	LIGHTING OUTLET	9			1	1			900	3.91	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
5	LIGHTING OUTLET	12					1		1200	5.22	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
6	CONVENIENCE OUTLET		10						3600	15.65	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
7	CONVENIENCE OUTLET		13						4680	20.35	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
8	CONVENIENCE OUTLET		14						5040	21.91	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
9	2 HP FLOOR MOUNTED SPLIT TYPE ACU			1					1600	6.96	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
10	2 HP FLOOR MOUNTED SPLIT TYPE ACU			1					1600	6.96	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
11	2 HP FLOOR MOUNTED SPLIT TYPE ACU			1					1600	6.96	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
12	2 HP FLOOR MOUNTED SPLIT TYPE ACU			1					1600	6.96	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
13	2 HP FLOOR MOUNTED SPLIT TYPE ACU			1					1600	6.96	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
14	3/4 HP WALL MOUNTED SPLIT TYPE ACU			1					700	3.04	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
15	3/4 HP WALL MOUNTED SPLIT TYPE ACU			1					700	3.04	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
16	SPARE								500		230	30	50	22	2	-	-	-	-
	TOTAL	56	37	7	1	1	5	0	28820	123.19	230								

TYPE OF SERVICE: 230 V, 60 HZ, 2-WIRE, 1Ø ENCLOSURE: NEMA 1R MOUNTING: WALL MOUNT LOCATION: SECOND FLOOR - EXTENSION

TOTAL CAPACITY: 125% x (TOTAL POWER / VOLTAGE) = 125% x (28820 VA / 230 V) = 156.63 A

FEEDER WIRE SIZE: 2 - 60 mm² THHN/THWN-2 Cu. WIRE + 1 - 22 mm² THHN/THWN-2 Cu. WIRE (G) in 50 mmø RSC PIPE

MAIN CIRCUIT BREAKER: 175 AT / 200 AF / 42 kAIC / 2P MCCB

NOTES:
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1/E4 SCHEDULE OF LOADS

SCALE NTS

ENGR. JAIME JASILO PACO
Electrical Engineer
10/18/23

Calamba Water District
Lakeview Subdivision, Halang, Calamba, Laguna
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TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI	09/26/23	SHEET CONTENTS:	DATE: 08/31/2023
CHECKED BY: ENGR. R. CAPITLE	10/6/23	SCHEDULE OF LOADS	SHEET NO.
RECOMMENDED BY: ENGR. R. CARTAGO			E-4
APPROVED BY: MR. E. A. AGUILA, JR.		REVISION NO.	

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PANELBOARD 3 (PB-3)

SCHEDULE OF LOADS

CIRCUIT NO.	LOAD DESCRIPTION	NO. OF OUTLETS			NO. OF SWITCHES				POWER, VA	FULL LOAD CURRENT, A	VOLTAGE, V	CIRCUIT BREAKER (BOLT-ON TYPE)				SIZE OF COPPER WIRE		CONDUIT	
		L.O.	C.O.	OTHER	S1	S2	S3	3WS				AT	AF	kAIC	POLE	CONDUCTOR	GROUNDING	Ø SIZE, mm	TYPE OF PIPE
1	LIGHTING OUTLET	17			2		1		1700	7.39	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
2	LIGHTING OUTLET	19			3		1		1900	8.26	230	20	50	22	2	2 - 3.5mm² THHN/THWN-2	-	20	PVC
3	CONVENIENCE OUTLET		10						3600	15.65	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
4	CONVENIENCE OUTLET		11						3960	17.22	230	30	50	22	2	2 - 3.5mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
5	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
6	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
7	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
8	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
9	1.5HP WINDOW TYPE ACU			1					1350	5.87	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
10	1.5HP WINDOW TYPE ACU			1					1350	5.87	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
11	SPARE								500		230	30	50	22	2	-	-	-	-
12	SPARE								500		230	20	50	22	2	-	-	-	-
	TOTAL	36	21	6	5	0	2	0	31580	132.96	230								

TYPE OF SERVICE: 230V, 60 HZ, 2-WIRE, 1Ø ENCLOSURE: NEMA 1R MOUNTING: WALL MOUNT LOCATION: THIRD FLOOR

TOTAL CAPACITY: 125% x (TOTAL POWER / VOLTAGE) = 125% x (31580 VA / 230 V) = 171.69 A

FEEDER WIRE SIZE: 2 - 60 mm² THHN/THWN-2 Cu. WIRE + 1 - 22 mm² THHN/THWN-2 Cu. WIRE (G) in 50 mmØ RSC PIPE

MAIN CIRCUIT BREAKER: 175 AT / 200 AF / 42 kAIC / 2P MCCB

PANELBOARD 4 (PB-4)

SCHEDULE OF LOADS

CIRCUIT NO.	LOAD DESCRIPTION	NO. OF OUTLETS			NO. OF SWITCHES				POWER, VA	FULL LOAD CURRENT, A	VOLTAGE, V	CIRCUIT BREAKER (BOLT-ON TYPE)				SIZE OF COPPER WIRE		CONDUIT	
		L.O.	C.O.	OTHER	S1	S2	S3	3WS				AT	AF	kAIC	POLE	CONDUCTOR	GROUNDING	Ø SIZE, mm	TYPE OF PIPE
1	LIGHTING OUTLET	7					1		700	3.04	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
2	LIGHTING OUTLET	6			4				600	2.61	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
3	LIGHTING OUTLET	11			2	2		3	1100	4.78	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
4	LIGHTING OUTLET	12			4	1			1200	5.22	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
5	CONVENIENCE OUTLET		2						720	3.13	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
6	CONVENIENCE OUTLET		3						1080	4.70	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
7	CONVENIENCE OUTLET		10						3600	15.65	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
8	CONVENIENCE OUTLET		3						1080	4.70	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
9	CONVENIENCE OUTLET		2						720	3.13	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
10	CONVENIENCE OUTLET		3						1080	4.70	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
11	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
12	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
13	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
14	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
15	3 TR FLOOR MOUNTED SPLIT TYPE ACU			1					4180	18.17	230	50	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
16	2.5HP WALL MOUNTED SPLIT TYPE ACU			1					2310	10.04	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
17	2.5HP WALL MOUNTED SPLIT TYPE ACU			1					2310	10.04	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
18	2.5HP WALL MOUNTED SPLIT TYPE ACU			1					2310	10.04	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
19	SPARE								500		230	30	50	22	2	-	-	-	-
20	SPARE								500		230	20	50	22	2	-	-	-	-
	TOTAL	36	23	8	10	3	1	3	40710	172.65	230								

TYPE OF SERVICE: 230V, 60 HZ, 2-WIRE, 1Ø ENCLOSURE: NEMA 1R MOUNTING: WALL MOUNT LOCATION: FOURTH FLOOR

TOTAL CAPACITY: 125% x (TOTAL POWER / VOLTAGE) = 125% x (40710 VA / 230 V) = 221.25 A

FEEDER WIRE SIZE: 2 - 100 mm² THHN/THWN-2 Cu. WIRE + 1 - 30 mm² THHN/THWN-2 Cu. WIRE (G) in 65 mmØ RSC PIPE

MAIN CIRCUIT BREAKER: 225 AT / 250 AF / 42 kAIC / 2P MCCB

NOTES:
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1 / E5 SCHEDULE OF LOADS

SCALE NTS

ENGR. JAIME ASILO PACO
Electrical Engineer
10/18/23

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24/7 Public Service
PHP QMS 21 93 0047

TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI	10/06/22	SHEET CONTENTS:	DATE: 08/31/2023
CHECKED BY: ENGR. R. CAPITLE	10/6/22	SCHEDULE OF LOADS	SHEET NO.
RECOMMENDED BY: ENGR. R. CARTAGO	10/10/22		E-5
APPROVED BY: MR. E. A. AGUILAR, JR.		REVISION NO.	

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PANELBOARD 5 (PB-5)		SCHEDULE OF LOADS																		
CIRCUIT NO.	LOAD DESCRIPTION	NO. OF OUTLETS			NO. OF SWITCHES				POWER, VA	FULL LOAD CURRENT, A	VOLTAGE, V	CIRCUIT BREAKER (BOLT-ON TYPE)				SIZE OF COPPER WIRE		CONDUIT	
		L.O.	C.O.	OTHER	S1	S2	S3	3WS				AT	AF	kAIC	POLE	CONDUCTOR	GROUNDING	Ø SIZE, mm	TYPE OF PIPE
1	LIGHTING OUTLET	22			2	1	1		2200	9.57	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
2	LIGHTING OUTLET	22				3	1		2200	9.57	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
3	LIGHTING OUTLET	20				3	1		2000	8.70	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
4	LIGHTING OUTLET	4			2				400	1.74	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
5	LIGHTING OUTLET	8				1			800	3.48	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
6	LIGHTING OUTLET	2			1				200	0.87	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	-	20	PVC
7	CONVENIENCE OUTLET		3						1080	4.70	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
8	CONVENIENCE OUTLET		6						2160	9.39	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
9	CONVENIENCE OUTLET		5						1800	7.83	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
10	CONVENIENCE OUTLET		5						1800	7.83	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
11	CONVENIENCE OUTLET		4						1440	6.26	230	30	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
12	FDAS			1					500	2.17	230	20	50	22	2	2 - 3.5 mm² THHN/THWN-2	1 - 3.5 mm² THHN/THWN-2	20	PVC
13	3 HP WALL MOUNTED SPLIT TYPE ACU			1					3075	13.37	230	40	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
14	3 HP WALL MOUNTED SPLIT TYPE ACU			1					3075	13.37	230	40	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
15	4 HP WALL MOUNTED SPLIT TYPE ACU			1					4100	17.83	230	40	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
16	4 HP WALL MOUNTED SPLIT TYPE ACU			1					4100	17.83	230	40	50	22	2	2 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	25	PVC
17	SPARE								500		230	30	50	22	2	-	-	-	-
18	SPARE								500		230	20	50	22	2	-	-	-	-
	TOTAL	78	23	5	5	8	3	0	31930	138.48	230								

TYPE OF SERVICE: 230 V, 60 HZ, 2-WIRE, 1Φ ENCLOSURE: NEMA 1R MOUNTING: WALL MOUNT LOCATION: FIFTH FLOOR

TOTAL CAPACITY: 125% x (TOTAL POWER / VOLTAGE) = 125% x (31930 VA / 230 V) = 173.53 A

FEEDER WIRE SIZE: 2 - 60 mm² THHN/THWN-2 Cu. WIRE + 1 - 22 mm² THHN/THWN-2 Cu. WIRE (G) in 50 mmØ RSC PIPE

MAIN CIRCUIT BREAKER: 175 AT / 200 AF / 42 kAIC / 2P MCCB

MAIN DISTRIBUTION PANEL (MDP)		SCHEDULE OF LOADS																	
CIRCUIT NO.	LOAD DESCRIPTION	FULL LOAD CURRENT, A				POWER, VA	VOLTAGE, V	CIRCUIT BREAKER (BOLT-ON TYPE)				SIZE OF COPPER WIRE		CONDUIT	
		ΦAB	ΦBC	ΦCA	3Φ			AT	AF	kAIC	POLE	CONDUCTOR	GROUNDING	Ø SIZE, mm	TYPE OF PIPE
1	PB-1A	75.01				30880	230	175	250	42	2	2 - 60 mm² THHN/THWN-2	1 - 22 mm² THHN/THWN-2	50	RSC
2	PB-1B	77.37				31320	230	175	250	42	2	2 - 60 mm² THHN/THWN-2	1 - 22 mm² THHN/THWN-2	50	RSC
3	PB-2A		95.82			39170	230	225	250	42	2	2 - 100 mm² THHN/THWN-2	1 - 30 mm² THHN/THWN-2	65	RSC
4	PB-2B		71.09			28820	230	175	250	42	2	2 - 60 mm² THHN/THWN-2	1 - 22 mm² THHN/THWN-2	50	RSC
5	PB-3			76.76		31580	230	175	250	42	2	2 - 60 mm² THHN/THWN-2	1 - 22 mm² THHN/THWN-2	50	RSC
6	PB-4			99.68		40710	230	225	250	42	2	2 - 100 mm² THHN/THWN-2	1 - 30 mm² THHN/THWN-2	65	RSC
7	PB-5	46.59				31930	230	175	250	42	2	2 - 60 mm² THHN/THWN-2	1 - 22 mm² THHN/THWN-2	50	RSC
8	SPARE		-			5000	230	125	250	42	2	-	-	-	-
9	ELEVATOR				24.00	9561	230	40	100	22	3	3 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	20	RSC
10	5 TR FLOOR MOUNTED SPLIT TYPE ACU				13.48	5370	230	40	100	22	3	3 - 5.5 mm² THHN/THWN-2	1 - 5.5 mm² THHN/THWN-2	20	RSC
	TOTAL	198.96	166.91	176.45	37.48	254341	230								

TYPE OF SERVICE: 230 V, 60 HZ, 3-WIRE, 3Φ ENCLOSURE: NEMA 1 MOUNTING: WALL MOUNT LOCATION: ELECTRICAL ROOM

TOTAL CAPACITY: (125% x HIGHEST MOTOR LOAD) + (1.732 x 1Φ LOADS) + (TOTAL 3Φ LOADS) = (0.25 x 24 A) + (1.732 x 198.96 A) + (37.48 A) = 388.08 A

FEEDER WIRE SIZE: 3 - 250 mm² THHN/THWN-2 Cu. WIRE + 1 - 50 mm² THHN/THWN-2 Cu. WIRE (G) in 90 mmØ RSC PIPE

or 2 sets of 3 - 80 mm² THHN/THWN-2 Cu. WIRE + 1 - 22 mm² THHN/THWN-2 Cu. WIRE (G) in 50 mmØ RSC PIPE

MAIN CIRCUIT BREAKER: 400 AT / 450 AF / 65 kAIC / 3P MCCB

TOTAL SYSTEM POWER: (1.732 x 388.08 A x 230 V) / 1000 = 154.6 kVA

NOTES:
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1 / E6 SCHEDULE OF LOADS

SCALE NTS

10/18/23
ENGR. JAIME ASILO PACO
Electrical Engineer

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TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI 10/6/23	SHEET CONTENTS:	DATE: 08/31/2023	
CHECKED BY: ENGR. R. CAPITLE 10/6/23	SCHEDULE OF LOADS	SHEET NO.	
RECOMMENDED BY: ENGR. R. CARTAGO 10/6/23		E-6	
APPROVED BY: MR. E. A. AGUILAR JR.	REVISION NO.		

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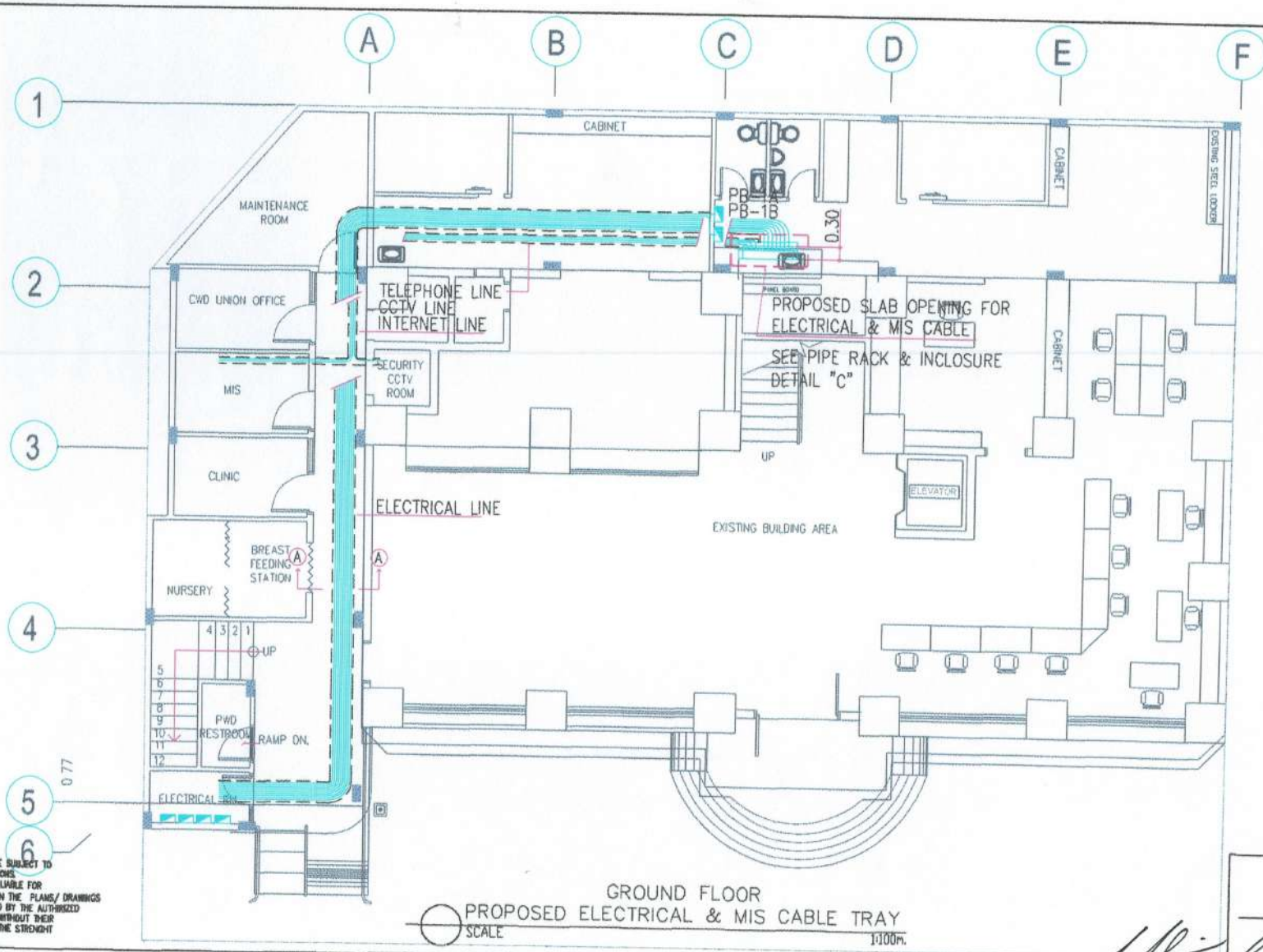

GROUND FLOOR
PROPOSED ELECTRICAL & MIS CABLE TRAY
SCALE 1:100m.

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10/18/23
ENGR. JAIME ASILO PACO
Electrical Engineer

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TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI 11/04/23	SHEET CONTENTS:	DATE: 09/15/2023	
CHECKED BY: ENGR. R. CAPITLE 11/6/23	AS SHOWN	SHEET NO.	
RECOMMENDED BY: ENGR. R. CARTAGO		E-7	
APPROVED BY: MR. E. A. AGUILAR, JR.	REVISION NO.		

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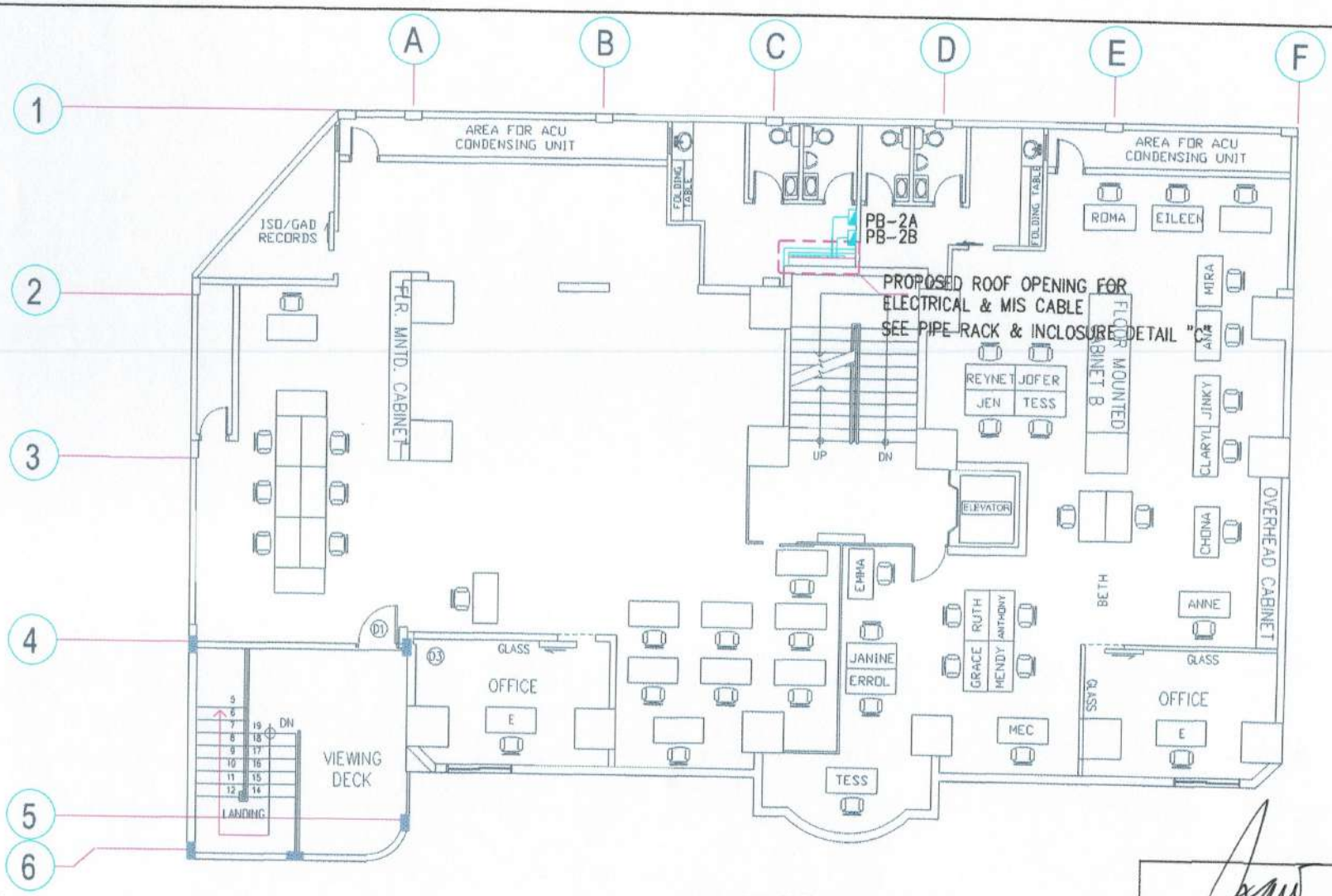

NOTES:
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SECOND FLOOR
PROPOSED ELECTRICAL & MIS CABLE TRAY
SCALE 1:100m

10/18/23
ENGR. JAIME ASILO PACO
Electrical Engineer

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TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

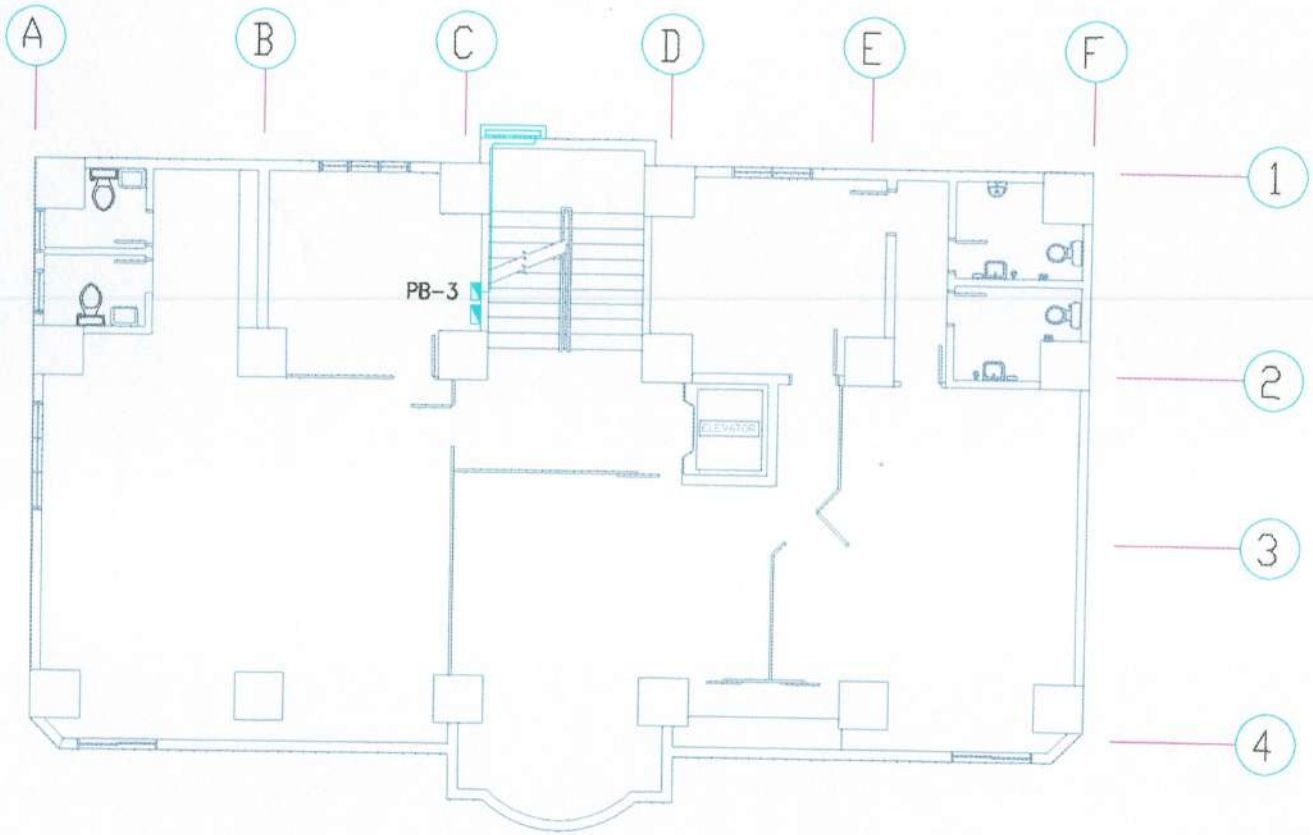
LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARTORI		SHEET CONTENTS:	DATE: 09/15/2023
CHECKED BY: ENGR. R. CAPITLE		AS SHOWN	SHEET NO.
RECOMMENDED BY: ENGR. R. CARTAGO			E-8
APPROVED BY: MR. E. A. AGUILAR, JR.		REVISION NO.	

DOC. REF. NO. CWD-QF-TS-EMD-004

Revision No.: 01

EFFECTIVITY DATE: May 17, 2022



THIRD FLOOR
PROPOSED ELECTRICAL & MIS CABLE TRAY
SCALE 1:100m.

NOTES:
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2. THE DESIGNER SHALL NOT BE LIABLE FOR ANY ALTERATION/ REVISION ON THE PLANS/ DRAWINGS AND SPECIFICATIONS IMPROVED BY THE AUTHORIZED SUPERVISING ENGINEER DONE WITHOUT THEIR KNOWLEDGE THAT MAY IMPIR THE STRENGHT OF THE PROJECT.

ENGR. JAIME ASILO PACO
Electrical Engineer
10/18/23

Calamba Water District Lakeview Subdivision, Halang, Calamba, Laguna Tel. Nos. 545-1614; 245-2086; 245-3180/3182 Tel./Fax: (049) 545-2863 24/7 Public Service PHP QMS 21 93 0047	PROJECT TITLE: SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM	DRAWN & DESIGNED BY: ENGR. N. MARFORI 10/26/23 CHECKED BY: ENGR. R. CAPITLE 10/26/23 RECOMMENDED BY: ENGR. R. CARTAGO 10/26/23 APPROVED BY: MR. E. A. AGUILAR, JR.	SHEET CONTENTS: AS SHOWN REVISION NO.	DATE: 09/15/2023 SHEET NO. E-9
TECHNICAL SERVICES DEPARTMENT ENGINEERING AND MAINTENANCE DIVISION	LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA			

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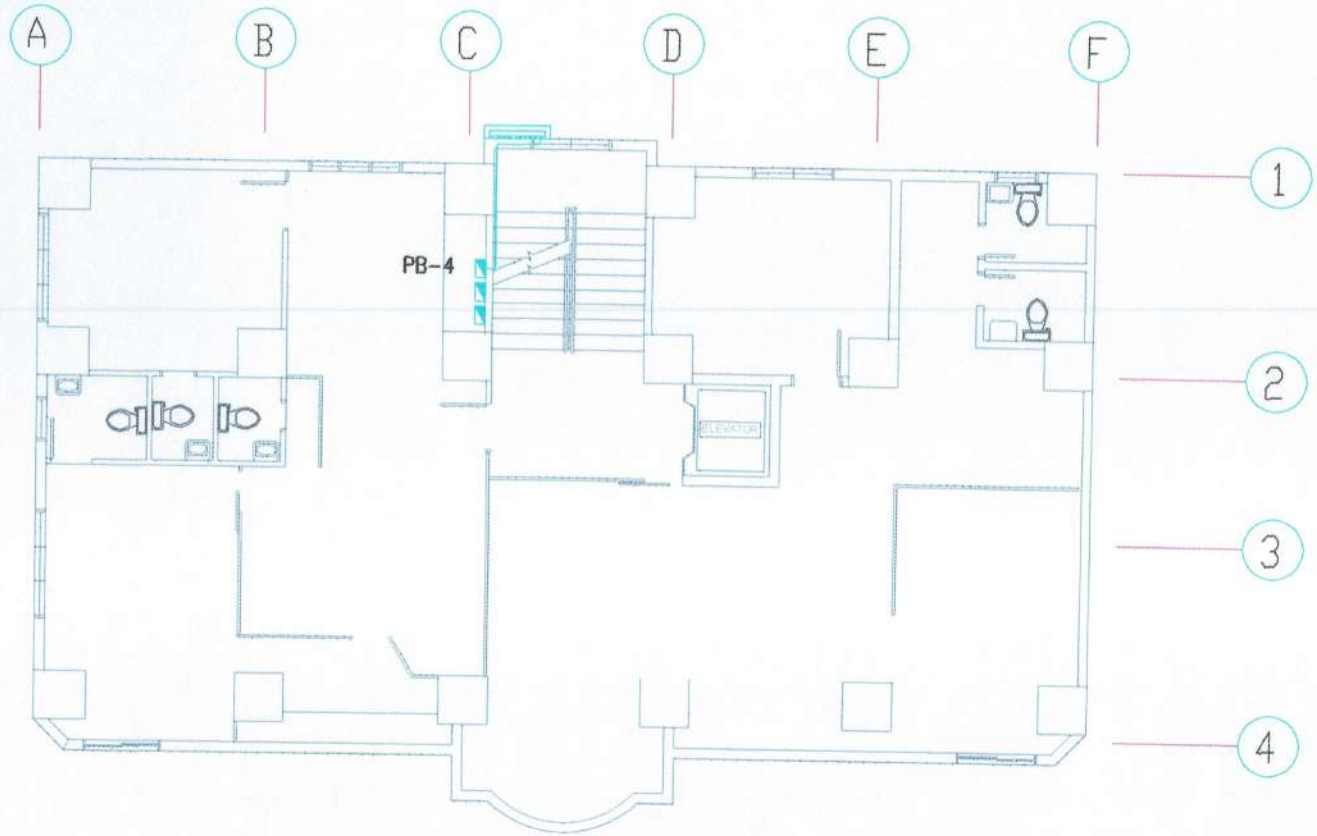

FOURTH FLOOR
PROPOSED ELECTRICAL & MIS CABLE TRAY
SCALE 1:100m.

NOTES:
1. ALL SIZES AND LOCATIONS ARE SUBJECT TO CHANGE TO SUIT FIELD CONDITIONS.
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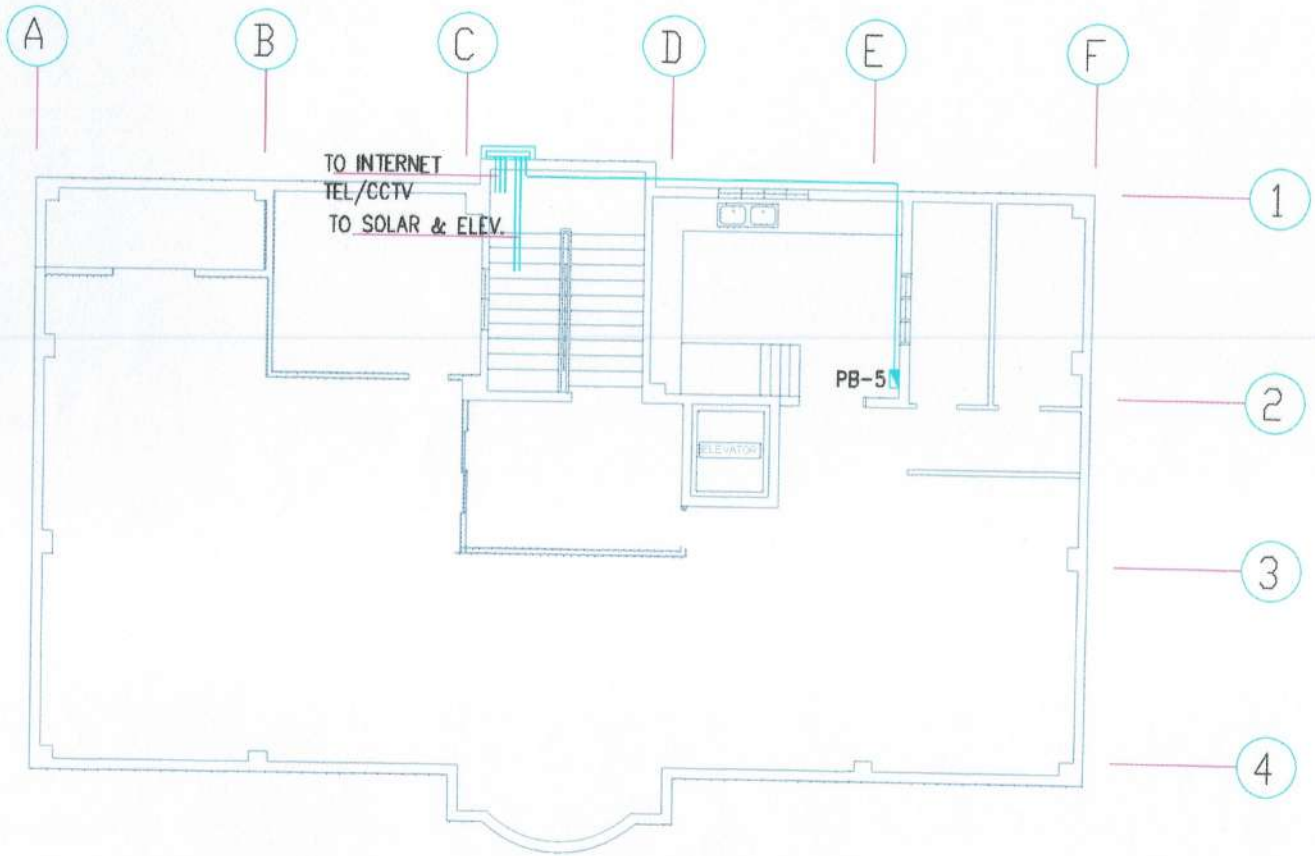
Calamba Water District Lakeview Subdivision, Halang, Calamba, Laguna Tel. Nos. 545-1614; 245-2086; 245-3180/3182 Tel./Fax: (049) 545-2863 PHP QMS 21 93 0047 24/7 Public Service	PROJECT TITLE: SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM	DRAWN & DESIGNED BY: ENGR. N. MAREORI 10/6/23 CHECKED BY: ENGR. R. CAPITLE 10/6/23 RECOMMENDED BY: ENGR. R. CARTAGO 10/6/23 APPROVED BY: MR. E. A. AGUILAR, JR.	ENGR. JAIME ASILO PACO 10/18/23 Electrical Engineer SHEET CONTENTS: AS SHOWN DATE: 09/15/2023 SHEET NO. E-10 REVISION NO.
TECHNICAL SERVICES DEPARTMENT ENGINEERING AND MAINTENANCE DIVISION	LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA		

DOC. REF. NO. CWD-QF-TS-EMD-004

Revision No.: 01

EFFECTIVITY DATE: May 17, 2022



FIFTH FLOOR
PROPOSED ELECTRICAL & MIS CABLE TRAY
SCALE 1:100m.

NOTES:
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ENGR. JAIME ASILO PACO 10/18/23
Electrical Engineer

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24/7 Public Service
PHP QMS 21 93 0047

TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

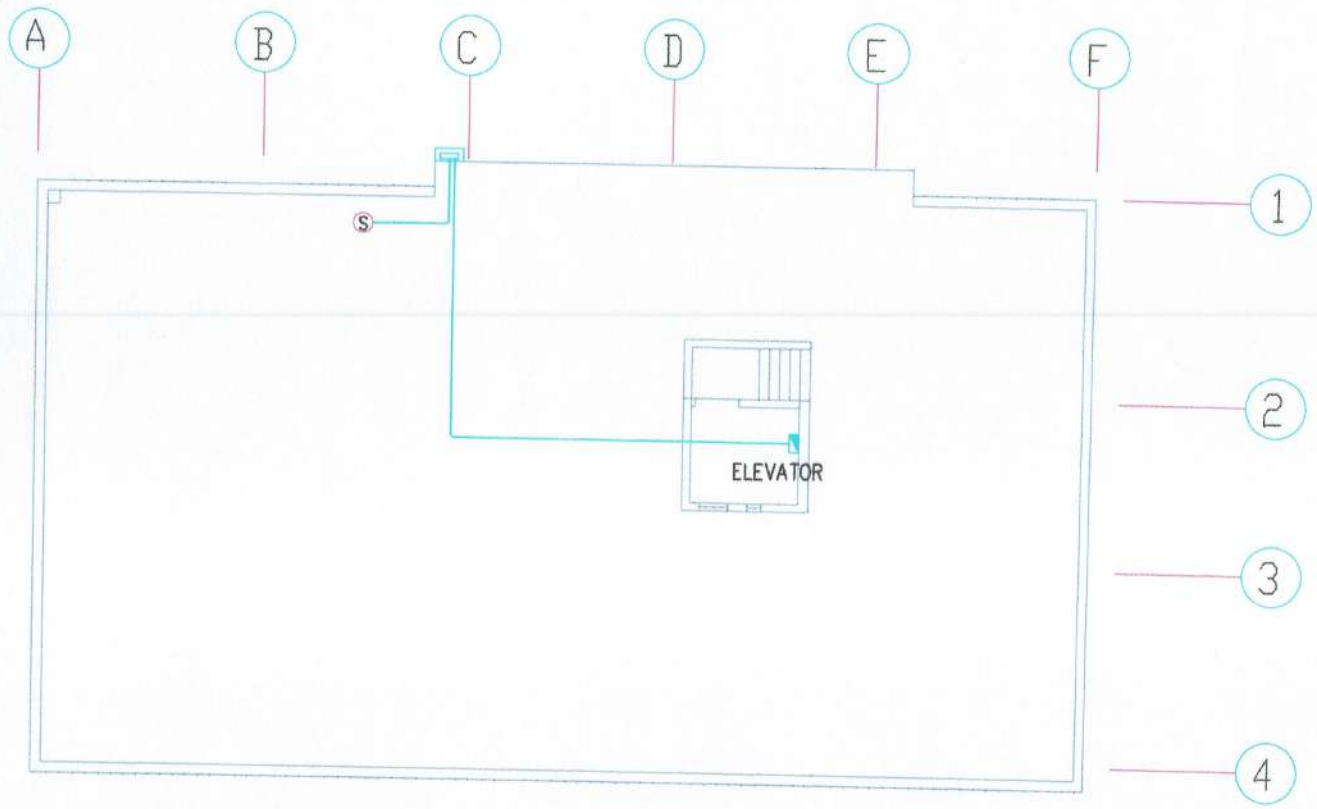
LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARPORI 10/06/23	SHEET CONTENTS:	DATE: 09/15/2023	
CHECKED BY: ENGR. R. CAPUCE 10/6/23	AS SHOWN	SHEET NO.	
RECOMMENDED BY: ENGR. R. CARTAGO 10/06/23		E-11	
APPROVED BY: MR. E. A. AGUILAR JR.	REVISION NO.		

DOC. REF. NO. CWD-QF-TS-EMD-004

Revision No.: 01

EFFECTIVITY DATE: May 17, 2022



ELEVATOR ROOM
PROPOSED ELECTRICAL & MIS CABLE TRAY
SCALE 1:100m.

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PHP QMS 21 93 0047

TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI	10/04/23
CHECKED BY: ENGR. R. CAPITLE	10/6/23
RECOMMENDED BY: ENGR. R. CARTAGO	10/10/23
APPROVED BY: MR. E. A. AGUILAR, JR.	

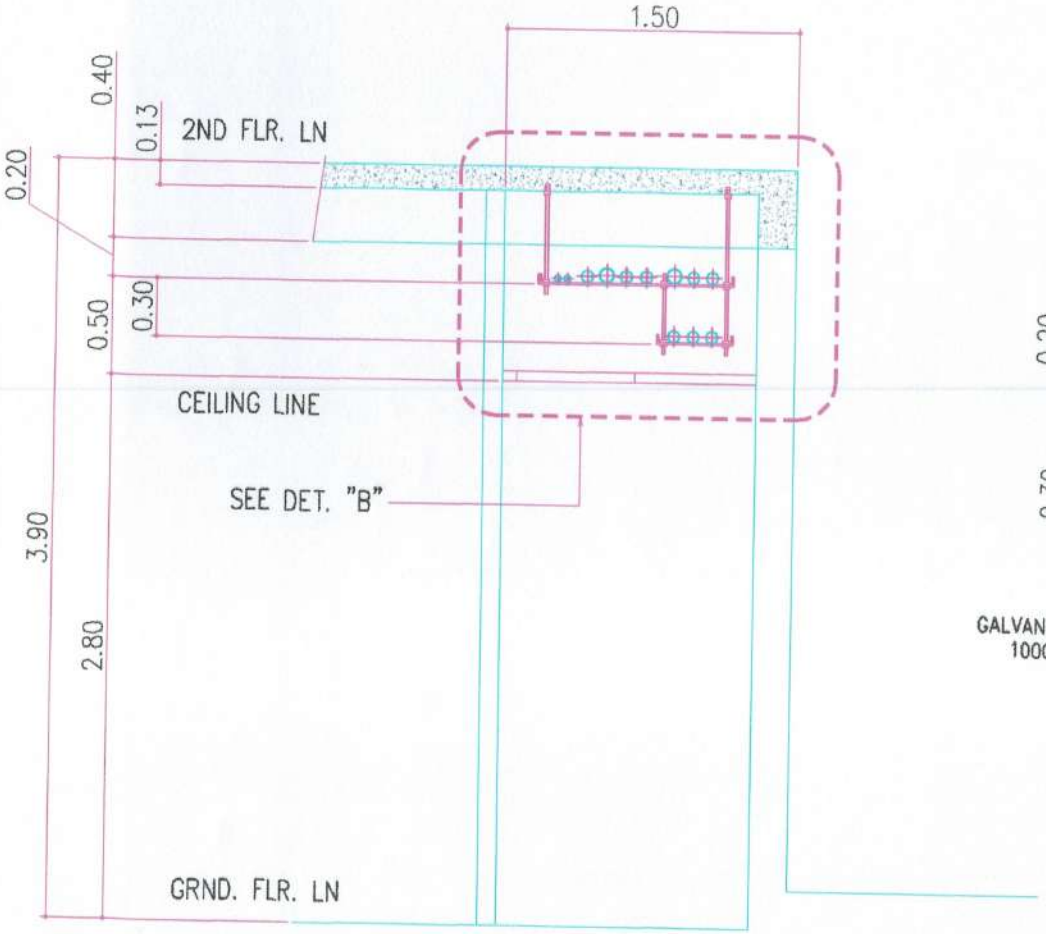
10/18/23
ENGR. JAIME ASILO PADO
Electrical Engineer

SHEET CONTENTS: AS SHOWN	DATE: 09/15/2023
REVISION NO.	SHEET NO. E-12

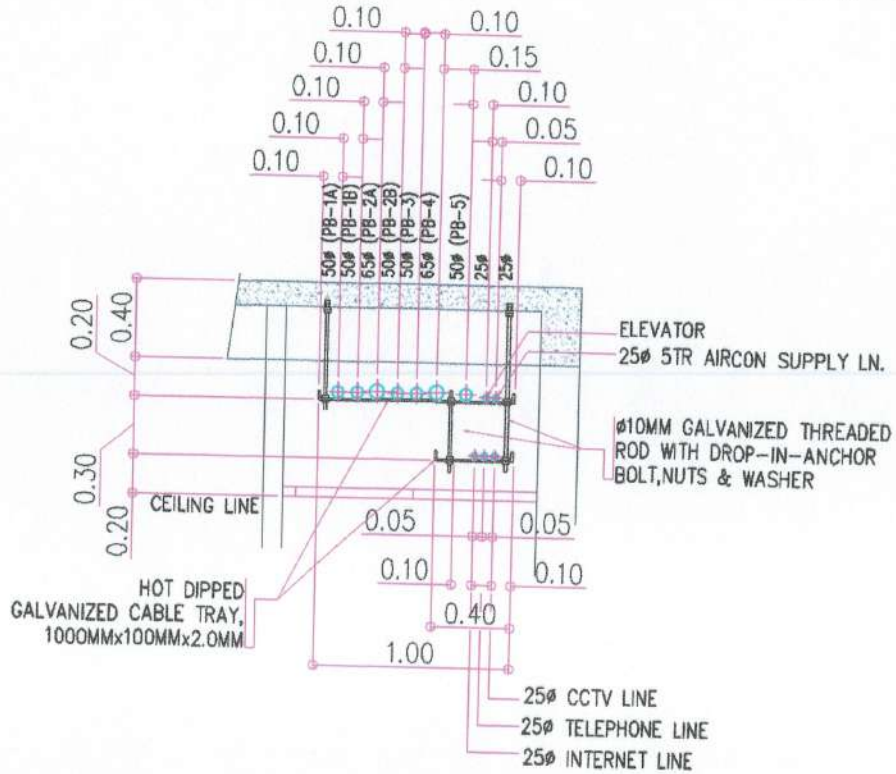
DOC. REF. NO. CWD-QF-TS-EMD-004

Revision No.: 01

EFFECTIVITY DATE: May 17, 2022



SECTION "A"~"A"
SCALE: NTS



DETAIL "B"
SCALE: NTS

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PHP QMS 21 93 0047
TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
SUPPLY OF LABOR AND MATERIALS FOR THE REHABILITATION OF CWD BUILDING ELECTRICAL LOAD SCHEDULE WITH SINGLE LINE DIAGRAM

LOCATION: LAKEVIEW SUBD., HALANG,, CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI 10/6/23
CHECKED BY: ENGR. R. CAPITLE 10/6/23
RECOMMENDED BY: ENGR. R. CARTAGO 10/06/23
APPROVED BY: MR. E. A. AGUILAR, JR.

ENGR. JAIME ASILO PACO 10/18/23
Electrical Engineer

SHEET CONTENTS:	DATE: 09/15/2023
AS SHOWN	SHEET NO.
REVISION NO.	E-13

DOC. REF. NO. CWD-QF-TS-EMD-004

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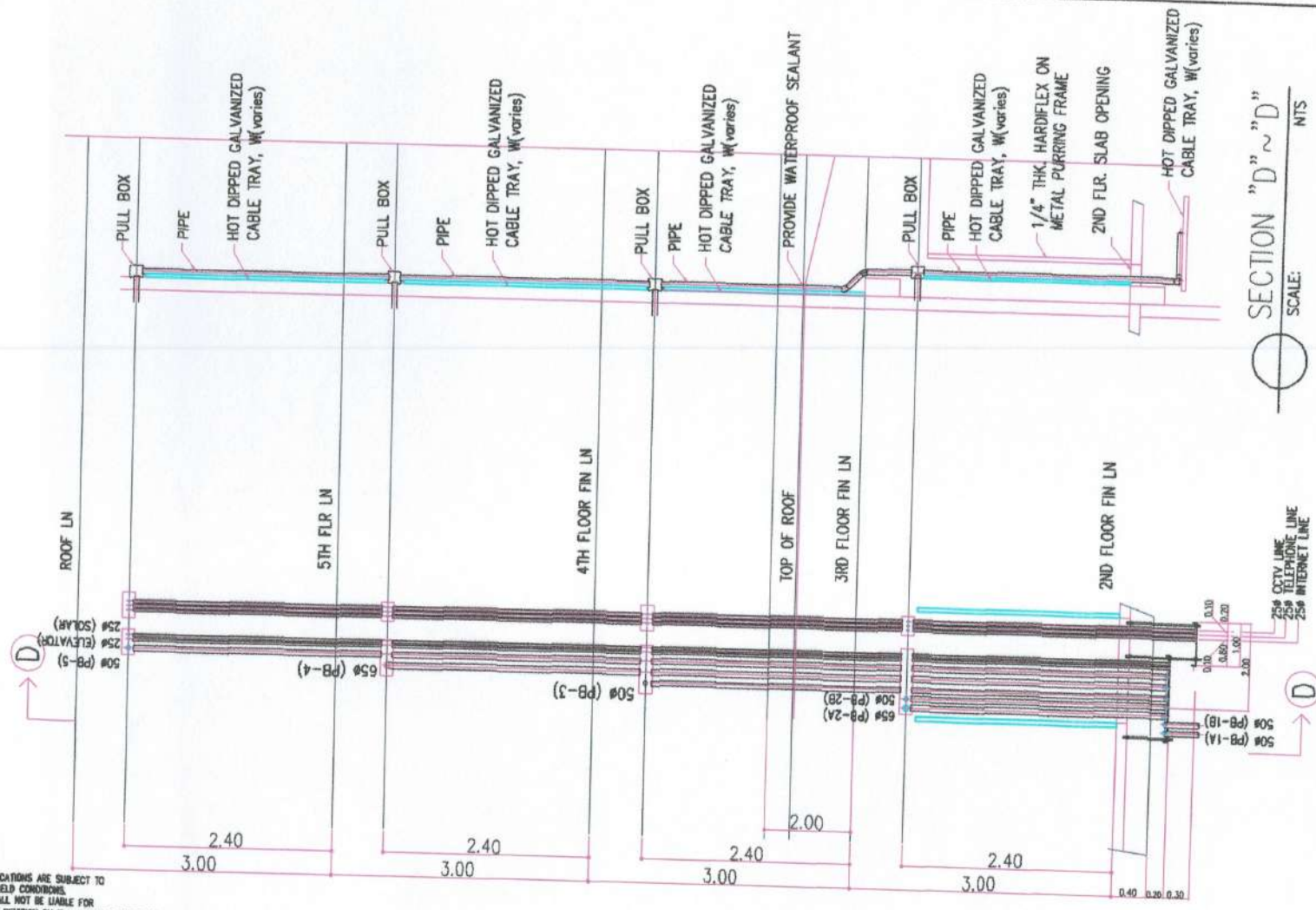

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TECHNICAL SERVICES DEPARTMENT
ENGINEERING AND MAINTENANCE DIVISION

PROJECT TITLE:
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LOCATION: LAKEVIEW SUBD., HALANG., CALAMBA, LAGUNA

DRAWN & DESIGNED BY: ENGR. N. MARFORI	10/06/23
CHECKED BY: ENGR. R. CAPITELO	10/06/23
RECOMMENDED BY: ENGR. R. CARTAGO	10/10/23
APPROVED BY: MR. E. A. AGUILAR, JR.	

10/18/23
ENGR. JAIME ASILO PACO
Electrical Engineer

SHEET CONTENTS: AS SHOWN	DATE: 09/15/2023
	SHEET NO.
REVISION NO.	E-14

DOC. REF. NO. CWD-QF-TS-EMD-004

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