LOADING SCHEDULE AND COMPUTATION

PANEL "LP1"

MAIN : 2-70AT 100AF 3P 3Ø 4-WIRE 230V

FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	PHASE LOADING				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØCA	ØBC	3Ø	TRIP	FRAME	POLE	WIRE	CONDUIT
1	LIGHTINGS	2.61	2.61				30	50	2	2#3.5mm2 THHN	20mmØ PVC
2	LIGHTINGS	8.91	8.91				30	50	2	2#3.5mm2 THHN	20mmØ PVC
3	LIGHTINGS	3.91		3.91			30	50	2	2#3.5mm2 THHN	20mmØ PVC
4	CONVENIENCE OUTLET	6.26		6.26			30	50	2	3#3.5mm2 THHN	20mmØ PVC
5	CONVENIENCE OUTLET	4.70			4.70		30	50	2	3#3.5mm2 THHN	20mmØ PVC
6	CONVENIENCE OUTLET	3.91			3.91		30	50	2	3#3.5mm2 THHN	20mmØ PVC
7	CISTERN PUMP 2HP	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
8	SPARE	—	—				30	50	2	—	—
9	BOOSTER PUMP 2HP	12.00		12.00			20	50	2	3#5.5mm2 THHN	20mmØ PVC
10	SPARE	—		—			20	50	2	—	—
11	SPARE	—			—		20	50	2	—	—
12	SPARE	—			—		20	50	2	—	—
	TOTAL		23.52	22.17	8.61						

ILP1 = 23.52 (1.732) + 0.25 (12)
= 43.74 AMPERES

USE : 3# 14mm2 THHN
1# 8.0mm2 THHN
IN 32mmØ PVC

PANEL "LP2"

MAIN : 2-70AT 100AF 3P 3Ø 4-WIRE 230V

FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	PHASE LOADING				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØCA	ØBC	3Ø	TRIP	FRAME	POLE	WIRE	CONDUIT
1	LIGHTINGS	7.17	7.17				20	50	2	2#3.5mm2 THHN	20mmØ PVC
2	LIGHTINGS	6.52	6.52				20	50	2	2#3.5mm2 THHN	20mmØ PVC
3	LIGHTINGS	6.09		6.09			20	50	2	2#3.5mm2 THHN	20mmØ PVC
4	EMERGENCY/ EXIT LIGHTS	6.13		6.13			20	50	2	2#3.5mm2 THHN	20mmØ PVC
5	CONVENIENCE OUTLET	6.26			6.26		20	50	2	2#3.5mm2 THHN	20mmØ PVC
6	CONVENIENCE OUTLET	7.83			7.83		20	50	2	2#3.5mm2 THHN	20mmØ PVC
7	CONVENIENCE OUTLET	4.70	4.70				20	50	2	2#3.5mm2 THHN	20mmØ PVC
8	CONVENIENCE OUTLET	10.17	10.17				20	50	2	2#3.5mm2 THHN	20mmØ PVC
9	CONVENIENCE OUTLET	6.26		6.26			20	50	2	2#3.5mm2 THHN	20mmØ PVC
10	SPARE	—		—			20	50	2	—	—
11	SPARE	—			—		20	50	2	—	—
12	CCTV	2.17			2.17		20	50	2	2#3.5mm2 THHN	20mmØ PVC
13	FDAS	2.17	2.17				20	50	3	2#3.5mm2 THHN	20mmØ PVC
14	SPARE	—	—				20	50	3	—	—
	TOTAL		30.73	18.48	20.17						

ILP2 = 30.73 (1.732)
= 52.25 AMPERES

USE : 3# 14mm2 THHN
1# 5.5mm2 THHN
IN 32mmØ PVC

PANEL "LP3"

MAIN : 2- 70AT 100AF 3P 3Ø 4-WIRE 230V

FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	PHASE LOADING				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØCA	ØBC	3Ø	TRIP	FRAME	POLE	WIRE	CONDUIT
1	LIGHTINGS	6.89	6.89				20	50	2	2#3.5mm2 THHN	20mmØ PVC
2	LIGHTINGS	6.96	6.96				20	50	2	2#3.5mm2 THHN	20mmØ PVC
3	LIGHTINGS	4.78		4.78			20	50	2	2#3.5mm2 THHN	20mmØ PVC
4	LIGHTINGS	2.83		2.83			20	50	2	3#3.5mm2 THHN	20mmØ PVC
5	CONVENIENCE OUTLET	6.26			6.26		20	50	2	3#3.5mm2 THHN	20mmØ PVC
6	CONVENIENCE OUTLET	6.26			6.26		20	50	2	3#3.5mm2 THHN	20mmØ PVC
7	SIGNAGE	4.35	4.35				20	50	2	3#3.5mm2 THHN	20mmØ PVC
8	SPARE	—	—				20	50	2	—	—
9	SPARE	—		—			20	50	2	—	—
10	SPARE	—		—			20	50	2	—	—
11	SPARE	—			—		20	50	2	—	—
12	SPARE	—			—		20	50	2	—	—
13	SPARE	—	—				20	50	2	—	—
14	SPARE	—	—				20	50	2	—	—
15	SPARE	—		—			20	50	2	—	—
16	SPARE	—		—			20	50	2	—	—
	TOTAL		17.40	7.61	12.52						

ILP3 = 17.40 (1.732)
= 30.14 AMPERES

USE : 3# 14mm2 THHN
1# 8.0mm2 THHN
IN 25mmØ PVC

PANEL "PP2"

MAIN : 150-AT 225AF 3P 3Ø 4-WIRE 230V

FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	PHASE LOADING				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØCA	ØBC	3Ø	TRIP	FRAME	POLE	WIRE	CONDUIT
1	ACCU - 1	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
2	ACCU - 2	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
3	ACCU - 3	12.00		12.00			30	50	2	3#5.5mm2 THHN	20mmØ PVC
4	ACCU - 4	12.00		12.00			30	50	2	3#5.5mm2 THHN	20mmØ PVC
5	ACCU - 5	12.00			12.00		30	50	2	3#5.5mm2 THHN	20mmØ PVC
6	ACCU - 6	12.00			12.00		30	50	2	3#5.5mm2 THHN	20mmØ PVC
7	ACCU - 7	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
8	SPARE	—	—				30	50	2	—	—
9	SPARE	—		—			30	50	2	—	—
10	SPARE	—		—			30	50	2	—	—
11	SPARE	—			—		30	50	2	—	—
12	SPARE	—			—		30	50	2	—	—
13	SPARE	—					70	100	3	—	—
14	PANEL LP2						70	100	3	—	—
	TOTAL		36.00	24.00	24.00	52.25					

IPP2 = 36.00 (1.732) + 52.25 + 0.25 (12)
= 117.60 AMPERES

USE : 3# 50mm2 THHN
1# 14mm2 THHN
IN 50mmØ PVC

PANEL "PP3"

MAIN : 150AT 225AF 3P 3Ø 4-WIRE 230V

FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	PHASE LOADING				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØCA	ØBC	3Ø	TRIP	FRAME	POLE	WIRE	CONDUIT
1	ACCU -8	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
2	ACCU - 9	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
3	ACCU - 10	12.00		12.00			30	50	2	3#5.5mm2 THHN	20mmØ PVC
4	ACCU - 11	12.00		12.00			30	50	2	3#5.5mm2 THHN	20mmØ PVC
5	ACCU - 12	12.00			12.00		30	50	2	3#5.5mm2 THHN	20mmØ PVC
6	ACCU - 13	12.00			12.00		30	50	2	3#5.5mm2 THHN	20mmØ PVC
7	SPARE	—	—				30	50	2	—	—
8	SPARE	—	—				30	50	2	—	—
9	SPARE	—		—			30	50	2	—	—
10	SPARE	—		—			30	50	2	—	—
11	SPARE	—			—		30	50	2	—	—
12	SPARE	—			—		30	50	2	—	—
13	SPARE	—	—				70	100	3	—	—
14	PANEL LP3	—	—				70	100	3	—	—
	TOTAL		24.00	24.00	24.00	30.14					

ILP2 = 24.00 (1.732) + 30.14 + 0.25 (12)
= 74.71 AMPERES

USE : 3# 50mm2 THHN
1# 14mm2 THHN
IN 50mmØ PVC

PANEL "PP4"

MAIN : 150AT 225AF 3P 3Ø 4-WIRE 230V

FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	PHASE LOADING				CIRCUIT BREAKER			HOMERUN	
			ØAB	ØCA	ØBC	3Ø	TRIP	FRAME	POLE	WIRE	CONDUIT
1	ACCU -14	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
2	ACCU -15	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
3	ACCU -16	12.00		12.00			30	50	2	3#5.5mm2 THHN	20mmØ PVC
4	ACCU -17	12.00		12.00			30	50	2	3#5.5mm2 THHN	20mmØ PVC
5	ACCU -18	12.00			12.00		30	50	2	3#5.5mm2 THHN	20mmØ PVC
6	ACCU -19	12.00			12.00		30	50	2	3#5.5mm2 THHN	20mmØ PVC
7	ACCU -20	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
8	ACCU -21	12.00	12.00				30	50	2	3#5.5mm2 THHN	20mmØ PVC
9	LIGHTINGS	7.50		7.50			20	50	2	2#3.5mm2 THHN	20mmØ PVC
10	LIGHTINGS / EM LIGHTS	7.00		7.00			20	50	2	2#3.5mm2 THHN	20mmØ PVC
11	CONVENIENCE OUTLET	10.17			10.17		20	50	2	2#3.5mm2 THHN	20mmØ PVC
12	CONVENIENCE OUTLET	7.83			7.83		20	50	2	2#3.5mm2 THHN	20mmØ PVC
13	SPARE	—	—				50	50	3	—	—
14	SPARE	—	—				50	50	3	—	—
	TOTAL		48.00	38.50	42.00						

IPP4 = 48.00 (1.732) + 0.25 (12)
= 86.14 AMPERES

USE : 3# 50mm2 THHN
1# 14mm2 THHN
IN 50mmØ PVC

CONTRACTOR	CHECKED BY.	ENGINEER	PROJECT	OWNER	SHEET CONTENT	DESIGN BY.	SHEET NO.
		PROFESSIONAL ELECTRICAL ENGINEER	FASTEL OFFICE BUILDING		AS SHOWN	CADD BY. jstamayo	E-5
		PRC. NO. / PTR. NO.				DATE NOV. 2024	
		TIN. NO. / ISSUED ON	LOCATION 214 P. SANTOS ST., MALIBAY, PASAY CITY	ADDRESS		APPROVED BY.	