

LOAD SCHEDULE AND COMPUTATION

PANEL "LP"						MAIN : 100AT 100 AF 2P 1Ø 3-WIRE 230V		
FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	VOLTS	CIRCUIT BREAKER			HOMERUN	
				TRIP	FRAME	POLE	WIRE	CONDUIT
1	LIGHTING OUTLET	2.61	230	20	50	2	2#3.5mm2 THHN	15mmØ EMT
2	LIGHTING OUTLET	4.17	230	20	50	2	2#3.5mm2 THHN	15mmØ EMT
3	CONVENIENCE OUTLET	3.91	230	20	50	2	3#3.5mm2 THHN	15mmØ EMT
4	CONVENIENCE OUTLET	7.83	230	20	50	2	3#3.5mm2 THHN	15mmØ EMT
5	ACU	12.00	230	30	50	2	3#5.5mm2 THHN	15mmØ EMT
6	ACU	12.00	230	30	50	2	3#5.5mm2 THHN	15mmØ EMT
7	ACU	12.00	230	30	50	2	3#5.5mm2 THHN	15mmØ EMT
8	ACU	12.00	230	30	50	2	3#5.5mm2 THHN	15mmØ EMT
9	SPARE	—	230	30	50	2	—	—
10	SPARE	—	230	30	50	2	—	—
11	SPARE	—	230	20	50	2	—	—
12	SPARE	—	230	20	50	2	—	—
	TOTAL	66.52						
ILP = 66.52 + 0.25 ( 12 ) 69.52 AMPERES						USE : 2# 80mm2 THHN 1# 22mm2 Ø THHN IN 50mmØ IMC		

GENERAL NOTES

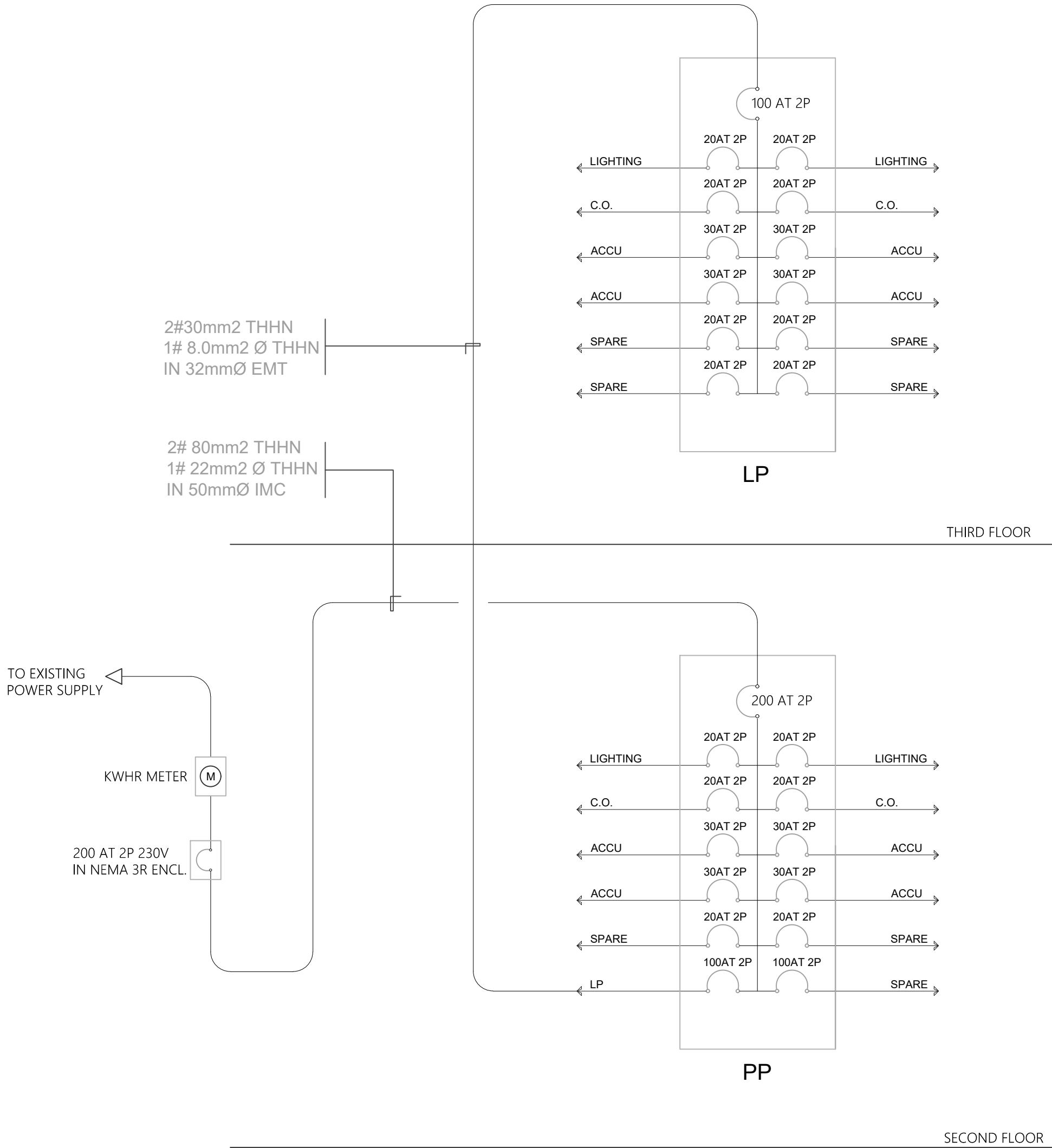
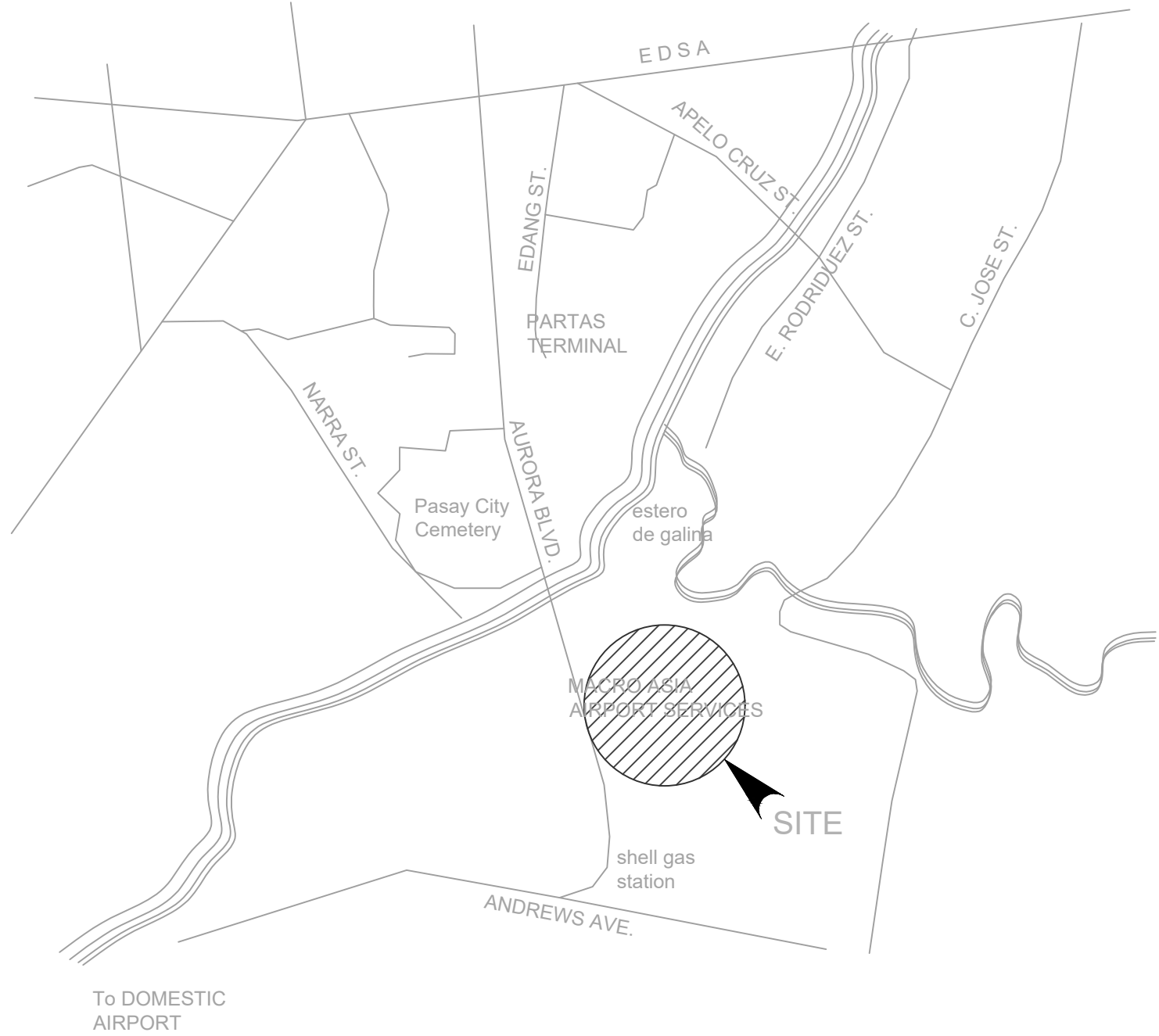
1. THE ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL AND POWER TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.
2. THE ELECTRIC SERVICE VOLTAGE SHALL BE SINGLE PHASE- 2 WIRE + GROUND 230 VOLTS.
3. THE ELECTRICAL INSTALLATION SHALL BE DONE IN IMC CONDUITS AND PVC CONDUITS, FLEXIBLE CONDUITS SHALL BE USED WHERE REQUIRED THE USED OF PVC CONDUITS SHALL BE LIMITED TO 15mm DIA. AND 20mm DIA. SIZE. THE MINIMUM SIZE FOR ALL CONDUITS SHALL BE IN 15mm DIA. ELECTRICAL TRADE SIZE , FOR STEEL CONDUITS PANASONIC AND ALLIED BRANDS OR APPROVED LOCAL EQUIVALENT SHALL BE USED, WHERE NON-METALLIC CONDUITS ARE ALLOWED TO BE USED, PVC CONDUITS SCHEDULE 48, ATLANTA AND EMERALD BRANDS OR APPROVED EQUIVALENT SHALL BE USED.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE FOR POWER SHALL BE 3.5mm2 AND FOR LIGHTING SHALL BE 2.0mm2. THE CONTROL WIRES SHALL BE 2.0mm2, ALL OTHER WIRES SHALL BE AS INDICATED OR AS SPECIFIED ELSEWHERE ON THE PLANS, PHELPS DODGE AND COLUMBIA BRANDS OR EQUIVALENT SHALL BE USED.
5. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY AND ALSO THE ACTUAL LOCATION OF THE TELEPHONE AND CABLE TV SYSTEM SERVICE ENTRANCE FOR CONNECTION TO THE TELEPHONE AND CABLE FACILITIES.
6. ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANEL BOARDS, LIGHTING FIXTURES AND ALL NON CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
7. ALL 20 AMPERE CIRCUIT HOMERUNS TO THE PANEL BOARDS MORE THAN 30 METERS IN LENGTH SHALL BE NO. 3.5mm2 UNLESS OTHERWISE SPECIFIED.
8. ALL FEEDERS AND BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE PLANS, BRANCH CIRCUIT HOMERUN WIRES SHALL BE INSTALLED IN INDIVIDUAL HOMERUN CONDUITS.
9. PULLBOX OR PULLBOXES OR MANHOLES OR HANDHOLES SHALL BE PROVIDED EVEN IF NOT INDICATED ON THE PLANS, IF THE FIELD CONDITION IS REQUIRED.
10. THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS

LIGHT SWITCHES1.40 METER ABOVE FLOOR FINISH  
CONVENIENCE OUTLET0.30 METER ABOVE FLOOR FINISH  
VOICE AND DATA TELEPHONE OUTLET0.30 METER ABOVE FLOOR FINISH  
PANEL BOARD AND CABINETS1.40 METER ABOVE FLOOR FINISH @ CENTER OR AS REQUIRED

ALL MOUNTING HEIGHTS SHALL BE SUBJECT FOR ARCHITECTS APPROVAL PRIOR TO INSTALLATION

LOAD SCHEDULE AND COMPUTATION

PANEL "PP"						MAIN : 200AT 225 AF 2P 1Ø 3-WIRE 230V		
FEEDER NO.	LOAD DESCRIPTION	AMP. PER CIRCUIT	VOLTS	CIRCUIT BREAKER			HOMERUN	
				TRIP	FRAME	POLE	WIRE	CONDUIT
1	LIGHTING OUTLET	5.17	230	20	50	2	2#3.5mm2 THHN	15mmØ EMT
2	LIGHTING OUTLET	3.13	230	20	50	2	2#3.5mm2 THHN	15mmØ EMT
3	CONVENIENCE OUTLET	7.04	230	20	50	2	3#3.5mm2 THHN	15mmØ EMT
4	CONVENIENCE OUTLET	12.52	230	20	50	2	3#3.5mm2 THHN	15mmØ EMT
5	ACCU 1	12.00	230	30	50	2	3#5.5mm2 THHN	15mmØ EMT
6	ACCU 2	12.00	230	30	50	2	3#5.5mm2 THHN	15mmØ EMT
7	ACCU 3	12.00	230	30	50	2	3#5.5mm2 THHN	15mmØ EMT
8	ACCU 4	12.00	230	30	50	2	3#5.5mm2 THHN	15mmØ EMT
9	SPARE	—		30	50	2	—	—
10	SPARE	—		30	50	2	—	—
11	SPARE	—		20	50	2	—	—
12	SPARE	—		20	50	2	—	—
13	PANEL LP	69.52		100	100	2	2# 50mm2 THHN 1# 8.0mm2 THHN	32mmØ EMT
14	SPARE	—		70	100	2	—	—
	TOTAL	145.38						
IPP = 145.38 + 0.25 ( 12 ) 148.38 AMPERES						USE : 2#30mm2 THHN 1# 8.0mm2 Ø THHN IN 32mmØ EMT		



LEGEND

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- PINLIGHT FIXTURES

2 X 18 WATTS FLUORESCENT LIGHTAIR CONDION OUTLETDUPLEX CONVENIENCE OUTLETPANEL BOARDAIR COOLED CONDENSING UNITTWO GANG SWITCHDATA OUTLETTELEPHONE OUTLETCLOSED CIRCUIT TELEVISION

CONTRACTOR	CHECKED BY.	SUBMITTED BY.	PROJECT	OWNER	SHEET CONTENT	DESIGN BY.	SHEET NO.
VOLTECH ELECTRICAL CONSTRUCTION		PROFESSIONAL ELECTRICAL ENGINEER	ELECTRICAL SYSTEM FIT OUT	MACRO ASIA AIRPORT SERVICES	AS SHOWN	CADD BY. jstamayo	E-2
		PRC. NO. PTR. NO. TIN. NO. ISSUED ON	LOCATION AURORA BOULEVARD, PASAY CITY	ADDRESS 3rd FLR. BLDG. A SKYFREIGHT CENTER, NINYO AQUINO AVENUE, BRGY. STO. NINO, PARANAQUE CITY		DATE MAY 2025	
						APPROVED BY.	