

SCHEDULE OF LOADS

CKT. NO	LOAD DESCRIPTION	No of Outlets		VOLT-AMPERE (VA)	VOLTAGE (V)	AMPERE (A)	PROTECTION-CB		CONDUCTORS AND CONDUIT
		LO	CO				AT	AF	
1	LIGHTING OUTLET	17		500	230	2.173913	15	50	2-2.0mm sq. THHN wire in 25mm dia PVC
2	LIGHTING OUTLET	13		253	230	1.1	15	50	2-2.0mm sq. THHN wire in 25mm dia PVC
3	LIGHTING OUTLET								2-2.0mm sq. THHN wire in 25mm dia PVC
4	LIGHTING OUTLET								2-2.0mm sq. THHN wire in 25mm dia PVC
5	CONVENIENCE OUTLET		7	1260	230	5.478261	20	50	2-3.5mm sq. THHN +1-3.5mm sq. TW wire in 25mm dia PVC
6	CONVENIENCE OUTLET		7	1260	230	5.478261	20	50	2-3.5mm sq. THHN +1-3.5mm sq. TW wire in 25mm dia PVC
7	CONVENIENCE OUTLET		4	720	230	3.130435	20	50	2-3.5mm sq. THHN +1-3.5mm sq. TW wire in 25mm dia PVC
8	CONVENIENCE OUTLET								2-3.5mm sq. THHN +1-3.5mm sq. TW wire in 25mm dia PVC
9	ACU OUTLET 3HP		1	2238	230	9.730435	30	50	2-5.5mm sq. THHN +1-3.5mm sq. TW wire in 25mm dia PVC
10	ACU OUTLET 3HP		1	2238	230	9.730435	30	50	2-5.5mm sq. THHN +1-3.5mm sq. TW wire in 25mm dia PVC
11	SPARE						30	50	
12	SPARE						20	50	
TOTAL				8469		36.82174			USE: 80AT/100AF MCB FOR FUTURE LOADS

SAMPLE LOAD COMPUTATION:

WITH 80% DEMAND FACTOR:

$$IT = (36.82174 \times DF) + (25\% \times HRM)$$

$$IT = (36.82174 \times 0.8) + (0.25 \times 9.730435)$$

$$IT = 31.889882 \text{ AMPERES}$$

SERVICE ENTRANCE CONDUCTORS

USE: 2-22mm sq. THWN/THHN Cu Wire

1-8.0 mm sq. THWN/THHN Cu Wire in 32mm dia. PVC conduit

LEGEND

○	DOWN LIGHT ROUND TYPE 7 WATTS
○-H	WALL MOUNTED LIGHT FITTING
◻	CEILING LIGHTS WITH CRYSTAL SURFACE
◻	DOWN LIGHT SQUARE TYPE 7 WATTS
⊞	EMERGENCY LIGHT
S1	SINGLE LIGHT SWITCH
Sab	TWO GANG LIGHT SWITCH
Sabc	THREE GANG LIGHT SWITCH
⊞ _{wp}	WEATHERPROOF OUTLET 2 GANG
—	STRIP LIGHT 24 WATTS/5METERS
⊞45A	FLEXIBLE CONNECTION OUTLET (45A)
⊞	13A TWO GANG SOCKET OUTLET
⊞	AIRCON OUTLET
⊞	45A COOKER CONTROL UNIT
⊞A	SPN ISOLATOR(A = CURRENT RATING)
⊞	5 AMP SPUR OUTLET
⊞	MCCB PANEL BOARD
⊞	DISTRIBUTION BOARD

ELECTRICAL 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 UNDER IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

2- THE ELECTRICAL SERVICE POWER IS 1- PHASE, 2- WIRE, 220V AC, SCH.

3- WIRING METHOD SHALL BE AS FOLLOWS:

- | | |
|--|--------------------------------------|
| a. FEEDERS AND RISERS | - INTERMEDIATE METALLIC CONDUIT |
| b. LIGHTING, POWER RECEPTACLE BRANCH CKT., & AUXILIARY | - POLYVINYL CHLORIDE CONDUIT SCH. 40 |

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 HEREON SHALL BE 3.5mm AND INSULATED FOR 300 VOLTS. SMALLEST RACEWAY SHALL BE 15mm TRADE / NOMINAL SIZE.

5- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE No. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.

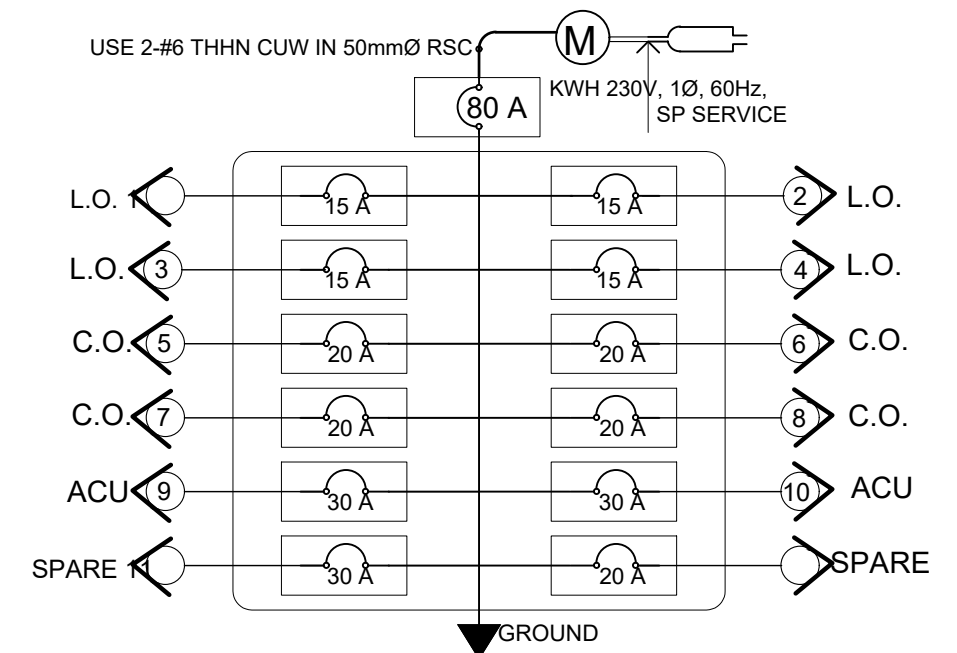
6- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.

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 LINE |
| b. CONVENIENCE OUTLET | - 0.30 M. ABOVE FINISH FLOOR LINE |
| c. PANELBOARD | - 1.50 M. ABOVE FINISH FLOOR LINE |
| d. FIRE ALARM STATION OUTLET | - 1.50 M. ABOVE FINISH FLOOR LINE |
| e. PUSH BUTTON OUTLET | - 1.20 M. ABOVE FINISH FLOOR LINE |
| f. FIRE ALARM & VIBRATING BELL | - 0.30 M. BELOW CEILING LINE |

RISER DIAGRAM



TIN : 382-717-370-000	Design & Seal	Project Title :	Checked by :	Noted by :	Approved by :	SHEET CONTENTS:	Designed by : ELVON	<table border="1"> <tr> <td>E3</td> <td>03</td> </tr> <tr> <td colspan="2">SHEET NO.</td> </tr> <tr> <td>15</td> <td>18</td> </tr> </table>	E3	03	SHEET NO.		15	18
E3	03													
SHEET NO.														
15	18													
PRC : 0068591	ERIC E. SAJULGA ELECTRICAL ENGINEER	"PROPOSED" (PHASE-02) RENOVATION OF COOPERATIVE BUILDING LOCATION: PANGASUGAN, VSU-MAIN, BAYBAY CITY	ENGR. MARCELO T. ABRERA, JR. HEAD, IPDMM	Dr. DANIEL LESLIE S. TAN VP OF ADMINISTRATIVE & FINANCE	Dr. EDGARDO E. TULIN VSU PRESIDENT	ELECTRICAL SPECS	CAD by : ELVON							
PTR : -						Date Started : Oct. 21								
Date : -						Date Finished : Dec. 21								
PL. ISS. : -						Revision : 2.10								