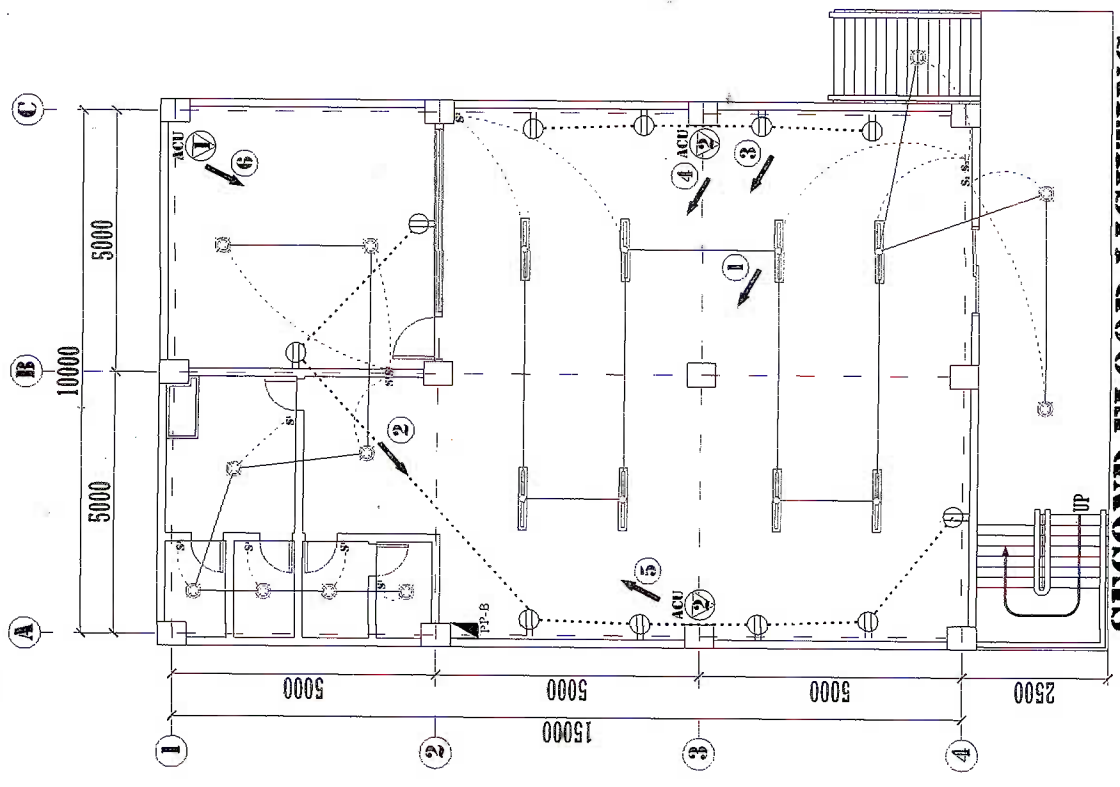


1 GROUND FLOOR LIGHTING & C. O. LAYOUT PLAN

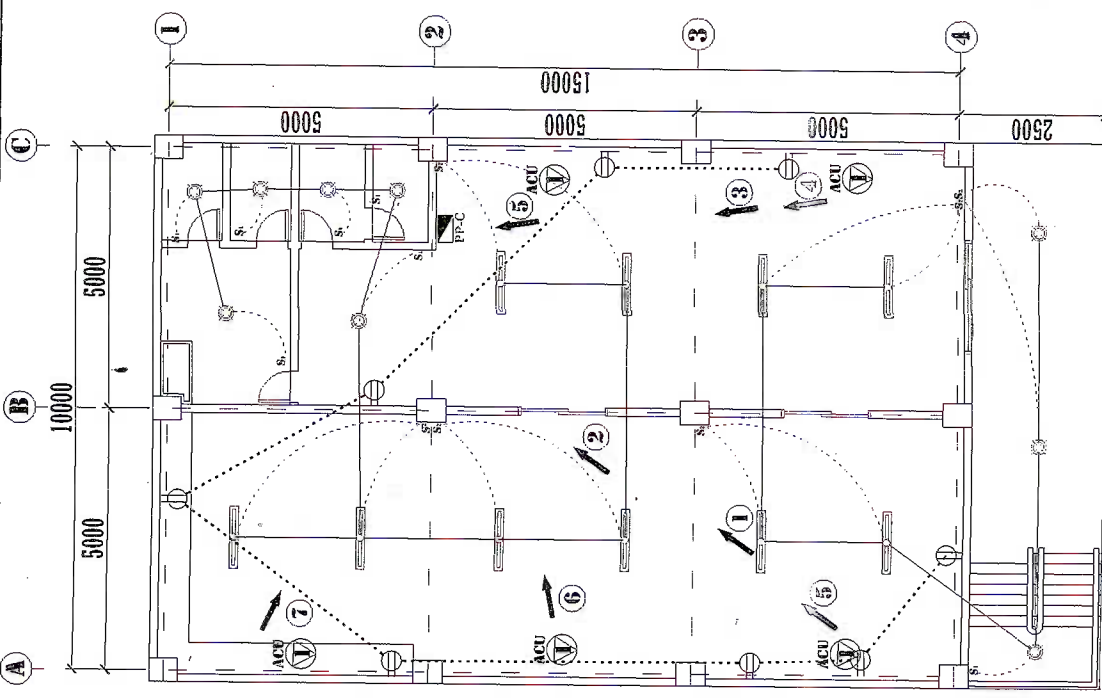
E-1 | E-1 SCALE
1:100



2 SECOND FLOOR LIGHTING & C. O. LAYOUT PLAN

E-1 | E-1 SCALE
1:100

PREPARED BY: ROMBON STATE UNIVERSITY OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT	ELECTRICAL ENGINEER ROLAND M. CRUZ PROF. ELFTSICAL ENGINEER # 2484 @ U.E.P. BALARITO PROGRESS NO. 25-210 ALIBATI, ILOILO RIZAL AVE. 7th FL. V. VALBUENA Pils. No. # 525542 Date: 1-3-2017 Pils. TIN:	CHECKED BY: APPROVED BY: ANITA DE LUNA RSY President	PROJECT TITLE: PROPOSED CONSTRUCTION OF RESEARCH BUILDING LOCATION: ROMBON STATE UNIVERSITY - Iwah Campus, Arandang, Olongapo, Romblon	SHEET CONTENT: AS SHOWN	PREPARED BY: CID OPERATOR: Mervin B. Toloni JOB NO.: DATE: JUNE 2017	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> E-1 </div>
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1 THIRD FLOOR LIGHTING & C.O. LAYOUT PLAN

E-2 E-2 SCALE 1:100

PP-A SCHEDULE OF LOADS

CIRCUIT NUMBER	LIGHT OUTLET	CONV. OUTLET	LOAD DESCRIPTION	POWER (VA)	VOLTAGE (VOLTS)	WIRE SIZE	CONDUIT SIZE	PROTECTION		AMPERES
								AT	AF	
1	12		12 L.O. @ 32VA EACH	384	230V	2.0mm ² THW	15mm \emptyset	15	100	1.66AMPS
2		8	8 C.O. @ 180VA EACH	1440	230V	3.5mm ² THW	15mm \emptyset	20	100	6.26AMPS
3			SPARE	180	230V	3.5mm ² THW	15mm \emptyset	30	100	0.78AMPS
4			SPARE	180	230V	3.5mm ² THW	15mm \emptyset	30	100	0.78AMPS
TOTAL				2184	230V					9.48MPS

PP-B SCHEDULE OF LOADS

CIRCUIT NUMBER	LIGHT OUTLET	CONV. OUTLET	LOAD DESCRIPTION	POWER (VA)	VOLTAGE (VOLTS)	WIRE SIZE	CONDUIT SIZE	PROTECTION		AMPERES
								AT	AF	
1	11		11 L.O. @ 32VA EACH	352	230V	2.0mm ² THW	15mm \emptyset	15	100	1.53AMPS
2	8		8 L.O. @ 32VA EACH	256	230V	2.0mm ² THW	15mm \emptyset	15	100	1.11AMPS
3		11	8 C.O. @ 180VA EACH	1440	230V	3.5mm ² THW	15mm \emptyset	20	100	6.00AMPS
4			2hp, 230V, 1 Phase ACU	3600	230V	3.5mm ² THW	15mm \emptyset	20	100	16.00AMPS
5			2hp, 230V, 1 Phase ACU	3600	230V	3.5mm ² THW	15mm \emptyset	20	100	16.00AMPS
6			1hp, 230V, 1 Phase ACU	1800	230V	3.5mm ² THW	15mm \emptyset	20	100	8.00AMPS
TOTAL				11588	230V					51.24MPS

PP-C SCHEDULE OF LOADS

CIRCUIT NUMBER	LIGHT OUTLET	CONV. OUTLET	LOAD DESCRIPTION	POWER (VA)	VOLTAGE (VOLTS)	WIRE SIZE	CONDUIT SIZE	PROTECTION		AMPERES
								AT	AF	
1	7		7 L.O. @ 32VA EACH	224	230V	2.0mm ² THW	15mm \emptyset	15	100	0.97AMPS
2	12		12 L.O. @ 32VA EACH	384	230V	2.0mm ² THW	15mm \emptyset	15	100	2.50AMPS
3		8	8 C.O. @ 180VA EACH	1440	230V	3.5mm ² THW	15mm \emptyset	20	100	6.26AMPS
4			1hp, 230V, 1 Phase ACU	1800	230V	3.5mm ² THW	15mm \emptyset	20	100	8.00AMPS
5			1hp, 230V, 1 Phase ACU	1800	230V	3.5mm ² THW	15mm \emptyset	20	100	8.00AMPS
6			1hp, 230V, 1 Phase ACU	1800	230V	3.5mm ² THW	15mm \emptyset	20	100	8.00AMPS
7			1hp, 230V, 1 Phase ACU	1800	230V	3.5mm ² THW	15mm \emptyset	20	100	8.00AMPS
8			1hp, 230V, 1 Phase ACU	1800	230V	3.5mm ² THW	15mm \emptyset	20	100	8.00AMPS
TOTAL				11048	230V					49.73MPS

TOTAL COMPUTATION OF LOADS

MAXIMUM POWER DEMAND = TOTAL COMPUTED LOAD X DEMAND FACTOR

$$= (11048 + 11588 + 2184) \times 0.80$$

$$= 19856 \text{ VA}$$

$$\text{MAX. POWER DEMAND} = 19856 \text{ VA}$$

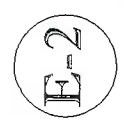
$$I_T = \frac{19856}{230} = 86.33 \text{ Amps}$$

ROMLON STATE UNIVERSITY
 OFFICE OF AUXILIARY, PLANT SERVICES AND POLLUTION CONTROL UNIT

ELECTRICAL ENGINEER: **RULAN M. LEFI**
 CHECKED BY: **[Signature]**
 APPROVED BY: **PROF. ESTEFANO M. FERRER**
 ADDRESS: **41 LAUREL HILL DRIVE**
 DAVAO CITY, PHILIPPINES
 PTR No. **113-1-1055** Date: **11-20-17** MLAN
 ANS (Professional Seal)

PROJECT TITLE: **PROPOSED CONSTRUCTION OF RESEARCH BUILDING**

PREPARED BY: **[Signature]**
 CD OPERATOR: **Manuel M. Tolon**
 JOB NO.:
 DATE: **JUNE 2017**



LOCATION: **ROMLON STATE UNIVERSITY - Main Campus, Sarangani, Davao Region, Philippines**