

**1 SECOND FLOOR C.O. LAYOUT PLAN**  
 1/200  
 E-4 SCALE

REGISTERED BY: <b>ROBERTSON STATE UNIVERSITY</b> <b>OFFICE OF ADEQUATE PLANT SERVICES AND</b> <b>POLLUTION CONTROL UNIT</b>	REGISTERED BY: <b>ROSLAND N. ERUZ</b> PEER ELECTRICIAN ENGINEER #25882 ADDRESS: 718 HURBELL J BLVD GREEN BROOK, NEW JERSEY 07033 TEL: 908-227-9100 FAX: 908-227-9100 STATE: NJ	PROJECT TITLE: <b>Construction of Student Dormitory for the</b> <b>College of Agriculture, Fishery &amp;</b> <b>Forestry</b>	SHEET CONTENT: <b>AS SHOWN</b>	REGISTERED BY: <b>CAD OPERATOR:</b> <b>Melvin J. Jodani</b> JOB NO.: <b>DATE: DEC. 2018</b>
ESTIMATE NUMBER: <b>ROSLAND N. ERUZ</b> PEER ELECTRICIAN ENGINEER #25882 ADDRESS: 718 HURBELL J BLVD GREEN BROOK, NEW JERSEY 07033 TEL: 908-227-9100 FAX: 908-227-9100 STATE: NJ	APPROVED BY: <b>JASON F. RUFOR</b> ARCHITECT #000000000 1000 W. BELMONT ST. BELMONT, NJ 07814	LOCATION: <b>ROSELTON STATE UNIVERSITY - 65th Ave., Roselton</b>	DATE:	DATE: <b>DEC. 2018</b>



**PP-A SCHEDULE OF LOADS**

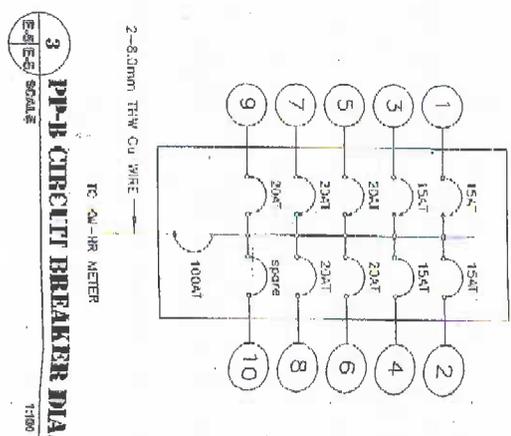
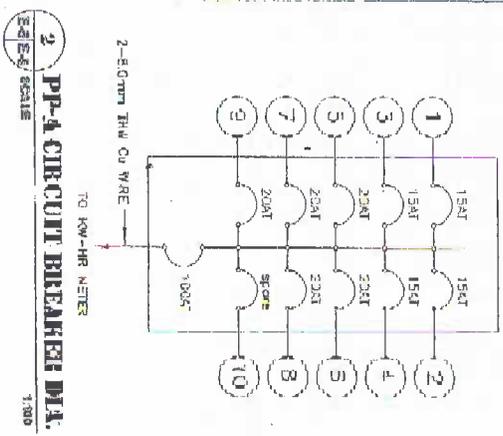
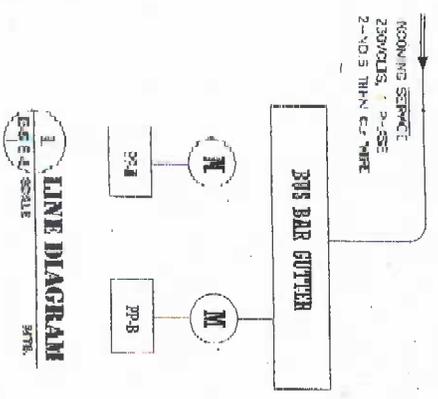
CIRCUIT NUMBER	LIGHT OUTLET	CONV. OUTLET	LOAD DESCRIPTION	POWER (VA)	VOLTAGE (VOLTS)	WIRE SIZE	CONDUIT SIZE	PROTECTION AT	AMPERES
1	10		10 L.O. @ 32VA EACH	320	230V	2.0mm <sup>2</sup> THW	5mm <sup>2</sup>	15	1.39AMPS
2	10		10 L.O. @ 32VA EACH	320	230V	2.0mm <sup>2</sup> THW	5mm <sup>2</sup>	15	1.39AMPS
3	10		10 L.O. @ 32VA EACH	320	230V	2.0mm <sup>2</sup> THW	5mm <sup>2</sup>	15	1.39AMPS
4	10		10 L.O. @ 32VA EACH	320	230V	2.0mm <sup>2</sup> THW	5mm <sup>2</sup>	15	1.39AMPS
5	9		9 L.O. @ 32VA EACH	288	230V	2.0mm THW	5mm <sup>2</sup>	15	1.25AMPS
6	5		6 L.O. @ 32VA EACH	192	230V	2.0mm THW	5mm <sup>2</sup>	15	0.83AMPS
7		13	13 C.O. @ 180VA EACH	2340	230V	3.5mm <sup>2</sup> THW	5mm <sup>2</sup>	20	10.17AMPS
8		13	13 C.O. @ 180VA EACH	2340	230V	3.5mm <sup>2</sup> THW	5mm <sup>2</sup>	20	10.17AMPS
9		14	14 C.O. @ 180VA EACH	2520	230V	3.5mm THW	5mm <sup>2</sup>	20	10.95AMPS
10			SPARE	60	230V	3.5mm THW	5mm <sup>2</sup>	20	0.78AMPS
TOTAL				9140					39.7

**PP-A SCHEDULE OF LOADS**

CIRCUIT NUMBER	LIGHT OUTLET	CONV. OUTLET	LOAD DESCRIPTION	POWER (VA)	VOLTAGE (VOLTS)	WIRE SIZE	CONDUIT SIZE	PROTECTION AT	AMPERES
1	0		10 L.O. @ 32VA EACH	320	230V	2.0mm <sup>2</sup> THW	5mm <sup>2</sup>	15	1.39AMPS
2	10		10 L.O. @ 32VA EACH	320	230V	2.0mm <sup>2</sup> THW	5mm <sup>2</sup>	15	1.39AMPS
3	10		10 L.O. @ 32VA EACH	320	230V	2.0mm <sup>2</sup> THW	5mm <sup>2</sup>	15	1.39AMPS
4	10		10 L.O. @ 32VA EACH	320	230V	2.0mm <sup>2</sup> THW	5mm <sup>2</sup>	15	1.39AMPS
5	3		9 L.O. @ 32VA EACH	288	230V	2.0mm THW	5mm <sup>2</sup>	15	1.25AMPS
6	8		6 L.O. @ 32VA EACH	192	230V	2.0mm THW	5mm <sup>2</sup>	15	0.83AMPS
7		13	13 C.O. @ 180VA EACH	2340	230V	3.5mm <sup>2</sup> THW	5mm <sup>2</sup>	20	10.17AMPS
8		13	13 C.O. @ 180VA EACH	2340	230V	3.5mm <sup>2</sup> THW	5mm <sup>2</sup>	20	10.17AMPS
9		14	14 C.O. @ 180VA EACH	2520	230V	3.5mm THW	5mm <sup>2</sup>	20	10.95AMPS
10			SPARE	60	230V	3.5mm THW	5mm <sup>2</sup>	20	0.78AMPS
TOTAL				9204					39.93

**TOTAL COMPUTATION OF LOADS**

MAXIMUM POWER DEMAND = TOTAL COMPUTED LOAD X DEMAND FACTOR  
 @ 80% D.F.  
 = ( 9140 + 9204 ) 0.80  
 MAX. POWER DEMAND = 14675.2VA  
 $I_p = \frac{14675.2}{230} = 63.80$  AMPS  
 NOTE: 3C KVA



RODOLFO STATE UNIVERSITY  
 OFFICE OF ARCHITECT, PLANT SERVICES AND  
 FACILITIES CONTROL UNIT

RECEIVED BY: [Signature]  
 PROJECT ENGINEER

CONSTRUCTION OF STUDENT DORMITORY FOR THE  
 COLLEGE OF AGRICULTURE, FISHERY &  
 FORESTRY

DATE: DEC. 2018

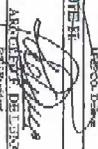


# ELECTRICAL NOTES :

1. ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE W/ THE PROVISION OF THE LATEST EDITION OF THE PHIL. ELECTRICAL CODE (PEC). THE RULES AND REGULATIONS OF LOCAL AND NATIONAL AUTHORITIES CONCERNED WITH ENFORCEMENT OF RULES AND REGULATIONS OF LOCAL UTILITY COMPANY.
2. THE SERVICE VOLTAGE TO THE BUILDING SHALL BE THREE (3) PHASE, FOUR (4) WIRE 230 VOLTS, 40 HERTZ SYSTEM.
3. THE INSTALLATION SHALL BE DONE AS FOLLOWS
  - A. RIGID STEEL CONDUIT (RSC) - POWER SERVICE ENTRANCE FEEDERS
  - B. POLYVINYL CHLORIDE (PVC) - LIGHTING POWER BRANCH CIRCUITS AND AUXILIARY LAYOUT.
4. ALL WIRES TO BE USED SHALL BE COPPER AND THERMOPLASTIC HEAT INSULATED TYPE "THIN" UNLESS NOTED OTHERWISE SPECIFIED.
5. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR THE LOCATION AND PURPOSED INTENDED.
6. THE MINIMUM SIZE OF WIRE AND CONDUIT TO BE USED SHALL BE 1.4mm THIN AND 2.0mm Ø RESPECTIVELY.
7. WHENEVER NECESSARY PULL BOX SHALL BE PRODUCED EVEN NOT INDICATED BY THE PLAN.
8. BRANCH CIRCUIT HOMERUNS SHALL NOT BE COMBINED BY THE SAME RACEWAY AND RACEWAY FOR AUXILIARY LINES SHALL NOT CONTAIN POWER LINES.
9. MOUNTING HEIGHTS SHALL BE AS FOLLOWS
  - a. 0.30m ABOVE FLOOR FINISH
  - b. 1.40m ABOVE FLOOR FINISH
  - c. 1.70m ABOVE FLOOR FINISH @ CENTER
  - d. ALL OTHER HEIGHTS
10. ALL SERVICE ENTRANCE EQUIPMENTS SUCH AS PANEBOARD SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PROVISION OF THE PHILIPPINE ELECTRICAL CODE
11. ALL ELECTRICAL WORKS AND INSTALLATIONS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

## LEGEND:

-  CEILING LIGHT
-  FLUORESCENT LAMP
-  DUPLEX CONVENIENCE OUTLET
-  WEATHER PROOF C.O.
-  WATER PUMP
-  RISER
-  CIRCUIT BREAKER
-  SINGLE SWITCH IN ONE GANG
-  DOUBLE SWITCH IN ONE GANG
-  TRIPLE SWITCH IN ONE GANG
-  LIGHTING AND POWER PANEL
-  CIRCUIT HOMERUN
-  SERVICE ENTRANCE
-  FLOW/WATT-HOUR METER
-  RACEWAY EMBEDDED TO CEILING
-  RACEWAY EMBEDDED TO FLOOR
-  SWITCH RACEWAY
-  CIRCULAR LIGHT

PROJECT NO.: <b>DOMINON STATE UNIVERSITY</b> OFFICE OF AGENCY PLANT SERVICES AND POLLUTION CONTROL UNIT	MATERIAL NUMBER: <b>RELKSN000 P. CRUZ</b> PROFESSIONAL ENGINEER #1352 ADDRESS: 711 ADELPHI ST. D.C. TEL: (02) 886-9332 / 886-9331 FAX: (02) 886-9332 / 886-9331	CHECKED BY:  APPROVED BY:  DATE:	SHEET NUMBER: AS SHOWN	PROJECT TITLE: Construction of Student Dormitory for the College of Agriculture, Fishery & Forestry	EXEMPTED BY: CLO OPERATOR APPROVED BY: DATE: DEC 2018
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