

**ELECTRICAL NOTES:**

1. ALL ELECTRICAL WORKS SHALL COMPLY WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATION OF THE OF THE NATIONAL AND LOCAL AUTHORITIES CONCERN IN THE ENFORCEMENT OF THE ELECTRICAL LAWS AND REGULATIONS OF THE UTILITY COMPANIES CONCERN.

2. SERVICE ENTRANCE VOLTAGE TO THE BUILDING SHALL BE 240VOLTS, 60 HERTZ, THREE PHASE.

3. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOACTION OF CONCRETE TERMINAL POLE FOR CONNECTION TO THE POWER SUPPLY AND TELEPHONE.

4. ALL INSTALLATION CONCEALED FROM VIEW WIRING SHALL BE INCASE OF POLYVINYL CHLORIDE (PVC) SCHEDULE 40 EXCEPT POWER AND TELEPHONE SERVICE WHICH SHALL BE RIGID STEEL CONDUIT (RSC) OR OTHER WISE NOTED.

5. PULL BOXES OF APPROPRIATE SIZE SHALL BE PROVIDED, EVEN IF NOT INDICATED IN THE DRAWING TO ACCOMMODATE THE NUMBER OF SPLICES OF WIRE.

6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE APPROPRIATE FOR BOTH LOCATION AND INTENDED USE.

7. ELECTRICAL INSTALLATION SHALL BE UNDER DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER OR A REGISTERED MASTER ELECTRICIAN.

8. NO REVISION IN THE DESIGN SHALL BE DONE WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF THE DESIGNER AND THE OWNER, ANY SUCH REVISIONS DONE WITHOUT APPROVAL SHALL BE CAUSE RESPONSIBILITY OF THE DESIGNER TO CEASE THE WHOLE.

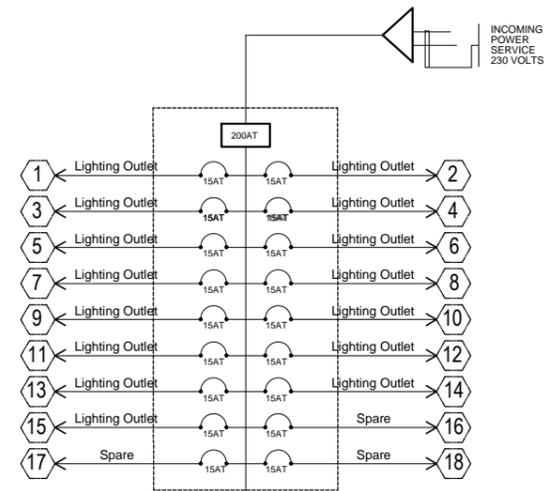
9. MOUNTING SHALL BE AS FOLLOWS:

LIGHTING SWICHES SHALL BE 1.40 METERS ABOVE FINISH FLOOR LINE.  
 CONVENIENCE OUTLETS SHALL BE 0.30 METERS ABOVE FINISH FLOOR LINE.  
 TABLE OUTLETS SHALL BE 0.15 METERS ABOVE COUNTER ON THE CENTER.  
 CABINET PANELBOARD SHALL BE 1.40 METER ABOVE FLOOR FINISH UNLESS OTHERWISE DIRECTED.

SECOND FLOOR (Proposed Panelboard)														
CKT.NO	LOAD DESCRIPTION	NO. OF OUTLETS	VOLTAGE	TOTAL VA	AMP/CKT.	AMP./PHASE			CKT. PROTECTION		SIZE OF WIRE		SIZE OF CONDUIT	
						AB	BC	CA	AT	AF	mm <sup>2</sup>	TYPE	mm <sup>2</sup>	TYPE
1	Lighting Outlet	15	230	1500	6.52	6.52			15	50	3-2.0	THHN	20	PVC
2	Lighting Outlet	8	230	800	3.48				15	50	3-2.0	THHN	20	PVC
3	Lighting Outlet	14	230	1400	6.09		6.09		15	50	3-2.0	THHN	20	PVC
4	Lighting Outlet	15	230	1500	6.52		6.52		15	50	3-2.0	THHN	20	PVC
5	Lighting Outlet	15	230	1500	6.52			6.52	15	50	3-2.0	THHN	20	PVC
6	Lighting Outlet	15	230	1500	6.52			6.52	15	50	3-2.0	THHN	20	PVC
7	Lighting Outlet	14	230	1400	6.09	6.09			15	50	3-2.0	THHN	20	PVC
8	Lighting Outlet	15	230	1500	6.52	6.52			15	50	3-2.0	THHN	20	PVC
9	Lighting Outlet	15	230	1500	6.52		6.52		15	50	3-2.0	THHN	20	PVC
10	Lighting Outlet	18	230	1800	7.83		7.83		15	50	3-2.0	THHN	20	PVC
11	Lighting Outlet	11	230	1100	4.78			4.78	15	50	3-2.0	THHN	20	PVC
12	Lighting Outlet	13	230	1300	5.65			5.65	15	50	3-2.0	THHN	20	PVC
13	Lighting Outlet	9	230	900	3.91	3.91			15	50	3-2.0	THHN	20	PVC
14	Lighting Outlet	15	230	1500	6.52	6.52			15	50	3-2.0	THHN	20	PVC
15	Lighting Outlet	13	230	1300	5.65		5.65		15	50	3-2.0	THHN	20	PVC
16	Spare		230	1500	6.52		6.52		15	50	3-2.0	THHN	20	PVC
17	Spare		230	1500	6.52			6.52	15	50	3-2.0	THHN	20	PVC
18	Spare		230	1500	6.52			6.52	15	50	3-2.0	THHN	20	PVC
						33.04	39.13	36.52						

Line Current	=	(1.73) x	39.13
	=	67.70	A
For Feeder Conductor	=	1.25 x	67.70 A = 84.62 A
			Use 3 - 14mm <sup>2</sup> THHN cu wire in 32mm PVC Pipe
For Feeder Protection			Use 75AT, 100AF, 3Phase 230V, 60Hz, MCCB Bolt on Type



**E** PANEL BOARD DIAGRAM  
 00 00 NTS SECOND FLOOR PROPOSED



R.A. 9266 - ART. 3, SECTION 20  
 Drawings and Specifications duly signed, stamped or sealed, as instruments of service are the intellectual properties and documents of the architect, whether the object for which they are made is executed or not. It shall be unlawful for any person, without the consent of the architect or author of said documents, to duplicate or to make copies of said documents for use in the repetition of and for other projects or buildings, whether executed partly or in whole.

PROJECT TITLE:  
**PROPOSED IMPROVEMENT OF FARMERS TRAINING CENTER BUILDING**  
 PHILRICE - CES, MALIGAYA, CITY OF MUNOZ NUEVA ECUIA

PRODUCED BY:  
 PHYSICAL PLANT DIVISION  
 INFRASTRUCTURE UNIT  
 PHILRICE  
 SCIENCE CITY OF MUNOZ, NUEVA ECUIA

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DESIGN BY: RBB  
 DATE: SEPT. 2018  
 CADD BY: RABM  
 DATE: SEPT. 2018  
 CHECKED BY: RBB

SHEET NUMBER:  
**E5**  
 48 51