GROUND FLOOR (Existing Main Distribution Panel)

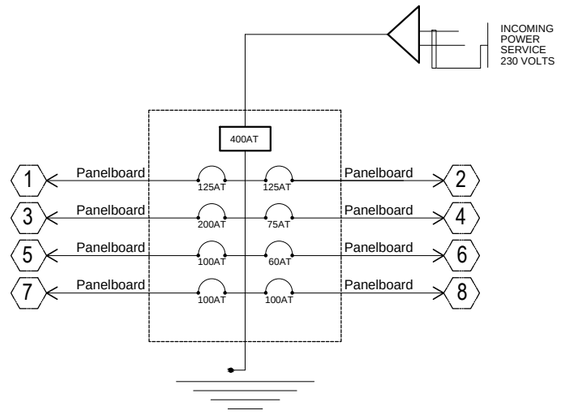
CKT.NO	LOAD DESCRIPTION	NO. OF OUTLETS	VOLTAGE	TOTAL VA	AMP/CKT.	AMP./PHASE			CKT. PROTECTION		SIZE OF WIRE		SIZE OF CONDUIT	
						AB	BC	CA	AT	AF	mm²	TYPE	mm²	TYPE
1	Panelboard		230						125	200		THHN		PVC
2	Panelboard - SF		230						125	200		THHN		PVC
3	Panelboard - GF		230						200	200		THHN		PVC
4	Panelboard		230						70	100		THHN		PVC
5	Panelboard		230						100	200		THHN		PVC
6	Panelboard		230						60	200		THHN		PVC
7	Panelboard		230						100	200		THHN		PVC
8	Panelboard		230						100	200		THHN		PVC
					Total	**102.00**	**123.00**	**120.00**						

Line Current = (1.73) x **123.00**
= 212.79 A

For Feeder Conductor = 1.25 x 212.79 A = 265.99 A
Use 3 - 250mm² THHN cu.wire in 100mm PVC Pipe

For Feeder Protection — Use 400AT,500AF, 3Phase 230V, 60Hz, MCCB Bolt on Type

Note: Main line of panelboard and panelboard is existing



E 49 51 PANEL BOARD DIAGRAM
NTS MAIN DISTRIBUTION PANEL (EXISTING)

GROUND FLOOR (Proposed Main Distribution Panel)

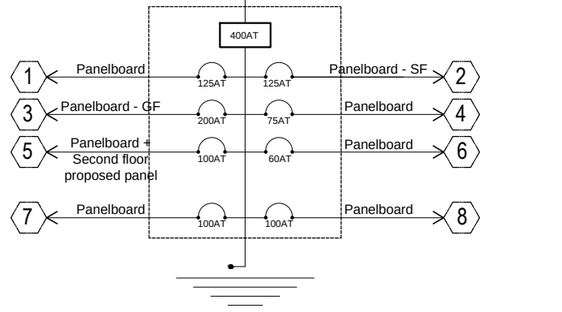
CKT.NO	LOAD DESCRIPTION	NO. OF OUTLETS	VOLTAGE	TOTAL VA	AMP/CKT.	AMP./PHASE			CKT. PROTECTION		SIZE OF WIRE		SIZE OF CONDUIT	
						AB	BC	CA	AT	AF	mm²	TYPE	mm²	TYPE
1	Panelboard		230						125	200	3-38.0	THHN		PVC
2	Panelboard - SF		230						125	200	3-30.0	THHN		PVC
3	Panelboard - GF		230						200	200	3-80.0	THHN		PVC
4	Panelboard		230						70	100	3-14.0	THHN		PVC
5	**Panelboard + Second floor Proposed Panelboard**		230						100	200	3-14.0	THHN	32	PVC
6	Panelboard		230						60	200	3-14.0	THHN		PVC
7	Panelboard		230						100	200	3-22.0	THHN		PVC
8	Panelboard		230						100	200	3-22.0	THHN		PVC
					Total	**169.70**	**123.00**	**120.00**						

Line Current = (1.73) x **169.70**
= 293.58 A

For Feeder Conductor = 1.25 x 293.58 A = 366.98 A
Use 3 - 250mm² THHN cu.wire in 100mm PVC Pipe

For Feeder Protection — Use 400AT,500AF, 3Phase 230V, 60Hz, MCCB Bolt on Type

Note: Main line of panelboard and panelboard is existing



E 49 51 PANEL BOARD DIAGRAM
NTS MAIN DISTRIBUTION PANEL (PROPOSED)

PHILRICE
PHILIPPINE RICE RESEARCH INSTITUTE
CENTRAL EXPERIMENT STATION
MALIGAYA, MUNOZ CITY, NUEVA ECIJA

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 ECIJA

PRODUCED BY:
PHYSICAL PLANT DIVISION
INFRASTRUCTURE UNIT
PHILRICE
SCIENCE CITY OF MU OZ, NUEVA ECIJA

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ABNER T. MONTECALVO
DED FOR ASF
PHILRICE-CES

APPROVED:
Dr. SAILILA E. ABDULA
EXECUTIVE DIRECTOR
PHILRICE-CES

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

SHEET NUMBER:
E6
49 51