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.

EXISTING PANELBOARD 1

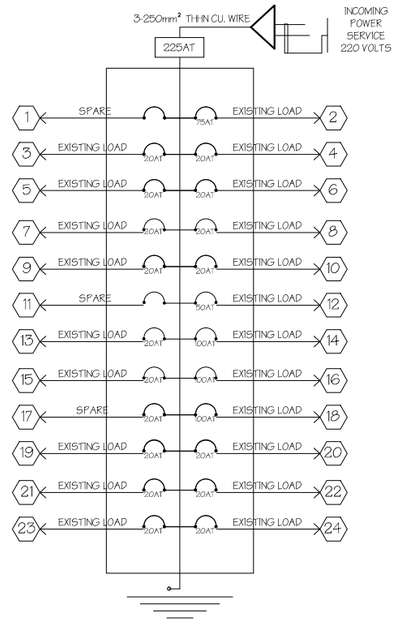
CKT. NO.	LOAD DESCRIPTION	QTY.	VOLTAGE	TOTAL VA	AMP/CKT	AMP/PHASE			CKT.PROTECTION		WIRE		CONDUIT	
						AB	BC	CA	AT	AF	mm.sq	TYPE	mm	TYPE
1	SPARE		220											
2	EXISTING LOAD		220						75	100	3 - 5.5	THHN	20	PVC
3	EXISTING LOAD		220						20	50		THHN	20	PVC
4	EXISTING LOAD		220						20	50		THHN	20	PVC
5	EXISTING LOAD		220						20	50		THHN	20	PVC
6	EXISTING LOAD		220						20	50		THHN	20	PVC
7	EXISTING LOAD		220						20	50		THHN	20	PVC
8	EXISTING LOAD		220						20	50		THHN	20	PVC
9	EXISTING LOAD		220						20	50		THHN	20	PVC
10	EXISTING LOAD		220						20	50		THHN	20	PVC
11	SPARE		220											
12	EXISTING LOAD		220						50	50		THHN	20	PVC
13	EXISTING LOAD		220						20	50		THHN	20	PVC
14	EXISTING LOAD		220						100	50		THHN	20	PVC
15	EXISTING LOAD		220						20	50		THHN	20	PVC
16	EXISTING LOAD		220						100	50		THHN	20	PVC
17	SPARE		220						20	50		THHN	20	PVC
18	EXISTING LOAD		220						100	50		THHN	20	PVC
19	EXISTING LOAD		220						20	50		THHN	20	PVC
20	EXISTING LOAD		220						20	50		THHN	20	PVC
21	EXISTING LOAD		220						20	50		THHN	20	PVC
22	EXISTING LOAD		220						20	50		THHN	20	PVC
23	EXISTING LOAD		220						20	50		THHN	20	PVC
24	EXISTING LOAD		220						20	50		THHN	20	PVC
					TOTAL	24.2	24.6	23.9						

FOR FEEDER CONDUCTOR

3 - 250mm.sq. THHN CU. WIRE IN 90mm PVC PIPE

FOR FEEDER PROTECTION

225AT, 300AT THREE PHASE, 220V, 60HZ, MCCB BOLT ON TYPE



EXISTING PANEL BOARD 1 DIAGRAM

PROPOSED PANELBOARD 1

CKT. NO.	LOAD DESCRIPTION	QTY.	VOLTAGE	TOTAL VA	AMP/CKT	AMP/PHASE			CKT.PROTECTION		WIRE		CONDUIT	
						AB	BC	CA	AT	AF	mm.sq	TYPE	mm	TYPE
1	C1 - SPO		220		30	30			50	100	3 - 8.0	THHN	32	PVC
2	EXISTING LOAD		220		5		5		75	100		THHN	20	PVC
3	C2 - SPO		220		30			30	50	100	3 - 8.0	THHN	32	PVC
4	C3 - WELDING MACHINE LOAD		220		100	100			125	200	3 - 38	THHN	50	PVC
5	C4 - WELDING MACHINE LOAD		220		100		100		125	200	3 - 38	THHN	50	PVC
6	C5 - WELDING MACHINE LOAD		220		100			100	125	200	3 - 38	THHN	50	PVC
7	EXISTING LOAD		220		5	5			20	50		THHN	20	PVC
8	EXISTING LOAD		220		5		5		20	50		THHN	20	PVC
9	EXISTING LOAD		220		5			5	20	50		THHN	20	PVC
10	EXISTING LOAD		220		5	5			20	50		THHN	20	PVC
11	SPARE		220											
12	EXISTING LOAD		220		5			5	50	50		THHN	20	PVC
13	EXISTING LOAD		220		5	5			20	50		THHN	20	PVC
14	EXISTING LOAD		220		5		5		100	50		THHN	20	PVC
15	EXISTING LOAD		220		5			5	20	50		THHN	20	PVC
16	EXISTING LOAD		220		5	5			100	50		THHN	20	PVC
17	SPARE		220						20	50		THHN	20	PVC
18	EXISTING LOAD		220		2			2	100	50		THHN	20	PVC
19	EXISTING LOAD		220		2	2			20	50		THHN	20	PVC
20	EXISTING LOAD		220		2		2		20	50		THHN	20	PVC
21	EXISTING LOAD		220		2			2	20	50		THHN	20	PVC
22	EXISTING LOAD		220		2	2			20	50		THHN	20	PVC
23	EXISTING LOAD		220		2		2		20	50		THHN	20	PVC
24	EXISTING LOAD		220		2			2	20	50		THHN	20	PVC
					TOTAL	156	119	151						

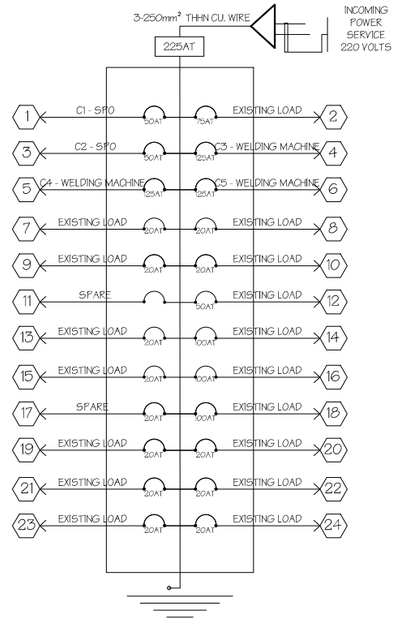
LINE CURRENT = 156 * 1.73
= 269.88 A

FOR FEEDER CONDUCTOR

3 - 250mm.sq. THHN CU. WIRE IN 90mm PVC PIPE

FOR FEEDER PROTECTION

225AT, 300AT THREE PHASE, 220V, 60HZ, MCCB BOLT ON TYPE



PROPOSED PANEL BOARD 1 DIAGRAM

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

R.A. 9266 - ART. 3, SECTION 20

PROJECT TITLE:
PROPOSED IMPROVEMENT FOR THE RICE ENGINEERING AND MECHANIZATION DIVISION
PHILRICE-CES
MALIGAYA SCIENCE CITY OF MUNOZ, NUEVA ECIJA

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

DESIGN BY:

NOTED:
Arch. RENATO B. BAJIT
FPD DIVISION HEAD
PHILRICE - CES

END USER:
ARNOLD S. JULIANO
HEAD, REMD
PHILRICE - CES

RECOMMENDING APPROVAL:
ABNER T. MONTECALVO
DED FOR ASF
PHILRICE - CES

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

DESIGNED BY: RBB
DATE: JULY 2018
CADD BY: JOY
DATE: JULY 2018
CHECKED BY: RBB

SHEET NUMBER:
E7
21 | 26