

MID TERMINAL PANEL SCHEDULE OF LOADS

CKT. NO.	LOAD DESCRIPTION	QTY.	VOLTAGE	TOTAL VA	FLC	TOTAL AMP/PHASE			CKT.PROTECTION		WIRE		CONDUIT	
						AB	BC	CA	AT	AF	mm.sq	TYPE	mm	TYPE
1	ADMIN BUILDING		220		000	000				500	3 - 200	THHN	90	PVC
2	RESEARCH BUILDING		220		300		300			500	3 - 250	THHN	90	PVC
3	WAREHOUSE 1		220		80			80	100	100	3 - 22.0	THHN	32	PVC
4	WAREHOUSE 2		220		180	180			225	300	3 - 150	THHN	90	PVC
5	CAFETERIA		220		20		20		60	100	2 - 8.0	THHN	25	PVC
6	4 DOOR APARTMENT		220		186.35			186.35	200	300	3 - 100	THHN	65	PVC
7	HEADHOUSE / SCREENHOUSE		220		40	40			60	100	2 - 8.0	THHN	25	PVC
8	DUPLEX		220		48		48		60	100	2 - 14.0	THHN	32	PVC
9	IRBAS & PROCESSING SHED		220		160			160	200	300	3 - 60.0	THHN	50	PVC
10	GUESTHOUSE		220		48		48		50	100	2 - 14.0	THHN	32	PVC
11	HOUSING		220		100	100			150	200	2 - 22.0	THHN	32	PVC
12	GUARDHOUSE		220		30			30	50	100	2 - 8.0	THHN	32	PVC
TOTAL						520	416	456.35						

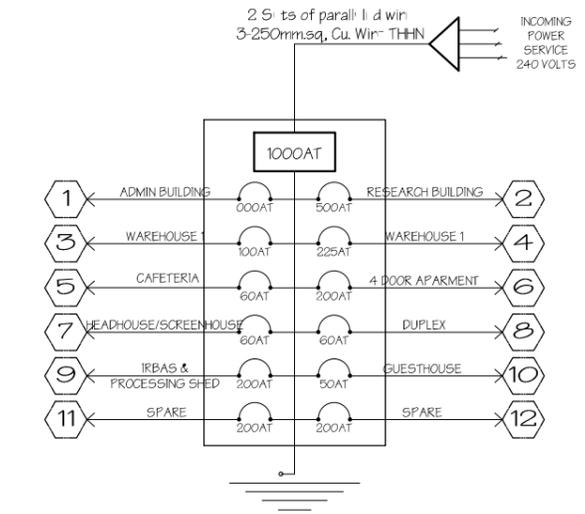
LINE CURRENT = 520×1.73
= 899.6 A

FOR FEEDER CONDUCTOR

$1.25 \times 899.6 = 1,124.5$ A
USE 2 SETS OF PARALLELED 3-250mm.sq. THHN CU. WIRE IN 2 - 100mm PVC PIPE

FOR FEEDER PROTECTION

USE 1000AT, 1000AT THREE PHASE 220V, 60HZ, MCCB BOLT ON TYPE



A TERMINAL DISTRIBUTION PANEL

MAIN DISTRIBUTION PANEL SCHEDULE OF LOADS

CKT. NO.	LOAD DESCRIPTION	QTY.	VOLTAGE	TOTAL VA	FLC	TOTAL AMP/PHASE			CKT.PROTECTION		WIRE		CONDUIT		
						AB	BC	CA	AT	AF	mm.sq	TYPE	mm	TYPE	
1	TERMINAL		220		899.6				1000	1000	2 SETS OF PARALLELED WIRE 3 - 325mm ² COPPER WIRE		THHN	100	PVC
2	FOM/ MOTORPOOL/COLD STORAGE		220		100				200	300	3 - 80	THHN	65	PVC	
3	POWERHOUSE		220		27.73				50	100	3-5.5	THHN	20	PVC	
4	SPARE		220		100				200	300			90	PVC	
TOTAL						1,127.33									

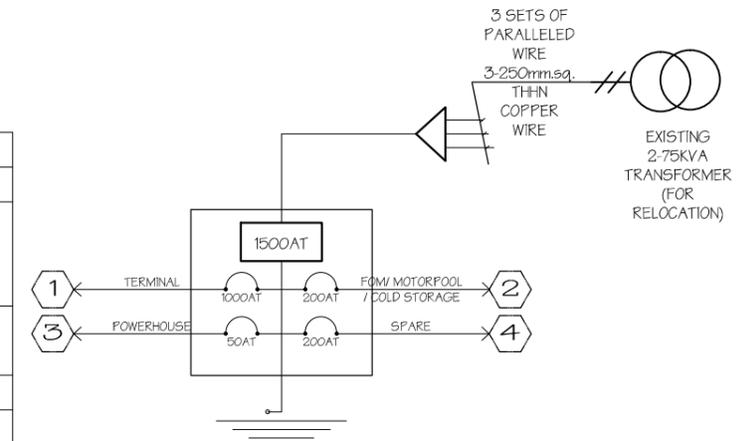
LINE CURRENT = 1,127.33 A

FOR FEEDER CONDUCTOR

$1.25 \times 1,127.33 = 1,409.16$ A
USE 3 SETS OF PARALLELED 3-250mm.sq. THHN CU. WIRE IN A CABLE TRAY

FOR FEEDER PROTECTION

USE 1500AT, 2000AT THREE PHASE 220V, 60HZ, MCCB BOLT ON TYPE



B MAIN DISTRIBUTION PANEL POWERHOUSE



R.A. 9266 - Art. 3, Section 20
Drawings and Specifications duly signed, stamped or sealed, as instruments of service, in the intellectual property and documents of the architect, with the original copies for which they are made, is irrevocable and 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 preparation of and for other projects or buildings, whether outside partly or in whole.

PROJECT TITLE:
UNDERGROUND ELECTRICAL LINE
PHILRICE-ISABELA, SAN MATEO, ISABELA

PRODUCED BY:
PHYSICAL PLANT DIVISION
INFRASTRUCTURE UNIT
PHILRICE-CES
SCIENCE CITY OF MUNOZ, NUEVA ECUA

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PHILRICE-CES

DESIGNED BY: RRB
DATE: OCTOBER 2018
CADD BY: JRA
DATE: OCTOBER 2018
CHECKED BY: RRB

SHEET NUMBER:
E12
13 15