



PB-BROOM																	
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	KVA	CURRENT AMPERES			INVERSE TIME DELAY CIRCUIT BREAKER			FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE	
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC		
1	1	4930	10 x 48" TUBE LIGHT + 4 x ORBIT FAN + 7 x CONVENIENCE OUTLET	230	SINGLE	4.93	21.43			100	-	3	3-14 mm2 THHN/THWN	-	-	-	
2	1	245	1 x CONVENIENCE OUTLET	230	SINGLE	0.25	1.07			30	-	2	2-5.5 mm2 + 2-3.5 mm2 THHN/THWN	-	-	-	
3			NO LOAD	230	SINGLE	0.00			0.00	30	-	2	2-5.5 mm2 THHN/THWN	-	-	-	
4			NO LOAD	230	SINGLE	0.00			0.00	30	-	2	2-5.5 mm2 THHN/THWN	-	-	-	
5			NO LOAD	230	SINGLE	0.00		0.00		30	-	2	2-5.5 mm2 THHN/THWN	-	-	-	
6			NO LOAD	230	SINGLE	0.00		0.00		30	-	2	2-5.5 mm2 THHN/THWN	-	-	-	
7			NO LOAD	230	SINGLE	0.00	0.00			20	-	2	2-3.5 mm2 THHN/THWN	-	-	-	
8	1	13500	9 x CONVENIENCE OUTLET	230	SINGLE	13.50	58.70			30	-	2	2-5.5 mm2 + 2-3.5 mm2 THHN/THWN	-	-	-	
9	1	533	6 x 48" TUBE LIGHT + 1 x ORBIT FAN + 2 x CONVENIENCE OUTLET	230	SINGLE	0.53			2.32	20	-	2	2-3.5 mm2 THHN/THWN	-	-	-	
10	1	855	7 x 48" TUBE LIGHT + 9 x ORBIT FAN + 12 x LIGHT BULB	230	SINGLE	0.86			3.72	40	-	3	2-8.0 mm2 THHN/THWN	-	-	-	
11	1	126	7 x 48" TUBE LIGHT	230	SINGLE	0.13		0.55		15	-	2	2-5.5 mm2 THHN/THWN	-	-	-	
12	1		SPARE	230	SINGLE	0.00		0.00			-	2		-	-	-	
13	1	1195	7 x 48" TUBE LIGHT + 5 x ORBIT FAN + 2 x LIGHT BULB + 4 x CONVENIENCE OUTLET	230	SINGLE	1.20	5.20			30	-	2	2-5.5 mm2 THHN/THWN	-	-	-	
TOTAL CURRENT IN EACH PHASE (AMPERES)							86.39	0.55	0.03								
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										100	-	3	2-8.0 mm2 THHN/THWN	-	-	-	
TOTAL CURRENT IN AMPERES		92.97	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of FCNL + H0) + 30) x DF IC = 1.25 x 2.54 + [(1.732 x (1.25 x 12.41 + 86.39 - 12.41))] + 0] x 0.80 IC = 130.35 Amperes								SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR IP = 250% HML + (1.732 x (125% of HCL + H0) + 30) x DF IP = 1.25 x 2.54 + [(1.732 x (1.25 x 12.41 + 86.39 - 12.41))] + 0] x 0.80 IP = 127.18 Amperes						
TOTAL CONNECTED LOAD VA		21384															
ENCLOSURE		NEMA - 1	USE: 3-8.0 mm2 THHN/THWN, Stranded Copper								USE: 100 AT INVERSE TIME, 230V, 3P						

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF:	SEAL	R.A. 9266 Section 33 Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the copies for which they are made is executed or not. It shall be unlawful for any person to duplicate or to make copies of said documents for use in the execution of and for other projects of building, whether executed partly in whole without the written consent of architect or author of said documents.	PROJECT TITLE:  TEMPORARY ROOMS SCHEDULE OF LOADS	PROJECT OWNER:  EE481 EEK2414 CAFSTONE 1	DRAWING CONTENTS	DESIGNED BY: TANO DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO APPROVED BY:	ISSUED FOR: OWNER'S APPROVAL AS-BUILT BIDDING BUILDING PERMIT CONSTRUCTION ESTIMATE FABRICATION	REVISIONS: NO. DATE DESCRIPTION	DRAWING NO.
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY						