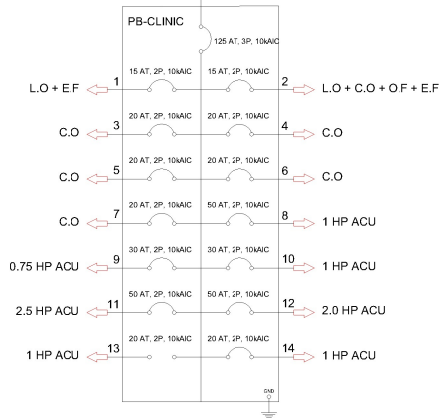


TO MDP-CLPH 02
PB-T-ROOM
PB-ACTCEN CR
PB-CLINIC

3 - 33 mm² THHN/THWN
1 - 8.0 mm² THHN, STRANDED COPPER
IN 32 mm Ø PVC PIPE

PB - CLINIC



PB-CLINIC																	
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	777	16 x DOWNLIGHT + 7 x ORBIT FAN + 5 x LED LIGHT TUBE + 1 x EXHAUST FAN	230	SINGLE	0.78	3.38			15	-	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
2	1	12358	16 x DOWNLIGHT + 6 x ORBIT FAN + 17 x LED LIGHT TUBE + 3 x EXHAUST FAN + 10 x CONVENIENCE OUTLET	230	SINGLE	12.36	53.73			15	-	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
3	1	1900	3 x CONVENIENCE OUTLET	230	SINGLE	1.90			8.26	20	-	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
4	1	1825	8 x CONVENIENCE OUTLET	230	SINGLE	1.83			7.93	20	-	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
5	1	1645	7 x CONVENIENCE OUTLET	230	SINGLE	1.65		7.15		20	-	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
6	1	1205	2 x CONVENIENCE OUTLET	230	SINGLE	1.21		5.24		20	-	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
7	1	7740	12 x CONVENIENCE OUTLET + 1 x FLOOR RECEPTACLE	230	SINGLE	7.74	33.65			20	-	2	2-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
8	1	1840	1 HP, ACU	230	SINGLE	1.84	8.00			50	-	2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
9	1	1587	0.75 HP, ACU	230	SINGLE	1.59			6.90	30	-	2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
10	1	1840	1 HP, ACU	230	SINGLE	1.84			8.00	30	-	2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
11	1	3335	2.5 HP, ACU	230	SINGLE	3.34		14.50		50	-	2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
12	1	2760	2.0 HP, ACU	230	SINGLE	2.76		12.00		50	-	2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
13	1	1840	1 HP, ACU	230	SINGLE	1.84	6.00			20	-	2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
14	1	1840	1 HP, ACU	230	SINGLE	1.84	6.00			20	-	2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	25 mmØ PVC PIPE	
TOTAL CURRENT IN EACH PHASE (AMPERES)							114.76	38.89	31.10								
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS										125	-	3	2-3.0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	32 mmØ PVC PIPE	
TOTAL CURRENT IN AMPERES		184.75	COMPUTATIONS:														
			SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR							SIZE OF FEEDER PROTECTION AT 80% DEMAND FACTOR							
TOTAL CONNECTED LOAD VA		42492	IC = 125% of HML + (1.732 x (125% of HCNL - HØ) + 3Ø) x DF IC = 1.25 x 12 + [(1.732 x [1.25 x 29.45 + 114.76 - 29.45]) + 0] x 0.8 IC = 184.21 Amperes							IP = 250% HML + (1.732 x (125% of HCL - HØ) + 3Ø) x DF IP = 2.5 x 12 + [(1.732 x [1.25 x 29.45 + 114.76 - 29.45]) + 0] x 0.8 IP = 199.21 Amperes							
			ENCLOSURE		NEMA - 1		USE: 3-30 mm2 THHN/THWN, 1-8.0 mm2, Stranded, Copper, in 32 mm Ø PVC PIPE							USE: 125 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 repetition of and for other projects of building, whether executed partly or whole, without the written consent of architect or author of said documents.	PROJECT TITLE: MEDICAL AND DENTAL CLINIC SC-IEDULE 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					PROJECT CODE:	