									PB-SAL-	GF						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	TIME DELAY	CIRCUIT		DER BRANCH CIR PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	21	2458	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 10 x CONVENIENCE OUTLET	230	SINGLE	2.46	10.69			15	100	2	2-3.5 mm2 THHN/THWN	1	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	19	2098	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 8 x CONVENIENCE OUTLET	230	SINGLE	2.10	9.12			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	20	2278	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 9 x CONVENIENCE OUTLET	230	SINGLE	2.28			9.90	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	20	2278	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 9 x CONVENIENCE OUTLET	230	SINGLE	2.28			9.90	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5	17	1738	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 6 x CONVENIENCE OUTLET	230	SINGLE	1.74		7.56		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6	12	1180	1 x 48" TUBE LIGHT + 8 x 24" TUBE LIGHT 3 x CONVENIENCE OUTLET	230	SINGLE	1.18		5.13		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
7	15	195	6 x 24" TUBE LIGHT + 6 x LIGHT BULB + 3 x LED STRIP LIGHT	230	SINGLE	0.20	0.85			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
8	15	135	15 x LIGHT BULB	230	SINGLE	0.14	0.59			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2 0 mm2 THHN/THWN	15 mmØ PVC PIPE
9			SPARE											-	-	-
10			SPARE											-	-	-
11			SPARE											-	-	-
12			SPARE											-	-	-
		101	TAL CURRENT IN EACH PHASE (AMP				21.24	12.69	19.81							
			INCOMING FEEDER CONDU			AILS				45	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
тота	L CURRENT I	IN AMPERES	53.74	COMPUTATIONS: SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR						SIZE OF FE	EDER PROTE	CTION AT 80% DEMAND FACTO	R			
тота	L CONNECTI	ED LOAD VA	12360	IC = 1.25 x 1	IC = 125% of HML + (1.732 x (125% of HCNL + H0)+ 30) x DF IC = 1.25 x 1.41 + [[1.732 x [1.25 x 20.94 + 21.24 - 20.94]]+ 0] x 0.8 IC = 38.09 Amperes							41 + [[1.732]	x (125% of HCL + HØ) + 3Ø) x D x [1.25 x 20.94 + 21.24 - 20.94]] + 0			
	E	NCLOSURE	NEMA - 1	USE: 3-8.0 m	: = 38.09 Amperes SE: 3-8.0 mm2 THHN/THWN, Stranded, Copper						USE: 45 AT,	INVERSE TIM	E, 230V, 3P			

								PB - F	RINCIPAL'S	OFFICE (PO)						
CKT NO.		LOAI	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/		CONDUIT SIZE
l	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3000	ACU	230	SINGLE	3.00	13.04			30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
2	3	195	3 x ORBIT FAN	230	SINGLE	0.20	0.85			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
4	1	3000	ACU	230	SINGLE	3.00			13.04	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
5	6	4200	6 x CONVENIENCE OUTLET	230	SINGLE	4.20		18.26		20	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
6	10	368	6 x 48" TUBE LIGHT + 4 x LIGHT BULB	230	SINGLE	0.37		1.60		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
		TO	AL CURRENT IN EACH PARSE (AMPE	RES)			13.89	19.86	19.53							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET.	AILS	•		•	80	100	3	3-14.0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mm@ PVC PIPE
тота	CURRENT I	N AMPERES		COMPUTATI	ONS: OMING FEEL	DER AT 80%	DEMAND FA	CTOR		•	SIZE OF FE	EDER PROTE	CTION AT 80% DEMAND FACTOR	ŧ	1-0.0 minz miny mine	40 111110 1 401 11 2
тота	C = 125% of HML + (7.732 x (125% of HML + H0)+ 30) x DF											3.04 + [[1.732	x (125% of HCL + HØ) + 3Ø) x DF x [1.25 x 5.37 + 32.15 - 5.37]]+ 0] x			
	E	IC = 59.45 Amperes ENCLOSURE NEMA - 1 USE: 3-14.0 mm2 THHN/THWN, Stranded, Copper									USE: 80 AT,	INVERSE TIM	E, 230V, 3P			

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33	PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.
			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 object for which they are made is executed or not, if shall be unlawful for any person to duplicate or to make copies of said documents for use in the reception of and for other	DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO APPROVED BY:	OWNER'S APPROVAL AS-BUILT BIDDING BUILDING PERMIT	NO. DATE DESCRI	TION
			projects of building, wether executed partly in whole,					CONSTRUCTION ESTIMATE FABRICATION	PROJECT CODE:	

								PB - F	EGISTRAR'S	OFFICE (RO)						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERSI	TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/I		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	10	168	8 x FLUORESCENT LIGHT + 2 x LIGHT	230	SINGLE	0.17	0.73			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	20	4185	10 x CONVENIENCE OUTLET	230	SINGLE	4.19	18.20			20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
3	4	260	4 x ORBIT FAN	230	SINGLE	0.26			1.13	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	1	3000	ACU	230	SINGLE	3.00			13.04	30	100	2	2-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5	10	5254	10 x CONVENIENCE OUTLET	231	SINGLE	5.25		22.84		30	100	2	2-5.5 mm2 THHN/THWN		1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
6			SPARE													
		10	TAL CURRENT IN EACH PHASE (AMPÉ				18.93	22.84	14.17							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	AILS				100	100	3	3-22 0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
TOTA	L CURRENT I	N AMPERES	55.94	SIZE OF INC		DER AT 80%	DEMAND FA	CTOR			SIZE OF FEE	DER PROTEC	TION AT 80% DEMAND FACTO	R		
IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF TOTAL CONNECTED LOAD VA 7613 IC = 1.25 x 13.04 + [[1.732 x [1.25 x 40.55 + 41.77 - 40.55]]+ 0] x 0.80									30				x (125% of H _C L + HØ) + 3Ø) x D x [1.25 x 40.55 + 41.77 - 40.55]]+			
				IC = 84.96	Amperes						IP = 98.00 /	Amperes				
	IC = 84.96 Amperes ENCLOSURE NEMA - 1 USE: 3-22.0 mm2 THHN/THWN, Stranded, Copper										USE: 100 AT	, INVERSE TIM	1E, 230V, 3P			

									PB-SAL-R	163						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	IRRENT AMP	ERES	INVERSI	E TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	1492	ACU	230	SINGLE	1.49	6.49			30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
2			SPARE													
3	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	15 mmØ PVC PIPE
4	SPARE															
5			SPARE													
6	12	12 1541 12 x 48" TUBE LIGHT + 1 x ORBIT FAN 230 SII						6.70		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
		TO	AL CURRENT HE PACH PHASE (AMPE	RES)			6.49	6.70	6.49							
			INCOMING FEEDER CONDUC	CTOR & PRO	TECTION DET	AILS				35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	2E mm/A DVC DIDE
TOTAL	L CURRENT I	N AMPERES		COMPUTAT	IONS: COMING FEE	DER AT 80%	DEMAND FA	CTOR		•	SIZE OF FEE	DER PROTE	CTION AT 80% DEMAND FACTOR	ŧ	123.3 minz TARRYTHAN	23 1111100 F VC FIFE
IC = 125% of HML + (1.732 x (125% of HCNL + H0)+ 30) x DF TOTAL CONNECTED LOAD VA 4525 IC = 1.25% x 6.49 + [1.732 x [1.25 x 1.49 + 12.97 - 1.49]]+ 0] x 0.80 IC = 1.26% x 6.49 + [1.732 x [1.25 x 1.49 + 12.97 - 1.49]]+ 0] x 0.80											IP = 2.5 x 6.	49 + [[1.732)	x (125% of HCL + HØ) + 3Ø) x Di x [1.25 x 1.49 + 12.97 - 1.49]]+ 0] x			
	E	IC = 24.98 Amperes ENCLOSURE NEMA - 1 USE: 3-3.5 mm2 THHN/THWN, Stranded, Copper									USE: 35 AT,	INVERSE TIM	E, 230V, 3P			

									MDP SA	L						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERSE	TIME DELAY	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/I		CONDUIT SIZE
	QTY.	Total VA	Description	1			AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	13815	PB-SAL-4F	230	THREE	13.82	22.04	22.04	15.98	80	100	3	3-22 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
2	1	10360	PB-SAL-3F	230	THREE	10.36	13.32	14.80	16.92	60	100	3	3-14 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	-
3	1	20710	PB-SAL-2F	230	THREE	20.71	34.88	26.50	28.66	100	100	3	3-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
4	1	11400	PB-SAL-GF	230	THREE	11.40	21.24	12.69	19.81	45	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
5	1	12255	PB-RO	230	THREE	12.26	18.93	22.84	14.17	100	100	3	2-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
6	1	7613	PB-PO	230	THREE	7.61	13.89	19.86	19.53	80	100	3	2-22 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
7	1	4525	PB-SAL-R163	230	THREE	4.53	6.49	6.70	6.49	35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
8	1	4525	PB-SAL-R164	230	THREE	4.53	6.70	6.49	6.49	35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
9	1	4525	PB-SAL-R165	230	THREE	4.53	6.70	6.49	6.49	40	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
10	1	3000	ACU 2ND FLOOR	230	SINGLE	3.00		13.04		30	100	2	2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	20 mmØ PVC PIPE
11	1	3000	ACU 2ND FLOOR	230	SINGLE	3.00			13.04	30	100	2	2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	20 mmØ PVC PIPE
12			SPARE AL CURRENT IN EACH PHASE (AMP	J.,,,							-			-		-
		101	INCOMING FEEDER CONDU	-,			144.19	151.45	147.59		-			-		-
			INCOMING FEEDER CONDU	JCTOR & PRO	TECTION DET	AILS				175	250	3	3-50.0 mm2 THW	-	1-14 mm2 THHN/THWN	65 mmØ PVC PIPE
TOTA	L CURRENT I	N AMPERES	443.23	SIZE OF INC	ONS: COMING FEEL	DER AT 80%	DEMAND FA	TOR			SIZE OF FEE	DER PROTE	CTION AT 80% DEMAND FACTO	R	<u> </u>	
тота	IC = 125% of HML + (1.732 x (125% of HCNL + H0)+ 30) x DF IC = 1.25 x 12 + [[1.732 x (1.25 x 111.13 + 65.30 - 111.13]] + 0] x I IC = 1.49.98 Ampens								10			2 + [[1.732 x [x (125% of HCNL + HØ) + 3Ø) x 1.25 x 111.13 + 65.30 - 111.13]]+ (
	E	NCLOSURE	NEMA - 1	-	mm2 THW, St	randed, Copp	er					, INVERSE TIN	ИЕ, 230V, 3P			

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33	PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:		DRAWING NO.
			Drawing and specification and other contract				DATE DRAFTED: 09-04-2024	OWNER'S APPROVAL	NO. DATE	DESCRIPTION	
			documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of				DATE UPDATED: 09-15-2024	AS-BUILT			' ا
			the architect, whether the object for which they are made is executed or not, if shall be unlawful for any		EE481 EEK2414 CAPSTONE 1		DRAFTED BY: RAS OBISO	BIDDING	\vdash		- '
			person to duplicate or to make copies of said documents for use in the repetition of and for other				APPROVED BY:	BUILDING PERMIT			4
			projects of building, wether executed partly in whole,			1		DESTIMATE			- '
			without the written consent of architect or author of said documents.	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY					PROJECT CODE:		-

									PB-SAL-R	164						
CKT NO.		LOAI	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/I		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	13	1541	12 x 48" TUBE LIGHT + 1 x ORBIT FAN + 7 x CONVENIENCE OUTLET	230	SINGLE	1.54	6.70			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2			SPARE											-	-	-
3	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mm@ PVC PIPE
4			SPARE											-	-	-
5			SPARE											-	-	-
6	1	1492	ACU	230	SINGLE	1.49		6.49		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mm@ PVC PIPE
		TO	AL CURRENT IN EACH PHASE (AMPÉ				6.70	6.49	6.49							
			INCOMING FEEDER CONDUC	CTOR & PRO	TECTION DET	AILS	•	•		35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mm@ DVC DIDE
TOTAL	. CURRENT I	N AMPERES		COMPUTATI		DER AT 80%	DEMAND FA	CTOR			SIZE OF FEE	DER PROTEC	TION AT 80% DEMAND FACTO	R	1-3.3 111112 1111119 1111111	
тота	SIZE OF INCOMING FEDER AT 30% DEMAND FACTOR											49 + [[1.732 x	x (125% of HCL + HØ) + 3Ø) x D [1.25 x 2.09 + 13.20 - 2.09]] + 0] x			
	E	NCLOSURE	NEMA - 1	USE: 3-3.5 n	nm2 THHN/TH	HWN, Strande	d, Copper				USE: 35 AT,	INVERSE TIME	E, 230V, 3P			

									PB-SAL-R	165						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/I		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1			SPARE											-		-
2	11	1541	12 x 48" TUBE LIGHT + 1 x ORBIT FAN + 11 x CONVENIENCE OUTLET	230	SINGLE	1.54	6.70			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3			SPARE											-	-	-
4	1	1492	ACU	230	SINGLE	1.49			6.49	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	15 mmØ PVC PIPE
5	1	1492	ACU	230	SINGLE	1.49		6.49		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
6			SPARE													
		10	AL CURRENT IN EACH PHASE (AMPE				6.70	6.49	6.49							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	TAILS				40	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
TOTA	L CURRENT I	N AMPERES		SIZE OF IN	ONS: COMING FEE	DER AT 80%	DEMAND FA	CTOR			SIZE OF FEI	DER PROTE	CTION AT 80% DEMAND FACTO			
тота	L CONNECTE	D LOAD VA			f HML + (1.7 5.49 + [[1.732 Amperes							49 + [[1.732 >	x (125% of HCL + HØ) + 3Ø) x D ([1.25 x 1.48 + 15.65 - 1.48]] + 0] x			
	El	NCLOSURE	NEMA - 1	USE: 3-3.5 n	nm2 THHN/TI	HWN, Strande	d, Copper				USE: 40 AT,	INVERSE TIM	E, 230V, 3P			

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF:	SEAL	R.A. 9266 Section 33	PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.
			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 object for which they are	DON SIMPLICIO A LIZADES BUILDING	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024	OWNER'S APPROVAL AS-BUILT BIDDING	NO. DATE DESCRIPTION	Ξ'
			made is executed or not, if 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, wether executed partly in whole.	PROPOSED SCHEDULE OF LOADS	EE461 EER2414 CAPSTONE I		DRAFTED BY: RAS OBISO APPROVED BY:	BUILDING PERMIT CONSTRUCTION		∃ '
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				ESTIMATE FABRICATION	PROJECT CODE:	

									PB-SAL-2	2F						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	TIME DELAY	CIRCUIT		DER BRANCH CIR PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1		999	2 x 48" TUBE LIGHT + 7 x 24" TUBE LIGHT + 1 x LIGHT BULB + 5 x	230	SINGLE	1.00	4.34			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2		2206	3 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x LIGHT BULB + 10 x	230	SINGLE	2.21	9.59			15	100	2	2-3.5 mm2 THHN/THWN	1	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3		1513	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	1.51			6.58	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4		1873	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 8 x CONVENIENCE OUTLET	230	SINGLE	1.87			8.14	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5		117	2 x 48" TUBE LIGHT + 6 x 24" TUBE LIGHT + 3 x LIGHT BULB	230	SINGLE	0.12		0.51		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6		2053	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	2.05		8.93		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
7		2764	5 x 48" TUBE LIGHT + 5 x ORBIT FAN + 1 x LIGHT BULB + 13 x	230	SINGLE	2.76	12.02			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
8		2053	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	2.05	8.93			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
9		1873	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	1.87			8.14	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
10		1333	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 5 x CONVENIENCE OUTLET	230	SINGLE	1.33			5.80	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
11		1873	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 8 x CONVENIENCE OUTLET	230	SINGLE	1.87		8.14		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
12		2053	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	2.05		8.93		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
		10	INCOMING FEEDER CONDU		TECTION DET	AILS	34.88	26.50	28.66			_				
TOTAL	COMPUTATIONS:									100	-	3	3-22.0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
IOIA	TAL CURRENT IN AMPERES 90.04 SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR C = 125% of HML + (1.732 × (125% of HCNL + H0)+ 30) × DF												CTION AT 80% DEMAND FACTO			
тота	L CONNECTE	D LOAD VA			15.10 + [[1.73							5.1 + [[1.732 >	x (125% of HCL + HØ) + 3Ø) x D x [1.25 x 21.8 + 41.74 - 21.8]]+ 0] x			
	E	NCLOSURE	NEMA - 1		mm2 THHN/	THWN, Strand	ed, Copper					, INVERSE TIN	ME, 230V, 3P			

									PB-SAL-							
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP			TIME DELAY	CIRCUIT		EDER BRANCH CIRC PER WIRE, THHN/1		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	13	144	3 x 48" TUBE LIGHT + 10 x 24" TUBE LIGHT	230	SINGLE	0.14	0.63			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5	15	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 4 x CONVENIENCE OUTLET	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6	8	486	3 x 48" TUBE LIGHT + 5 x 24" TUBE	230	SINGLE	0.49		2.11		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
7	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
8	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
9	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
10	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
11	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
12	14	973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
		101	INCOMING FEEDER CONDU		TECTION DET	AIIS	13.32	14.80	16.92							
				COMPUTATI						60	100	3	3-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mmØ PVC PIPE
TOTA	L CURRENT I	N AMPERES	45.04		OMING FEEL	DER AT 80%	DEMAND FAC	TOR			SIZE OF FE	EDER PROTE	CTION AT 80% DEMAND FACTO	R		
TOTA	L CONNECT	ED LOAD VA	10360		f HML + (1.73 7.73 + [[1.732								x (125% of HCL + HØ) + 3Ø) x C x [1.25 x 27.04 + 22.51 - 27.04])+ C			
1017				IC = 48.29							IP = 56.02			·, ·· ·		
	E	NCLOSURE	NEMA - 1	USE: 3-8.0 n	nm2 THHN/TH	HWN, Strande	d, Copper				USE: 60 AT,	INVERSE TIM	E, 230V, 3P			

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

									PB-SAL-	4F						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERSE	TIME DELA	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1		2998	10 x 48" TUBE LIGHT + 17 x 24" TUBE LIGHT + 5 x ORBIT FAN + 13 x	230	SINGLE	3.00	13.03			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2		126	2 x 48" TUBE LIGHT + 10 x 24" TUBE LIGHT	230	SINGLE	0.13	0.55			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3		576	2 x 48" TUBE LIGHT + 3 x CONVENIENCE OUTLET	230	SINGLE	0.58			2.50	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4		1153	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 4 x CONVENIENCE OUTLET	230	SINGLE	1.15			5.01	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5		2998	10 x 48" TUBE LIGHT + 17 x 24" TUBE LIGHT + 5 x ORBIT FAN + 13 x	230	SINGLE	3.00		13.03		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6		126	4 x 48" TUBE LIGHT + 6 x 24" TUBE	230	SINGLE	0.13		0.55		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
7		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
8		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97	4.23			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
9		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
10		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97			4.23	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
11		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
12		973	6 x 48" TUBE LIGHT + 5 x ORBIT FAN	230	SINGLE	0.97		4.23		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
		10	INCOMING FEEDER CONDU	-,	TECTION DET	AILS	22.04	22.04	15.98	80	100	3				
			60.07	COMPUTATI	ONS:					80	100	,	3-22.0 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	22 mmØ PVC PIPE
TOTA	L CURRENT I	IN AMPERES	23.07				DEMAND FAC						CTION AT 80% DEMAND FACTO			
тота	L CONNECT	ED LOAD VA	13815	HCNL + HØ)- 3 + 43.16 - 26		0			.83 + [[1.732	x (125% of HCL + HØ) + 3Ø) x D x [1.25 x 26.73 + 43.16 - 26.73]] + 0						
	E	NCLOSURE	NEMA - 1	USE: 3-22.0	mm2 THHN/	THWN, Strand	ed, Copper				_	INVERSE TIM	E, 230V, 3P			

									PB - BASEN	MENT						
		LOA	D DESCRIPTIONS				cu	RRENT AMP	ERES	INVERSE	TIME DELAY	CIRCUIT		DER BRANCH CIR		
CKT NO.				VOLTS	PHASE	kVA					BREAKER			PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1		180	5 x 48" TUBE LIGHT+ 10 x LIGHT BULB	230	SINGLE	0.18	0.78			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2		342	9 x 48" TUBE LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.34	1.49			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3		342	9 x 48" TUBE LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.34			1.49	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4		522	9 x 48" TUBE LIGHT + 2 x	230	SINGLE	0.52			2.27	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5			SPARE							15	100		2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6		2223	10 x 48" TUBE LIGHT + 7 x HANGING LIGHT + 11 x CONVENIENCE OUTLET	230	SINGLE	2.22		9.67		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
7		360	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.36	1.57			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
8		540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 2 x CONVENIENCE OUTLET	230	SINGLE	0.54	2.35			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
9		1440	20 x 48" TUBE LIGHT + 7 x	230	SINGLE	1.44			6.26	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
10			SPARE							15	100		2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
11		540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 2 x CONVENIENCE OUTLET	230	SINGLE	0.54	2.35			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
12		360	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.36	1.57			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
		тот	AL CURRENT IN EACH PHASE (AMPI				10.10	9.67	10.02							
			INCOMING FEEDER CONDU			AILS				150	150	3	3-30 mm2 THHN/THWN	-	1-14.0 mm2 THHN/THWN	-
TOTA	L CURRENT I	N AMPERES	29.78		OMING FEEL								CTION AT 80% DEMAND FACTO			
			6849		f HML + (1.73								x (125% of HCL + HØ) + 3Ø) x D			
TOTA	L CONNECTI	D LOAD VA	0045	IC = 1.25 x 2	27.17 + [[1.73]	2 x [1.25 x 67	.44 + 36.83 - 6	r.44]]+ 0] x 0.	5		IP = 2.5 x 27		x [1.25 x 67.44 + 36.83 - 67.44]]+	uj x u.8		
	E	NCLOSURE	NEMA - 1		m2 THHN/TH	IWN, 1-2.0 m	m2, Stranded,	Copper				, INVERSE TIN	1E, 230V, 3P			

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			Drawing and specification and other contract				DATE DRAFTED: 09-04-2024	OWNER'S APPROVAL	NO. DATE	DESCRIPTION	
			documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of			1	DATE UPDATED: 09-15-2024	AS-BUILT			
			the architect, whether the object for which they are made is executed or not, if shall be unlawful for any		EE481 EEK2414 CAPSTONE 1	I	DRAFTED BY: RAS OBISO	BIDDING			_
			person to duplicate or to make copies of said	I NOI OOLD GOILLDOLL OF LOADG		I	APPROVED BY:	BUILDING PERMIT			
			documents for use in the repetition of and for other projects of building, wether executed partly in whole.			I	AFFROVED B1.	CONSTRUCTION			
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		1		ESTIMATE			
			documents.	LOCATION. CEBS INSTITUTE OF TECHNOLOGY - UNIVERSITY				FABRICATION	PROJECT CODE:	, and the second	7

									PB-07									
CKT NO.		LOAI	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERSI	TIME DELAY	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/I		CONDUIT SIZE		
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC			
1	1	3500	ACU-LINK-276	230	SINGLE	3.50	15.22			30	100	2	2-5 5 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	15 mmØ PVC PIPE		
2			SPARE	230	SINGLE	0.00	0.00							-		15 mmØ PVC PIPE		
3	1	3500	ACU-LINK-275	230	SINGLE	3.50			15.22	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE		
4	1	3500	ACU-LINK-274	230	SINGLE	3.50			15.22	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE		
5	1	3500	ACU-LINK-273	230	SINGLE	3.50		15.22		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mm@ PVC PIPE		
6	1	3500	ACU-LINK-275	230	SINGLE	3.50		15.22		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mm@ PVC PIPE		
7	1	3500	ACU-LINK-274	230	SINGLE	3.50	15.22			30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE		
8			SPARE	230	SINGLE	0.00	0.00			30	100	2		-		15 mmØ PVC PIPE		
9	1	3500	ACU-LINK-273	230	SINGLE	3.50			15.22	30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE		
10	1	3500	ACU-LINK-276	230	SINGLE	3.50			15.22	30	100		2-5.5 mm2 THHN/THWN		1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE		
11	1	3500	ACU-LINK-GF	230	SINGLE	3.50		15.22		30	100		2-5.5 mm2 THHN/THWN		1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE		
12	1	3500	ACU-LINK-GF	230	SINGLE	3.50		15.22		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE		
		101	AL CURRENT IN EACH PHASE (AMP				30.43	60.87	60.87									
			INCOMING FEEDER CONDU			AILS				125	125	3	3-30 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-		
TOTAL CUR	RENT IN AM	PERES	152.17	SIZE OF IN	IONS: COMING FEE	DER AT 80%	DEMAND FA	CTOR			SIZE OF INC	COMING FEE	DER AT 80% DEMAND FACTOR		•			
TOTAL C	ONNECTED	LOAD VA	35000		f HML + (1.7: 15.22 + [[1.73 Amperes													
	ENCLOSURE		NEMA - 1	USE: 3-30 m	m2 THHN/TH	WN, 1-2.0 m	m2, Stranded,	Copper			IP = 114.78 Amperes USE: 125 AT, INVERSE TIME, 230V, 3P							

									DP-LINK	3F						
CKT NO.		LOAI	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	E TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/1		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	24240	PB - LINK3F - R373	230	SINGLE	24.24	32.09	38.35	34.96	110	125	2	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
2	1	24240	PB - LINK3F - R374	230	SINGLE	24.24	32.09	39.13	34.17	110	125	2	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
3	1	24240	PB - LINK3F - R375	230	SINGLE	24.24	31.30	38.35	33.39	110	125	2	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
4	1	24240	PB - LINK3F - R376	230	SINGLE	24.24	31.30	37.57	34.96	110	125	2	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
		101	AL CURRENT IN EACH PHASE (AMP				126.77	153.40	137.48							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	AILS				350	400	3	3-175 mm2 THHN/THWN	-	1-30 mm2 THHN/THWN	-
TOTA	L CURRENT I	N AMPERES	417.65	SIZE OF INC		DER AT 80%	DEMAND FA	TOR			SIZE OF FEE	DER PROTE	CTION AT 80% DEMAND FACTOR			
тота	L CONNECTE	ED LOAD VA	96960		37.57 + [[1.73		FHCNL + HØ) i3.39 + 150.28		x 0.8			7.57 + [[1.732	x (125% of HCL + HØ) + 3Ø) x Di x [1.25 x 153.39 + 150.28 - 153.39			
	E	NCLOSURE	NEMA - 1	USE: 3-175 r	mm2 THHN/T	HWN, Strand	ed, Copper				USE: 350 AT	, INVERSE TIN	ИЕ, 230V, 3P			

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			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 object for which they are	DON SIMPLICIO A LIZADES BUILDING	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024	OWNER'S APPROVAL AS-BUILT BIDDING	NO. DATE DESCRIPTION	Ξ'
			made is executed or not, if 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, wether executed partly in whole.	PROPOSED SCHEDULE OF LOADS	EE461 EER2414 CAPSTONE I		DRAFTED BY: RAS OBISO APPROVED BY:	BUILDING PERMIT CONSTRUCTION		∃ '
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				ESTIMATE FABRICATION	PROJECT CODE:	

									PB - LINK3F	- R373						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/I		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 7 x CONVENIENCE OUTLET	230	SINGLE	3.54	15.39			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2 0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	8	4200	10 x CONVENIENCE OUTLET	230	SINGLE	4.20			18.26	20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mm@ PVC PIPE
5	8	4020	9 x CONVENIENCE OUTLET	230	SINGLE	4.02		17.48		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mm@ PVC PIPE
- 6	10	4800	10 x CONVENIENCE OUTLET	230	SINGLE	4.80		20.87		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	
		TO	TAL CURRENT IN EACH PHASE (AMPE				32.09	38.35	34.96						-	
			INCOMING FEEDER CONDU			AILS				110	125	3	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
тота	L CURRENT I	N AMPERES	105.39	SIZE OF INC		DER AT 80%	DEMAND FAC	TOR			SIZE OF FEE	EDER PROTE	CTION AT 80% DEMAND FACTO	R	•	
тота	L CONNECTE	D LOAD VA	24240				HCNL + HØ) :35 + 37.57 - 3		В				x (125% of HCL + HØ) + 3Ø) x D x [1.25 x 38.35 + 37.57 - 38.35]]+			
				IC = 86.21 /	Amperes						IP = 107.08	Amperes				
	EI	NCLOSURE	NEMA - 1	USE: 3-22 m	m2 THHN/TH	HWN, Strander	d, Copper				USE: 110 AT	, INVERSE TIM	ME, 230V, 3P			

									PB - LINK3F	- R374						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	RES	INVERS	TIME DELAY	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/1		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 7 x CONVENIENCE OUTLET	230	SINGLE	3.54	15.39			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2 0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	8	4020	9 x CONVENIENCE OUTLET	230	SINGLE	4.02			17.48	20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mm@ PVC PIPE
5	8	4200	10 x CONVENIENCE OUTLET	230	SINGLE	4.20		18.26		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
6	10	4800	10 x CONVENIENCE OUTLET TAL CURRENT IN EACH PHASE (AMPE	230	SINGLE	4.80		20.87		30	100	2	2-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
		10	INCOMING FEEDER CONDU		TECTION DET		32.09	39.13	34.17							-
			INCOMING FEEDER CONDO			AILS				110	125	3	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
тота	L CURRENT I	N AMPERES	105.39	SIZE OF INC		DER AT 80%	DEMAND FAC	TOR			SIZE OF FEE	EDER PROTE	CTION AT 80% DEMAND FACTOR	R		
тота	L CONNECTE	ED LOAD VA	24240	SIZE OF INCOMING FEEDER AT 80% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + H0)+ 30) x DF (C = 1.25 x 20.87 + [[1.732 x (1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8 IC = 86.21 Amperes									x (125% of HCL + HØ) + 3Ø) x D x [1.25 x 38.35 + 37.57 - 38.35]]+			
	E	NCLOSURE	NEMA - 1	USE: 3-22 m	m2 THHN/TH	IWN, Strander	d, Copper				USE: 110 AT	, INVERSE TIM	ME, 230V, 3P			

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF :	SEAL	R.A. 9266 Section 33	PROJECT TITLE :	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:		DRAWING NO.
			Drawing and specification and other contract documents signed stamped or sealed as instrument of				DATE DRAFTED: 09-04-2024	OWNER'S APPROVAL	NO. DATE	DESCRIPTION	
			service, are the intellectual property and documents of	DON SIMPLICIO A LIZARES RUILDING			DATE UPDATED: 09-15-2024	AS-BUILT			_
			the architect, whether the object for which they are made is executed or not, if shall be unlawful for any	PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DRAFTED BY: RAS OBISO	BIDDING BUILDING PERMIT			-
			person to duplicate or to make copies of said documents for use in the repetition of and for other				APPROVED BY:	CONSTRUCTION			-
			projects of building, wether executed partly in whole,	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		1		ESTIMATE			1 !
			documents.	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				FABRICATION	PROJECT CODE:		1

									PB - LINK3F	R375						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	RES	INVERS	TIME DELAY	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/1		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 7 x CONVENIENCE OUTLET	230	SINGLE	3.54	15.39			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			20	100	2	2-3.5 mm2 THHN/THWN	-	1-2 0 mm2 THHN/THWN	15 mmØ PVC PIPE
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	20	100	2	2-3.5 mm2 THHN/THWN	-	1-2 0 mm2 THHN/THWN	15 mmØ PVC PIPE
4	8	4200	10 x CONVENIENCE OUTLET	230	SINGLE	4.20			18.26	20	100	2	2-3.5 mm2 THHN/THWN	-	1-2 0 mm2 THHN/THWN	15 mmØ PVC PIPE
5	8	4020	9 x CONVENIENCE OUTLET	230	SINGLE	4.02		17.48		20	100	2	2-3.5 mm2 THHN/THWN	-	1-2 0 mm2 THHN/THWN	15 mm@ PVC PIPE
6	10	4800	10 x CONVENIENCE OUTLET	230	SINGLE	4.80		20.87		30	100	2	2-5 5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	15 mmØ PVC PIPE
		TO	TAL CURRENT IN EACH PHASE (AMPI				32.09	38.35	34.96						-	-
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	AILS	•			110	125	3	3-22 mm2 THHN/THWN		1-14 mm2 THHN/THWN	-
TOTA	L CURRENT I	N AMPERES	105.39	SIZE OF INC		DER AT 80%	DEMAND FAC	TOR			SIZE OF FEE	DER PROTEC	CTION AT 80% DEMAND FACTOR			
тота	L CONNECTI	IC = 125% of HML + (1.732 x (125% of HCNL + H0)) + 30) x DF 1C = 125 x 0 F HML + (1.732 x (125 x 38.35 + 37.57 - 38.35)] + 0) x (1 c = 86.21 Amperes)										.87 + [[1.732	x (125% of HCL + HØ) + 3Ø) x Df x [1.25 x 38.35 + 37.57 - 38.35]]+ (
	E	NCLOSURE	NEMA - 1	USE: 3-22 m	m2 THHN/TH	IWN, Strande	d, Copper				USE: 110 AT	, INVERSE TIM	ME, 230V, 3P			

									PB - LINK3F	- R376						
CKT NO.		LOA	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	E TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/T		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3540	9 x 48" TUBE LIGHT + 2 x 24" TUBE LIGHT + 7 x CONVENIENCE OUTLET	230	SINGLE	3.54	15.39			20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
4	8	4200	10 x CONVENIENCE OUTLET	230	SINGLE	4.20			18.26	20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mmØ PVC PIPE
5	8	4020	9 x CONVENIENCE OUTLET	230	SINGLE	4.02		17.48		20	100	2	2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	15 mm@ PVC PIPE
6	10	4800	10 x CONVENIENCE OUTLET	230	SINGLE	4.80		20.87		30	100	2	2-5 5 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	15 mmØ PVC PIPE
		TO	AL CURRENT IN EACH PHASE (AMPE				32.09	38.35	34.96						-	-
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	AILS				110	125	3	3-22 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
TOTAL	L CURRENT I	N AMPERES		SIZE OF INC	ONS: COMING FEE	DER AT 80%	DEMAND FAC	TOR			SIZE OF FEE	EDER PROTE	CTION AT 80% DEMAND FACTO		•	
				IC = 125% o	f HML + (1.73	32 x (125% of	HCNL + HØ)-	+ 3Ø) x DF			IP = 250% F	HML + (1.732	x (125% of HCL + HØ) + 3Ø) x D	F		
TOTA	L CONNECTE	D LOAD VA	24240	IC = 1.25 x 2	20.87 + [[1.73	2 x [1.25 x 38	35 + 37.57 - 3	8.35]]+ 0] x 0.8	3		IP = 2.5 x 20	0.87 + [[1.732	x [1.25 x 38.35 + 37.57 - 38.35]]+	0.8 x 0.8		
				IC = 86.21	Amperes						IP = 107.08	Amperes				
	E	NCLOSURE	NEMA - 1	USE: 3-22 m	m2 THHN/TH	HWN, Stranded	l, Copper				USE: 110 AT	, INVERSE TIN	ΛΕ, 230V, 3P			

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF:	SEAL	R.A. 9266 Section 33	PROJECT TITLE:	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.
			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 object for which they are	DON SIMPLICIO A LIZADES BUILDING			DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024	OWNER'S APPROVAL AS-BUILT BIDDING	NO. DATE DESCRIPTION	
			made is executed or not, if 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, wether executed partly in whole.	PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DRAFTED BY: RAS OBISO APPROVED BY:	BUILDING PERMIT CONSTRUCTION		∃
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				ESTIMATE FABRICATION	PROJECT CODE:	_

									PB - LINI	C4F						
CKT NO.		LOA	D DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	TIME DELAY	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/T		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1		908	6 x 48" TUBE LIGHT + 4 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	0.91	3.95			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
2		908	6 x 48" TUBE LIGHT + 4 x ORBIT FAN	230	SINGLE	0.91	3.95			15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
3		72	4 x 48" TUBE LIGHT	230	SINGLE	0.07			0.31	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
4		908	6 x 48" TUBE LIGHT + 4 x ORBIT FAN	230	SINGLE	0.91			3.95	15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
5			SPARE	230	SINGLE	0.00		0.00					2-3.5 mm2 THHN/THWN	-	1-2 0 mm2 THHN/THWN	15 mmØ PVC PIPE
6		1088	6 x 48" TUBE LIGHT + 4 x ORBIT FAN	230	SINGLE	1.09		4.73		15	100	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	15 mmØ PVC PIPE
		то	AL CURKENTYN BACH PHASE (AMPI				7.90	4.73	4.26					-		-
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	AILS	•	•	•	35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	20 mmØ PVC PIPE
TOTAL	L CURRENT I	N AMPERES	16.89	SIZE OF INC	ONS: COMING FEE	DER AT 80%	DEMAND FA	CTOR			SIZE OF FE	EDER PROTEC	CTION AT 80% DEMAND FACTO	R		
тота	L CONNECTE	ED LOAD VA	3884		f HML + (1.7: 3.39 + [[1.732 Amperes							39 + [[1.732 x	x (125% of HCL + HØ) + 3Ø) x D x [1.25 x 9.03 + 17.48 - 9.03]+ 0] x 0			
	ENCLOSURE NEMA - 1 USE: 3-5.5 mm2 THHN/THWN, Stranded, Copper								USE: 35 AT,	INVERSE TIME	E, 230V, 3P					

									PB-ACU-LI	IKIV						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP			E TIME DELAY BREAKER	CIRCUIT		EDER BRANCH CIRC PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	3500	ACU-3F-374	230	SINGLE	3.50	15.22			40	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
2	1	3500	ACU3F-374	230	SINGLE	3.50	15.22			40	100	2	2-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mm@ PVC PIPE
3	1	3500	ACU-3F-375	230	SINGLE	3.50			15.22	40	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
4	1	3500	ACU3F-375	230	SINGLE	3.50			15.22	40	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
5	1	3500	ACU3F-376	230	SINGLE	3.50		15.22		40	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
6	1	3500	ACU3F-376	230	SINGLE	3.50		15.22		40	100	2	2-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mm@ PVC PIPE
7	1	3500	ACU-3F-373	230	SINGLE	3.50	15.22			40	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
8	1	3500	ACU3F-373	230	SINGLE	3.50	15.22			40	100	2	2-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mm@ PVC PIPE
9	1	3000	ACU-B1	230	SINGLE	3.00			13.04	40	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
10	1	3000	ACU-GF	230	SINGLE	3.00			13.04	40	100	2	2-8.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	25 mm@ PVC PIPE
11	1	3000	ACU-B2	230	SINGLE	3.00		13.04		40	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
12	1	3000	ACU-GF	230	SINGLE	3.00		13.04		40	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
13	1	1942	ACU-DNY	230	SINGLE	1.94	8.44			30	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mm@ PVC PIPE
14			SPARE	230	SINGLE	0.00	0.00							-		
15	1	3000	ACU-B3	230	SINGLE	3.00			13.04	30	100	2	2-8.0 mm2 THHN/THWN	-	1-5 5 mm2 THHN/THWN	25 mmØ PVC PIPE
16			SPARE	230	SINGLE	0.00			0.00					-		-
		тот	AL CURRENT IN EACH PHASE (AMI	.,			69.31	56.52	69.57							
			INCOMING FEEDER COND	UCTOR & PRO	TECTION DET	AILS				150	150	3	3-38 mm2 THHN/THWN	-	1-14.0 mm2 THHN/THWN	
TOTAL CUR	RENT IN AM	IPERES	195.40	SIZE OF INC	IONS: COMING FEEL	DER AT 80%	DEMAND FA	CTOR			SIZE OF FEI	DER PROTE	CTION AT 80% DEMAND FACTO	R		
TOTAL C	IC = 125% of HML + (1.732 x (125% of HCNL + H0)+ 30) x DF IC = 1.25 x 15.22 + [[1.732 x (125 x 0 + 73.91 - 0]]+ 0] x 0.8								IP = 2.5 x 15	.22 + [[1.732	x (125% of HCL + HØ) + 3Ø) x D x [1.25 x 0 + 73.91 - 0]]+ 0] x 0.8	F				
	Ic = 117.63 Amperes USE: 3-38 mm2 THHN/THWN, 1-5.5 mm2, Stranded, Copper USE: 3-38 mm2, Stranded, Copper US							USE: 150 AT	, INVERSE TIN	4E, 230V, 3P						

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			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 object for which they are made is executed or not, if shall be unlawful for any person to duplicate or to make copies of said	DON SIMPLICIO A. LIZARES BUILDING PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO	OWNER'S APPROVAL AS-BUILT BIDDING BUILDING PERMIT	NO. DATE DESCRIPTI	N
			documents for use in the repetition of and for other projects of building, wether executed partly in whole,	r			APPROVED BY:	CONSTRUCTION ESTIMATE FABRICATION	PROJECT CODE:	

									DP-01								
CKT NO.			LOAD DESCRIPTIONS	VOLTS	PHASE	kVA		CURRENT	AMPERES		INVERSE TIN		IRCUIT		RANCH CIR		
CKI NO.				VOLIS	PHASE	KVA						REAKER					CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	62584.19	EE/ECE/CE	230	THREE	62.58	244.39	227.16	256.04	75.63	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY
2	1	151915	MDP-DNY	230	THREE	151.92	220.42	229.05	225.59		500	600	3	2 sets 3-150mm2 THW	-	1-38 mm2 THW	CABLE TRAY
3	1	36769.71	OLD BUILDING	230	THREE	36.77	61.20	87.10	92.30		250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY
4	1	474.30	ME LAB 24/7	230						32.00	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY
5	1	93068.52975	MDP-CLPH	230				191.45	157.28		400	400	3	3-200 mm2 THW	-	1-22 mm2 THHN/THWN	CABLE TRAY
6	1 8923.53 PERIMETER/CANTEEN			230	THREE	8.92	6.10	20.60	22.40		250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY
			TOTAL CURRENT IN EACH PHASE (AMPERES)				750.83	776.06	771.75								
			INCOMING FEEDER CONDUCTOR & PROTEC	TION DETA	AILS						1200	-	3	3 sets of 250 mm2 THW/ phase		1-80 mm2 THHN/THWN	CABLE TRAY
			2298.63	COMPUTA	TIONS:												
TOTAL CO	IKKENI IN	I AMPERES	2290.03	SIZE OF IN	NCOMING	FEEDER AT	80% DEM	AND FACT	OR			SIZE OF F	EEDER PRO	DTECTION AT 80% DEMAND FACT	OR		
				IC = 125%	of HCL+ ((1.732 x HØ)+ 3Ø) x DF					lp = 125%	of HCL+ (((1.732 x HØ)+ 3Ø) x DF			
TOTAL	TOTAL CONNECTED LOAD VA 353735.25 IC = 1.25 x 224.32 + [[1.732 x 625.82]] + 0] x 0.8								Ic = 2.50 x	224.32 + [[1.732 x 625.82]]+ 0] x 0.8						
	IC = 1147.54 Amperes						IP = 1427	.94 Amper	res								
	ENCLOSURE NEMA - 1 USE: 3-250 mm2 THW, 1-38 mm2 THW, Stranded, Copper							USE: 1500	AT, INVERS	SE TIME, 230V, 3P							

									DP-02								
CKT NO.			LOAD DESCRIPTIONS	VOLTS	PHASE	kVA		CURRENT	AMPERES		INVERSE TIP	ME DELAY C	IRCUIT		BRANCH CIR /IRE, THHN/		CONDUIT SIZE
	QTY.	Unit VA	Description	1			AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	84321	PB-06 + PB-04 + PB-07 + PB-ACU-ML	230	THREE	84.32	82.92	103.04	104.55	76.09	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY
2	1	35000	PB-05	230	THREE	35.00	15.22	15.22	0.00	121.24	200	250	3	3-30 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY
3	1	22149.47	ME157&158	230	THREE	22.15	36.03	26.41	96.30	0.00	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY
4	1	106152	DP-ML	230						0.00	450	600	3	3-150 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY
5	1	20874.68	HS LIBRARY	230				76.20	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY		
6	1	238128	230	THREE	238.13	142.80	150.06	146.19	0.00	250	250	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	CABLE TRAY	
			TOTAL CURRENT IN EACH PHASE (AMPERES)				494.09	526.04	551.32	197.33							
			INCOMING FEEDER CONDUCTOR & PROTEC	TION DETA	AILS						800	-	3	2-250 mm2 THW	-	1-38 mm2 THW	CABLE TRAY
TOTAL C	IDDENIT II	IN AMPERES	1571.45	COMPUTA													
TOTALC	OKKLI41 II	IN AINIF ERES	1371343	SIZE OF IN	COMING	FEEDER AT	80% DEM	AND FACT	OR			SIZE OF F	EEDER PRO	TECTION AT 80% DEMAND FAC	TOR		
				IC = 125%	of HCL+ ((1.732 x HØ))+ 3Ø) x DF					lp = 250%	of HCL+ ((1.732 x HØ)+ 3Ø) x DF			
TOTAL	TOTAL CONNECTED LOAD VA 506625.15 C = 1.25 x 150.06 + [[1.732 x 150.06]] + 0] x 0.8								Ip = 2.50 x	150.06 + [1.732 x 150.06]]+ 0] x 0.8						
	IC = 395.50 Amperes										lp = 583.0	7 Ampere	.				
	ENCLOSURE NEMA - 1 USE: 3sets of 250 mm2 THW each phase, 1-38 mm2 THW, Stranded, Copper									USE: 1200	AT, INVERS	E TIME, 230V, 3P					

CHECKED / REVIEWED BY:	UNDER THE DIRECT SUPERVISION OF:	SEAL	R.A. 9266 Section 33	PROJECT TITLE:	PROJECT OWNER:	DRAWING CONTENTS	DESIGNED BY: TANO	ISSUED FOR:	REVISIONS:	DRAWING NO.
			Drawing and specification and other contract documents signed, stamped or sealed, as instrument of				DATE DRAFTED: 09-04-2024	OWNER'S APPROVAL	NO. DATE DESCRIPTION	
			service, are the intellectual property and documents of				DATE UPDATED: 09-15-2024	AS-BUILT		
			the architect, whether the object for which they are made is executed or not, if shall be unlawful for any		EE481 EEK2414 CAPSTONE 1		DRAFTED BY: RAS OBISO	BIDDING		
			person to duplicate or to make copies of said	PROPOSED SCREDULE OF LOADS			APPROVED BY:	BUILDING PERMIT		
			documents for use in the repetition of and for other projects of building, wether executed party in whole.			l	ATTROVED DT.	CONSTRUCTION		
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		1		ESTIMATE		
			documents.					FABRICATION	PROJECT CODE:	

								N	IDP-CLPH								
CKT NO.			LOAD DESCRIPTIONS	VOLTS	PHASE	kVA		CURRENT	AMPERES	:	INVERSE TII	ME DELAY O	IRCUIT		BRANCH CIR /IRE, THHN/	**	CONDUIT SIZE
	QTY.	Unit VA	Description	1			AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	10118.64	PB-ACU-1	230	THREE	10.12	46.20	58.50	25.40		125	125	3	3-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
2	1	23609.00	PB-CLINIC	230	THREE	23.61	55.98	20.67	26.00		225	250	3	3-100 mm2 THHN/THWN	-	1-22.0 mm2 THHN/THWN	50 mmØ PVC PIPE
3	1	22428.33	PB-ACU-2	230	THREE	22.43	56.30	56.00	44.20		125	125	3	3-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
4	1	17966.56	PB-PHYS	230							125	125	3	3-38 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
5	1	18946	PB-TROOM	231	THREE	18.95	15.84	14.58	16.58	34.09	60	100	3	3-14.0 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	
6	1		SPARE	230	30 THREE 0.00												
			TOTAL CURRENT IN EACH PHASE (AMPERES)				198.02	191.45	157.28	34.09							32 mmØ PVC PIPE
			INCOMING FEEDER CONDUCTOR & PROTEC	TION DETA	AILS						400	400	3	3-200 mm2 THW	-	1-30 mm2 THHN/THWN	40 mmØ PVC PIPE
TOTAL CL	DDENIT IN	AMPERES	91.30	COMPUTA													
TOTAL CO	KKEIVI IIV	AWPERES	51.30	SIZE OF IN	NCOMING	FEEDER AT	80% DEM	AND FACT	OR			SIZE OF F	EEDER PRO	TECTION AT 80% DEMAND FACT	TOR		
					of HML + (1.732 x HØ)+ 3Ø) x DF			
TOTAL	CONNECT	ED LOAD VA	93068.53		56.30 + [[1		.20]]+ 34.9]	x 0.8						732 x 156.20]]+ 34.9] x 0.8			
	IC = 314.73 Amperes						IP = 385.	1 Amperes									
	ENCLOSURE NEMA - 1 USE: 3-200 mm2 THW, 1-22 mm2 THHN/THWN, Stranded, Copper, in 40 mm Ø PVC PIPE						Ø PVC PIPE	USE: 400 A	AT, INVERSE	TIME, 230V, 3P							

										MDP-DNY								
				LOAD DESCRIPTIONS					CHIPDENIT	AMPERES		INVERSE TIN	ME DELAY C	IRCUIT	FEEDER I	BRANCH CI	RCUIT	
CKT NO.				EOAD DESCRIPTIONS	VOLTS	PHASE	kVA		CORREINI	AIVIF LIKES		В	REAKER		COPPER W	/IRE, THHN,	THWN	CONDUIT SIZE
	QT	TY.	Unit VA	Description	1			AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	1	44942	PB-ACU-LINK	230	THREE	44.94	69.31	56.52	69.57		150	150	3	3-38 mm2 THHN/THWN	-	1-14.0 mm2 THHN/THWN	40 mmØ PVC PIPE
2	1	1	6849	PB-BASEMENT	230 THREE 6.85 10.10 9.67 10.02						150	150	3	3-30 mm2 THHN/THWN	-	1-14.0 mm2 THHN/THWN	40 mmØ PVC PIPE	
3	1	1	100124	DP-LINK3F	230 THREE 100.12 133.11 158.13 141.74					350	400	3	3-175 mm2 THHN/THWN	-	1-30 mm2 THHN/THWN	-		
4	4 1 3884 PB-LINK-4F 230 THREE 3.88 7.90 4.73 4.26							4.26		35	100	3	3-5.5 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	20 mmØ PVC PIPE		
				TOTAL CURRENT IN EACH PHASE (AMPERES)				220.42	229.05	225.59								
				INCOMING FEEDER CONDUCTOR & PR	OTECTION	DETAILS						500	600	3	2 sets 3-150mm2 THW		1-38 mm2 THW	
TOTAL C	IIDDEN	NIT INI A	AMPERES	675.06	COMPUTA	ATIONS:												
IOIALC	UKKEN	IN IIN A	AIVIPERES	073.00	SIZE OF II	NCOMING	FEEDER AT	80% DEM	AND FACT	FOR			SIZE OF F	EEDER PRO	DTECTION AT 80% DEMAND FACT	TOR		
					IC = 125%	of HML +	(1.732 x HØ) + 3Ø) x DF					IP = 250%	HML + ((1.	732 x HØ) + 3Ø) x DF			
TOTAL	TOTAL CONNECTED LOAD VA 151915 IC = 1.25 x 195.40 + ((1.732 x 224.32)+0) x 0.8									IP = 2.50 x	195.40 + ((1.732 x 224.32)+0) x 0.8						
	IC = 555.08 Amperes						s						IP = 484.7	4 Ampere	s			
	ENCLOSURE NEMA - 1 USE: 2 sets 3-150mm2 THW, 1-38 mm2 THW, Stranded, Copper									USE: 500 A	T, INVERSE	TIME, 230V, 3P						
												1						

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			Drawing and specification and other contract				DATE DRAFTED: 09-04-2024	OWNER'S APPROVAL	NO. DATE	DESCRIPTION	
			documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of	DON SIMPLICIO A LIZARES BUILDING		1	DATE UPDATED: 09-15-2024	AS-BUILT			_
			the architect, whether the object for which they are made is executed or not, if shall be unlawful for any	PROPOSED SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DRAFTED BY: RAS OBISO	BIDDING BUILDING PERMIT	-		-
			person to duplicate or to make copies of said documents for use in the repetition of and for other	1			APPROVED BY:	CONSTRUCTION			-
			projects of building, wether executed partly in whole,			1		ESTIMATE	-		1 1
			documents.	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				FABRICATION	PROJECT CODE:		1