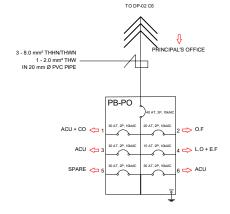


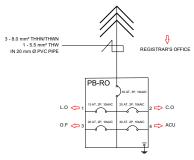
									PB-SAL-G	iF						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	E TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRCU PER WIRE, THHN/TH		CONDUIT SIZE
	QTY.	Total VA	Description	7			AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1			NO LOAD	230	SINGLE	0.00	0.00			32		2	2-5.5 mm2 THHN/THWN	-		-
2			NO LOAD	230	SINGLE	0.00	0.00			20		2	2-5.5 mm2 THHN/THWN	-		-
3			NO LOAD	230	SINGLE	0.00			0.00	32		2	2-5.5 mm2 THHN/THWN	-		-
4	17	2220	6 x 48" TUBE LIGHT + 11 x CONVENIENCE OUTLET	230	SINGLE	2.22			9.65	20		2	2-5.5 mm2 THHN/THWN	-	-	-
5	20	3080	6 x 48" TUBE LIGHT + 14 x CONVENIENCE OUTLET	230	SINGLE	3.08		13.39		20		2	2-5.5 mm2 THHN/THWN	-	-	-
6			NO LOAD	230	SINGLE	0.00		0.00		20		2	2-5.5 mm2 THHN/THWN	-		-
7			NO LOAD	230	SINGLE	0.00	0.00			20		2	2-5.5 mm2 THHN/THWN	-		-
8			NO LOAD	230	SINGLE	0.00	0.00			20		2	2-5.5 mm2 THHN/THWN	-	-	-
9	17	2540	6 x 48" TUBE LIGHT + 11 x CONVENIENCE OUTLET	230	SINGLE	2.54			11.04	20		2	2-5.5 mm2 THHN/THWN	-	-	-
10	20	1300	20 x ORBIT FAN	230	SINGLE	1.30			5.65	20		2	2-5.5 mm2 THHN/THWN	-		-
11			NO LOAD	230	SINGLE	0.00		0.00		20		2	2-5.5 mm2 THHN/THWN	-		-
12			SPARE	230	SINGLE	0.00		0.00		20		2		-		-
		TOTA	L CURRENT IN EACH PHASE (AM				0.00	13.39	26.35							
			INCOMING FEEDER COND			TAILS				100		3	3-8.0 mm2 THHN/THWN	-		-
тота	L CURRENT	IN AMPERES	39.74			ER AT 73% [DEMAND FA	CTOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	R		
тота	SIZE OF INCOMING FEDERA 773% DEMAND FACTOR											65 + [[1.732 x	x (125% of HCL + HØ) + 3Ø) x E [1.25 x 7.57 + 26.35 - 7.57]]+ 0] x			
		ENCLOSURE	NEMA - 1	USE: 3-8.0 m	nm2 THHN/TH	IWN, Strander	d, Copper				USE: 100 AT	, INVERSE TIM	1E, 230V, 3P			



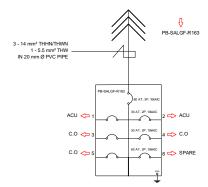
								PB - P	RINCIPAL'S	OFFICE (PO)						
CKT NO.		LOAI	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIR ER WIRE, THHN/		CONDUIT SIZE
	QTY.	Total VA	Description	1			AB	ВС	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	7200	ACU + 6 x CONVENIENCE OUTLET	230	SINGLE	7.20	31.30			30	-	2	2-5 5 mm2 + 2-3 5 mm2 TW	-	1-2.0 mm2 THHN/THWN	-
2	3	195	3 x ORBIT FAN	230	SINGLE	0.20	0.85			20	-	2	2-5.5 mm2 + 2-5.5 mm2 TW	-	1-2.0 mm2 THHN/THWN	-
3	1	1492	ACU	230	SINGLE	1.49			6.49	30	-	2	2-5.5 mm2 TW	-	1-2.0 mm2 THHN/THWN	-
4	10	368	6 x 48" TUBE LIGHT + 4 x LIGHT BULB + 2 x EXHAUST FAN	230	SINGLE	0.37			1.60	15	-	2	2-5.5 mm2 TW	-	1-2.0 mm2 THHN/THWN	
5			SPARE	230	SINGLE	0.00		0.00		30	-	2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	
6	1	3000	ACU	230	SINGLE	3.00		13.04		30	-	2	2-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
		тот	AL CURRENT IN EACH PHASE (AMP				32.15	13.04	8.09							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DE	TAILS				40		3		-		
TOTA	L CURRENT	N AMPERES	53.28	SIZE OF INC		DER AT 73%	DEMAND FA	CTOR			SIZE OF FEE	DER PROTEC	CTION AT 73% DEMAND FACTO	R		
тота	L CONNECTI	ED LOAD VA	12255	IC = 1.25 x 1	3.04 + [[1.732		FHCNL + HØ) 7 + 32.15 - 5.3				IP = 2.5 x 13	.04 + [[1.732	x (125% of HCL + HØ) + 3Ø) x D x [1.25 x 5.37 + 32.15 - 5.37]]+ 0]			
	- 1	ENCLOSURE	NEMA - 1	USE: 3-8.0 m	mperes m2 THHN/TI	HWN, Strande	d, Copper				IP = 79 Am USE: 40 AT,	INVERSE TIM	E, 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 cooles of sale	DON SIMPLICIO A. LIZARES BUILDING 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	DESCRIPTION	
			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:		-





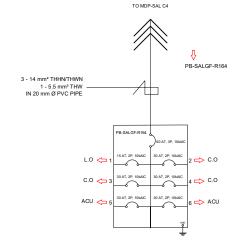
								PB - RI	EGISTRAR'S	OFFICE (RO)						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	E TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRCUI ER WIRE, THHN/THV		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	10	168	8 x FLUORESCENT LIGHT + 2 x LIGHT BULB	230	SINGLE	0.17	0.73			15	-	2	2-3.5 mm2 THHN/THWN	-	-	-
2	20	9439	20 x CONVENIENCE OUTLET	230	SINGLE	9.44	41.04			20	-	2	2-3.5 mm2 THHN/THWN	-		-
3	4	260	4 x ORBIT FAN	230	SINGLE	0.26			1.13	20	-	2	2-3.5 mm2 THHN/THWN	-		-
4	1	3000	ACU	230	SINGLE	3.00			13.04	30	-	2	2-5.5 mm2 THHN/THWN	-	-	-
		TOTA	AL CURRENT IN EACH PHASE (AME	PERES)			41.77	0.00	14.17							
			INCOMING FEEDER CONDU	JCTOR & PRO	TECTION DE	TAILS				30	-	3	3-8.0 mm2 THHN/THWN	-		
тота	L CURRENT I	N AMPERES	55.94	SIZE OF INC	OMING FEED								CTION AT 73% DEMAND FACTO			
тота	TAL CURRENT IN AMPERES 55.94 COMPUTATIONS: SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + H0)+ 30) x DF IC = 125 x 13.04 + [11.732 x (125 x 40.55 + 41.77 - 40.55]] + 0] x 0.80 IC = 88.22 Amperes Amp											.04 + [[1.732	x (125% of HCL + HØ) + 3Ø) x [x [1.25 x 40.55 + 41.77 - 40.55]]+			
		ENCLOSURE	NEMA - 1	USE: 3-8.0 m	nm2 THHN/TH	HWN, Strande	d, Copper				USE: 30 AT,	INVERSE TIME	E, 230V, 3P			



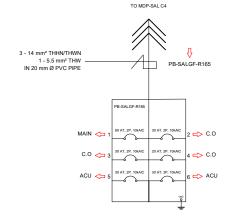
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									PB-SAL-R1	63						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP			TIME DELAY	CIRCUIT		DER BRANCH CIR PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	1492	ACU	230	SINGLE	1.49	6.49			20	-	2	2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	
2	1	1492	ACU	230	SINGLE	1.49	6.49			30	-	2	2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	
3	8	180	8 x CONVENIENCE OUTLET	230	SINGLE	0.18			0.78	40	-	2	2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	
4	8	1600	8 x CONVENIENCE OUTLET	230	SINGLE	1.60			6.96	30	-	2	2-5.5 mm2 + 2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	
5	12	2320	12 x CONVENIENCE OUTLET	230	SINGLE	2.32		10.09		40	-	2	2-5.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	
6			SPARE	230	SINGLE	0.00		0.00		60	-	2	2-5.5 mm2 + 2-3.5 mm2 THHN/THWN	-	1-3.5 mm2 THHN/THWN	
		TOT	AL CURRENT IN EACH PHASE (AMP	ERES)			12.97	10.09	7.74				·		1-3.5 mm2 THHN/THWN	
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DE	TAILS				60		3	3-14 mm2 THHN/THWN		· ·	
тота	CURRENT I	N AMPERES	30.80	SIZE OF INC	ONS: OMING FEED	DER AT 73% [DEMAND FA	CTOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	R		
				IC = 125% o	f HML + (1.73	12 x (125% of	HCNL + HØ)	+ 3Ø) x DF			IP = 250% H	ML + (1.732	x (125% of HCL + HØ) + 3Ø) x D)F		
TOTA	L CONNECTE	D LOAD VA	7084	IC = 1.25 x 6.	.49 + [[1.732	(1.25 x 1.49	+ 12.97 - 1.49	08.0 x [0 +[[6			IP = 2.5 x 6.4	9 + [[1.732 x	[1.25 x 1.49 + 12.97 - 1.49]] + 0] x	0.80		
				IC = 26.6 Ar	nperes						IP = 34.71 A	Amperes				
	ı	ENCLOSURE	NEMA - 1	USE: 3-14 m	m2 THHN/TH	WN, Stranded	d, Copper				USE: 60 AT,	INVERSE TIME	E, 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	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		EE481 EEK2414 CAPSTONE 1	1	DRAFTED BY: RAS OBISO	BIDDING			_
			person to duplicate or to make copies of said	SCHEDULE OF LOADS		1	APPROVED BY:	BUILDING PERMIT			_
			documents for use in the repetition of and for other projects of building, wether executed partly in whole,			1		CONSTRUCTION			_ '
			without the written consent of architect or author of said	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				ESTIMATE			' ا
			documents.					FABRICATION	PROJECT CODE:		

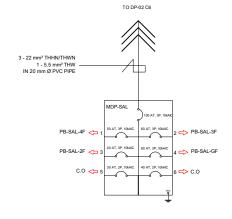


									PB-SAL-R1	64						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	E TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRCUIT PER WIRE, THHN/THW		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	12	480	12 x 48" TUBE LIGHT	230	SINGLE	0.48	2.09			15	-	2	2-5.5 mm2 THHN/THWN	-		-
2	8	1440	8 x CONVENIENCE OUTLET	230	SINGLE	1.44	6.26			30	-	2	2-5.5 mm2 THHN/THWN	-	-	-
3	9	1620	9 x CONVENIENCE OUTLET	230	SINGLE	1.62			7.04	30	-	2	2-5.5 mm2 THHN/THWN	-		-
4	13	1417	13 x CONVENIENCE OUTLET	230	SINGLE	1.42			6.16	30	-	2	2-5.5 mm2 THHN/THWN	-	-	-
5	1	1492	ACU	230	SINGLE	1.49		6.49		30	-	2	2-5.5 mm2 THHN/THWN	-		-
6	1	1492	ACU	230	230 SINGLE 1.49 6.49 230 SINGLE 1.49 6.49					30	-	2	2-5.5 mm2 THHN/THWN	-		-
		тоти	AL CURRENT IN EACH PHASE (AME				8.35	12.97	13.20							
			INCOMING FEEDER CONDU	JCTOR & PRO	TECTION DE	TAILS				60	-	3	3-14 mm2 THHN/THWN	-		-
TOTAL	CURRENT	IN AMPERES	34.53			DER AT 73%	DEMAND FA	CTOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO)R		
TOTAL	COMPUTATIONS SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + H0)+ 30) x DF IC = 125 x 6.49 + [[1.732 x (125 x 6.09 + 13.20 - 2.09]] + 0] x 0.80 IC = 27.13 Amperes IC											19 + [[1.732 x	x (125% of HCL + HØ) + 3Ø) x [[1.25 x 2.09 + 13.20 - 2.09]] + 0] x			
		ENCLOSURE	NEMA - 1	USE: 3-14 m	m2 THHN/TH	WN, Stranded	d, Copper				USE: 60 AT,	INVERSE TIMI	E, 230V, 3P			

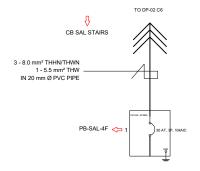


									PB-SAL-R1	65						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	E TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRCUIT PER WIRE, THHN/THV		CONDUIT SIZE
Ī	QTY.	Total VA	Description	1			AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	9	1620	9 x CONVENIENCE OUTLET	230	SINGLE	1.62	7.04			30	-	2	2-5.5 mm2 THHN/THWN	-		-
2	11	1980	11 x CONVENIENCE OUTLET	230	SINGLE	1.98	8.61			30	-	2	2-5.5 mm2 THHN/THWN	-		-
3	9	1800	9 x CONVENIENCE OUTLET	230	SINGLE	1.80			7.83	20		2	2-3.5 mm2 THHN/THWN	-		-
4	1	1492	ACU	230	SINGLE	1.49			6.49	30	-	2	2-3.5 mm2 THHN/THWN	-		-
5	1	1492 ACU 230 SINGLE 1.49 6.49										2	2-5.5 mm2 THHN/THWN	-		-
		TOTA	AL CURRENT IN EACH PHASE (AMF				15.65	6.49	14.31							
			INCOMING FEEDER CONDU	ICTOR & PRO	TECTION DE	TAILS				60	-	3	3-14 mm2 THHN/THWN	-		-
TOTAL	CURRENT	IN AMPERES	36.45	SIZE OF INC	ONS: OMING FEED	DER AT 73%	DEMAND FA	CTOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO)R		
TOTAL	L CONNECT	ED LOAD VA	8384		f HML + (1.73 .49 + [[1.732 > \mperes							19 + [[1.732 x	x (125% of HCL + HØ) + 3Ø) x [[1.25 x 1.48 + 15.65 - 1.48]] + 0] x			
	-	ENCLOSURE	NEMA - 1	USE: 3-14 m	m2 THHN/TH	WN, Stranded	d, Copper				USE: 60 AT,	INVERSE TIME	E, 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				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	SCHEDULE OF LOADS		I .	APPROVED BY:	BUILDING PERMIT		
			documents for use in the repetition of and for other projects of building, wether executed partly in whole,				APPROVED BT:	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:	

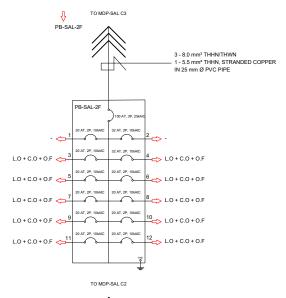


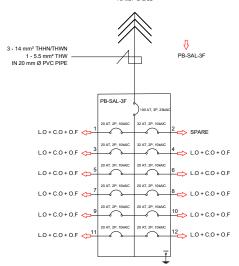
									MDP SAI							
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMP	ERES	INVERS	TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIR ER WIRE, THHN/		CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	15516	PB-SAL-4F	230	THREE	15.52	0.00	12.00	24.96	50	-	3	3-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	
2	1	12602	PB-SAL-3F	230	THREE	12.60	17.27	15.00	22.51	60	-	3	3-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
3	1	21818	PB-SAL-2F	230	THREE	21.82	27.58	24.45	42.83	40	-	3	3-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
4	1	9710	PB-SAL-GF + 2 x ORBIT FAN + 6 x CONVENIENCE OUTLET	230	THREE	9.71	0.00	12.00	31.79	60	-	3	3-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
5	3	540	3 x CONVENCIENCE OUTLET	230	SINGLE	0.54		2.35		30	-	2	2 x 2-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
6	2	360	2 x CONVENIENCE OUTLET	230	SINGLE	0.36		1.57		40		2	2-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
		тот	AL CURRENT IN EACH PHASE (AMP	ERES)			44.85	67.36	122.09							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DE	TAILS				100	-	3	3-22 mm2 THW	-		-
TOTA	L CURRENT I	IN AMPERES	234.30	SIZE OF INC		ER AT 73% I	DEMAND FA	CTOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	R		
тота	OTAL CURRENT IN AMPRES 234.30 SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR IC = 125% of HML + (1.732 x (125% of HCNL + H0)+30) x DF IC = 125 x 12 + [[1.732 x (125 x 111.13 + 65.30 - 111.13]] + 0) x D; IC = 132.69 Ampres											+ [[1.732 x [1	x (125% of HCL + HØ) + 3Ø) x D 1.25 x 111.13 + 65.30 - 111.13]]+ I			
	-	ENCLOSURE	NEMA - 1		m2 THW, Stra	nded, Copper					USE: 100 AT,		IE, 230V, 3P			



									CB-SAL-ST/	AIRS						
		LOAD	DESCRIPTIONS				CII	RRENT AMP	FRES	INVERS	TIME DELAY	CIRCUIT		DER BRANCH CIRC		
CKT NO.		LOND	DESCRIT HORS	VOLTS	PHASE	kVA			LINES		BREAKER		COPI	PER WIRE, THHN/T	HWN	CONDUIT SIZE
	QTY.	Total VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	42	1815	14 x 24" TUBE LIGHT + 13 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x LED STRIP LIGHT + 7 x LIGHT BULB	230	SINGLE	1.82	7.89			30	-	3	2-5.5 mm2 + 2-3.5 mm2 THHN/THWN	-	-	32 mmØ PVC PIPE
		тоти	+ 15 x DOWNLIGHT AL CURRENT IN EACH PHASE (AMP	ERES)			7.89	0.00	0.00							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DE	TAILS				30		3	3-8.0 mm2 THHN/THWN	-		
TOTA	. CURRENT I	N AMPERES		COMPUTATI	ONS:	DER AT 73%	DEMAND FA	CTOR		•	SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	DR .		
тота	L CONNECTE	D LOAD VA	1815		f HML + (1.7: 28 + [[1.732: Amperes							8 + [[1.732 x	x (125% of HCL + HØ) + 3Ø) x I [1.25 x 5.78 + 7.89 - 5.78]] + 0] x			
		NCLOSURE	NEMA - 1	USE: 3-8.0 m	nm2 THHN/TH	HWN, Strande	d, Copper				USE: 30 AT,	INVERSE TIMI	E, 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	DON SIMPLICIO A. LIZARES BUILDING			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	SCHEDULE OF LOADS	EE481 EEK2414 CAPSTONE 1		DRAFTED BY: RAS OBISO	BIDDING		⊣ '
			person to duplicate or to make copies of said				APPROVED BY:	BUILDING PERMIT		⊣ '
			documents for use in the repetition of and for other projects of building, wether executed partly in whole,					CONSTRUCTION		⊣ ′
			without the written consent of architect or author of said	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				ESTIMATE		⊣ ′
			documents.					FABRICATION	PROJECT CODE:	

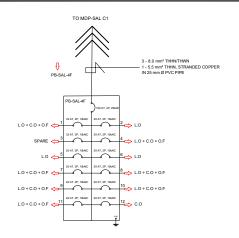




								PB	-SAL-2F							
		LOAI	DESCRIPTIONS				cu	RRENT AMPE	RES	INVERSE	E TIME DELAY	CIRCUIT		R BRANCH CIRCUIT		1
CKT NO.				VOLTS	PHASE	kVA	AR				BREAKER	POLE		WIRE, THHN/THW		CONDUIT SIZE
	QTY.	Unit VA	Description	230	SINGLE	0.00	0.00	BC	CA	AT 20	AF		PHASE	NEUTRAL	EGC	
2			NO LOAD	230	SINGLE	0.00	0.00	_		32	-	2	2-3.5 mm2 THW		-	_
2			NO LOAD	230	SINGLE	0.00	0.00			32	-	2	2-3.5 mm2 THW	-	-	-
3	22	2213	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 10 x CONVENIENCE OUTLET	230	SINGLE	2.21			9.62	20	-	2	2-5.5 mm2 THHN/THWN	-	=	-
4	30	3401	6 x 48" TUBE LIGHT + 3 x 24" TUBE LIGHT + 5 x ORBIT FAN + 15 x CONVENIENCE OUTLET	230	SINGLE	3.40			14.79	32	-	2	2-5.5 mm2 THHN/THWN	-	-	-
5	19	1912	3 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x LIGHT BULB + 8 x CONVENIENCE OUTLET	230	SINGLE	1.91		8.31		20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
6	15	1445	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 4 x CONVENIENCE OUTLET	230	SINGLE	1.45		6.28		20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
7	29	2871	7 x 48" TUBE LIGHT + 3 x 24" TUBE LIGHT + 5 x ORBIT FAN + 2 x LIGHT BULB + 11 x CONVENIENCE OUTLET	230	SINGLE	2.87	12.48			20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
8	28	3473	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 16 x CONVENIENCE OUTLET	230	SINGLE	3.47	15.10			20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
9	29	2825	9 x 48" TUBE LIGHT + 2 x LIGHT BULB + 5 x ORBIT FAN + 12 x CONVENIENCE OUTLET	230	SINGLE	2.83			12.28	20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
10	21	1162	8 x 48" TUBE LIGHT + 4 x 24" TUBE LIGHT + 1 x LIGHT BULB + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.16			5.05	20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
11	16	1313	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 4 x CONVENIENCE OUTLET	230	SINGLE	1.31		5.71		20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
12	14	953	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 2 x CONVENIENCE OUTLET	230	SINGLE	0.95		4.14		20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
		T01	AL CURRENT IN EACH PHASE (AMPE				27.58	24.45	41.74							
			INCOMING FEEDER CONDU			AILS				100	-	3	3-14 mm2 THHN/THWN	-	-	-
тоти	AL CURRENT	IN AMPERES	93.77	SIZE OF INC	ONS: OMING FEEDI	ER AT 73% D	EMAND FAC	ror					TON AT 73% DEMAND FACTOR			
тот	AL CONNEC	ED LOAD VA	21568		HML + (1.732 5.10 + [[1.732 : mperes							.1 + [[1.732 × [(125% of HCL + HØ) + 3Ø) x DF 1.25 x 21.8 + 41.74 - 21.8]]+ 0] x 0			
		ENCLOSURE	NEMA - 1	USE: 3-14 mr	n2 THHN/THV	/N, Stranded,	Copper				USE: 100 AT,	INVERSE TIME	E, 230V, 3P			

									PB-SAL-3F							
		LOAI	D DESCRIPTIONS				cu	RRENT AMP	RES	INVERS	E TIME DELAY	CIRCUIT		DER BRANCH CIRC		
CKT NO.	OTY.			VOLTS	PHASE	kVA	ΔR	BC.		AT	BREAKER		PHASE	PER WIRE, THHN/T	HWN FGC	CONDUIT SIZE
	QIY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	21	1707	9 x 48" TUBE LIGHT + 5 x ORBIT FAN + 5 x CONVENIENCE OUTLET	230	SINGLE	1.71	7.42			20	-	2	2 - 0.75 mm2 TYPE-SP7-1 + 2 - 5.5 mm2 THW	-	-	-
2			SPARE	230	SINGLE	0.00	0.00			32	-	2		-	-	-
3	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13			4.93	20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
4	25	1779	13 x 48" TUBE LIGHT + 5 x ORBIT FAN + 5 x CONVENIENCE OUTLET	230	SINGLE	1.78			7.73	32	-	2	2-5.5 mm2 THHN/THWN	-	-	-
5	15	1113	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 2 x CONVENIENCE OUTLET	230	SINGLE	1.11		4.84		20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
6	6	216	6 x 24" TUBE LIGHT	230	SINGLE	0.22		0.94		20	-	2	2-5.5 mm2 THHN/THWN	-		-
7	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13	4.93			20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
8	13	1133	6 x 48" TUBE LIGHT + 3 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13	4.93			20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
9	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13			4.93	20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
10	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13			4.93	20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
11	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13		4.93		20	-	2	2-5.5 mm2 THHN/THWN	-	=	-
12	19	989	6 x 48" TUBE LIGHT + 6 x 24" TUBE LIGHT + 5 x ORBIT FAN + 1 x CONVENIENCE OUTLET	230	SINGLE	0.99		4.30		20	-	2	2-5.5 mm2 THHN/THWN	=	-	-
		TOT	TAL CURRENT IN EACH PHASE (AMP				17.27	15.00	22.51							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	AILS				100	-	3	3-14 mm2 THHN/THWN	-	-	
TOTA	AL CURRENT	IN AMPEDES	54.79	COMPUTATIO												
1017	AL CONKENT	AMPERES			OMING FEEDE								TION AT 73% DEMAND FACTOR			
	IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) TOTAL CONNECTED LOAD VA 12602 IC = 1.25 x 7.73 + [[1.732 x [1.25 x 27.04 + 22.51 - 27.04]]+												(125% of HCL + HØ) + 3Ø) x DF			
TOT	AL CONNECT	ED LOAD VA	12602			[1.25 x 27.04	+ 22.51 - 27.0	4jj+ Uj x 0.8					[1.25 x 27.04 + 22.51 - 27.04]]+ 0]	x U.8		
											IP = 59.88A	•				
	IC = 50.22 Amperes ENCLOSURE NEMA - 1 USE: 3-14 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	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	DON SIMPLICIO A LIZARES BUILDING			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	SCHEDIII E OE LOADS	EE481 EEK2414 CAPSTONE 1		DRAFTED BY: RAS OBISO	BIDDING BUILDING PERMIT			- I
			person to duplicate or to make copies of said documents for use in the repetition of and for other				APPROVED BY:	CONSTRUCTION			- I
			projects of building, wether executed partly in whole,			-		□ ESTIMATE			1 1
			documents.	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				FABRICATION	PROJECT CODE:		1



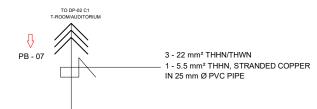
TO MDP-DNY C2

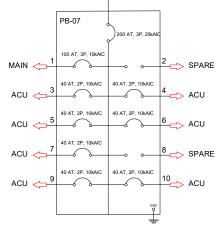
3 - 38 mm* THEN/THINN 1 - 2.0 mm* THEN, STRAN/ED COPPER IN 65 mm Ø PVC PIPE	E	ASEMENT
PB	3-BMT)150 AT, 3P, 108AC	
L.O + C.O 🔁	F, 29, 106AIC 20 AT, 39, 106AIC 2	.0 + C.0
L.O + C.O (3) 20AT	F, 2P, 10bAIC 20 AT, 2P, 10bAIC 4 L	.0
L.O 🚓 5	F, 2P, 198AC 29 AT, 2P, 198AC 6 L	.0
L.O 💝 7	F, 2P, 106AIC 20 AT, 3P, 106AIC 8 L	.0
- 🗢 🖰	F, 2P, 10AC 20 AT, 2P, 10AAC 10	
- 11		PARE
- 13	T, 2P, 10AC 20 AT, 2P, 10AC 40	
- <- 15	20 AT, 2P, 10MAC 18	_
SPARE 17 20A1	F, 29, 10MAC 20 AT, 39, 10MAC 20	.0
	F, 2P, 10kAC 20 AT, 2P, 10kAC 22	
C.O 23 30 AT	F, 2P, 108AIC 30 AT, 2P, 108AIC 24 S	PARE

									PB-SAL-4F							
		104	D DESCRIPTIONS				CII	RRENT AMP	nec	INVERS	E TIME DELAY	CIRCUIT	FEE	DER BRANCH CIRC	UIT	
CKT NO.				VOLTS	PHASE	kVA					BREAKER		COP	PER WIRE, THHN/T		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	97	7220	22 x 48" TUBE LIGHT + 34 x 24" TUBE LIGHT + 10 x ORBIT FAN + 29 x CONVENIENCE OUTLET	230	SINGLE	7.22	31.39			32	-	2	2-8.0 mm2 THW	-	-	-
2	12	440	2 x 48" TUBE LIGHT + 10 x 24" TUBE LIGHT	230	SINGLE	0.44	1.91			20	-	2	2-3.5 mm2 THW	-	-	-
3			SPARE	230	SINGLE	0.00			0.00	32	-	2	2-5.5 mm2 THHN/THWN	-	-	-
4	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13			4.93	20	-	2	2-3.5 mm2 THW	-	-	-
5	5	200	5 x 48° TUBE LIGHT	230	SINGLE	0.20		0.87		20	-	2	2-3.5 mm2 THW		-	-
6	5	180	5 x 24" TUBE LIGHT	230	SINGLE	0.18		0.78		20	-	2	2-5.5 mm2 THW		-	-
7	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13	4.93			20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
8	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13	4.93			20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
9	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13			4.93	20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
10	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13			4.93	20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
11	15	1133	6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET	230	SINGLE	1.13		4.93		20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
12	4	700	3 x CONVENIENCE OUTLET	230	SINGLE	0.70		3.04		20	-	2	2-5.5 mm2 THHN/THWN	-	-	-
		TO	TAL CURRENT IN EACH PHASE (AMPI				43.16	9.62	14.78							
			INCOMING FEEDER CONDU			AILS				125	-	3	3-14 mm2 THHN/THWN	-	-	
тоти	L CURRENT	IN AMPERES	67.56	COMPUTATIO		TD 47 730/ DI	******	00			lear or err	OFF PROTECT	ION AT 73% DEMAND FACTOR			
	SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR												10N AT 73% DEMAND FACTOR (125% of HCL + HØ) + 3Ø) x DF			
	IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x (125% of HCNL + HØ)+												[125% of HCL + HØ) + 3Ø) x DF [1.25 x 26.73 + 43.16 - 26.73]]+ 0]			
101	TOTAL CONNECTED LOAD VA 15538 IC = 1.25 x 2.83 + [[1.732 x [1.25 x 26.73 + 43.16 - 26.73]] + 0] x 0										IP = 76.14 A		[1.23 x 20.73 + 43.10 - 20.73]]+ U]	x 0.00		
		ENCLOSURE		-	2 THHN/THW	/N, Stranded,	Copper				USE: 125 AT,		, 230V, 3P			

								PE	- BASEMEN							
								RRENT AMPE		INVERS	E TIME DELAY	CIRCUIT	FEE	DER BRANCH CIRC	CUIT	
CKT NO.		LOAL	D DESCRIPTIONS	VOLTS	PHASE	kVA	CU CU	KKENI AMPE	KES		BREAKER		COPE	ER WIRE, THHN/I	THWN	CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	1
1	14	574	13 x 48" TUBE LIGHT+ 1 x CONVENIENCE OUTLET	230	SINGLE	0.57	2.50			20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
2	21	1184	18 x 48" TUBE LIGHT + 3 x CONVENIENCE OUTLET	230	SINGLE	1.18	5.15			20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
3	18	535	10 x 48" TUBE LIGHT + 7 x HANGING LIGHT + 1 x CONVENIENCE OUTLET	230	SINGLE	0.54			2.33	20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
4	1	18	1 x 48" TUBE LIGHT	230	SINGLE	0.02			0.08	20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
5	26	468	26 x 48" TUBE LIGHT	230	SINGLE	0.47		2.03		20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
6	18	270	9 x 48" TUBE LIGHT + 9 x LIGHT BULB	230	SINGLE	0.27		1.17		20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
7	18	324	18 x 48" TUBE LIGHT	230	SINGLE	0.32	1.41			20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
8	26	504	26 x 48" TUBE LIGHT	230	SINGLE	0.50	2.19			20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
9			NO-LOAD	230	SINGLE	0.00			0.00	20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
10			NO-LOAD	230	SINGLE	0.00			0.00	20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
11			NO-LOAD	230	SINGLE	0.00		0.00		30		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
12			SPARE	230	SINGLE	0.00		0.00		30		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
13			NO-LOAD	230	SINGLE	0.00	0.00			30		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
14			NO-LOAD	230	SINGLE	0.00	0.00			30		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
15			NO-LOAD	230	SINGLE	0.00			0.00	30		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
16			NO-LOAD	230	SINGLE	0.00			0.00	20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
17			SPARE	230	SINGLE	0.00		0.00				2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
18	3	540	3 x CONVENIENCE OUTLET	230	SINGLE	0.54		0.00		20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
19	47	5885	20 x 48° TUBE LIGHT + 10 x LIGHT BULB + 17 x CONVENIENCE OUTLET	230	SINGLE	5.89	25.59			20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
20			NO-LOAD	230	SINGLE	0.00	0.00			20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
21			NO-LOAD	230	SINGLE	0.00			0.00	20		2	2-3.5 mm2 THHN/THWN	-		-
22			NO-LOAD	230	SINGLE	0.00			0.00	20		2	2-3.5 mm2 THHN/THWN	-		-
23	12	2640	12 x CONVENIENCE OUTLET	230	SINGLE	2.64		11.48		20		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
24			SPARE	230	SINGLE	0.00		0.00		30		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
		TOT	AL CURRENT IN EACH PHASE (AMPE	RES)			36.83	14.69	2.40							
			INCOMING FEEDER CONDUC	CTOR & PROT	TECTION DET	AILS				150		3	3-38 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
тотл	L CURRENT	IN AMPERES		SIZE OF INCO		ER AT 73% D	EMAND FAC	FOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTOR			
C = 125% of HML + (1/32 x (125% of HCL + HØ) + 3Ø) x DF P = 250% HML + (1/32 x (125% of HCL + HØ) + 3Ø) x DF TOTAL CONNECTED LOAD VA 12942 (= 1.25 x 27.17 + 1/32 x 1.25 x 67.44 + 36.83 - 67.44 + 0) x 0.8 P = 2.5 x 27.17 + 1/32 x 1.25 x 67.44 + 36.83 - 67.44 + 0) x 0.8 C = 10.53 A Amperes P = 138.37 Amperes																
		ENCLOSURE	NEMA - 1	USE: 3-38 mn	n2 THHN/THV	/N, 1-2.0 mm	2, Stranded, C	opper			USE: 150 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	DON SIMPLICIO A. LIZARES BUILDING			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			J 1
			person to duplicate or to make copies of said	SCHEDULE OF LOADS			APPROVED BY:	BUILDING PERMIT			1 I
			documents for use in the repetition of and for other projects of building, wether executed partly in whole,				AFFROVED BT:	CONSTRUCTION			J 1
			without the written consent of architect or author of said	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		1		ESTIMATE			J I
			documents.	ECCATION. CEBO INSTITUTE OF TECHNOLOGY - UNIVERSITY				FABRICATION	PROJECT CODE:		





									PB-07							
		LOAI	D DESCRIPTIONS				cu	RRENT AMP	RES	INVERS	E TIME DELAY	CIRCUIT		DER BRANCH CIRC		
CKT NO.				VOLTS	PHASE	kVA					BREAKER		COPI	PER WIRE, THHN/T	HWN	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			100		3	2-8.0 mm2 + 2-5.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
2			SPARE	230	SINGLE	0.00	0.00			40		2		-		-
3	1	3500	ACU-LINK-275	230	SINGLE	3.50			15.22	40		2	2-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
4	1	3500	ACU-LINK-274	230	SINGLE	3.50			15.22	40		2	2-3.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
5	1	3500	ACU-LINK-273	230	SINGLE	3.50		15.22		40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
6	1	3500	ACU-LINK-275	230	SINGLE	3.50		15.22		40		2	1-5.5 mm2 1-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
7	1	3500	ACU-LINK-274	230	SINGLE	3.50	15.22			40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
8			SPARE	230	SINGLE	0.00	0.00			40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
9	1	3500	ACU-LINK-273	230	SINGLE	3.50			15.22	40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
10	1	3500	ACU-LINK-276	230	SINGLE	3.50			15.22							
11	1	3500	ACU-LINK-GF	230	SINGLE	3.50		15.22		40			2-8.0 mm2 THHN/THWN		1-2.0 mm2 THHN/THWN	
12	1	3500	ACU-LINK-GF	230	SINGLE	3.50		15.22		40		2	2-5.5 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
		TO	TAL CURRENT IN EACH PHASE (AMI				30.43	60.87	60.87							
			INCOMING FEEDER COND	UCTOR & PRO	TECTION DET	AILS				200		3	3-22 mm2 THHN/THWN	-		-
TOTAL CUR	ENT IN AME	DEDEC	152.17	COMPUTATIO												
TOTAL COIL	OTAL CURRENT IN AMPERES 152.17 SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR												TION AT 73% DEMAND FACTOR			
	IC = 125% of HML + (1.732 × (125% of HCNL + HØ)+ 3Ø) x DF												(125% of HCL + HØ) + 3Ø) x DF			
TOTAL	ITAL CONNECTED LOAD VA 35000 C = 1.25 x 15.22 + [[1.732 x [1.25 x 0 + 60.87 - 0]] + 0] x 0.80												2 x [1.25 x 0 + 60.87 - 0]]+ 0] x 0.80			
				IC = 103.37	Amperes						IP = 122.39	Amperes				
	ENCLOSURE	l .	NEMA - 1	USE: 3-22 mm	n2 THHN/THW	/N, 1-2.0 mmi	, Stranded, Co	opper			USE: 200 AT,	INVERSE TIME	E, 230V, 3P			

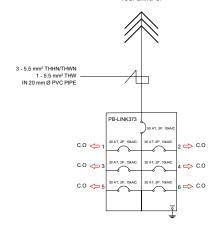
DP-L	INK-3F			
	,	100 AT, 3P, 10kAIC		
PB - LINK 373 🗘 1	P, 10kAIC 6	30 AT, 3P, 10kAIC	2 ➪	PB - LINK 374
PB - LINK 375 😂 3	P, 10kAIC 6	50 AT, 3P, 10kAIC	4 ➪	PB - LINK 376
		GND O		

TO MDP-DNY

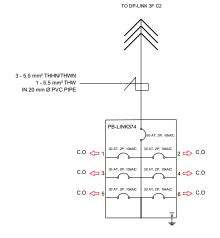
								-	DP-LINK-3F							
		LOAD	DESCRIPTIONS				CII	RRENT AMPI	DEC	INVERSE	E TIME DELAY	CIRCUIT		DER BRANCH CIRC		
CKT NO.		LOAD	DESCRIT HORS	VOLTS	PHASE	kVA			INLO		BREAKER		COPF	ER WIRE, THHN/T	HWN	CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	23520	PB - LINK3F - R373	230	SINGLE	23.52	31.30	37.57	33.39	60	-	2	2-5.5 mm2 THHN/THWN	-	-	-
2	1	23520	PB - LINK3F - R374	230	SINGLE	23.52	25.22	37.57	33.39	60	-	2	2-5.5 mm2 THHN/THWN	-	-	-
3	3 1 23520 PB - LINKSF - R375 230 SINGLE 23.52 31.30 37.57								33.39	60	-	2	2-5.5 mm2 THHN/THWN	-	-	-
4	4 1 23520 PB - LINK3F - R376 230 SINGLE 23.52 31.30 37.57								33.39	60	-	2	2-5.5 mm2 THHN/THWN	-	-	-
	TOTAL CURRENT IN EACH PHASE (AMPERES) 119.12 150.28 133.56															
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DE	TAILS				100	-	3	3-30 mm2 THHN/THWN	-		-
TOTA	CUDDENT	IN AMPERES	402.96	COMPUTATION	ONS:											
1017	E CORREIVI	IIV AUVIPERES	402.30	SIZE OF INC	OMING FEED	ER AT 73% E	DEMAND FAC	TOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	R		
				IC = 125% of									(125% of HCL + HØ) + 3Ø) x D			
TOTA	AL CONNECT	TED LOAD VA	94080	IC = 1.25 x 3	7.57 + [[1.732	x [1.25 x 153]	.39 + 150.28 -	153.39]]+ 0]:	k 0.8		IP = 2.5 x 37	57 + [[1.732)	([1.25 x 153.39 + 150.28 - 153.39	η) + 0) x 0.8		
	IC = 132.69 Amperes										IP = 147.69	Amperes				
		ENCLOSURE	NEMA - 1	USE: 3-30 mi	n2 THHN/THV	WN, Stranded	l, Copper				USE: 100 AT,	INVERSE TIM	IE, 230V, 3P			

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			Drawing and specification and other contract				DATE DRAFTED: 09-04-2024	OWNER'S APPROVAL	NO. DATE DESCRIP	TION
			documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of	DON SIMPLICIO A LIZARES BUILDING			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 BUILDING PERMIT		
			person to duplicate or to make copies of said documents for use in the repetition of and for other	d			APPROVED BY:	CONSTRUCTION		
			projects of building, wether executed partly in whole,	<u> </u>		-		□ ESTIMATE		
			documents.	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				FABRICATION	PROJECT CODE:	



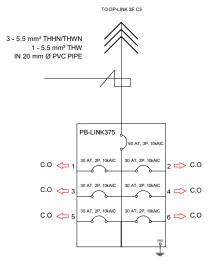


								PB -	LINK3F - R3	73						
		LOAD	DESCRIPTIONS				cu	RRENT AMPE	RES	INVERS	TIME DELAY	CIRCUIT		DER BRANCH CIRC		
CKT NO.				VOLTS	PHASE	kVA					BREAKER			PER WIRE, THHN/1		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3360	7 x CONVENIENCE OUTLET	230	SINGLE	3.36	14.61			30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			30		2	2-3.5 mm2 THHN/THWN	-	-	-
3	8 3840 8 x CONVENIENCE OUTLET 230 SINGLE 3.84									30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
4	8 3840 8 x CONVENIENCE OUTLET 230 SINGLE 3.84								16.70	30		2	2-3.5 mm2 THHN/THWN	-	-	-
5	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84		16.70		30	-	2	2-3.5 mm2 THHN/THWN	-		-
6	10 4800 10 x CONVENIENCE OUTLET 230 SIN					4.80		20.87		30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
		тот	AL CURRENT IN EACH PHASE (AMF	PERES)			31.30	37.57	33.39							-
			INCOMING FEEDER COND	UCTOR & PRO	TECTION DE	TAILS				50	-	3	3-5.5 mm2 THHN/THWN	-	-	-
TOT 4	LCUDDENT	IN AMPERES	102.26	COMPUTATION	ONS:											
IOIA	IL CUKKEN I	IN AWIPERES	102.20	SIZE OF INC	OMING FEED	ER AT 73% I	DEMAND FAC	TOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	R		
				IC = 125% of	HML + (1.73)	2 x (125% of F	HCNL + HØ)-	+ 3Ø) x DF			IP = 250% H	ML + (1.732 >	(125% of HCL + HØ) + 3Ø) x D	F		
TOTA	TOTAL CONNECTED LOAD VA 23520 IC = 1.25 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]] + 0] x 0.8								3		IP = 2.5 x 20	.87 + [[1.732	([1.25 x 38.35 + 37.57 - 38.35]]+	0] x 0.8		
	IC = 91.43 Amperes										IP = 117.52	Amperes				
											USE: 50 AT, I	NVERSE TIME	230V, 3P			



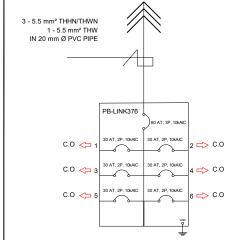
								PB -	LINK3F - R3	74						
		LOAD	DESCRIPTIONS				cu	RRENT AMPE	RES	INVERS	TIME DELAY	CIRCUIT		DER BRANCH CIRC		
CKT NO.				VOLTS	PHASE	kVA					BREAKER		COPP	ER WIRE, THHN/T	HWN	CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3360	7 x CONVENIENCE OUTLET	230	SINGLE	3.36	14.61			30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
4	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
5	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84		16.70		30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
6	10	4800	10 x CONVENIENCE OUTLET	230	SINGLE	4.80		20.87		30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
		TOTA	AL CURRENT IN EACH PHASE (AMP	PERES)			31.30	37.57	33.39						-	-
			INCOMING FEEDER COND	UCTOR & PRO	TECTION DET	TAILS				60	-	3	3-5.5 mm2 THHN/THWN	-	-	-
TOT4	LI CURRENT	IN AMPERES	102.26	COMPUTATI	ONS:											
1012	AL CURRENT	IN AMPERES	102.20	SIZE OF INC	OMING FEED	DER AT 73% I	DEMAND FAC	TOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	R		
				IC = 125% o	HML + (1,732	2 x (125% of I	HCNL + HØ)+	3Ø) x DF			IP = 250% H	ML + (1.732 x	(125% of HCL + HØ) + 3Ø) x D	F		
TOTA	TOTAL CONNECTED LOAD VA 23520 IC = 1.25 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]] + 0]							3.35]]+ 0] x 0.8	3		IP = 2.5 x 20.	.87 + [[1.732	[1.25 x 38.35 + 37.57 - 38.35]]+	0] x 0.8		
	IC = 91.43 Amperes										IP = 117.52	Amperes				
		C = 91.43 Amperes USE: 3-5.5 mm2 THHN/THWN, Stranded, Copper									USE: 60 AT, I	NVERSE 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				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			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		_ I
			person to duplicate or to make copies of said	SCHEDULE OF LOADS			APPROVED BY:	BUILDING PERMIT		ا ا
			documents for use in the repetition of and for other projects of building, wether executed partly in whole,				AT THOTES BY:	CONSTRUCTION		_
			without the written consent of architect or author of said	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		1		ESTIMATE		
			documents.	EGGATION. GEBS INC. IT GET TECHNOLOGY - UNIVERSITY				FABRICATION	PROJECT CODE:	



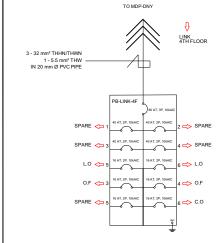
TO DP-LINK 3F C4

								PB -	LINK3F - R3	75						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cui	RRENT AMPE	RES	INVERSI	TIME DELAY	CIRCUIT		DER BRANCH CIRC		CONDUIT SIZE
CK1 110.	QTY.	Unit VA	Description	102.5			AB	ВС	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3360	7 x CONVENIENCE OUTLET	230	SINGLE	3.36	14.61			30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	30	-	2	2-3.5 mm2 THHN/THWN	-		-
4	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	30	-	2	2-3.5 mm2 THHN/THWN	-		-
5	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84		16.70		30	-	2	2-3.5 mm2 THHN/THWN	-		-
6	10	4800	10 x CONVENIENCE OUTLET	230	SINGLE	4.80		20.87		30	-	2	2-3.5 mm2 THHN/THWN	-		-
		TOTA	L CURRENT IN EACH PHASE (AMP	PERES)			31.30	37.57	33.39							-
			INCOMING FEEDER COND	UCTOR & PRO	TECTION DE	TAILS				60	-	3	3-5.5 mm2 THHN/THWN	-	-	-
TOT	I CUPPENT	IN AMPERES	102.26	COMPUTATI	ONS:											
1017	AL CORREINT	III AWIF ERES	102.20	SIZE OF INC	OMING FEED	ER AT 73%	DEMAND FAC	TOR			SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	R		
													(125% of HCL + HØ) + 3Ø) x D			
TOT	IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF TOTAL CONNECTED LOAD VA 23520 IC = 1.25 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8										IP = 2.5 x 20	.87 + [[1.732 >	([1.25 x 38.35 + 37.57 - 38.35]]+	0] x 0.8		
	IC = 91.43 Amperes										IP = 117.52	Amperes				
											USE: 60 AT, I	NVERSE TIME,	230V, 3P			

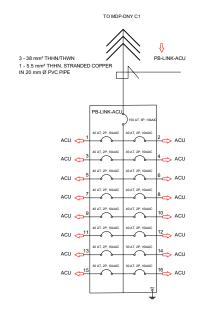


								PB -	· LINK3F - R3	76						
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	CUI	RRENT AMPE	RES	INVERS	TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRC ER WIRE, THHN/T		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	ВС	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	7	3360	7 x CONVENIENCE OUTLET	230	SINGLE	3.36	14.61			30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
2	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84	16.70			30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
3	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
4	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84			16.70	30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
5	8	3840	8 x CONVENIENCE OUTLET	230	SINGLE	3.84		16.70		20	-	2	2-3.5 mm2 THHN/THWN	-	-	-
6	10	4800	10 x CONVENIENCE OUTLET	230	SINGLE	4.80		20.87		30	-	2	2-3.5 mm2 THHN/THWN	-	-	-
		TOTA	L CURRENT IN EACH PHASE (AMI	PERES)			31.30	37.57	33.39							-
			INCOMING FEEDER COND	UCTOR & PRO	TECTION DET	TAILS				60	-	3	3-5.5 mm2 THHN/THWN	-	-	-
TOTA	AL CURRENT	IN AMPEDES	102.26	COMPUTATION	ONS:											
1017	AL CORREIG	III AWI LIKES	102.20				DEMAND FAC						TION AT 73% DEMAND FACTO			
							HCNL + HØ)+						(125% of HCL + HØ) + 3Ø) x D			
TOT	AL CONNECT	ED LOAD VA	23520			x [1.25 x 38.3	35 + 37.57 - 38	3.35]]+ 0] x 0.8	3				([1.25 x 38.35 + 37.57 - 38.35]]+	0] _x 0.8		
				IC = 91.43 A	mperes						IP = 117.52	Amperes				
		ENCLOSURE	NEMA - 1	USE: 3-5.5 m	m2 THHN/TH	WN, Strander	d, Copper				USE: 60 AT, I	NVERSE TIME,	230V, 3P			

CHE	ECKED / 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	DON SIMPLICIO A. LIZARES BUILDING	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO	OWNER'S APPROVAL AS-BUILT BIDDING	NO. DATE DESCRIPTION	
				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,	SCHEDULE OF LOADS			APPROVED BY:	BUILDING PERMIT CONSTRUCTION ESTIMATE		
				documents.					FABRICATION	PROJECT CODE:	

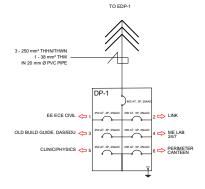


									PB - LINK4F							
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMPI	ERES	INVERS	E TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRCU ER WIRE, THHN/TH		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1			SPARE	230	SINGLE	0.00	0.00			40	-	-	-	-	-	-
2			SPARE	230	SINGLE	0.00	0.00			40	-	-	-	-	-	-
3			SPARE	230	SINGLE	0.00			1.13	40	-	-	-	-		-
4			SPARE	230	SINGLE	0.00			3.39	40	-	-	-	-	-	-
5	6	320	6 x 48" TUBE LIGHT	230	SINGLE	0.32		0.00		16	-	2	2-5.5 mm2 THHN/THWN	-	-	-
6	22	396	22 x 48" TUBE LIGHT	230	SINGLE	0.40		12.96		16	-	2	2-5.5 mm2 THHN/THWN	-	-	-
7	4	260	4 x ORBIT FAN	230	SINGLE	0.26	1.13			16	-	2	2-5.5 mm2 THHN/THWN	-		-
8	12	780	12 x ORBIT FAN	230	SINGLE	0.78	3.39			16	-	2	2-5.5 mm2 THHN/THWN	-	-	
9			SPARE	230	SINGLE	0.00			0.00	16	-	2	-	-	-	-
10	13	2980	13 x CONVENIENCE OUTLET	230	SINGLE	2.98			12.96	16	-	-	2-5.5 mm2 THHN/THWN	-	-	-
		TOTA	L CURRENT IN EACH PHASE (AMI	PERES)			4.52	12.96	17.48					-	-	-
			INCOMING FEEDER COND	UCTOR & PRO	TECTION DET	TAILS				80	-	3	3-32 mm2 THHN/THWN	-	-	-
TOTA	I CHIPDENIT	IN AMPERES	34.96	COMPUTATI	ONS:											
1017	CORREIVI	IIV AIVII EKES	34.50	SIZE OF INC	OMING FEED	ER AT 73% I	DEMAND FAC	TOR					TION AT 73% DEMAND FACTO			
	IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF												(125% of HCL + HØ) + 3Ø) x D			
TOTA	TOTAL CONNECTED LOAD VA 4736 C = 1.25 x 3.39 + [[1.732 x [1.25 x 9.03 + 17.48 - 9.03] + 0] x 0.8												[1.25 x 9.03 + 17.48 - 9.03]+ 0] x	0.8		
	IC = 28.46 Amperes										IP = 32.70 A	Imperes				
		C = 28.46 Amperes USE: 3-32 mm2 THHN/THWN, Stranded, Copper									USE: 80 AT, I	NVERSE TIME	, 230V, 3P			

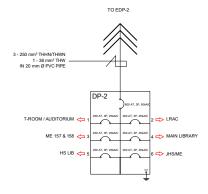


										INVERS	E TIME DELAY	CIRCUIT	FEE	DER BRANCH CIRC	CUIT	
CKT NO.		LOAI	DESCRIPTIONS	VOLTS	PHASE	kVA	l cu	RRENT AMP	RES		BREAKER		СОРІ	PER WIRE, THHN/1	THWN	CONDUIT SI
	QTY.	Unit VA	Description				AB	BC	CA	AT	AF	POLE	PHASE	NEUTRAL	EGC	1
1	1	3500	ACU-3F-374	230	SINGLE	3.50	15.22			40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
2	1	3500	ACU3F-374	230	SINGLE	3.50	15.22			40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
3	1	3500	ACU-3F-375	230	SINGLE	3.50			15.22	40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
4	1	3500	ACU3F-375	230	SINGLE	3.50			15.22	40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
5	1	3500	ACU3F-376	230	SINGLE	3.50		15.22		40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
6	1	3500	ACU3F-376	230	SINGLE	3.50		15.22		40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
7	1	3500	ACU-3F-373	230	SINGLE	3.50	15.22			40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
8	1	3500	ACU3F-373	230	SINGLE	3.50	15.22			40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
9	1	3000	ACU-B1	230	SINGLE	3.00			13.04	40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
10	1	3000	ACU-GF	230	SINGLE	3.00			13.04	40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
11	1	3000	ACU-B2	230	SINGLE	3.00		13.04		40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
12	1	3000	ACU-GF	230	SINGLE	3.00		13.04		40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
13	1	3000	ACU-B3	230	SINGLE	3.00	13.04			40		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
14			NO LOAD	230	SINGLE	0.00	0.00			30		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
15	1	1942	ACU-DNY	230	SINGLE	1.94			8.44	30		2	2-8.0 mm2 THHN/THWN	-	1-2.0 mm2 THHN/THWN	-
16			SPARE	230	SINGLE	0.00			0.00	30		2		-		-
		TO	TAL CURRENT IN EACH PHASE (A	MPERES)			73.91	56.52	64.97							
			INCOMING FEEDER COM	NDUCTOR & PRO	TECTION DET	AILS				150		3	2-38 mm2 THHN/THWN	-	1-5.5 mm2 THHN/THWN	-
OTAL CURR	ENT IN AMI	PERES	195.40	SIZE OF INC		ER AT 73% D	EMAND FACT	OR			SIZE OF FEE	DER PROTECT	ION AT 73% DEMAND FACTOR			
TOTAL C	SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR IC = 125% of HIML + (1,732 x (125% of HCNL + HO)+ 30) x DF C = 1.25 x 15.22 + [[1.732 x (125% of HCNL + HO)+ 30) x DF C = 1.25 x 15.22 + [[1.732 x (125 x 0 + 73.91 - 0]]+ 0] x 0.8 C = 12.143 Ampères											.22 + [[1.732 x	(125% of HCL + HØ) + 3Ø) x DF (1.25 x 0 + 73.91 - 0]] + 0] x 0.8			
	ENCLOSURE		NEMA - 1		n2 THHN/THW	/N, 1-5.5 mm ²	, Stranded, Co	opper				INVERSE TIME	E, 230V, 3P			

CHE	ECKED / 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	DON SIMPLICIO A. LIZARES BUILDING	EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024 DATE UPDATED: 09-15-2024 DRAFTED BY: RAS OBISO	OWNER'S APPROVAL AS-BUILT BIDDING	NO. DATE DESCRIPTION	
				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,	SCHEDULE OF LOADS			APPROVED BY:	BUILDING PERMIT CONSTRUCTION ESTIMATE		
				documents.					FABRICATION	PROJECT CODE:	



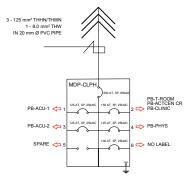
										DP-01							
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cu	RRENT AMPE	RES		INVERSE	TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIRC PER WIRE, THHN/I		CONDUIT SIZE
	QTY.	Unit VA	Description	1			AB	BC	CA		AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	62584.19	MICHAEL GROUP EE/ECE/CE	230	THREE	62.58	150.00	124.00	157.10		250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	
2	1	156700	MDP-DNY	230	THREE	156.70	234.38	234.45	217.41		250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	
3	1	36769.71	OLD BUILDING	230	THREE	36.77	61.20	87.10	92.30		250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	
4	1	474.30	MICHAEL GROUP ME LAB/24/7	THREE	0.47	3.80	16.80	16.30		250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN		
5	1	130645.994	MDP-CLPH	THREE	130.65	327.35	195.64	151.83		250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN		
6	1	8923.53	PERIMETER/CANTEEN	230	THREE	8.92	6.10	20.60	22.40		250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	
		TOT	AL CURRENT IN EACH PHASE (AMP	ERES)			782.83	678.59	657.34								
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DE	TAILS					800	-	3	2-250 mm2 THW	-	1-38 mm2 THHN/THWN	
TOTAL CURI		DEDEC	2118.76	COMPUTATION	ONS:												
TOTAL COR	KEINI IIN AIVI	PERES	2118.70	SIZE OF INC	OMING FEED	ER AT 73% [DEMAND FAC	TOR				SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO	R		
							HCNL + HØ)+							(125% of HCL + HØ) + 3Ø) x E			
TOTAL C	ONNECTED	LOAD VA	396097.72	32 x [1.25 x 27	72.86 + 782.83	3 - 272.86]]+ 0]	× 0.8					x [1.25 x 42.16 + 782.83 - 42.16]]	+ 0] x 0.8				
				IC = 1169.67	Amperes							IP = 1240.04	1 Amperes				
	ENCLOSURE		NEMA - 1	38 mm2 THW	, Stranded, Co	pper				USE: 800 AT,	INVERSE TIM	E, 230V, 3P					



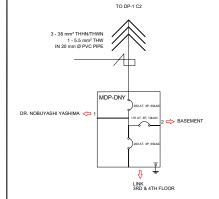
										DP-02							
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA		CURRENT	AMPERES		INVERSI	TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIR PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	BC	CA	3Ø	AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	88663	PB-06 + PB-04 + PB-07 + 8 x ACU	230	THREE	88.66	37.66	61.81	88.19	76.09	250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
2	1	35000	PB-05	230	THREE	35.00	15.22	15.22		121.74	250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
3	1	22149.47	MICHAEL GROUP ME157&158	230	THREE	22.15	43.00	42.30	55.60		250	-	3	3-30 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
4	1 122922.35 DP-ML 230 THREE 122.92 134.06 1 20874.68 MICHAEL GROUP HS UB 230 THREE 20.87 48.00								222.92		250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
5	1	20874.68	MICHAEL GROUP HS LIB	20.87	48.00	52.40	52.20		250	-	3	3-30 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-		
6	1 109707 MDP-SAL + CB-STAIRS-SAL + PB-PO + PB-RO + PB-SALGF-163 + 2 x ACU				THREE	109.71	94.78	36.52	56.95		250	-	3	3-125 mm2 THHN/THWN	-	1-14 mm2 THHN/THWN	-
		тот	AL CURRENT IN EACH PHASE (AMP	ERES)			372.72	366.06	475.86	197.83							
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	TAILS					800	-	3	2-250 mm2 THW	-	1-38 mm2 THW	-
TAL CURI	RENT IN AM	PERES	1214.64	COMPUTATION	ONS: OMING FEED	FD AT 739/ F	STAAND FAC	TOD				CIZE OF FEE	DED DDOTEC	TION AT 73% DEMAND FACTO			
														(125% of HCL + HØ) + 3Ø) x E			
TOTAL C	C = 125% of HM. + (1.732 x (125% of HCNL + H0)+ 30) x DF C = (1.25 x (1.732 x (125 x 2.127.4) + [1.732 x (1.25 x 3.07.1) + 475.86 - 350.71] C = 120.67 Amprees									33] × 0.8			1.732 x [1.25	x 350.71 + 475.86 - 350.71]]+ 19			
	ENCLOSURE											USE: 800 AT,	INVERSE TIM	E, 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				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	DON SIMPLICIO A. LIZARES BUILDING	EE481 EEK2414 CAPSTONE 1		DRAFTED BY: RAS OBISO	BIDDING			
			person to duplicate or to make copies of said				APPROVED BY:	BUILDING PERMIT			
			documents for use in the repetition of and for other				APPROVED BT:	CONSTRUCTION			
			projects of building, wether executed partly in whole, without the written consent of architect or author of said	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY		1		ESTIMATE			7
			documents.	LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY				FABRICATION	PROJECT CODE:		7

TO DP-1 C5



										MDP-CLPH							
CKT NO.		LOAD	DESCRIPTIONS	VOLTS	PHASE	kVA	cui	RRENT AMPE	RES		INVERSE	TIME DELAY BREAKER	CIRCUIT		DER BRANCH CIR PER WIRE, THHN/		CONDUIT SIZE
	QTY.	Unit VA	Description				AB	ВС	CA		AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	10118.64	PB-ACU-1	230	THREE	10.12	46.20	58.50	25.40		125	-	3	3-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
2	1	80132.46	PB-CLINIC + PB-TROOM + CB- ACTIVITY-CENTER-TOILET	230	THREE	80.13	201.15	39.44	37.13		150	-	3	3-8.0 mm2 + 3-38 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
3	1	22428.33	PB-ACU-2	230	THREE	22.43	56.30	56.00	44.20		125	-	3	3-30 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
4	1	17966.56	PB-PHYS	230	THREE	17.97	23.70	41.70	45.10		125	-	3	3-38 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
5	1		SPARE									-					
6	1		NO LOAD	230	THREE	0.00					100	-	3	4 x 3-5.5 mm2 THHN/THWN	-	1-8.0 mm2 THHN/THWN	
		TOT	AL CURRENT IN EACH PHASE (AMP	ERES)			327.35	195.64	151.83								32 mmØ PVC PIPE
			INCOMING FEEDER CONDU	CTOR & PRO	TECTION DET	AILS					250	-	3	3-125 mm2 THW	-	1-8.0 mm2 THHN/THWN	40 mmØ PVC PIPE
TOTAL CUR	RENT IN AMI	PERES	91.30	SIZE OF INC	ONS: Oming feed	ER AT 73% D	DEMAND FAC	TOR				SIZE OF FEE	DER PROTEC	TION AT 73% DEMAND FACTO)R		
	IC = 125% of HML + (1.732 × (125% of HCNL + HØ)+ 3Ø):											IP = 250% H	ML + (1.732 >	(125% of HCL + HØ) + 3Ø) x D	DF .		
TOTAL C	ONNECTED	LOAD VA	130645.99		5.30 + [[1.732 :	x [1.25 x 42.1	6 + 327.35 - 4	2.16]]+ 0] x 0	.8					([1.25 x 42.16 + 327.35 - 42.16]]	+ 0] x 0.8		
				IC = 538.55	Amperes							IP = 608.93	Amperes				
	ENCLOSURE		NEMA - 1	USE: 3-38 mr	n2 THW, 1-8.0	mm2 THHN	/THWN, Stran	ded, Copper,	in 40 mm Ø F	VC PIPE		USE: 250 AT,	INVERSE TIM	E, 230V, 3P			



										MDP-DNY							
CKT NO.	LOAD DESCRIPTIONS			VOLTS	PHASE	kVA	CURRENT AMPERES			WIDF-DINT	INVERSE TIME DELAY CIRCUIT BREAKER		CIRCUIT	FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN			CONDUIT SIZE
	QTY.	Unit VA	Description	1 !			AB	BC	CA		AT	AF	POLE	PHASE	NEUTRAL	EGC	
1	1	44942	PB-ACU-LINK	230	THREE	44.94	73.91	56.52	63.97		150	-	3	3-38 mm2 THHN/THWN	-		
2	1	12942	PB-BASEMENT	230	THREE	12.94	36.83	14.69	2.40		175	-	3	3-36 mm2 + 2 x 2-8.0 mm2THHN/THWN	-	-	-
3	1	98816	DP-LINK3F + PB-LINK4F	230	THREE	98.82	123.64	163.24	151.04		200	-	3	3-30 mm2 + 3-22 mm2 THHN/THWN	-	-	-
TOTAL CURRENT IN EACH PHASE (AMPERES) 234.38 234.45 217.41																	
INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS 25									250	-	3	3-38 mm2 THW	-				
TOTAL CUR	RENT IN AMI	PERES	686.24	COMPUTATION											_		
TOTAL C	ONNECTED	LOAD VA	156700	SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR C = 125% of HML + (1.732 x (125% of HCNL + H0)+ 30) x DF C = 125% of 3-19 + [[1.732 x [1.25 x 229.86 + 234.45 - 229.86]] + 0] x 0.8 C = 496.86 Amperes								SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR P = 250% HML + (1,732 x (125% of HCL + HØ) + 3Ø) x DF P = 25 x 73.91 + [[1,732 x (125 x 229.86 + 234.45 - 229.86]] + 0] x 0.8 IP = 589.25 Amperes					
	ENCLOSURE		NEMA - 1	USE: 3-38 mm2 THW, Stranded, Copper								USE: 250 AT, INVERSE TIME, 230V, 3P					

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			Drawing and specification and other contract documents signed, stampor of sealed, as instrument of service, as the intellectual properly and document of service, as the intellectual properly and document of services and services of the services of services o		EE481 EEK2414 CAPSTONE 1		DATE DRAFTED: 09-04-2024	OWNER'S APPROVAL	NO. DATE DESCRIPTION	
							DATE UPDATED: 09-15-2024	AS-BUILT		_ا '
							DRAFTED BY: RAS OBISO	BIDDING		⊣ '
							APPROVED BY:	BUILDING PERMIT		⊣ '
								CONSTRUCTION		⊣ ′
				LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY			<u> </u>	ESTIMATE		⊣ ′
								FABRICATION	PROJECT CODE:	