

PANEL DESIGNATION: LP-DOOR-B	LOCATION:		REMARKS:					
	SERVICE:	208Y/120 V	3 PHASE, 4 WIRE					
	MAIN BUS RATING:	100 AMPS	NEUTRAL BUS: 100%					
	MAIN CIRCUIT BREAKER:	100 AMPS						
	SCC RATING (SYM.):	10 k A.I.C.	GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO					
MOUNTING: SURFACE MOUNTED								
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
LOADING DOCK DOOR T85	20A	1	2688			2	20A	LOADING DOCK DOOR T84
LOADING DOCK DOOR T83	20A	3		2688		4	20A	LOADING DOCK DOOR T82
LOADING DOCK DOOR T81	20A	5			2688	6	20A	LOADING DOCK DOOR T80
LOADING DOCK DOOR T79	20A	7	2688			8	20A	LOADING DOCK DOOR T78
LOADING DOCK DOOR T77	20A	9		2688		10	20A	LOADING DOCK DOOR T76
LOADING DOCK DOOR T75	20A	11			2688	12	20A	LOADING DOCK DOOR T74
LOADING DOCK DOOR T73	20A	13	2688			14	20A	LOADING DOCK DOOR T72
LOADING DOCK DOOR T71	20A	15		2688		16	20A	LOADING DOCK DOOR T70
LOADING DOCK DOOR T69	20A	17			2688	18	20A	LOADING DOCK DOOR T68
LOADING DOCK DOOR T67	20A	19	2688			20	20A	LOADING DOCK DOOR T66
LOADING DOCK DOOR T65	20A	21		2688		22	20A	LOADING DOCK DOOR T64
SPARE	20A	23			0	24	20A	SPARE
SPARE	20A	25	0			26	20A	SPARE
SPARE	20A	27		0		28	20A	SPARE
SPARE	20A	29			0	30	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)		10.75	10.75	8.06				
TOTAL CONNECTED LOAD		29.57 KVA			82.1 A			
TOTAL DEMAND LOAD		23.65 KVA			65.7 A			

PANEL DESIGNATION: PP-B	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS:			
	SERVICE: 208Y/120 V		3 PHASE, 4 WIRE						
	MAIN BUS RATING: 400 AMPS								
	MAIN CIRCUIT BREAKER: 400 AMPS					NEUTRAL BUS: 100%			
	SCC RATING (SYM): 10 k A.I.C.					GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO			
		MOUNTING:		SURFACE MOUNTED					
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
HEAT PUMP 'HP-1' WITH HEATER	50A	1	6854				2	25A	HEAT PUMP 'HP-1' OUTDOOR UNIT
		3		6854			4		
HEAT PUMP 'HP-2' WITH HEATER	50A	5				6854	6	25A	HEAT PUMP 'HP-2' OUTDOOR UNIT
		7	6854				8		
HEAT PUMP 'HP-3' WITH HEATER	50A	9				6854	10	25A	HEAT PUMP 'HP-3' OUTDOOR UNIT
		11					12		
HEAT PUMP 'HP-4' WITH HEATER	50A	13	7020				14	30A	HEAT PUMP 'HP-4' OUTDOOR UNIT
		15		7020			16		
HEAT PUMP 'HP-5' WITH HEATER	50A	17				7020	18	30A	HEAT PUMP 'HP-5' OUTDOOR UNIT
		19	7020				20		
HEAT PUMP 'HP-6' WITH HEATER	50A	21				7020	22	30A	HEAT PUMP 'HP-6' OUTDOOR UNIT
		23				7020	24		
HEAT PUMP 'HP-7' WITH HEATER	50A	25	7998				26	40A	HEAT PUMP 'HP-7' OUTDOOR UNIT
		27		7998			28		
ELECTRIC WALL HEATER	25A	29				2000	30	20A	SPARE
		31	2000				32	20A	SPARE
ELECTRIC WALL HEATER	25A	33				2000	34	20A	SPARE
		35				2000	36	20A	SPARE
SPARE	20A	37	0				38	20A	SPARE
SPARE	20A	39		0			40	20A	SPARE
SPARE	20A	41				0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)		37.74	37.74	31.75					
TOTAL CONNECTED LOAD					107.24 KVA	297.7 A			
TOTAL DEMAND LOAD					107.24 KVA	297.7 A			

PANEL DESIGNATION: EM-LS-H	LOCATION: EMERGENCY ELECTRICAL ROOM					REMARKS:			
	SERVICE:	480Y/277 V	3 PHASE, 4 WIRE						
		MAIN BUS RATING:	225 AMPS						
		MAIN CIRCUIT BREAKER:	225 AMPS						
		SCC RATING (SYM.):	65 k A.I.C.						
	MOUNTING:	SURFACE MOUNTED							
SERVICE TO:		TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
PANELBOARD 'EM-LP-A'	60A	1	6626				2		PANELBOARD 'EM-LS-L' VIA XFMR 'T-EM-LS'
		3		4115			4	60A	
		5				1821	6		
PANELBOARD 'EM-LP-B'	60A	7	1867				8	20A	SPARE
		9		1867			10	20A	SPARE
		11				1840	12	20A	SPARE
PANELBOARD 'EM-LP-C'	60A	13	1840				14	20A	SPARE
		15		1718			16	20A	SPARE
		17				1745	18	20A	SPARE
SPARE	20A	19	0				20	20A	SPARE
SPARE	20A	21		0			22	20A	SPARE
SPARE	20A	23				0	24	20A	SPARE
SPARE	20A	25	0				26	20A	SPARE
SPARE	20A	27		0			28	20A	SPARE
SPARE	20A	29				0	30	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)		10.33		7.70		5.41			
TOTAL CONNECTED LOAD				23.44 KVA				28.2 A	
TOTAL DEMAND LOAD				27.87 KVA				33.5 A	

PANEL DESIGNATION: EM-LP-A	LOCATION: ADMIN OFFICE ELECTRICAL ROOM					REMARKS:		
	SERVICE: 480Y/277 V		3 PHASE, 4 WIRE			NEUTRAL BUS: 100% GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO		
	MAIN BUS RATING: 100 AMPS							
	NON-FUSED MAIN SWITCH: 60 AMPS							
	SCC RATING (SYM): 18 k A.I.C.							
MOUNTING:		SURFACE MOUNTED						
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
1ST MEZZANINE EMERGENCY LIGHTING	20A	1	241			2	20A	1ST MEZZANINE EMERGENCY LIGHTING
SPARE	20A	3		120		4	20A	PARRIAL WAREHOUSE EMERGENCY LIGHTING
2ND MEZZANINE EMERGENCY LIGHTING	20A	5			1231	6	20A	ADMIN OFFICE EMERGENCY LIGHTING
SPARE	20A	7	990			8	20A	ADMIN OFFICE EMERGENCY LIGHTING
EGRESS STAIR A EMERGENCY LIGHTING	20A	9		123		10	20A	SPARE
EGRESS STAIR A EMERGENCY LIGHTING	20A	11			123	12	20A	SPARE
EGRESS STAIR B EMERGENCY LIGHTING	20A	13	205			14	20A	SPARE
EGRESS STAIR B EMERGENCY LIGHTING	20A	15		1024		16	20A	SPARE
EGRESS STAIR C EMERGENCY LIGHTING	20A	17			287	18	20A	SPARE
EGRESS STAIR C EMERGENCY LIGHTING	20A	19	410			20	20A	SPARE
SPARE	20A	21		0		22	20A	SPARE
SPARE	20A	23			0	24	20A	SPARE
SPARE	20A	25	0			26	20A	SPARE
SPARE	20A	27		0		28	20A	SPARE
SPARE	20A	29			0	30	20A	SPARE
SPARE	20A	31	0			32	20A	SPARE
SPARE	20A	33		0		34	20A	SPARE
SPARE	20A	35			0	36	20A	SPARE
SPARE	20A	37	0			38	20A	SPARE
SPARE	20A	39		0		40	20A	SPARE
SPARE	20A	41			0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			1.85	1.27	1.64			
TOTAL CONNECTED LOAD			4.75 KVA			5.7 A		
TOTAL DEMAND LOAD			5.94 KVA			7.1 A		

PANEL DESIGNATION: EM-LS-L	LOCATION: EMERGENCY ELECTRICAL ROOM					REMARKS:		
	SERVICE:	208Y/120 V	3 PHASE, 4 WIRE			NEUTRAL BUS: 100% GROUNDING: EQUIPMENT GROUND BUS: YES ISOLATED GROUND BUS: NO		
	MAIN BUS RATING:	100 AMPS						
	MAIN FUSES:	100 AMPS						
	SCC RATING (SYM.):	10 k A.I.C.						
MOUNTING:		SURFACE MOUNTED						
SERVICE TO:	TRIP	NO.	A	B	C	NO.	TRIP	SERVICE TO:
SPRINKLER CABINET COMPRESSOR ROOM	20A	1	3600			2	40A	GENERATOR LOAD CENTER
	20A	3		2748		4		
EXHAUST FAN 'EF-4'	20A	5			180	6	20A	GFCI ELEVATOR PIT
SPRINKLER CABINET MEZZ	20A	7	1180			8	20A	GFCI RECEPTACLE FOR ELEV SUMP PUMP
SPARE	20A	9		100		10	20A	ELEVATOR PIT LIGHT
SPARE	20A	11			0	12	20A	SPARE
SPARE	20A	13	0			14	20A	SPARE
SPARE	20A	15		0		16	20A	SPARE
SPARE	20A	17			0	18	20A	SPARE
SPARE	20A	19	0			20	20A	SPARE
SPARE	20A	21		0		22	20A	SPARE
SPARE	20A	23			0	24	20A	SPARE
SPARE	20A	25	0			26	20A	SPARE
SPARE	20A	27		0		28	20A	SPARE
SPARE	20A	29			0	30	20A	SPARE
SPARE	20A	31	0			32	20A	SPARE
SPARE	20A	33		0		34	20A	SPARE
SPARE	20A	35			0	36	20A	SPARE
SPARE	20A	37	0			38	20A	SPARE
SPARE	20A	39		0		40	20A	SPARE
SPARE	20A	41			0	42	20A	SPARE
TOTAL CONNECTED LOAD PER PHASE (KVA)			4.78	2.85	0.18			
TOTAL CONNECTED LOAD			7.81 KVA			21.7 A		
TOTAL DEMAND LOAD			8.33 KVA			23.1 A		

NOTES:

- REFER TO CONTRACT DRAWING **E-001** FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND DRAWING LIST.
- REFER TO **CONTRACT** DRAWINGS **E-701**, **E-702**, AND **E-703** FOR ELECTRICAL ONE-LINE DIAGRAMS.
- ALL 277/480V AND 120/208V FEEDERS AND BRANCH CIRCUIT CONDUCTORS SHALL BE ALUMINUM. CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND APPROPRIATELY SIZE CONDUCTORS AND ASSOCIATED CONDUITS BASED ON THE 2017 NATIONAL ELECTRIC CODE.
- ALUMINUM CONDUCTORS SHALL BE UL LISTED AND COMPLY WITH ASTM B800, ASTM B801, UL 486C, AND ANSI H35.2-2017. INSTALLATION OF ALUMINUM CONDUCTORS SHALL BE INSTALLED IN COMPLIANCE WITH ANSI/NECA/AA 104-2012.
- ALL SPLICES, TERMINATIONS, TAPS, AND CONDUCTOR CONNECTORS SHALL BE COMPATIBLE WITH CONDUCTOR MATERIAL. USE OXIDE INHIBITOR IN EACH SPLICE, TERMINATION, AND TAP FOR ALUMINUM CONDUCTORS.

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022
	ISSUED FOR BDNSTRUCTION	08/30/2022

DRAWN BY :	M.DIMATTIA
CHECKED BY :	B.NEMCHEK
APPROVED BY :	J.MIZRAHI
DATE :	09/10/21
SCALE :	N.T.S.

DRAWING TITLE :
**ELECTRICAL PANEL
SCHEDULES SHEET 5 OF 6**