PANELBOARD: EM

LOCATION: MECH/ELECTRICAL 221
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 600 A MLO
BUS AMPS: 600 AMPS
VOLTAGE: 120/208V, 3PH, 4W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A		B		C		CCT#	P	CB	LOAD DESCRIPTION
DUCT HEATER DH-2	15 A	2	EM-1	7	7					EM-2	2	15 A	DUCT HEATER DH-3
			EM-3			7	7			EM-4			
VEHICLE EXHAUST VEF-1	45 A	2	EM-5					1	10	EM-6	2	15 A	DUCT HEATER DH-7
			EM-7	1	10					EM-8			
EXHAUST FAN EF-4	15 A	1	EM-9			7	13			EM-10			
HEAT PUMP IT ROOM HP-3	30 A	2	EM-11					19	13	EM-12	3	20 A	ERV-1
			EM-13	19	13					EM-14			
HEAT PUMP CAPT ROOM HP-4	15 A	2	EM-15			5	30			EM-16			
			EM-17					5	30	EM-18	3	35 A	MAKEUP AIR UNIT MUA-1
HEAT PUMP MEAL AREA HP-7A	30 A	2	EM-19	19	30					EM-20			
			EM-21			19	22			EM-22			
HEAT PUMP MEAL AREA HP-7B	20 A	2	EM-23					12	22	EM-24	3	35 A	MAKEUP AIR UNIT MUA-2
			EM-25	12	22					EM-26			
HEAT PUMP DAY ROOM HP-8A	20 A	2	EM-27			12	24			EM-28	2	15 A	RCPT IT 8.1.
			EM-29					12	24	EM-30			
HEAT PUMP DAY ROOM HP-8B	20 A	2	EM-31	12	7					EM-32	1	15 A	SUMP PUMP P-3A
			EM-33			12	7			EM-34	1	15 A	SUMP PUMP P-3B
GAS FIRED UNIT HEATER UH-4	40 A	1	EM-35					28	7	EM-36	1	15 A	GEOTHERM DWH PUMP P-6
GAS FIRED UNIT HEATER UH-5	40 A	1	EM-37	28	5					EM-38	1	15 A	SPRINKLER COMP SC-1
EXHAUST FAN EF-2	15 A	2	EM-39			3	0			EM-40	1	15 A	BU1
			EM-41					3	6	EM-42	1	15 A	INV04
INV03	15 A	1	EM-43	6	8					EM-44	1	15 A	INV02
INV01	15 A	1	EM-45			9	1			EM-46	2	45 A	VEHICLE EXHAUST VEF-2
EXHAUST FAN EF-1	15 A	3	EM-47					13	1	EM-48			
			EM-49	13	42					EM-50			
			EM-51			13	42			EM-52	3	60 A	WATER SOURCE HEAT PUMP
COOLING UNIT CU-1	60 A	3	EM-53					55	42	EM-54			
			EM-55	55	15					EM-56	1	15 A	BOILER B1
			EM-57			55	4			EM-58	2	15 A	SHOWER 113 RADIANT PANEL
DDC CONTROLLER	15 A	1	EM-59					15	4	EM-60			
RCPT IT 8.1	20 A	1	EM-61	3	2					EM-62	1	15 A	RCPT IT 8.1
VEHICLE EXHAUST FAN CONTROLLER VEC	20 A	2	EM-63			15	5			EM-64	3	15 A	HOIST
			EM-65					15	5	EM-66			
HOIST CONTROLLER	15 A	1	EM-67	0	5					EM-68			
			EM-69							EM-70			
			EM-71							EM-72			
			EM-73							EM-74			
			EM-75							EM-76			
SPARE	15 A	1	EM-77					0	0	EM-78	1	20 A	SPARE
SPARE	15 A	1	EM-79	0	0					EM-80	1	20 A	SPARE
SPARE	15 A	1	EM-81			0	0			EM-82	1	20 A	SPARE
SPARE	15 A	1	EM-83					0	0	EM-84	1	20 A	SPARE
			TOTAL AMPS:	331 A		293 A		325 A					
			TOTAL LOAD:	39 kVA		35 kVA		39 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
HVAC	4683 VA	100.00%	4683 VA		
RCPT	5592 VA	50.00%	2796 VA	**CONNECTED LOAD:**	112782 VA
LITES	1445 VA	100.00%	1445 VA	**ESTIMATED DEMAND:**	94030 VA
MTR	17784 VA	75.00%	13338 VA	**CONNECTED CURRENT:**	313 A
SPEC	4605 VA	105.03%	4837 VA	**EST. DEMAND CURRENT:**	261 A
HEAT	57846 VA	79.32%	45885 VA		
AC	19814 VA	100.00%	19814 VA		
LIGHT	2037 VA	100.00%	2037 VA		

NOTES:

PANELBOARD: P1

LOCATION:
MOUNTING: SURFACE NEMA1
MAIN DEVICE: 200 A MLO
BUS AMPS: 200 AMPS
VOLTAGE: 120/208V, 3PH, 4W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A		B		C		CCT#	P	CB	LOAD DESCRIPTION
RCPT MECHANICAL/ELECTRICA...	20 A	1	P1-1	1	1					P1-2	1	15 A	RCPT MECHANICAL/ELECTRICA...
RCPT MECHANICAL/ELECTRICA...	20 A	1	P1-3			2	3			P1-4	1	15 A	RCPT STORAGE 3.9
RCPT OFFICE/STUDY 4.7C	15 A	1	P1-5					8	2	P1-6	1	20 A	CORRIDOR RECEPTACLES
RCPT SLEEP QTRS 4.4	15 A	1	P1-7	12	1					P1-8	1	20 A	RCPT APARATUS BAYS 2.1
RCPT PPE STORAGE 3.4	15 A	1	P1-9			3	3			P1-10	1	15 A	RCPT HOSE WASH 3.9
RCPT TOOL REPAIR 3.6	20 A	1	P1-11					5	2	P1-12	1	15 A	RCPT APARATUS BAYS 2.1
RCPT APARATUS BAYS 2.1	15 A	1	P1-13	2	2					P1-14	1	15 A	RCPT APARATUS BAYS 2.1
RCPT APARATUS BAYS 2.1	15 A	1	P1-15			2	5			P1-16	3	15 A	GARAGE DOOR OPERATOR GDO-5B
			P1-17					5	5	P1-18			
GARAGE DOOR OPERATOR GDO-5A	15 A	3	P1-19	5	5					P1-20			
			P1-21			5	5			P1-22			
GARAGE DOOR OPERATOR GDO-4A	15 A	3	P1-23					5	5	P1-24	3	15 A	GARAGE DOOR OPERATOR GDO-4B
			P1-25	5	5					P1-26			
			P1-27			5	5			P1-28	3	15 A	GARAGE DOOR OPERATOR GDO-3B
			P1-29					5	5	P1-30			
GARAGE DOOR OPERATOR GDO-3A	15 A	3	P1-31	5	5					P1-32			
			P1-33			5	5			P1-34			
			P1-35					5	5	P1-36	3	15 A	GARAGE DOOR OPERATOR GDO-2B
GARAGE DOOR OPERATOR GDO-2A	15 A	3	P1-37	5	5					P1-38			
			P1-39			5	5			P1-40			
			P1-41					5	5	P1-42	3	15 A	GARAGE DOOR OPERATOR GDO-1B
GARAGE DOOR OPERATOR GDO-1A	15 A	3	P1-43	5	5					P1-44			
			P1-45			5	2			P1-46	1	15 A	RCPT APARATUS BAYS 2.1
RCPT APARATUS BAYS 2.1	15 A	1	P1-47					2	0	P1-48	1	15 A	EAST VESTIBULE 26 ADOs
RCPT APARATUS BAYS 2.1	20 A	1	P1-49	1	10					P1-50	1	15 A	RCPT WASH MCHN 123
			P1-51			0	48			P1-52			
MTR HOSE WASH 123	15 A	3	P1-53					0	48	P1-54	3	70 A	KTCH KITCHEN 202
			P1-55	0	48					P1-56			
			P1-57			5	22			P1-58	2	30 A	DISHWASHER
MTR HOSE WASH 123	15 A	3	P1-59					5	22	P1-60			
			P1-61	5	5					P1-62	1	15 A	CO2 BUMPSTATION
			P1-63							P1-64			
			P1-65							P1-66			
			P1-67							P1-68			
			P1-69							P1-70			
			P1-71							P1-72			
			P1-73							P1-74			
			P1-75							P1-76			
SPARE	15 A	1	P1-77					0	0	P1-78	1	20 A	SPARE
SPARE	15 A	1	P1-79	0	0					P1-80	1	20 A	SPARE
SPARE	15 A	1	P1-81			0	0			P1-82	1	20 A	SPARE
SPARE	15 A	1	P1-83					0	0	P1-84	1	20 A	SPARE
			TOTAL AMPS:	130 A		130 A		134 A					
			TOTAL LOAD:	16 kVA		16 kVA		16 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	7320 VA	50.00%	3660 VA		
MTR	18045 VA	75.00%	13534 VA	**CONNECTED LOAD:**	47177 VA
SPEC	600 VA	100.00%	600 VA	**ESTIMATED DEMAND:**	39249 VA
KTCH	21868 VA	100.00%	21868 VA	**CONNECTED CURRENT:**	131 A
				EST. DEMAND CURRENT:	109 A

NOTES:

PANELBOARD: P2

LOCATION: CORRIDOR 44
MOUNTING: RECESSED NEMA1
MAIN DEVICE: 200 A MLO
BUS AMPS: 225 AMPS
VOLTAGE: 120/208V, 3PH, 4W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A		B		C		CCT#	P	CB	LOAD DESCRIPTION
RCPT SLEEP QTRS 4.4	15 A	1	P2-1	11	4					P2-2	1	20 A	CORRIDOR RECEPTACLES
RCPT SHWR 4.11	15 A	1	P2-3			12	8			P2-4	1	15 A	RCPT DAY ROOM 4.1
RCPT DAY ROOM 4.1	15 A	1	P2-5					2	10	P2-6	1	15 A	RCPT KITCHEN 4.2
RCPT KITCHEN 4.2	15 A	1	P2-7	5	5					P2-8	1	15 A	RCPT KITCHEN 4.2
RCPT KITCHEN 4.2	15 A	1	P2-9			10	10			P2-10	1	15 A	RCPT KITCHEN 4.2
RCPT KITCHEN 4.2	15 A	1	P2-11					10	5	P2-12	1	20 A	RCPT KITCHEN 4.2
RCPT ROOF	20 A	1	P2-13	1	3					P2-14	1	20 A	RCPT BBQ PATIO 75
RCPT FITNESS AREA 4.15A	20 A	1	P2-15			1	5			P2-16	1	15 A	RCPT FITNESS AREA 4.15A
RCPT FITNESS AREA 4.15A	20 A	1	P2-17					5	5	P2-18	1	20 A	RCPT KITCHEN 4.2
RCPT KITCHEN 4.2	20 A	1	P2-19	10	5					P2-20	1	20 A	RCPT KITCHEN 4.2
RCPT STAIR 1 1	15 A	1	P2-21			4	4			P2-22	1	15 A	RCPT STORAGE 1.1B
RCPT TRAINING CLASSROOM 1.6	15 A	1	P2-23					5	4	P2-24	1	15 A	RCPT TRAINING CLASSROOM 1.6
RCPT TRAINING CLASSROOM 1.6	20 A	1	P2-25	10	7					P2-26	1	15 A	RCPT FLOOR WATCH 3.12
RCPT FLOOR WATCH 3.12	15 A	1	P2-27			1	20			P2-28	1	15 A	RCPT WR 1.11
RCPT CAPT & LEUT OFFICE 4.7D	15 A	1	P2-29					7	7	P2-30	1	15 A	RCPT INVESTIGATION OFFICE...
RCPT AMB RESTOCK 3.7	20 A	1	P2-31	4	30					P2-32	1	15 A	RCPT WR 3.11
RCPT AMB RESTOCK 118	15 A	1	P2-33			2	8			P2-34	1	20 A	CORRIDOR RECEPTACLES
RCPT APARATUS BAYS 2.1	20 A	1	P2-35					6	6	P2-36	1	15 A	RCPT HAZMAT EQUIPMENT...
LOBBY 1.2 ADOS	15 A	1	P2-37	0	0					P2-38	1	15 A	WEST VESTIBULE 1.1 ADOs
CORRIDOR 33 ADOs	15 A	1	P2-39			0	2			P2-40	1	15 A	RCPT LOBBY 1.2
NORTH VESTIBULE 1.1B ADOs	15 A	1	P2-41					0	1	P2-42	1	15 A	RCPT LOBBY 1.2
SPEC SHOWER 219	15 A	1	P2-43	3	1					P2-44	1	15 A	RCPT DEFIB STORAGE...
RCPT VEST 1.1	20 A	1	P2-45			1	1			P2-46	1	15 A	RCPT ELEVATOR 17
SPEC LAUNDRY 216B	40 A	2	P2-47					25	2	P2-48	1	15 A	RCPT HAZMAT EQUIPMEN...
			P2-49	25	15					P2-50	1	0 A	SPEC Room 4.2
RCPT KITCHEN 4.2	15 A	1	P2-51			4	2			P2-52	1	15 A	RCPT JANITOR LAUNDRY...
TV FITNESS AREA 200	15 A	1	P2-53					1	34	P2-54	2	50 A	ELECTRIC SNOW MELT SYSTEM
RCPT FITNESS AREA 200	15 A	1	P2-55	1	34					P2-56			
			P2-57				2			P2-58	1	15 A	PAPER TOWEL DISPENSER
			P2-59						2	P2-60	1	15 A	PAPER TOWEL DISPENSER
			P2-61							P2-62			
			P2-63							P2-64			
			P2-65							P2-66			
			P2-67							P2-68			
			P2-69							P2-70			
			P2-71							P2-72			
			P2-73							P2-74			
			P2-75							P2-76			
SPARE	15 A	1	P2-77					0	0	P2-78	1	20 A	SPARE
SPARE	15 A	1	P2-79	0	0					P2-80	1	20 A	SPARE
SPARE	15 A	1	P2-81			0	0			P2-82	1	20 A	SPARE
SPARE	15 A	1	P2-83					0	0	P2-84	1	20 A	SPARE
			TOTAL AMPS:	166 A		97 A		130 A					
			TOTAL LOAD:	19 kVA		12 kVA		15 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	32200 VA	50.00%	16100 VA		
SPEC	14388 VA	103.06%	14829 VA	**CONNECTED LOAD:**	46013 VA
				ESTIMATED DEMAND:	30482 VA
				CONNECTED CURRENT:	128 A
				EST. DEMAND CURRENT:	85 A

NOTES:

PANELBOARD: PP

LOCATION: SPRINKLER ROOM 126
MOUNTING: SURFACE NEMA3R
MAIN DEVICE: 200 A MLO
BUS AMPS: 200 AMPS
VOLTAGE: 120/208V, 3PH, 4W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

LOAD DESCRIPTION	CB	P	CCT#	A [A]		B [A]		C [A]		CCT#	P	CB	LOAD DESCRIPTION
PKG-RCPT	20 A	2	PP-1	9	9					PP-2	2	20 A	PKG-RCPT
			PP-3			9	9			PP-4			
PKG-RCPT	20 A	2	PP-5					9	9	PP-6	2	20 A	PKG-RCPT
			PP-7	9	9					PP-8			
PKG-RCPT	20 A	1	PP-9			8	9			PP-10	2	20 A	PKG-RCPT
BUILDING MOUNTED...	20 A	1	PP-11					3	9	PP-12			
PKG-RCPT	20 A	2	PP-13	9	9					PP-14	2	20 A	PKG-RCPT
			PP-15			9	9			PP-16			
PKG-RCPT	20 A	2	PP-17					9	9	PP-18	2	20 A	PKG-RCPT
			PP-19	9	9					PP-20			
PKG-RCPT	20 A	2	PP-21			9	9			PP-22	2	20 A	PKG-RCPT
			PP-23					9	9	PP-24			
PKG-RCPT	20 A	2	PP-25	9	30					PP-26	2	40 A	EVSE
			PP-27			9	30			PP-28			
EVSE	40 A	2	PP-29					30		PP-30			
			PP-31	30						PP-32			
			PP-33							PP-34			
			PP-35							PP-36			
			PP-37							PP-38			
			PP-39							PP-40			
			PP-41							PP-42			
			PP-43							PP-44			
			PP-45							PP-46			
			PP-47							PP-48			
SPARE	20 A	2	PP-49	0	0					PP-50	2	20 A	SPARE
			PP-51			0	0			PP-52			
SPARE	20 A	2	PP-53					0	0	PP-54	2	20 A	SPARE
			PP-55	0	0					PP-56			
SPARE	20 A	2	PP-57			0	0			PP-58	2	20 A	SPARE
			PP-59					0	0	PP-60			
			TOTAL AMPS:	124 A		99 A		84 A					
			TOTAL LOAD:	15 kVA		12 kVA		10 kVA					

LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS	
RCPT	360 VA	50.00%	180 VA		
PKG-RCPT	24388 VA	100.00%	24388 VA	**CONNECTED LOAD:**	36377 VA
EVSE - 6KW PER STALL	12480 VA	100.00%	12480 VA	**ESTIMATED DEMAND:**	36205 VA
				CONNECTED CURRENT:	101 A
				EST. DEMAND CURRENT:	100 A

NOTES:

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NO.	DATE	REVISION / ISSUANCE
0	2023-02-03	ISSUED FOR CONSTRUCTION

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Project
WFPS STATION 9
1083 AUTUMNWOOD DRIVE

Sheet Title
ELECTRICAL SCHEDULES

Project No. 22028
Sheet E6.5