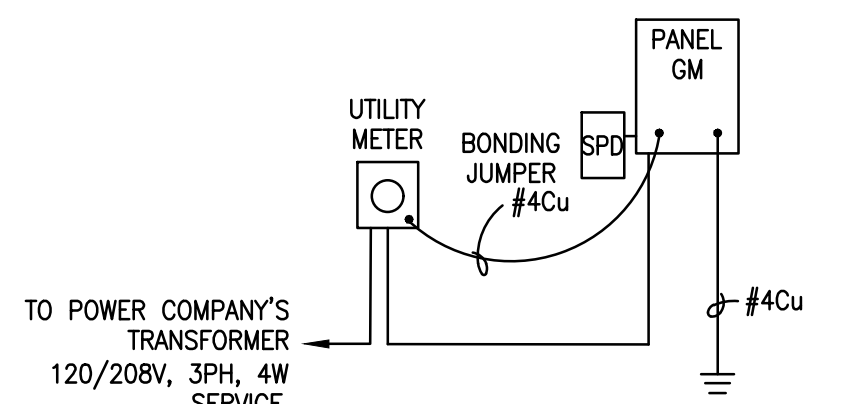
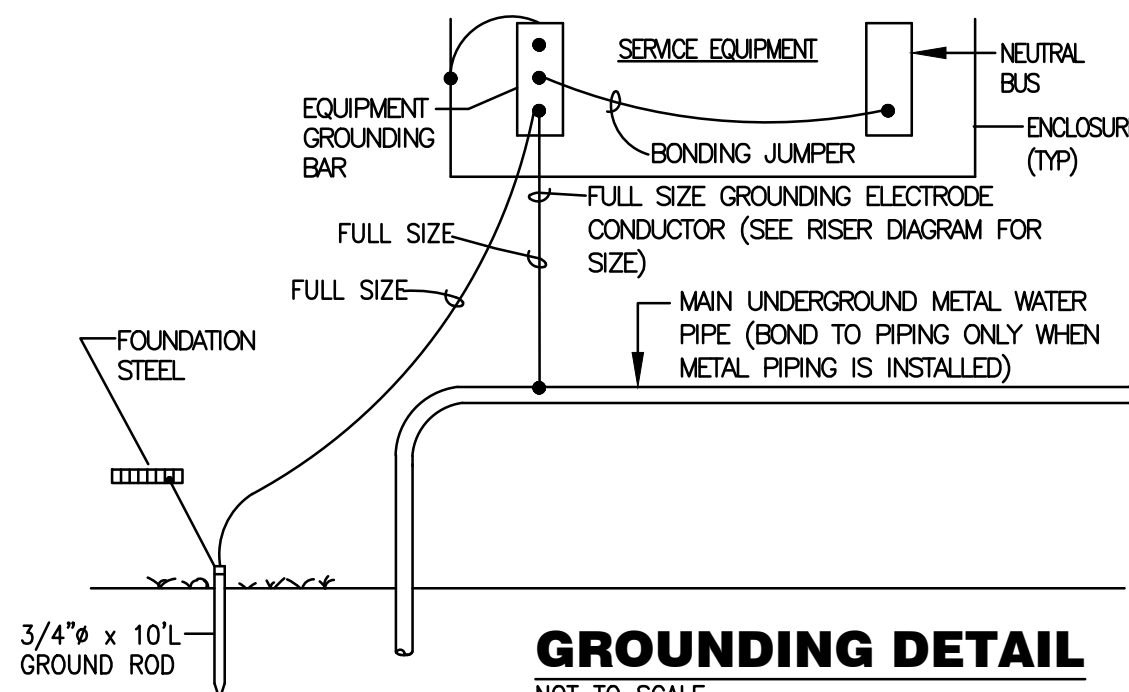




POWER RISER
NOT TO SCALE



GROUNDING DETAIL
NOT TO SCALE

EQUIPMENT FEEDER SCHEDULE:										* WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR SIZES OF 100A OR LESS. ALL OTHERS BASED ON 75 DEGREE COLUMN.											
										**DISTANCE SHOWN FOR VOLTAGE DROP CALCULATION ONLY. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING.											
EQUIPMENT DESCRIPTION	VOLTS	PH	NEUT Y/N	MOTOR (LARSSE) HP	FLA	HEAT STRIPS HP	FLA	MISC AMPS	TOTAL AMPS	MIN C.B. SIZE	DISCONNECT SIZE	STARTER SIZE	WIRE NEUA PER	NEUT WIRE	GND WIRE	# OF RUNS	CONDUIT SIZE	APPROX. VOLT DROP	NOTES		
				HP	FLA	HP	FLA	KW	AMPS				TYPE	TYPE				FT	VC%		
BWH-1	208	1	Y					3.0	14.4	14.4	18.0	20	30	1	#12	#12	#12	1	3/4"	0.00%	
CP-1	120	1	Y	0.05	0.80					0.8	1.0	15	MMS	1	#12	#12	#12	1	3/4"	0.00%	
AHU-1 / CU-1	208	1	Y		7.00		0.83			7.8	9.6	15	MMS	3R	#12	#12	#12	1	3/4"	0.00%	
EF-1	120	1	Y		0.46					0.5	0.6	15	MMS	1	#12	#12	#12	1	3/4"	0.00%	
EF-2	120	1	Y		0.30					0.3	0.4	15	MMS	1	#12	#12	#12	1	3/4"	0.00%	
FOUNTAIN CONTROL PANEL	208	3	Y	3.00	10.60				13.4	24.0	30.0	30		3R	#10	#10	#10	1	3/4"	0.00%	
GENERAL NOTES:																					
(1) - PROVIDE DISC. SW. AT ALL PRECES OF EQUIPMENT NOT WITHIN SIGHT OF THE OVERCURRENT PROTECTIVE DEVICE.																					
(2) - FUSES SHOWN FOR REFERENCE ONLY. PROVIDE FUSES AS RECOMMENDED BY EQUIP. MANUF.																					
(3) - PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SW'S MOUNTED OUTDOORS.																					
(4) - COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT.																					
(5) - COORDINATE ALL OVERCURRENT PROTECTIVE DEVICES WITH THE ACTUAL EQUIPMENT BEING SUPPLIED. NOTIFY THE ENGINEER IF DESCRIPTIONS ARE FOUND.																					
(6) - DISCONNECTS BETWEEN MOTORS AND VFD'S SHALL BE PROVIDED WITH AN AUXILIARY CONTACT AND WIRED TO THE STOP OF THE VFD.																					
NOTES:																					
(A)																					

GENERAL NOTES:
(1) - PROVIDE DISC. SW. AT ALL PECS OF EQUIPMENT NOT WITHIN SIGHT OF THE OVERCURRENT PROTECTIVE DEVICE.
(2) - FUSES SHOWN FOR REFERENCE ONLY. PROVIDE FUSES AS RECOMMENDED BY EQUIP. MANUF.
(3) - PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SVS MOUNTED OUTDOORS.
(4) - COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT.
(5) - COORDINATE ALL OVERCURRENT PROTECTIVE DEVICES WITH THE ACTUAL EQUIPMENT BEING SUPPLIED. NOTIFY THE ENGINEER IF DISCREPANCIES ARE FOUND.
(6) - DISCONNECTS BETWEEN MOTORS AND VFCOS SHALL BE PROVIDED WITH AN AUXILIARY CONTACT AND WIRED TO THE E-STOP OF THE VFD.

NOTES:
(a)

PANEL FEEDER SCHEDULE:										* WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR SIZES OF 100A AND LESS. ALL OTHERS BASED ON 75 DEGREE COLUMN. **LOAD AMPS AND DISTANCE SHOWN FOR VOLTAGE DROP CALCULATION ONLY. SEE PANEL SCHEDULE FOR ACTUAL LOAD. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING.										
FEEDER DESCRIPTION		VOLTS	PH	NEUT	200% FLA	GRND	ISO	MAIN OATG	FLA	DISCONNECT	WIRE PER PHASE	NEUT WIRE	ADD	GND	ISO	BOND	# OF RUNS	CONDUIT SIZE	APPROX. VOLT DROP	NOTES
SOURCE	LOAD			Y/N	Y/N	Y/N	Y/N			SIZE	FUSE	NEMA				POINT #30	#		FT	VD%
UTILITY XFMR	PANEL GM	208	3	Y	N	N	N	200	200								1	2"		
GENERAL NOTES:										NOTES:										
(1) - PROVIDE DISC. SW. AT ALL FEEDS OF EQUIPMENT, UNLESS OTHERWISE NOTED ON THIS SCHEDULE.										(8) - ROUTE ALL FEEDERS CONCEALED FROM PUBLIC VIEW										
(2) - FUSE SHOWN FOR REFERENCE ONLY. PROVIDE FUSES AS RECOMMENDED BY EQUIP. MFG.																				
(3) - PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SW'S MOUNTED OUTDOORS.																				
(4) - COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT INSTALLER.																				
(5) - E.G. TO VERIFY THAT C.B. FOR COMPRESSORS IS SUFFICIENT TO ALLOW STARTING OF UNIT, IF																				
(6) - #12 FEEDERS SHOWN AND OVER SOFT. LONG TO BE #10 WIRE FOR 120V CIRCUITS.																				
(7) - #12 FEEDERS SHOWN AND OVER 150FT. LONG TO BE #10 WIRE FOR 277V CIRCUITS.																				
ABBREVIATIONS:																				
N.F. = NON FUSED																				
ICB = INPOLED CIRCUIT BREAKER																				
3R = NEMA 3R ENCLOSURE																				
4X = NEMA 4X STAINLESS STEEL ENCL.																				

GENERAL NOTES:
(1) - PROVIDE DISC. SW. AT ALL PECS OF EQUIPMENT. UNLESS OTHERWISE NOTED ON THIS SCHEDULE.
(2) - FUSES SHOWN FOR REFERENCE ONLY. PROVIDE FUSES AS RECOMMENDED BY EQUIP. MANUF.
(3) - PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SVS MOUNTED OUTDOORS.
(4) - COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT INSTALLER.
(5) - E.C. TO VERIFY THAT C.B. FOR COMPRESSORS IS SUFFICIENT TO ALLOW STARTING OF UNIT, IF
(6) - #12 FEEDERS SHOWN AND OVER 50FT. LONG TO BE #10 WIRE FOR 120V CIRCUITS.
#12 FEEDERS SHOWN AND OVER 100FT. LONG TO BE #10 WIRE FOR 277V CIRCUITS.

NOTES:
(a) - ROUTE ALL FEEDERS CONCEALED FROM PUBLIC VIEW

ABBREVIATIONS:
N.F. = NON-FUSED
E.C.B. = ENCLOSED CIRCUIT BREAKER
3R = NEMA 3R ENCLOSURE
4X = NEMA 4X W.P. STAINLESS STEEL ENCL.

MANUFACTURER: TYPE: AIC RATING: 14 K AMPS VOLTS L-N: 120 V VOLTS L-L: 208 V PHASE 3				MAIN OPTIONS REQUIRED: MCB: 200 AMPS MLO: N/A AMPS S.E. RATED: YES GFI PROT: NO SHUNT TRIP: N/A				PANEL NAME: PANEL GM LOCATION: MOUNTING: SURFACE DEPTH: 1 IN IN											
NOTES	CKT NO.	IDENTIFICATION	LOAD	LOAD/PHASE (KVA)			CIRCUIT BREAKER						LOAD/PHASE (KVA)			LOAD	IDENTIFICATION	CKT NO.	NOTES
				A	B	C	TRIP	P	P	TRIP	A	B	C						
	1	LIGHTING	L	0.88			20	1	1	20	0.57				L	LIGHTING	2		
	3	RECEPTS	R		1.08		20	1	1	20		0.15			L	EXTERIOR LIGHTING	4		
	5	EXTERIOR RECEPTS	R			0.54	20	1	1	20			0.90	R	RECEPTS	6			
	7	AHU-1 / CU-1	H	0.81			15	2	1	20	1.00			E	ECW	8			
	9		H		0.81		1	2	2	20		1.50		E	EW-1	10			
	11	EF-2	E			0.04	15	1					1.50	E		12			
	13	VENDING MACHINE	E	1.00			20	1	1	15	0.10			E	CP-1	14			
	15	SIGN & FOUNTAIN LIGHTING	L		0.29		20	1				2.88		E		16			
	17	PATH LIGHTING	L			0.41	20	2	3	40			2.88	E	FOUNTAIN CONTROL PANEL	18			
	19		L	0.41							2.88			E		20			
	21	PARKING & PATH LIGHTING	L			0.29	20	1	1	20		0.17		L	HERITAGE OAK LIGHTING	22			
	23		L			0.29							1.00	E	CAMERAS HEAD END EQUIPMENT	24			
	25	SITE CONVENIENCE RECEPTS	R	1.08			20	1	1	20	0.54			R	SITE CONVENIENCE RECEPTS	26			
	27						20	1	1	20						28			
	29						20	1	1	20						30			
	31						20	1	1	20						32			
	33						20	1	1	20						34			
	35						20	1	1	20						36			
	37						20	1								38			
	39						20	1	3	30					SURGE PROTECTION	40			
	41						20	1								42			
				4.2	2.5	1.3					5.1	4.7	6.3						

CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	3.46	1.25
RECEPTACLES 1ST 10 KVA(R)	4.14	1.00
RECEPTACLES OVER 10KVA(R)	0.00	0.50
HVAC EQUIPMENT (H)	1.62	1.00
APPLIANCES (A)	0.00	1.00
EQUIPMENT (E)	14.78	1.00
LARGEST MOTOR (M)	0.00	1.25
OTHER (O)	0.00	1.00
SPARE (S)	0.00	1.00
LINKED PANEL (P)		
INCLUDED IN ABOVE TOTALS		

TOTAL CONNECTED KVA: 24.00

TOTAL CONNECTED AMPS/PH: 67

TOTAL DEMAND KVA: 24.86

TOTAL DEMAND AMPS/PH: 69

GENERAL NOTES:

a. PROVIDE ARC FLASH LABELING FOR THE PANEL IN ACCORDANCE WITH NFPA 70 & 70E AS SPECIFIED.

SCHEDULE NOTES: