

PANEL INFORMATION				PANEL "12-LN2"										PANEL RATING & FEEDER					
MAIN TYPE		225A MLO		NORMAL POWER										PANEL AMPACITY:		225 AMPS			
VOLTAGE		120/208		NEW PANEL										PHASE CONDUCTORS:		#4/0 THWN			
MOUNTING		SURFACE												NEUTRAL:		#4 THWN			
AIC RATING		10000												# OF SETS:		(1 SET)			
ENCLOSURE TYPE		NEMA-1												SOURCE:		"T-12-LN2"			
CKT	DESCRIPTION	CB	WIRE SIZE	LOAD IN VOLT AMPS (VA)					PHASE	LOAD IN VOLT AMPS (VA)					CB	DESCRIPTION	CKT		
				LTG (125%)	RECEPT.	KITCHEN	HVAC	MISC		MISC	HVAC	KITCHEN	RECEPT.	LTG (125%)				WIRE SIZE	
1	RECEPTACLES	20	#12		540				A					#12	20	RECEPTACLES	2		
3	EXTERIOR RECEPTACLES	20	#12		1080				B					#12	20	REFRIGERATOR	4		
5	RECEPTACLES	20	#12		720				C					#12	20	COFFEE MAKER	6		
7	RECEPTACLES	20	#12		360				A					#12	20	MICROWAVE	8		
9	RECEPTACLES	20	#12		720				B					#12	20	RECEPTACLES	10		
11	RECEPTACLES	20	#12		540				C					#12	20	RECEPTACLES	12		
13	RECEPTACLES	20	#12		1080				A					#12	20	RECEPTACLES	14		
15	WATER SOFTENERS 12-WS-1 & 12-WS-2	20	#12						B			600		#8	40	12-ACCU-4 (CONDENSING UNIT)	16		
17	DOMESTIC WATER HEATER 12-WH-1	20	#12						C			1800					18		
19	SPARE	20	#12						A								20		
21	12-ACCU-2 (CONDENSING UNIT)	30	#10						B			1976		#10	30	12-FCCU-4 (FAN COIL UNIT)	22		
23									C			1976		#12	20	BAS CONTROL PANEL	24		
25	12-FCCU-2 (FAN COIL UNIT)	20	#12						A			1456					26		
27									B			1456		#10	30	UPS SYSTEM	28		
29	12-ACCU-3 (CONDENSING UNIT)	30	#10						C			1976					30		
31									A			1456		#12	20	FUEL MONITORING SYSTEM	32		
33	12-FCCU-3 (FAN COIL UNIT)	20	#12						B			1456		#12	20	HAZARDOUS CONTROL PANEL	34		
35									C			1456		#12	20	PACS PANEL	36		
37	SERVER RACK	20	#12						A			1000		#12	20	WATER QUALITY MONITORING SYSTEM	38		
39	SPARE	20	#12						B					#12	20	RECEPTACLES	40		
41	FLAME SAFEGUARD CONTROL PANEL	20	#12						C			200		#12	20	RECEPTACLES	42		
43	FLAME SAFEGUARD CONTROL PANEL	20	#12						A			200		#12	20	RECEPTACLES	44		
45	FLAME SAFEGUARD CONTROL PANEL	20	#12						B			200		#12	20	RECEPTACLES	46		
47	DIGITAL DIALER CONTROL PANEL	20	#12						C			200		#12	20	RECEPTACLES	48		
49	EXTERIOR RECEPTACLES	20	#12						A					#12	20	RECEPTACLES	50		
51	EXTERIOR RECEPTACLES	20	#12						B			720		#12	20	BASS CONTROL PANEL	52		
53	BOILER CONTROL PANEL (12-B-104) (FUTURE)	20	#12						C			540		#12	20	12-B-101 & 12-B-102	54		
55	RECEPTACLES	20	#12						A			1080		#12	20	12-B-103 & 12-B-104	56		
57									B					#12	20	DEAERATOR 12-DA-001	58		
59	PDU (POWER DISTRIBUTION UNIT)	20	#12						C			1000		#12	20	CONDENSATE STORAGE 12-CR-1	60		
61									A			1000		#12	20	CONTROL ROOM PANEL 12-CP1	62		
63									B			1000		#12	20	CONTROL ROOM PANEL 12-CP2	64		
65	PDU (POWER DISTRIBUTION UNIT)	20	#12						C			1000		#12	20	BOILER FUEL OIL PUMP 12-FO-101	66		
67									A			1000		#12	20	BOILER FUEL OIL PUMP 12-FO-102	68		
69	12-ACCU-1 (CONDENSING UNIT)	30	#10						B			1976		#12	20	EXHAUST FAN 12-EF-3	70		
71									C			1976		#12	20	OVERHEAD DOOR	72		
73	12-FCCU-1 (FAN COIL UNIT)	30	#10						A			1456		#12	20	WELDER	74		
75									B			1456		#12	20	NEW TUNNEL RECEPTACLES	76		
77	DRINKING FOUNTAIN	20	#12						C			200		#12	20	SPARE	78		
79	OUTDOOR SIGNAGE	20	#12						A			200		#12	20	SPARE	80		
81	SPARE	20	#12						B					#10	30	SPD-12-LN2 (125KA)	82		
83	SPARE	20	#12						C								84		
TOTAL LOADS						0	7380	0	13728	17264				20792	9252	0	9360	0	TOTAL LOADS

LOAD CALCULATION (NEC 2023 - ARTICLE 220)		LOAD TYPE	LOAD (kVA)	DEMAND %	DEMAND LOAD	kW
		LIGHTING	0.00	1.25		0.0 kW
		RECEPTACLES	10.00	1.00		13.4 kW
		RECEPTACLES > 10000	6.74	0.50		0.0 kW
		KITCHEN EQUIPMENT	0.00	0.65		38.1 kW
		MISC.	38.06	1.00		23.0 kW
		HVAC	22.98	1.00		74.4 kW
		TOTAL kW DEMAND				206.53 AMPS
		TOTAL DEMAND AMPS		100%		

1 PANEL SCHEDULE "12-LN2" (NORMAL POWER - 120/208 VOLTS) SCALE NOT TO SCALE

PANEL INFORMATION				PANEL "12-GEN"										PANEL RATING & FEEDER					
MAIN TYPE:		100A MLO		EMERGENCY LIFE SAFETY POWER										PANEL AMPACITY:		100 AMPS			
VOLTAGE:		120/208		NEW PANEL										PHASE CONDUCTORS:		(3) #3 THWN			
MOUNTING:		SURFACE												NEUTRAL:		(1) #8 THWN			
AIC RATING:		10000 AIC												# OF SETS:		(1 SET)			
ENCLOSURE TYPE:		NEMA-1												SOURCE:		SEE ONE-LINE DIAGRAM			
CKT	DESCRIPTION	CB	WIRE	LOAD IN VOLT AMPS (VA)					PHASE	LOAD IN VOLT AMPS (VA)					CB	DESCRIPTION	CKT		
				LTG(125%)	RECEPT.	KITCHEN	HVAC	MISC		MISC	HVAC	KITCHEN	RECEPT.	LTG(125%)				WIRE	
1	GENERATOR SUPPLY FUEL PUMP (2HP)	20	#12						A						20	GENERATOR RETURN FUEL PUMP (2HP)	2		
3									B								4		
5									C								6		
7	GENERATOR LIGHTS AND RECEPTACLES	20	#12	100	360				A					#12	20	12-FO-103 (GENERATOR FUEL OIL PUMP)	8		
9	BATTERY CHARGER	30	#10						B					#12	20	12-FO-104 (GENERATOR FUEL OIL PUMP)	10		
11	SPARE	20	#12						C					#12	20	MOTORIZED DAMPERS	12		
13	SPARE	20	#12						A					#12	20	SPARE	14		
15	SPARE	20	#12						B					#12	20	SPARE	16		
17	SPARE	20	#12						C					#12	20	SPARE	18		
19	SPARE	20	#12						A					#12	20	SPARE	20		
21	SPARE	20	#12						B					#12	20	SPARE	22		
23	SPARE	20	#12						C					#12	20	SPARE	24		
TOTAL LOADS						100	360	0	0	4700				5200	0	0	0	0	TOTAL LOADS

LOAD CALCULATION (NEC 2023 - ARTICLE 220)		LOAD TYPE	LOAD(kVA)	DEMAND %	DEMAND LOAD	kW
		LIGHTING	0.10	1.25		0.1 kW
		RECEPTACLES	0.36	1.00		0.4 kW
		RECEPTACLES > 10000	0.00	0.50		0.0 kW
		KITCHEN EQUIPMENT	0.00	0.65		9.9 kW
		MISC.	9.90	1.00		0.0 kW
		HVAC	0.00	1.00		10.4 kW
		TOTAL kW DEMAND				28.83 AMPS
		TOTAL DEMAND AMPS		100%		

2 PANEL SCHEDULE "12-GEN" (EMERGENCY LIFE SAFETY BRANCH - 120/208 VOLTS) SCALE NOT TO SCALE

ADDENDUM 1 ADDENDUM 3	08-09-2024 01-24-2025	CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title PANEL SCHEDULES	Phase 100% CONSTRUCTION DOCUMENTS	Project Title SIOUX FALLS BOILER PLANT	Project Number 438-22-900
Revisions:	Date:				U.S. Department of Veterans Affairs	Approved: Project Director	FULLY SPRINKLERED	Location VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Building Number 12
			9000 Weissex Place, Louisville, KY 40222 www.paradigmusa.com	1/24/2025				Issue Date 06/25/2024	Drawing Number EP604