

DISTRIBUTION PANELBOARD MDP														
VOLTAGE: 480Y/277V, 3PH, 4W					SPECIFICATION TYPE:					ENCLOSURE: NEMA 1				
BUS AMPS: 400 A					MIN AIC RATING: 35,000					MOUNTING: SURFACE				
MAIN: MLO; SEE SCHEDULE										LOCATION: GENERATOR 101				
CKT	AMPS	FRAME	P	TRIP	FEATURES				LOAD DESCRIPTION	NOTES	CONNECTED VA			LOAD
											PH A	PH B	PH C	
1	30 A		3	MTM					PUMP BP-01, 7.5 HP		2433	2433	2433	3
2	30 A		3	MTM					PUMP BP-02, 7.5 HP		2433	2433	2433	3
3	125 A		3	MTM					PUMP BP-03, 30 HP		9750	9750	9750	4
4	15 A		3	MTM					PUMP RC-01, 3 HP		977	977	977	3
5	50 A		3	MTM					NT01, TRANSFORMER, 30 KVA, TO NL01		7710	7710	7710	9
6	30 A		3						TVSS		0	0	0	5
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
LOAD SUMMARY AND CODE DEFINITIONS					CONNECTED LOAD		NEC		ESTIMATED DEMAND		PANEL TOTALS		NOTES:	
1	LIGHTING =				0 VA		125%		0 VA		TOTAL CONN LOAD: 70 kVA			
2	RECEPTACLES =				0 VA		10K+50%		0 VA		TOTAL EST DEMAND: 77 kVA			
3	MOTORS =				17529 VA		100%		17529 VA		TOTAL CONN: 84 A			
4	LARGEST MOTOR =				29250 VA		125%		36563 VA		TOTAL EST DEMAND: 93 A			
5	MISC. NON-CONTINUOUS =				0 VA		100%		0 VA					
6	MISC. CONTINUOUS =				0 VA		125%		0 VA					
7	NON-COINCIDENTAL =				0 VA		0%		0 VA					
8	SPARE =				0 VA		100%		0 VA					
9	OTHER =				23130 VA		100%		23130 VA					

PANELBOARD NL01																	
VOLTAGE: 208Y/120V, 3PH, 4W						SPECIFICATION TYPE: BPB						ENCLOSURE: NEMA 1					
BUS AMPS: 100 A						MIN AIC RATING: 10,000						MOUNTING: SURFACE					
MAIN: MCB; 100 A						CIRCUITS: 42						LOCATION: GENERATOR 101					
L O A D	CIRCUIT DESCRIPTION	NOTES	AMPS	P	CKT	CONNECTED VA			CONNECTED VA			CKT	P	AMPS	NOTES	CIRCUIT DESCRIPTION	L O A D
						PH A	PH B	PH C	PH A	PH B	PH C						
1	LTG, EXTERIOR & SITE		20 A	1	1	650			720	360		2	1	20 A		RCPT, PUMP RM AND CHLORINE RM	2
1	LTG, GENERATOR RM		20 A	1	3		232					4	1	20 A		RCPT, GENERATOR RM	2
1	LTG, PUMP ROOM		20 A	1	5			230			540	6	1	20 A		RCPT, EXTERIOR	2
5	PLC-01 CONTROL PANEL		20 A	1	7	1000			1300			8	2	20 A		UH-01	3
5	CHLORINE ANALYZER & DETECTION PANEL		20 A	1	9		1000			1300		10	--	--		--	--
4, 5	VF-01		20 A	1	11			300			1300	12	2	20 A		UH-02	3
3	EF-01, CHLORINE RM		20 A	1	13	80			1300			14	--	--		--	--
6	LEVEL SENSOR LV-002		20 A	2	15		0			1650		16	1	20 A		WH-01	5
--	--		--	--	17			0			300	18	1	15 A		CP-01	3
--	SPACE W/ HARDWARE		--	1	19	--			1500			20	1	20 A		CONVECTION HEATERS, CH-01, 02, 03	3
6, 3	TANK CATHODIC PROTECTION		20 A	1	21		1340			--		22	1	--		SPACE W/ HARDWARE	--
6, 3	TANK MIXER		20 A	1	23			1340			--	24	1	--		SPACE W/ HARDWARE	--
5	TANK ROOF VENT HEAT TRACE	2	20 A	1	25	50			--			26	1	--		SPACE W/ HARDWARE	--
5	TANK DRAIN HEAT TRACE	2	20 A	1	27		50			360		28	1	20 A	1	RCPT, TANK	2
--	SPACE W/ HARDWARE		--	1	29			--			--	30	1	--		SPACE W/ HARDWARE	--
3	DT-01		20 A	1	31	110			1500			32	1	20 A		GENERATOR JACKET WATER HEATER	5
--	SPACE W/ HARDWARE		--	1	33		--			300		34	1	20 A		BATTERY CHARGER	5
--	SPACE W/ HARDWARE		--	1	35			--			300	36	1	20 A		GENERATOR RM, OA, RA, EA DAMPER	5, 3
--	SPACE W/ HARDWARE		--	1	37	--		--				38	1	--		SPACE W/ HARDWARE	--
--	SPACE W/ HARDWARE		--	1	39		--	--		--		40	1	--		SPACE W/ HARDWARE	--
--	SPACE W/ HARDWARE		--	1	41			--		--		42	1	--		SPACE W/ HARDWARE	--
TOTAL LOAD:						8210 VA		PH B CONN		6592 VA		PH C CONN		4310 VA			
TOTAL AMPS:						71 A				58 A				36 A			
PHASE BALANCE:						A-B		A-C				B-C					
PERCENT:						25 %		90 %				53 %					
LOAD SUMMARY AND CODE DEFINITIONS			CONNECTED LOAD	NEC	ESTIMATED DEMAND	PANEL TOTALS			NOTES:								
1	LIGHTING =		1112 VA	125%	1390 VA	TOTAL CONN LOAD: 19 kVA			1. GFCI BREAKER (5mA).								
2	RECEPTACLES =		1980 VA	10K+50%	1980 VA	TOTAL EST DEMAND: 20 kVA			2. GFPE BREAKER (30mA).								
3	MOTORS =		9690 VA	100%	9690 VA	TOTAL CONN: 53 A											
4	LARGEST MOTOR =		300 VA	125%	375 VA	TOTAL EST DEMAND: 54 A											
5	MISC. NON-CONTINUOUS =		5550 VA	100%	5550 VA												
6	MISC. CONTINUOUS =		480 VA	125%	600 VA												
7	NON-COINCIDENTAL =		0 VA	0%	0 VA												
8	SPARE =		0 VA	100%	0 VA												
9	OTHER =		0 VA	100%	0 VA												

CONSULTANT :



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PROJECT :
CITY & BOROUGH OF YAKUTAT
WATER SYSTEM EXTENSION
YAKUTAT, ALASKA

SHEET TITLE :
PANEL SCHEDULES

DESIGN SH
DRAWN CSB
CHECKED BCH
DATE 04-16-2025

PROJECT No.
10297.24002
SHEET NUMBER

E-701

No.	Date	Item
REVISIONS		