

PANEL ID: PNL-E		AMPS: 225A		VOLTS: 120/208V		PHASE: 3 Ø		WIRE: 4		SURF. MOUNT ☒ FLUSH MOUNT ☐		TOP FED ☐ BOT. FED ☒		
DESCRIPTION: 120/208V PANELBOARD						LOCATION: ELECTRICAL ROOM								
MFG / MODEL: SIEMENS NLAB						INTERRUPTING RATING: 10 kA								
MAIN BREAKER: NONE						INST. SETTINGS: N/A								
CCT.	DESCRIPTION	NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	A	B	C	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION	CCT.
1	LIGHTING – ROOM 102		12	15	800					15	12		SUPERVISORY PANEL	2
3	LIGHTING – ROOM 103		12	15	800					15	12		TITRATOR	4
5	LIGHTING – ROOM 103		12	15	500					15	12		DRINKING FOUNTAIN	6
7	CONTROLLER		12	15						15	12		CHLORINATOR	8
9	CENTER PANEL RECEPTACLES		12	15						15	12		NITE LITES – SWITCHGEAR NORTH	10
11	MTS HORN		12	15						15	12		NITE LITES – SWITCHGEAR SOUTH	12
13	LIGHTING – EAST/SOUTH WALL		12	15						15	12		LIGHTING – CHLORINE ROOM	14
15	FLOOD LEVEL		12	15						15	12		CHLORINE EXHAUST FAN ANALYZER ROOM	16
17	RECEPTACLES-EAST/WEST WALL CHEM PUMP/SOLENOID		12	15						15	12		LIGHTING – CHLORINE ROOM	18
19	LIGHTING – EAST/SOUTH/NORTH WALL		12	15						15	12		UPS SUPPLY	20
21	NORTH-WEST WALL RECEPTACLES & PUMP FLOOR EMERGENCY LIGHTS	1	12	15	150					15	12		GAS JB-M690	22
23	PANEL RECEPTACLE		12	15						15	12		WEST WALL EXHAUST FAN CONTROL	24
25	INSTRUMENT AIR COMPRESSOR	1		15	1200									26
27	BUTTERFLY VALVE CONTROL			15						40	10		CONTROL ROOM FAN & HEAT	28
29	SPARE			15									CONDENSING UNIT (ON ROOF)	30
31	BURGLAR PANEL ALARM			15						20	10		CONTROL AIR CONDITIONING UNIT	32
33	ELECTRICAL ROOM RECEPTACLES (2)	1	12	15	240					15	12		TRANE CONTROL PANEL COOLING TOWER	34
35	EF-C642		12	25	1700					15	12		SPARE	36
37	EF-C644		12	15	350									38
39	EF-C640		12	25	1700					30	-		SPARE	40
41	EF-C641		12	15	700									42
43	SF-C630		12	15	350								SPACE	44
45	AHU-C601, AHU-C602 CONTROL POWER		12	15	120								SPACE	46
47	CONTROL PANEL CP-C827		12	15	700								SPACE	48
49	EMERGENCY SHOWER FLOW SWITCH U-C532		12	15									SPACE	50
51	SPACE												SPACE	52
53	SPACE												SPACE	54
55	SPACE												SPACE	56
57	SPACE												SPACE	58
59	SPACE												SPACE	60
61	SPACE												SPACE	62
63	SPACE												SPACE	64
65	SPACE												SPACE	66
67	SPACE												SPACE	68
69	SPACE												SPACE	70
71	SPACE												SPACE	72
73	SPACE												SPACE	74
75	SPACE												SPACE	76
77	SPACE												SPACE	78
79	SPACE												SPACE	80
81	SPACE												SPACE	82
83	SPACE												SPACE	84
TOTAL CONNECTED LOAD: – KVA												NOTE LEGEND: AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LKON LOCKED ON BREAKER LKOR RED LOCKED ON BREAKER		
PHASE A: – KVA – A														
PHASE B: – KVA – A														
PHASE C: – KVA – A														
NOTES: 1. LOAD (VA) IS ASSUMED.														

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SPECIFIC NOTES:

1 CONTRACTOR TO PROVIDE ALL BREAKERS, CONDUIT AND CABLING REQUIRED TO SUPPLY ALL NEW LOADS CONNECTED TO ESSENTIAL POWER PNL-E AND PNL-UPS.

2 PANELBOARD SCHEDULES UPDATED TO REFLECT CURRENT LOAD CONFIGURATIONS. CONTRACTOR TO PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES ONCE CONSTRUCTION IS COMPLETED.

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DEMOLITION NOTES:

A CONTRACTOR TO REMOVE EXISTING FEEDS FROM PNL-UPS CCT1 AND PNL-E CCT-43 AS EXISTING CHLORINE HVAC UNITS ARE BEING REMOVED.

B REMOVE FEED TO CHLORINE HORN/STROBE. HORN/STROBE TO BE FED FROM NEW CHLORINE DETECTION CONTROLLER SYSTEM.

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**ENGINEERS
GEOSCIENTISTS
MANITOBA**

Certificate of Authorization

AtkinsRéalis Canada Inc.

No. 4489

PANEL ID: PNL-UPS				AMPS: 225A		VOLTS: 120/240V		PHASE: 1 Ø		WIRE: 3		SURF. MOUNT ☒ FLUSH MOUNT ☐		TOP FED ☐ BOT. FED ☒		
DESCRIPTION: 120/208V PANELBOARD								LOCATION: ELECTRICAL ROOM								
MFG / MODEL: SIEMENS								INTERRUPTING RATING: 10 kA								
MAIN BREAKER: NONE								INST. SETTINGS: N/A								
CCT.	DESCRIPTION			NOTE	WIRE (AWG)	BRKR AMPS	LOAD (VA)	L1	L2	LOAD (VA)	BRKR AMPS	WIRE (AWG)	NOTE	DESCRIPTION		CCT.
1	SPARE				15						15	12	PP-15 DI/DO			2
3	OFFICE PLUGS				12	15					15	12	PP-15 EQUIPMENT			4
5	RADIO				12	15					15	12	PP-16 DI/DO			6
7	MCP EQUIPMENT				12	15					15	12	PP-16 EQUIPMENT			8
9	MCP DI/DO				12	15					15	12	PP-16 UTILITY			10
11	MCP UTILITY				12	15					15	12	PP-17 EQUIPMENT			12
13	PP-11 DI/DO				12	15					15	12	PP-17 DI/DO			14
15	PP-11 EQUIPMENT				12	15					15	12	PP-17 UTILITY			16
17	PP-12 DI/DO				12	15					15	12	812 CHLORINATOR #1			18
19	PP-12 EQUIPMENT				12	15					15	12	813 CHLORINATOR #2			20
21	PP-12 UTILITY				12	15					15	12	CL2 DETECTOR + AIT			22
23	PP-14 DI/DO				12	15					15	12	SCALE TRANSMITTER/810-WT			24
25	PP-14 UTILITY				12	15					15	12	CL2 SHUT OFF VALVE			26
27	PP-14 EQUIPMENT				12	15					15	12	FIRE ALARM PACP-M922			28
29	PP-14 UTILITY				12	15					15	12	UNDERVOLTAGE RELAY 52-M1			30
31	PP-15 UTILITY				12	15					15	12	UNDERVOLTAGE RELAY 52-M2			32
TOTAL CONNECTED LOAD: - KVA																
PHASE A: - KVA - A																
PHASE B: - KVA - A																
PHASE C: - KVA - A																
NOTE LEGEND: AFCI ARC FAULT CIRCUIT INTERRUPTOR GFCI GROUND FAULT CIRCUIT INTERRUPTOR LKON LOCKED ON BREAKER LKOR RED LOCKED ON BREAKER																
NOTES:																

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- NOTES:
- THIS DRAWING SUPERCEDES PART OF DRAWING HURST 37.
 - THIS DRAWING IS BASED UPON EXISTING DOCUMENTATION.
 - WHERE NOT SHOWN, EXISTING LOADS HAVE NOT BEEN CALCULATED.

				 148 Nature Park Way, Winnipeg, Manitoba Canada R3P 0X7 204-786-8080		ENGINEER'S SEAL	
DESIGNED BY: V. ELIMBAN		CHECKED BY: C. REIMER					
DRAWN BY: M.J. PERSSON		APPROVED BY: C. REIMER					
SCALE: NTS		ISSUED FOR CONSTRUCTION BY: M. SKINNER					
DATE: 2012/04/23		DATE: 2025/04/30					
CONSULTANT NO.: 113292-0016-47DD-0020							
NO. REVISIONS		DATE DESIGN CHECK					

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT		
HURST PUMPING STATION		
ELECTRICAL SCHEDULES 120V PANELBOARDS		
CITY DRAWING NUMBER 1-0650M-E0041		
SHEET 002	REV. 01	SIZE A1