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Client: The City of Winnipeg	Date: 2023-03-02
Project: Bannatyne Flood Pumping Station - 2023 Upgrades	Engineer's Seal
Package / Area: Bannatyne Flood Pumping Station	
Prepared By — Name: Nikolai Eschuk	
Checked By — Name: Mladen Saric	
Approved By — Name: Brian Cleven	

PROVINCE OF MANITOBA
M. SARIC
Member
46571
REGISTERED PROFESSIONAL ENGINEER
2023-03-03

REV 00

Notes / Comments

New & Existing Instrument List associated with Bannatyne Flood Pumping Station. Contractor is responsible for providing new instruments and submitting product data of each instrument listed as per relevant specification section. The Column labelled 'Supplied Under Form B Line Item' is a recommendation only.

Reference Drawings:
1-0118F-A0001-001 - Automation Plan Layout Main Floor and Dry Well Area
1-0118F-E0006-001 - Electrical Plan Layout Main Floor and Exterior
1-0118F-E0007-001 - Electrical Plan Layout Main Dry Well Area

Revisions

Rev	Description	Date	By	Checked	Approved
00	Issued for Construction, Tender 167-2003	2023-03-02	M. Saric	B. Cleven	B. Cleven

New / Existing	Tag	Description	Location	Specification	Plan Drawing	P&ID Drawing	Connection / Loop Drawing	Mounting	Supplied Under Form B Line Item	Notes
Existing	LIT-S951	CSO - Outfall Chamber Level Transmitter	Outfall Chamber	N/A	M006	N/A	1-0118F-A0025			
Existing	LT-S651	CSO - Incoming Flow Level Transmitter	Incoming Sewer Pipe	N/A	M006	N/A	1-0118F-A0025			
Existing	LT-S751	CSO - Incoming Flow Level Transmitter	Incoming Sewer Pipe	N/A	M006	N/A	1-0118F-A0025			
Existing	ZT-S851	CSO - Outfall Gate Inclination Transmitter	Weir Gate	N/A	M006	N/A	1-0118F-A0025			
New	ESL-F528	Control Panel CP-F81 120V Power Fail Relay	Main Floor	40 95 13	N/A	N/A	1-0118F-A0005	Panel	7 - Automation	Integral to CP-F81, supplied with CP-F81
New	HS-F508-3	Control Panel CP-F81 PLC Mode Reset	Main Floor	40 95 13	N/A	N/A	1-0118F-A0005	Panel	7 - Automation	Integral to CP-F81, supplied with CP-F81
New	HS-F522	Control Panel CP-F81 Alarm Mode Test Switch	Main Floor	40 95 13	N/A	N/A	1-0118F-A0005	Panel	7 - Automation	Integral to CP-F81, supplied with CP-F81
New	HS-F523	Station Enabled Hand Switch	Main Floor	40 95 13	N/A	1-0118F-P0002	1-0118F-A0005	Panel	7 - Automation	Integral to CP-F81, supplied with CP-F81
New	LE-F100	Wet Well Level Transducer	Wet Well	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0016	Suspended	7 - Automation	Supplied with LIC-500
New	LIC-F100	Wet Well Level Transmitter	Main Floor	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0016	Panel	7 - Automation	Integral to CP-F81, supplied with CP-F81
New	LSHH-F101	Wet Well High High Level Switch	Flood Wet Well	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0017	Suspended	7 - Automation	
New	LSH-F501	Dry Well High Level Switch	Dry Well	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0018	Suspended	7 - Automation	
New	TT-F691	Main Floor Temperature Transmitter	Main Floor	40 91 00	1-0118F-A0001	1-0118F-P0001	1-0118F-A0021	Wall	7 - Automation	
New	TT-F692	Dry Well Temperature Transmitter	Main Floor	40 91 00	1-0118F-A0001	1-0118F-P0001	1-0118F-A0022	Wall	7 - Automation	
New	PSL-F526	Seal Water Supply Low Pressure Switch	Dry Well	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0023	Pipe	7 - Automation	
New	HS-F600	Station Occupied Hand Switch	Main Floor	26 27 26	1-0118F-A0001	1-0118F-P0001	1-0118F-A0024	Wall	7 - Automation	Part of double pole light switch
New	LSH-S529	Weir Manhole - Weir Overflow Switch	Weir MH	40 91 00	M006	1-0118F-P0002	1-0118F-A0026	Suspended	7 - Automation	
New	PDSH-F611	HVAC Supply Duct Air Filter FIL-F61 Plugged	Main Floor	40 91 00	1-0118F-M0002	1-0118F-P0001	1-0118F-A0027	Duct	7 - Automation	
New	TE-F631	HVAC Supply Duct Temperature Sensor TE-F631	Main Floor	40 91 00		1-0118F-P0001	1-0118F-A0028	Duct	7 - Automation	
New	TY-F630	Duct Heater HCE-F63 Controller	Main Floor	23 82 40		1-0118F-P0001	1-0118F-A0028	Duct	4- Mechanical	
New	FV-F601	HVAC Ventilation Supply Air Damper	Main Floor	40 92 00	1-0118F-M0002	1-0118F-P0001	1-0118F-A0029	Damper	7 - Automation	Modulating, 24 VAC power supply, 0 - 10 VDC
New	FV-F602	HVAC Ventilation Return Air Damper	Main Floor	40 92 00	1-0118F-M0002	1-0118F-P0001	1-0118F-A0029	Damper	7 - Automation	Modulating, 24 VAC power supply, 0 - 10 VDC
New	FV-F603	HVAC Ventilation Exhaust Air Damper	Main Floor	40 92 00	1-0118F-M0002	1-0118F-P0001	1-0118F-A0029	Damper	7 - Automation	Modulating, 24 VAC power supply, 0 - 10 VDC
New	FSL-F011	Flood Pump P-F01 Seal Water Flow Switch	Dry Well	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0030	Pipe	7 - Automation	
New	FSL-F021	Flood Pump P-F02 Seal Water Flow Switch	Dry Well	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0030	Pipe	7 - Automation	
New	FSL-F031	Flood Pump P-F03 Seal Water Flow Switch	Dry Well	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0031	Pipe	7 - Automation	
New	FSL-F041	Flood Pump P-F04 Seal Water Flow Switch	Dry Well	40 91 00	1-0118F-A0001	1-0118F-P0002	1-0118F-A0031	Pipe	7 - Automation	
New	MCC-F71.PM	MCC-F71 600 VAC Power Meter	Main Floor	26 24 19			1-0118F-E0010	Panel	5 - Electrical	Integral to MCC-F71, supplied with MCC-F71
New	ESL-F721	MCC-F72 600VAC Power Fail Relay	Main Floor	26 24 19	N/A	N/A	1-0118F-E0010 /	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	XS-F711	MCC-F71 Transient Voltage Surge Supressor Relay	Main Floor	26 24 19	N/A	N/A	1-0118F-E0010/	Panel	5 - Electrical	Integral to MCC-F71, supplied with MCC-F71
New	HSS-F010-1	Flood Pump P-F01 Manual / Off / Auto Switch	Main Floor			1-0118F-P0002	1-0118F-E0013	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	HSS-F010-2	Flood Pump P-F01 Emergency Stop Button	Main Floor	40 92 00	1-0118F-E0006	1-0118F-P0002	1-0118F-E0013	Wall	5 - Electrical	Locate next to motor
New	HSS-F010-3	Flood Pump P-F01 Emergency Stop Button	Dry Well	40 92 00	1-0118F-E0007	1-0118F-P0002	1-0118F-E0013	Wall	5 - Electrical	Locate next to pump
New	HSS-F010-4	Flood Pump P-F01 Emergency Stop Button	Main Floor	26 24 19	1-0118F-E0006	1-0118F-P0002	1-0118F-E0013	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	II-F010	Flood Pump P-F01 Analog Current Meter	Main Floor	26 29 10			1-0118F-E0013	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	IT-F010	Flood Pump P-F01 Current Transducer	Main Floor	26 29 10		1-0118F-P0002	1-0118F-E0013	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	XV-F011	Flood Pump P-F01 Seal Water Solenoid Valve	Dry Well	40 92 00	1-0118F-A0001	1-0118F-P0002	1-0118F-E0013	Pipe	5 - Electrical	
New	HSS-F020-1	Flood Pump P-F02 Manual / Off / Auto Switch	Main Floor			1-0118F-P0002	1-0118F-E0015	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	HSS-F020-2	Flood Pump P-F02 Emergency Stop Button	Main Floor	40 92 00	1-0118F-E0006	1-0118F-P0002	1-0118F-E0015	Wall	5 - Electrical	Locate next to motor
New	HSS-F020-3	Flood Pump P-F02 Emergency Stop Button	Dry Well	40 92 00	1-0118F-E0007	1-0118F-P0002	1-0118F-E0015	Wall	5 - Electrical	Locate next to pump
New	HSS-F020-4	Flood Pump P-F02 Emergency Stop Button	Main Floor	26 24 19	1-0118F-E0006	1-0118F-P0002	1-0118F-E0015	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	II-F020	Flood Pump P-F02 Analog Current Meter	Main Floor	26 29 10			1-0118F-E0015	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	IT-F020	Flood Pump P-F02 Current Transducer	Main Floor	26 29 10		1-0118F-P0002	1-0118F-E0015	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	XV-F021	Flood Pump P-F02 Seal Water Solenoid Valve	Dry Well	40 92 00	1-0118F-A0001	1-0118F-P0002	1-0118F-E0015	Pipe	5 - Electrical	
New	HSS-F030-1	Flood Pump P-F03 Manual / Off / Auto Switch	Main Floor			1-0118F-P0002	1-0118F-E0017	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	HSS-F030-2	Flood Pump P-F03 Emergency Stop Button	Main Floor	40 92 00	1-0118F-E0006	1-0118F-P0002	1-0118F-E0017	Wall	5 - Electrical	Locate next to motor
New	HSS-F030-3	Flood Pump P-F03 Emergency Stop Button	Dry Well	40 92 00	1-0118F-E0007	1-0118F-P0002	1-0118F-E0017	Wall	5 - Electrical	Locate next to pump
New	HSS-F030-4	Flood Pump P-F03 Emergency Stop Button	Main Floor	26 24 19	1-0118F-E0006	1-0118F-P0002	1-0118F-E0017	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	II-F030	Flood Pump P-F03 Analog Current Meter	Main Floor	26 29 10			1-0118F-E0017	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	IT-F030	Flood Pump P-F03 Current Transducer	Main Floor	26 29 10		1-0118F-P0002	1-0118F-E0017	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	XV-F031	Flood Pump P-F03 Seal Water Solenoid Valve	Dry Well	40 92 00	1-0118F-A0001	1-0118F-P0002	1-0118F-E0017	Pipe	5 - Electrical	
New	HSS-F040-1	Flood Pump P-F04 Manual / Off / Auto Switch	Main Floor			1-0118F-P0002	1-0118F-E0019	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	HSS-F040-2	Flood Pump P-F04 Emergency Stop Button	Main Floor	40 92 00	1-0118F-E0006	1-0118F-P0002	1-0118F-E0019	Wall	5 - Electrical	Locate next to motor
New	HSS-F040-3	Flood Pump P-F04 Emergency Stop Button	Dry Well	40 92 00	1-0118F-E0007	1-0118F-P0002	1-0118F-E0019	Wall	5 - Electrical	Locate next to pump
New	HSS-F040-4	Flood Pump P-F04 Emergency Stop Button	Main Floor	26 24 19	1-0118F-E0006	1-0118F-P0002	1-0118F-E0019	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	II-F040	Flood Pump P-F04 Analog Current Meter	Main Floor	26 29 10			1-0118F-E0019	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	IT-F040	Flood Pump P-F04 Current Transducer	Main Floor	26 29 10		1-0118F-P0002	1-0118F-E0019	Panel	5 - Electrical	Integral to MCC-F72, supplied with MCC-F72
New	XV-F041	Flood Pump P-F04 Seal Water Solenoid Valve	Dry Well	40 92 00	1-0118F-A0001	1-0118F-P0002	1-0118F-E0019	Pipe	5 - Electrical	
New	HS-F621	Supply Fan SF-62 On / Off Switch	Main Floor	26 24 19		1-0118F-P0001	1-0118F-E0021	Wall	5 - Electrical	Integral to MCC-F71, supplied with MCC-F71
New	TIC-F600	Main Floor HVAC Temperature Controller	Main Floor	40 92 00		1-0118F-P0001		Wall	7 - Automation	
New	TS-F651	Unit Heater UH-F65 Thermostat	Main Floor	23 82 40		1-0118F-P0001		Wall	4- Mechanical	Supplied with Unit Heater UH-F65
New	TS-F661	Unit Heater UH-F66 Thermostat	Dry Well	23 82 40		1-0118F-P0001		Wall	4- Mechanical	Supplied with Unit Heater UH-F66