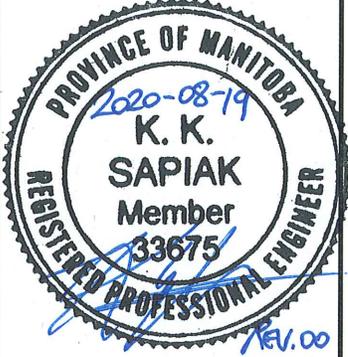


 SNC-LAVALIN	I/O LIST - PLC-F81			Document No. 672795-0000-48EL-0001	
				Revision: 00	
Client The City of Winnipeg			Date 2020-03-24		
Project Polson Flood Pumping Station - 2020 Upgrades					
Area Polson Flood Pumping Station & Comminutor Chamber					
Prepared By	Name K. Sapiak				
Checked By	Name B. Cleven				
Approved By	Name B. Cleven				
Notes / Comments Input & Output signal addresses associated with Polson Station PLC-F81. Reference Drawings: 1-0173F-A0005-001 - I/O Wiring Control Panel CP-F81 Discrete Inputs Rack 01, Module 04 1-0173F-A0006-001 - I/O Wiring Control Panel CP-F81 Discrete Inputs Rack 01, Module 05 1-0173F-A0007-001 - I/O Wiring Control Panel CP-F81 Discrete Outputs Rack 01, Module 07 1-0173F-A0009-001 - I/O Wiring Control Panel CP-F81 Analog Inputs Rack 01, Module 10 1-0173F-A0010-001 - I/O Wiring Control Panel CP-F81 Analog Inputs Rack 01, Module 11					
Revisions					
Rev	Description	Date	By	Checked	Approved
00	Issued For Construction	2020-08-19	K.S.	B.C.	B.C.

PLC Card	Fuse Number	Term Block	Term Number	Wire Tag	Rack	Module	Point	DNP3 Addr.	Tag	Description	Fail Safe (F/S)	0 State/ EU Minimum	1 State/ EU Maximum	I/O Type	Interface
Discrete Input (BMX DDI 3202K)	F204A	TB04	1	I1	01	04	00	00	HS-F522	Alarm Test Mode		Normal	Alarm Test Mode	DI - 24VDC Wet	N/A
	F204A	TB04	2	I2	01	04	01	01	LSH-S529	Weir Overflow Level	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	3	I3	01	04	02	02	LSH-F500	Wet Well High Level	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	4	I4	01	04	03	03	LSH-F501	Dry Well Flooding	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	5	I5	01	04	04	04	LSH-F502	Comminutor Chamber Flood	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	6	I6	01	04	05	05	YAF-F500	Level Transmitter Loss of Echo	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	7	I7	01	04	06	06	ESL-F721	MCC-F72 600 VAC Power Fail Alarm	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	8	I8	01	04	07	07	ESL-F528	120 VAC Power Fail Alarm	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	9	I9	01	04	08	08	XS-F711	MCC-F71 TVSS Status	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	10	I10	01	04	09	09		Spare				DI - 24VDC Wet	N/A
	F204A	TB04	11	I11	01	04	10	10		Spare				DI - 24VDC Wet	N/A
	F204A	TB04	12	I12	01	04	11	11	YA-F543	UPS Alarm	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204A	TB04	13	I13	01	04	12	12	YS-F543-1	UPS On Battery		Normal	On Battery	DI - 24VDC Wet	N/A
	F204A	TB04	14	I14	01	04	13	13	YS-F543-2	UPS Battery Charging		Not Charging	Charging	DI - 24VDC Wet	N/A
	F204A	TB04	15	I15	01	04	14	14	YS-F508-2	PLC Mode		Off	PLC Mode	DI - 24VDC Wet	N/A
	F204A	TB04	16	I16	01	04	15	15		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	17	I17	01	04	16	16	HS-F523	Station Enabled		Station Disabled	Station Enabled	DI - 24VDC Wet	N/A
	F204B	TB04	18	I18	01	04	17	17	HS-F508-3	PLC Mode Reset		Off	Reset	DI - 24VDC Wet	N/A
	F204B	TB04	19	I19	01	04	18	18	HS-F600	Station Occupied		Not Occupied	Occupied	DI - 24VDC Wet	N/A
	F204B	TB04	20	I20	01	04	19	19		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	21	I21	01	04	20	20		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	22	I22	01	04	21	21		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	23	I23	01	04	22	22	PDSH-F610	Main Supply Fan Air Filter Plugged	F/S	Plugged	Normal	DI - 24VDC Wet	N/A
	F204B	TB04	24	I24	01	04	23	23	PSL-F526	Seal Water Loss	F/S	Alarm	Normal	DI - 24VDC Wet	N/A
	F204B	TB04	25	I25	01	04	24	24		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	26	I26	01	04	25	25		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	27	I27	01	04	26	26		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	28	I28	01	04	27	27		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	29	I29	01	04	28	28		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	30	I30	01	04	29	29		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	31	I31	01	04	30	30		Spare				DI - 24VDC Wet	N/A
	F204B	TB04	32	I32	01	04	31	31		Spare				DI - 24VDC Wet	N/A
Discrete Input (BMX DDI 3202K)	F205A	TB05	33	I33	01	05	00	32	YL-F010	Flood Pump P-F01 Ready		Not Ready	Ready	DI - 24VDC Wet	N/A
	F205A	TB05	34	I34	01	05	01	33	YLR-F010	Flood Pump P-F01 Running		Off	Running	DI - 24VDC Wet	N/A
	F205A	TB05	35	I35	01	05	02	34	YAF-F010	Flood Pump P-F01 Soft Starter Fault		Normal	Fault	DI - 24VDC Wet	N/A
	F205A	TB05	36	I36	01	05	03	35	HS-F010-4A	Flood Pump P-F01 Automatic Mode		Not Auto Mode	Auto Mode	DI - 24VDC Wet	N/A
	F205A	TB05	37	I37	01	05	04	36	HS-F010-4M	Flood Pump P-F01 Manual Mode		Not Manual Mode	Manual Mode	DI - 24VDC Wet	N/A
	F205A	TB05	38	I38	01	05	05	37	FSL-F011	Flood Pump P-F01 Seal Water Flow		Off	Flowing	DI - 24VDC Wet	N/A
	F205A	TB05	39	I39	01	05	06	38		Spare				DI - 24VDC Wet	N/A
	F205A	TB05	40	I40	01	05	07	39		Spare				DI - 24VDC Wet	N/A
	F205A	TB05	41	I41	01	05	08	40	YL-F020	Flood Pump P-F02 Ready		Not Ready	Ready	DI - 24VDC Wet	N/A
	F205A	TB05	42	I42	01	05	09	41	YLR-F020	Flood Pump P-F02 Running		Off	Running	DI - 24VDC Wet	N/A
	F205A	TB05	43	I43	01	05	10	42	YAF-F020	Flood Pump P-F02 Soft Starter Fault		Normal	Fault	DI - 24VDC Wet	N/A
	F205A	TB05	44	I44	01	05	11	43	HS-F020-4A	Flood Pump P-F02 Automatic Mode		Not Auto Mode	Auto Mode	DI - 24VDC Wet	N/A
	F205A	TB05	45	I45	01	05	12	44	HS-F020-4M	Flood Pump P-F02 Manual Mode		Not Manual Mode	Manual Mode	DI - 24VDC Wet	N/A
	F205A	TB05	46	I46	01	05	13	45	FSL-F021	Flood Pump P-F02 Seal Water Flow		Off	Flowing	DI - 24VDC Wet	N/A
	F205A	TB05	47	I47	01	05	14	46		Spare				DI - 24VDC Wet	N/A
	F205A	TB05	48	I48	01	05	15	47		Spare				DI - 24VDC Wet	N/A
	F205B	TB05	49	I49	01	05	16	48	YL-F030	Flood Pump P-F03 Ready		Not Ready	Ready	DI - 24VDC Wet	N/A
	F205B	TB05	50	I50	01	05	17	49	YLR-F030	Flood Pump P-F03 Running		Off	Running	DI - 24VDC Wet	N/A
	F205B	TB05	51	I51	01	05	18	50	YAF-F030	Flood Pump P-F03 Soft Starter Fault		Normal	Fault	DI - 24VDC Wet	N/A
	F205B	TB05	52	I52	01	05	19	51	HS-F030-4A	Flood Pump P-F03 Automatic Mode		Not Auto Mode	Auto Mode	DI - 24VDC Wet	N/A
	F205B	TB05	53	I53	01	05	20	52	HS-F030-4M	Flood Pump P-F03 Manual Mode		Not Manual Mode	Manual Mode	DI - 24VDC Wet	N/A
	F205B	TB05	54	I54	01	05	21	53	FSL-F031	Flood Pump P-F03 Seal Water Flow		Off	Flowing	DI - 24VDC Wet	N/A
	F205B	TB05	55	I55	01	05	22	54		Spare				DI - 24VDC Wet	N/A
	F205B	TB05	56	I56	01	05	23	55	YA-F652	Intake Damper FV-F652 Fail to Open				DI - 24VDC Wet	N/A
	F205B	TB05	57	I57	01	05	24	56	YLR-F620	Motor Room Supply Fan SF-F62 Running		Off	Running	DI - 24VDC Wet	N/A
	F205B	TB05	58	I58	01	05	25	57	YA-F620	Motor Room Supply Fan SF-F62 Overload		Normal	Overload	DI - 24VDC Wet	N/A
	F205B	TB05	59	I59	01	05	26	58	YLR-F650	Motor Room Cooling Fan EF-F65 Running		Off	Running	DI - 24VDC Wet	N/A

PLC Card	Fuse Number	Term Block	Term Number	Wire Tag	Rack	Module	Point	DNP3 Addr.	Tag	Description	Fail Safe (F/S)	0 State/ EU Minimum	1 State/ EU Maximum	I/O Type	Interface
	F205B	TB05	60	I60	01	05	27	59	YA-F650	Motor Room Cooling Fan EF-F65 Overload		Normal	Overload	DI - 24VDC Wet	N/A
	F205B	TB05	61	I61	01	05	28	60	YLR-F660	Comm Chamber Supply Fan SF-F66 Running		Off	Running	DI - 24VDC Wet	N/A
	F205B	TB05	62	I62	01	05	29	61	YA-F660	Comm Chamber Supply Fan SF-F66 Overload		Normal	Overload	DI - 24VDC Wet	N/A
	F205B	TB05	63	I63	01	05	30	62	YLR-F670	Comm Chamber Exhaust Fan EF-F67 Running		Off	Running	DI - 24VDC Wet	N/A
	F205B	TB05	64	I64	01	05	31	63	YA-F670	Comm Chamber Exhaust Fan EF-F67 Overload		Normal	Overload	DI - 24VDC Wet	N/A
Discrete Output (BMX DDO 1602)	F207	TB07	1	Q1	01	07	00	00	YCR-F010	Flood Pump P-F01 Run Command		Stop Command	Run Command	DO - 24VDC Wet	24 VDC / 24 VDC Relay
	F207	TB07	2	Q2	01	07	01	01	YCR-F020	Flood Pump P-F02 Run Command		Stop Command	Run Command	DO - 24VDC Wet	24 VDC / 24 VDC Relay
	F207	TB07	3	Q3	01	07	02	02	YCR-F030	Flood Pump P-F03 Run Command		Stop Command	Run Command	DO - 24VDC Wet	24 VDC / 24 VDC Relay
	F207	TB07	4	Q4	01	07	03	03		Spare				DO - 24VDC Wet	N/A
	F207	TB07	5	Q5	01	07	04	04		Spare				DO - 24VDC Wet	N/A
	F207	TB07	6	Q6	01	07	05	05		Spare				DO - 24VDC Wet	N/A
	F207	TB07	7	Q7	01	07	06	06		Spare				DO - 24VDC Wet	N/A
	F207	TB07	8	Q8	01	07	07	07		Spare				DO - 24VDC Wet	N/A
	F207	TB07	9	Q9	01	07	08	08		Spare				DO - 24VDC Wet	N/A
	F207	TB07	10	Q10	01	07	09	09		Spare				DO - 24VDC Wet	N/A
	F207	TB07	11	Q11	01	07	10	10		Spare				DO - 24VDC Wet	N/A
	F207	TB07	12	Q12	01	07	11	11		Spare				DO - 24VDC Wet	N/A
	F207	TB07	13	Q13	01	07	12	12		Spare				DO - 24VDC Wet	N/A
	F207	TB07	14	Q14	01	07	13	13		Spare				DO - 24VDC Wet	24 VDC / 24 VDC Relay
	F207	TB07	15	Q15	01	07	14	14	YC-F508-1	Local Mode	-		Local Mode	DO - 24VDC Wet	24 VDC / 24 VDC Relay
	F207	TB07	16	Q16	01	07	15	15	YC-F508-2	PLC Mode Okay	-		PLC Mode	DO - 24VDC Wet	24 VDC / 24 VDC Relay
Analog Input (BMX AMI 0810)	F209	TB09	1	AI1	01	09	00	00	TT-F691	Flood Motor Room Temperature Transmitter		4 mA (-40°C)	4 mA (+100°C)	AI - 4-20mA Isol	3 Wire - Non-Isol
	F209	TB09	2	AI2	01	09	01	01	FV-F601	Ventilation Intake Damper Status		0 V (Closed)	10 V (Open)	0 - 10 V Isol	3 Wire - Non-Isol
	F209	TB09	3	AI3	01	09	02	02	FV-F602	Ventilation Return Damper Status		0 V (Open)	10 V (Closed)	0 - 10 V Isol	3 Wire - Non-Isol
	F209	TB09	4	AI4	01	09	03	03	FV-F603	Ventilation Exhaust Damper Status		0 V (Closed)	10 V (Open)	0 - 10 V Isol	3 Wire - Non-Isol
	F209	TB09	5	AI5	01	09	04	04		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
	F209	TB09	6	AI6	01	09	05	05		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
	F209	TB09	7	AI7	01	09	06	06		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
	F209	TB09	8	AI8	01	09	07	07		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
Analog Input (BMX AMI 0810)	F210	TB10	9	AI9	01	10	00	00	LIC-F500	Flood Station Wet Well Level Transmitter		4 mA (0 m)	20 mA (5.63 m)	AI - 4-20mA Isol	3 Wire - Non-Isol
	F210	TB10	10	AI10	01	10	01	01	IT-F010	Flood Pump P-F01 Motor Current Transducer		4 mA (0A)	20 mA (150A)	AI - 4-20mA Isol	3 Wire - Non-Isol
	F210	TB10	11	AI11	01	10	02	02	IT-F020	Flood Pump P-F02 Motor Current Transducer		4 mA (0A)	20 mA (150A)	AI - 4-20mA Isol	3 Wire - Non-Isol
	F210	TB10	12	AI12	01	10	03	03	IT-F030	Flood Pump P-F03 Motor Current Transducer		4 mA (0A)	20 mA (200A)	AI - 4-20mA Isol	3 Wire - Non-Isol
	F210	TB10	13	AI13	01	10	04	04		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
	F210	TB10	14	AI14	01	10	05	05		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
	F210	TB10	15	AI15	01	10	06	06		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
	F210	TB10	16	AI16	01	10	07	07		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
Analog Input (BMX AMI 0810)	F211	TB11	17	AI17	01	11	00	08	LT-F551	CSO - Incoming Flowmeter Level Transmitter		TBD	TBD	AI - 4-20mA Isol	3 Wire - Non-Isol
	F211	TB11	18	AI18	01	11	01	09	LT-F552	CSO - Incoming Flowmeter Rate Transmitter		TBD	TBD	AI - 4-20mA Isol	3 Wire - Non-Isol
	F211	TB11	19	AI19	01	11	02	10	LIT-F951	CSO - Outfall Chamber Level Transmitter		TBD	TBD	AI - 4-20mA Isol	3 Wire - Non-Isol
	F211	TB11	20	AI20	01	11	03	11	ZT-F851	CSO - Outfall Gate Inclination Transmitter		TBD	TBD	AI - 4-20mA Isol	3 Wire - Non-Isol
	F211	TB11	21	AI21	01	11	04	12		Spare		TBD	TBD	AI - 4-20mA Isol	3 Wire - Non-Isol
	F211	TB11	22	AI22	01	11	05	13		Spare		TBD	TBD	AI - 4-20mA Isol	3 Wire - Non-Isol
	F211	TB11	23	AI23	01	11	06	14		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol
	F211	TB11	24	AI24	01	11	07	15		Spare				AI - 4-20mA Isol	3 Wire - Non-Isol