

 SNC-LAVALIN	INSTRUMENT LIST		Document Code	634683-0000-48EL-0002
			Revision	00
Client City of Winnipeg				
Project Route 90 Underpass Pumping Station - 2016 Upgrades				
Package / Area				
Prepared By	Name	Signature	Date	
	B. Cleven		2016/08/29	
Checked By	Name	Signature	Date	
Approved By	Name	Signature	Date	
Notes / Comments				

Revisions					
Rev	Description	Date	By	Checked	Approved
00	Issued for Tender, Bid Op. 767-2016	2016-08-29	B. Cleven	F. Ataei	I. Parkinson

Rev	Tag	Description	New / Existing	Plan Drawing	P&ID Drawing	Schem / Loop Drawing	Mounting	Supplied Under Form B Line Item (See Note 1)	Notes
00	LIT-U500 / LE-U500	Wet Well Level Transmitter	New	1-0310U-E0006	-	1-0310U-A0014	Panel / Suspended	5 - Automation	Transmitter is on control panel CP-U81 door
00	AIT-U550 / AE-U550	Methane Gas Detector	New	1-0310U-E0005	-	1-0310U-A0013	Wall / Ceiling	5 - Automation	
00	HSS-U010-2	Underpass Pump P-U01 Emergency Stop PB	New	1-0310U-E0005	-	1-0310U-E0007	Wall	5 - Automation	Locate next to motor
00	HSS-U020-2	Underpass Pump P-U02 Emergency Stop PB	New	1-0310U-E0005	-	1-0310U-E0009	Wall	5 - Automation	Locate next to motor
00	LSH-U500	Wet Well Hi Level Switch	New	1-0310U-E0006	-	1-0310U-A0015	Suspended	5 - Automation	
00	LSHH-U500	Wet Well Hi-Hi Level Switch	New	1-0310U-E0006	-	1-0310U-A0015	Suspended	5 - Automation	
00	LSR-U031	Wet Well Level Switch - N.G. Engine Start	New	1-0310U-E0006	-	1-0310U-A0034	Suspended	5 - Automation	
00	LSS-U031	Wet Well Level Switch - N.G. Engine Stop	New	1-0310U-E0006	-	1-0310U-A0034	Suspended	5 - Automation	
00	ESL-U721	600V Voltage Status Relay (for alarming only)	New	-	-	1-0310U-A0017	Enclosure	4 - Electrical	Integral to MCC-U72
00	ESL-U722	600V Voltage Status Relay (for N.G. Engine control)	New	-	-	1-0310U-A0034	Enclosure	4 - Electrical	Integral to MCC-U72
00	ESL-U528	120V Voltage Status Relay	New	-	-	1-0310U-A0003	Enclosure	5 - Automation	Integral to CP-U81
00	TSH-U600 / TSL-U600	Main Floor High/Low Temperature Switch	New	1-0310U-E0005	1-0310U-P0001	1-0310U-A0019	Wall	5 - Automation	Dual switch, independently adjustable
00	TSH-U651	Main Floor High Temp Switch (for SF-U65 Control)	New	1-0310U-E0005	1-0310U-P0001	1-0310U-E0015	Wall	5 - Automation	Dual switch, independently adjustable
00	TSH-U690	N.G. Engine Cooling - Room High Temperature Switch	New	1-0310U-E0005	1-0310U-P0001	1-0310U-A0029	Wall	5 - Automation	Single switch
00	PDSH-U610	Supply Fan Air Filter Plugged Switch	New	1-0310U-M0001	1-0310U-P0001	1-0310U-A0018	Duct	5 - Automation	
00	FV-U601	Main Floor Intake Air Damper Actuator	New	1-0310U-M0001	1-0310U-P0001	1-0310U-A0025	Damper	5 - Automation	Modulating, 24 Vac power supply, 0 - 10 Vdc control
00	FV-U604	Engine Combustion Air Damper Actuator	New	1-0310U-M0001	1-0310U-P0001	1-0310U-A0030	Damper	5 - Automation	On/Off control, 24 Vdc power supply
00	FV-U651	Main Floor Cooling Fan SF-U65 Damper Actuator	New	1-0310U-M0001	1-0310U-P0001	1-0310U-E0015	Damper	5 - Automation	On/Off control, 120 Vac power supply.
00	FV-U661	Wet Well Intake Air Damper Actuator	New	1-0310U-M0001	1-0310U-P0001	1-0310U-A0027	Damper	5 - Automation	On/Off control, 120 Vac power supply
00	FV-U681	Wet Well Exhaust Air Damper Actuator	New	1-0310U-M0001	1-0310U-P0001	1-0310U-A0028	Damper	5 - Automation	On/Off control, 120 Vac power supply
00	FV-U691	N.G. Engine Cooling Intake Air Damper Actuator	New	1-0310U-M0001	1-0310U-P0001	1-0310U-A0029	Damper	5 - Automation	On/Off control, 24 Vdc power supply.
00	FV-U692	N.G. Engine Cooling Exhaust Air Damper Actuator	New	1-0310U-M0001	1-0310U-P0001	1-0310U-A0029	Damper	5 - Automation	On/Off control, 24 Vdc power supply.
00	FV-U693	N.G. Engine Cooling Return Air Damper Actuator	New	1-0310U-M0001	1-0310U-P0001	1-0310U-A0029	Damper	5 - Automation	On/Off control, 24 Vdc power supply.
00	TIC-U600	Main Floor HVAC Controller	New	1-0310U-E0005	1-0310U-P0001	-	Wall	5 - Automation	
00	TIC-U660	Wet Well HVAC Controller	New	1-0310U-E0005	1-0310U-P0001	-	Wall	5 - Automation	
00	TTS-U641	Unit Heater UH-U64 Thermostat	New	1-0310U-M0001	1-0310U-P0001	-	Wall	3 - Mechanical	Supplied with Unit Heater
00	TE-U621	Main Floor Supply Air Duct Temperature Sensor	New	-	1-0310U-P0001	1-0310U-A0024	Duct	5 - Automation	
00	TE-U661	Wet Well Supply Air Duct Temperature Sensor	New	-	1-0310U-P0001	1-0310U-A0026	Duct	5 - Automation	

Notes:

- The specific item indicated in the "Supplied Under Form B Line Item" column is a suggestion only. The Contractor may divide the supply of the instruments between subtrades as required.