

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
1	0	C	005	LT		Submersible Level Transmitter	Distribution Chamber	17701	I107	P5.01	ILD-14	I1.05	CON
2	0	C	005	LSH		High Level Switch	Distribution Chamber	17701	I105	P5.01	ILD-05	I1.05	CON
3	0	C	010	HS	1	Local/Off/Remote Selector Switch	Weir Gate #010	11125		P5.01	ILD-01	I1.05	PKG
4	0	C	010	HS	2	Open/Close Selector Switch	Weir Gate #010	11125		P5.01	ILD-01	I1.05	PKG
5	0	C	010	ZSB		Closed limit switch	Weir Gate #010	11125		P5.01	ILD-01	I1.05	PKG
6	0	C	010	ZSD		Open limit switch	Weir Gate #010	11125		P5.01	ILD-01	I1.05	PKG
7	0	C	010	ZIT		Position Indicating Transmitter	Weir Gate #010	11125		P5.01	ILD-01	I1.05	PKG
8	0	C	010	ZC		Position Controller	Weir Gate #010	11125		P5.01	ILD-01	I1.05	PKG
9	0	C	020	HS	1	Local/Off/Remote Selector Switch	Weir Gate #020	11125		P5.01	ILD-01	I1.05	PKG
10	0	C	020	HS	2	Open/Close Selector Switch	Weir Gate #020	11125		P5.01	ILD-01	I1.05	PKG
11	0	C	020	ZSB		Closed limit switch	Weir Gate #020	11125		P5.01	ILD-01	I1.05	PKG
12	0	C	020	ZSD		Open limit switch	Weir Gate #020	11125		P5.01	ILD-01	I1.05	PKG
13	0	C	020	ZIT		Position Indicating Transmitter	Weir Gate #020	11125		P5.01	ILD-01	I1.05	PKG
14	0	C	020	ZC		Position Controller	Weir Gate #020	11125		P5.01	ILD-01	I1.05	PKG
15													
16	0	C	100	LT	1	Level Transmitter	SBR Tank 1	17701	I107	P6.01	ILD-14	I1.05	CON
17	0	C	100	LT	2	Level Transmitter	SBR Tank 1	17701	I107	P6.01	ILD-14	I1.05	CON
18	0	C	106	FV		Solenoid Valve	SBR 1 Flushing Water Spray	17701	I111	P6.01	ILD-06	I1.02	CON
19	0	C	160	HS	1	Forward-Off-Reverse	Decanters Basin local control panel	11538		P6.01	NOTE 1	I1.05	PKG
20	0	C	160	HK		Hand Controller	Decanters #160 VFD	11538		P6.01	NOTE 1		PKG
21	0	C	160	ZS	1	Parked Switch	Decanters #160	11538		P6.01	NOTE 1	I1.04	PKG
22	0	C	160	ZS	2	Low limit Switch	Decanters #160	11538		P6.01	NOTE 1	I1.04	PKG
23	0	C	160	ZS	3	Parked Backup Switch	Decanters #160	11538		P6.01	NOTE 1	I1.04	PKG
24	0	C	160	ZS	4	Low limit Backup Switch	Decanters #160	11538		P6.01	NOTE 1	I1.04	PKG
25	0	C	184	FCV	1	Motorized Damper	Motorized Damper #184	15835		P6.01	ILD-21	I1.05	PKG
26													
27	0	C	200	LT	1	Level Transmitter	SBR Tank 2	17701	I107	P6.02	ILD-14	I1.05	CON
28	0	C	200	LT	2	Level Transmitter	SBR Tank 2	17701	I107	P6.02	ILD-14	I1.05	CON
29	0	C	206	FV		Solenoid Valve	SBR 2 Flushing Water Spray	17701	I111	P6.02	ILD-06	I1.02	CON
30	0	C	260	HS	1	Forward-Off-Reverse	Decanters Basin local control panel	11538		P6.02	NOTE 1	I1.05	PKG
31	0	C	260	HK		Hand Controller	Decanters #260 VFD	11538		P6.02	NOTE 1		PKG
32	0	C	260	ZS	1	Parked Switch	Decanters #260	11538		P6.02	NOTE 1	I1.04	PKG
33	0	C	260	ZS	2	Low limit switch	Decanters #260	11538		P6.02	NOTE 1	I1.04	PKG
34	0	C	260	ZS	3	Parked Backup Switch	Decanters #260	11538		P6.02	NOTE 1	I1.04	PKG
35	0	C	260	ZS	4	Low limit Backup Switch	Decanters #260	11538		P6.02	NOTE 1	I1.04	PKG
36	0	C	284	FCV		Local/Off/Remote Selector Switch	Motorized Damper #284	15835		P6.02	ILD-21	I1.05	PKG
37													
38	0	C	190	HS	1	Lock-Off Stop Pushbutton Switch	Sampling Pump #190	17216		P6.03	ILD-29	I1.02	CON

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
								INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.
39	0	C	190	HS	2	Computer-Off-Hand Selector Switch	Sampling Pump #190	17216		P6.03	ILD-29	I1.02	CON
40	0	C	190	MM		Running Pilot Light	Sampling Pump #190	17216		P6.03	ILD-29	I1.02	CON
41	0	C	190	MO		Stopped Pilot Light	Sampling Pump #190	17216		P6.03	ILD-29	I1.02	CON
42	0	C	185	AE	1	DO Sensor	Chemical Sample #185	17701	I113	P6.03	ILD-07	I1.02	CON
43	0	C	185	AIT	1	DO Analytical Transmitter	Chemical Sample #185	17701	I113	P6.03	ILD-07	I1.02	CON
44	0	C	185	AY	1	Instrument Fault	Chemical Sample #185	17701	I113	P6.03	ILD-07	I1.02	CON
45	0	C	185	AE	2	pH Sensor	Chemical Sample #185	17701	I114	P6.03	ILD-08	I1.02	CON
46	0	C	185	AIT	2	pH Analytical Transmitter	Chemical Sample #185	17701	I114	P6.03	ILD-08	I1.02	CON
47	0	C	185	AY	2	Instrument Fault	Chemical Sample #185	17701	I114	P6.03	ILD-08	I1.02	CON
48	0	C	185	TE		Temperature Element	Chemical Sample #185	17701	I114	P6.03	ILD-08	I1.02	CON
49	0	C	185	TIT		Temperature Transmitter	Chemical Sample #185	17701	I114	P6.03	ILD-08	I1.02	CON
50	0	C	290	HS	1	Lock-Off Stop Pushbutton Switch	Sampling Pump #290	17216		P6.03	ILD-29	I1.02	CON
51	0	C	290	HS	2	Computer-Off-Hand Selector Switch	Sampling Pump #290	17216		P6.03	ILD-29	I1.02	CON
52	0	C	290	MM		Running Pilot Light	Sampling Pump #290	17216		P6.03	ILD-29	I1.02	CON
53	0	C	290	MO		Stopped Pilot Light	Sampling Pump #290	17216		P6.03	ILD-29	I1.02	CON
54	0	C	285	AE	1	DO Sensor	Chemical Sample #285	17701	I113	P6.03	ILD-07	I1.02	CON
55	0	C	285	AIT	1	DO Analytical Transmitter	Chemical Sample #285	17701	I113	P6.03	ILD-07	I1.02	CON
56	0	C	285	AY	1	Instrument Fault	Chemical Sample #285	17701	I113	P6.03	ILD-07	I1.02	CON
57	0	C	285	AE	2	pH Sensor	Chemical Sample #285	17701	I114	P6.03	ILD-08	I1.02	CON
58	0	C	285	AIT	2	pH Analytical Transmitter	Chemical Sample #285	17701	I114	P6.03	ILD-08	I1.02	CON
59	0	C	285	AY	2	Instrument Fault	Chemical Sample #285	17701	I114	P6.03	ILD-08	I1.02	CON
60	0	C	285	TE		Temperature Element	Chemical Sample #285	17701	I114	P6.03	ILD-08	I1.02	CON
61	0	C	285	TIT		Temperature Transmitter	Chemical Sample #285	17701	I114	P6.03	ILD-08	I1.02	CON
62	0	C	040	AK		Analyzer Hand Controller	Chemical Analyzer #040	11851		P6.03	ILD-28	I1.02	PKG
63													
64	0	C	110	HS	1	Lock-Off Stop Pushbutton Switch	SBR Mixer #110	17216		P6.04	ILD-32	I1.05	CON
65	0	C	110	HS	2	Computer-Off-Hand Selector Switch	SBR Mixer #110	17216		P6.04	ILD-32	I1.05	CON
66	0	C	110	MM	1	Running Pilot Light	SBR Mixer #110	17216		P6.04	ILD-32	I1.05	CON
67	0	C	110	MO	1	Stopped Pilot Light	SBR Mixer #110	17216		P6.04	ILD-32	I1.05	CON
68	0	C	110	TE		Temperature Element	SBR Mixer #110	11207		P6.04		I1.04	PKG
69	0	C	110	NE		Moisture Element	SBR Mixer #110	11207		P6.04		I1.04	PKG
70	0	C	110	TY		Temperature Relay	SBR Mixer #110	11207		P6.04	ILD-32		PKG
71	0	C	110	NY		Moisture Relay	SBR Mixer #110	11207		P6.04	ILD-32		PKG
72	0	C	120	HS	1	Lock-Off Stop Pushbutton Switch	SBR Mixer #120	17216		P6.04	ILD-32	I1.05	CON
73	0	C	120	HS	2	Computer-Off-Hand Selector Switch	SBR Mixer #120	17216		P6.04	ILD-32	I1.05	CON
74	0	C	120	MM	1	Running Pilot Light	SBR Mixer #120	17216		P6.04	ILD-32	I1.05	CON
75	0	C	120	MO	1	Stopped Pilot Light	SBR Mixer #120	17216		P6.04	ILD-32	I1.05	CON
76	0	C	120	TE		Temperature Element	SBR Mixer #120	11207		P6.04		I1.04	PKG

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES				
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE
77	0	C	120	NE		Moisture Element	SBR Mixer #120	11207	P6.04		11.04	PKG
78	0	C	120	TY		Temperature Relay	SBR Mixer #120	11207	P6.04	ILD-32		PKG
79	0	C	120	NY		Moisture Relay	SBR Mixer #120	11207	P6.04	ILD-32		PKG
80	0	C	130	HS	1	Lock-Off Stop Pushbutton Switch	SBR Mixer #130	17216	P6.04	ILD-32	11.05	CON
81	0	C	130	HS	2	Computer-Off-Hand Selector Switch	SBR Mixer #130	17216	P6.04	ILD-32	11.05	CON
82	0	C	130	MM	1	Running Pilot Light	SBR Mixer #130	17216	P6.04	ILD-32	11.05	CON
83	0	C	130	MO	1	Stopped Pilot Light	SBR Mixer #130	17216	P6.04	ILD-32	11.05	CON
84	0	C	130	TE		Temperature Element	SBR Mixer #130	11207	P6.04		11.04	PKG
85	0	C	130	NE		Moisture Element	SBR Mixer #130	11207	P6.04		11.04	PKG
86	0	C	130	TY		Temperature Relay	SBR Mixer #130	11207	P6.04	ILD-32		PKG
87	0	C	130	NY		Moisture Relay	SBR Mixer #130	11207	P6.04	ILD-32		PKG
88	0	C	210	HS	1	Lock-Off Stop Pushbutton Switch	SBR Mixer #210	17216	P6.04	ILD-32	11.05	CON
89	0	C	210	HS	2	Computer-Off-Hand Selector Switch	SBR Mixer #210	17216	P6.04	ILD-32	11.05	CON
90	0	C	210	MM	1	Running Pilot Light	SBR Mixer #210	17216	P6.04	ILD-32	11.05	CON
91	0	C	210	MO	1	Stopped Pilot Light	SBR Mixer #210	17216	P6.04	ILD-32	11.05	CON
92	0	C	210	TE		Temperature Element	SBR Mixer #210	11207	P6.04		11.04	PKG
93	0	C	210	NE		Moisture Element	SBR Mixer #210	11207	P6.04		11.04	PKG
94	0	C	210	TY		Temperature Relay	SBR Mixer #210	11207	P6.04	ILD-32		PKG
95	0	C	210	NY		Moisture Relay	SBR Mixer #210	11207	P6.04	ILD-32		PKG
96	0	C	220	HS	1	Lock-Off Stop Pushbutton Switch	SBR Mixer #220	17216	P6.04	ILD-32	11.05	CON
97	0	C	220	HS	2	Computer-Off-Hand Selector Switch	SBR Mixer #220	17216	P6.04	ILD-32	11.05	CON
98	0	C	220	MM	1	Running Pilot Light	SBR Mixer #220	17216	P6.04	ILD-32	11.05	CON
99	0	C	220	MO	1	Stopped Pilot Light	SBR Mixer #220	17216	P6.04	ILD-32	11.05	CON
100	0	C	220	TE		Temperature Element	SBR Mixer #220	11207	P6.04		11.04	PKG
101	0	C	220	NE		Moisture Element	SBR Mixer #220	11207	P6.04		11.04	PKG
102	0	C	220	TY		Temperature Relay	SBR Mixer #220	11207	P6.04	ILD-32		PKG
103	0	C	220	NY		Moisture Relay	SBR Mixer #220	11207	P6.04	ILD-32		PKG
104	0	C	230	HS	1	Lock-Off Stop Pushbutton Switch	SBR Mixer #230	17216	P6.04	ILD-32	11.05	CON
105	0	C	230	HS	2	Computer-Off-Hand Selector Switch	SBR Mixer #230	17216	P6.04	ILD-32	11.05	CON
106	0	C	230	MM	1	Running Pilot Light	SBR Mixer #230	17216	P6.04	ILD-32	11.05	CON
107	0	C	230	MO	1	Stopped Pilot Light	SBR Mixer #230	17216	P6.04	ILD-32	11.05	CON
108	0	C	230	TE		Temperature Element	SBR Mixer #230	11207	P6.04		11.04	PKG
109	0	C	230	NE		Moisture Element	SBR Mixer #230	11207	P6.04		11.04	PKG
110	0	C	230	TY		Temperature Relay	SBR Mixer #230	11207	P6.04	ILD-32		PKG
111	0	C	230	NY		Moisture Relay	SBR Mixer #230	11207	P6.04	ILD-32		PKG
112												
113	0	C	140	HS	1	Lock-Off Stop Pushbutton Switch	SBR Mixed Liquor Pump #140	17216	P6.05	ILD-32	11.05	CON
114	0	C	140	HS	2	Computer-Off-Hand Selector Switch	SBR Mixed Liquor Pump #140	17216	P6.05	ILD-32	11.05	CON

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
115	0	C	140	MM	1	Running Pilot Light	SBR Mixed Liquor Pump #140	17216		P6.05	ILD-32	I1.05	CON
116	0	C	140	MO	1	Stopped Pilot Light	SBR Mixed Liquor Pump #140	17216		P6.05	ILD-32	I1.05	CON
117	0	C	140	TE		Temperature Element	SBR Mixed Liquor Pump #140	11207		P6.05		I1.04	PKG
118	0	C	140	TY		Temperature Relay	SBR Mixed Liquor Pump #140	11207		P6.05	ILD-32		PKG
119	0	C	150	HS	1	Lock-Off Stop Pushbutton Switch	SBR WAS Pump #150	17216		P6.05	ILD-32	I1.05	CON
120	0	C	150	HS	2	Computer-Off-Hand Selector Switch	SBR WAS Pump #150	17216		P6.05	ILD-32	I1.05	CON
121	0	C	150	MM	1	Running Pilot Light	SBR WAS Pump #150	17216		P6.05	ILD-32	I1.05	CON
122	0	C	150	MO	1	Stopped Pilot Light	SBR WAS Pump #150	17216		P6.05	ILD-32	I1.05	CON
123	0	C	150	TE		Temperature Element	SBR WAS Pump #150	11207		P6.05		I1.04	PKG
124	0	C	150	NE		Moisture Element	SBR WAS Pump #150	11207		P6.05		I1.04	PKG
125	0	C	150	TY		Temperature Relay	SBR WAS Pump #150	11207		P6.05	ILD-32		PKG
126	0	C	150	NY		Moisture Relay	SBR WAS Pump #150	11207		P6.05	ILD-32		PKG
127	0	C	240	HS	1	Lock-Off Stop Pushbutton Switch	SBR Mixed Liquor Pump #240	17216		P6.05	ILD-32	I1.05	CON
128	0	C	240	HS	2	Computer-Off-Hand Selector Switch	SBR Mixed Liquor Pump #240	17216		P6.05	ILD-32	I1.05	CON
129	0	C	240	MM	1	Running Pilot Light	SBR Mixed Liquor Pump #240	17216		P6.05	ILD-32	I1.05	CON
130	0	C	240	MO	1	Stopped Pilot Light	SBR Mixed Liquor Pump #240	17216		P6.05	ILD-32	I1.05	CON
131	0	C	240	TE		Temperature Element	SBR Mixed Liquor Pump #240	11207		P6.05	ILD-32	I1.04	PKG
132	0	C	240	TY		Temperature Relay	SBR Mixed Liquor Pump #240	11207		P6.05	ILD-32		PKG
133	0	C	250	HS	1	Lock-Off Stop Pushbutton Switch	SBR WAS Pump #250	17216		P6.05	ILD-32	I1.05	CON
134	0	C	250	HS	2	Computer-Off-Hand Selector Switch	SBR WAS Pump #250	17216		P6.05	ILD-32	I1.05	CON
135	0	C	250	MM	1	Running Pilot Light	SBR WAS Pump #250	17216		P6.05	ILD-32	I1.05	CON
136	0	C	250	MO	1	Stopped Pilot Light	SBR WAS Pump #250	17216		P6.05	ILD-32	I1.05	CON
137	0	C	250	TE		Temperature Element	SBR WAS Pump #250	11207		P6.05		I1.04	PKG
138	0	C	250	NE		Moisture Element	SBR WAS Pump #250	11207		P6.05		I1.04	PKG
139	0	C	250	TY		Temperature Relay	SBR WAS Pump #250	11207		P6.05	ILD-32		PKG
140	0	C	250	NY		Moisture Relay	SBR WAS Pump #250	11207		P6.05	ILD-32		PKG
141													
142	0	C	300	LT	1	Level Transmitter	Equalization Tank	17701	I107	P7.01	ILD-14	I1.05	CON
143	0	C	300	LT	2	Level Transmitter	Equalization Tank	17701	I107	P7.01	ILD-14	I1.05	CON
144	0	C	330	HS	1	Lock-Off Stop Pushbutton Switch	Equalization Tank Pump #330	17216		P7.01	ILD-32	I1.05	CON
145	0	C	330	HS	2	Computer-Off-Hand Selector Switch	Equalization Tank Pump #330	17216		P7.01	ILD-32	I1.05	CON
146	0	C	330	HK		Hand Controller	Equalization Tank Pump #330 VFD	11538		P7.01	ILD-32		PKG
147	0	C	330	TE		Temperature Element	SBR WAS Pump #250	11207		P7.01		I1.04	PKG
148	0	C	330	NE		Moisture Element	SBR WAS Pump #250	11207		P7.01		I1.04	PKG
149	0	C	330	TY		Temperature Relay	SBR WAS Pump #250	11207		P7.01	ILD-32		PKG
150	0	C	330	NY		Moisture Relay	SBR WAS Pump #250	11207		P7.01	ILD-32		PKG
151	0	C	340	HS	1	Lock-Off Stop Pushbutton Switch	Equalization Tank Pump #340	17216		P7.01	ILD-30	I1.05	CON
152	0	C	340	HS	2	Computer-Off-Hand Selector Switch	Equalization Tank Pump #340	17216		P7.01	ILD-30	I1.05	CON

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION				REFERENCES				
						INSTRUMENT TYPE		SERVICE		SPEC. SHEET or SECTION		P&ID DRAWING	WIRING REF.	LOCATION DWG.
153	0	C	340	HK		Hand Controller	Equalization Tank Pump #340 VFD	11538		P7.01	ILD-30		PKG	
154	0	C	340	TE		Temperature Element	Equalization Tank Pump #340	11207		P7.01		I1.04	PKG	
155	0	C	340	NE		Moisture Element	Equalization Tank Pump #340	11207		P7.01		I1.04	PKG	
156	0	C	340	TY		Temperature Relay	Equalization Tank Pump #340	11207		P7.01	ILD-30		PKG	
157	0	C	340	NY		Moisture Relay	Equalization Tank Pump #340	11207		P7.01	ILD-30		PKG	
158	0	C	952	HS	1	Lock-Off Stop Pushbutton Switch	Sampling Pump #952	17216		P7.01	ILD-29	I1.02	CON	
159	0	C	952	HS	2	Computer-Off-Hand Selector Switch	Sampling Pump #952	17216		P7.01	ILD-29	I1.02	CON	
160	0	C	952	MM		Running Pilot Light	Sampling Pump #952	17216		P7.01	ILD-29	I1.02	CON	
161	0	C	952	MO		Stopped Pilot Light	Sampling Pump #952	17216		P7.01	ILD-29	I1.02	CON	
162	0	C	952	TE		Temperature Element	Sampling Pump #952	11207		P7.01	ILD-29	I1.04	PKG	
163	0	C	952	TY		Temperature Relay	Sampling Pump #952	11207		P7.01	ILD-29		PKG	
164	0	C	960	HS		Computer-Off-Hand Selector Switch	Bristol Sampler #960	11850		P7.01	ILD-27	I1.02	OWN	
165														
166	0	C	310	HS	1	Lock-Off Stop Pushbutton Switch	Equalization Tank Mixer #310	17216		P7.02	ILD-32	I1.05	CON	
167	0	C	310	HS	2	Computer-Off-Hand Selector Switch	Equalization Tank Mixer #310	17216		P7.02	ILD-32	I1.05	CON	
168	0	C	310	MM	1	Running Pilot Light	Equalization Tank Mixer #310	17216		P7.02	ILD-32	I1.05	CON	
169	0	C	310	MO	1	Stopped Pilot Light	Equalization Tank Mixer #310	17216		P7.02	ILD-32	I1.05	CON	
170	0	C	310	TE		Temperature Element	Equalization Tank Mixer #310	11207		P7.02		I1.04	PKG	
171	0	C	310	NE		Moisture Element	Equalization Tank Mixer #310	11207		P7.02		I1.04	PKG	
172	0	C	310	TY		Temperature Relay	Equalization Tank Mixer #310	11207		P7.02	ILD-32		PKG	
173	0	C	310	NY		Moisture Relay	Equalization Tank Mixer #310	11207		P7.02	ILD-32		PKG	
174	0	C	320	HS	1	Lock-Off Stop Pushbutton Switch	Equalization Tank Mixer #320	17216		P7.02	ILD-32	I1.05	CON	
175	0	C	320	HS	2	Computer-Off-Hand Selector Switch	Equalization Tank Mixer #320	17216		P7.02	ILD-32	I1.05	CON	
176	0	C	320	MM	1	Running Pilot Light	Equalization Tank Mixer #320	17216		P7.02	ILD-32	I1.05	CON	
177	0	C	320	MO	1	Stopped Pilot Light	Equalization Tank Mixer #320	17216		P7.02	ILD-32	I1.05	CON	
178	0	C	320	TE		Temperature Element	Equalization Tank Mixer #320	11207		P7.02		I1.04	PKG	
179	0	C	320	NE		Moisture Element	Equalization Tank Mixer #320	11207		P7.02		I1.04	PKG	
180	0	C	320	TY		Temperature Relay	Equalization Tank Mixer #320	11207		P7.02	ILD-32		PKG	
181	0	C	320	NY		Moisture Relay	Equalization Tank Mixer #320	11207		P7.02	ILD-32		PKG	
182														
183	0	C	410	TIT		Temperature Transmitter	Air Blower 1A #410 Inlet Temperature	17701	I104	P8.01	ILD-15	I1.02	CON	
184	0	C	410	PDIT		Differential Pressure Transmitter	Air Blower 1A #410 Inlet Pressure	11455		P8.01	ILD-19	I1.02	PKG	
185	0	C	410	PSL		Low Pressure Switch	Air Blower 1A #410 Inlet Pressure	11455		P8.01	ILD-19	I1.02	PKG	
186	0	C	410	VS	1	Vibration Sensor	Air Blower 1A #410 Motor	11206		P8.01	ILD-19	I1.02	PKG	
187	0	C	410	VS	2	Vibration Sensor	Air Blower 1A #410	11206		P8.01	ILD-19	I1.02	PKG	
188	0	C	410	TE	1A	Temperature Element	Air Blower 1A #410	11206		P8.01	ILD-16	I1.02	PKG	
189	0	C	410	TE	2A	Temperature Element	Air Blower 1A #410	11206		P8.01	ILD-16	I1.02	PKG	
190	0	C	410	TE	3A	Temperature Element	Air Blower 1A #410	11206		P8.01	ILD-16	I1.02	PKG	

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION			REFERENCES				
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
191	0	C	410	TE	1B	Temperature Element	Air Blower 1A #410	11206		P8.01	ILD-16	I.02	PKG
192	0	C	410	TE	2B	Temperature Element	Air Blower 1A #410	11206		P8.01	ILD-16	I.02	PKG
193	0	C	410	TE	3B	Temperature Element	Air Blower 1A #410	11206		P8.01	ILD-16	I.02	PKG
194	0	C	410	TE	4	Temperature Element	Air Blower 1A #410	11206		P8.01	ILD-16	I.02	PKG
195	0	C	410	TE	5	Temperature Element	Air Blower 1A #410	11206		P8.01	ILD-16	I.02	PKG
196	0	C	410	TSH		High Temperature Switch	Air Blower 1A #410 Discharge Flow	11455		P8.01	ILD-19	I.02	PKG
197	0	C	410	TI		Temperature Indicator	Air Blower 1A #410 Discharge Flow	11455		P8.01	ILD-19	I.02	PKG
198	0	C	410	PSH		High Pressure Switch	Air Blower 1A #410 Discharge Flow	11455		P8.01	ILD-19	I.02	PKG
199	0	C	410	PI		Pressure Gauge	Air Blower 1A #410 Discharge Flow	11455		P8.01	ILD-19	I.02	PKG
200	0	C	411	TE		Temperature Element	Air Blower 1A #410 Enclosure	11455		P8.01	ILD-19	I.02	PKG
201	0	C	411	TIT		Temperature Transmitter	Air Blower 1A #410 Enclosure	11455		P8.01	ILD-19	I.02	PKG
202	0	C	410	HS	1	Lock-Off Stop Pushbutton Switch	Air Blower 1A #410	17216		P8.01	ILD-30	I.02	CON
203	0	C	410	HS	2	Computer-Off-Hand Selector Switch	Air Blower 1A #410	17216		P8.01	ILD-30	I.02	CON
204	0	C	420	TIT		Temperature Transmitter	Air Blower 1B #420 Inlet Temperature	17701	I104	P8.01	ILD-15	I.02	CON
205	0	C	420	PDIT		Differential Pressure Transmitter	Air Blower 1B #420 Inlet Pressure	11455		P8.01	ILD-19	I.02	PKG
206	0	C	420	PSL		Low Pressure Switch	Air Blower 1B #420 Inlet Pressure	11455		P8.01	ILD-19	I.02	PKG
207	0	C	420	VS	1	Vibration Sensor	Air Blower 1B #420 Motor	11206		P8.01	ILD-19	I.02	PKG
208	0	C	420	VS	2	Vibration Sensor	Air Blower 1B #420	11206		P8.01	ILD-19	I.02	PKG
209	0	C	420	TE	1A	Temperature Element	Air Blower 1B #420	11206		P8.01	ILD-16	I.02	PKG
210	0	C	420	TE	2A	Temperature Element	Air Blower 1B #420	11206		P8.01	ILD-16	I.02	PKG
211	0	C	420	TE	3A	Temperature Element	Air Blower 1B #420	11206		P8.01	ILD-16	I.02	PKG
212	0	C	420	TE	1B	Temperature Element	Air Blower 1B #420	11206		P8.01	ILD-16	I.02	PKG
213	0	C	420	TE	2B	Temperature Element	Air Blower 1B #420	11206		P8.01	ILD-16	I.02	PKG
214	0	C	420	TE	3B	Temperature Element	Air Blower 1B #420	11206		P8.01	ILD-16	I.02	PKG
215	0	C	420	TE	4	Temperature Element	Air Blower 1B #420	11206		P8.01	ILD-16	I.02	PKG
216	0	C	420	TE	5	Temperature Element	Air Blower 1B #420	11206		P8.01	ILD-16	I.02	PKG
217	0	C	420	TSH		High Temperature Switch	Air Blower 1B #420 Discharge Flow	11455		P8.01	ILD-19	I.02	PKG
218	0	C	420	TI		Temperature Indicator	Air Blower 1B #420 Discharge Flow	11455		P8.01	ILD-19	I.02	PKG
219	0	C	420	PSH		High Pressure Switch	Air Blower 1B #420 Discharge Flow	11455		P8.01	ILD-19	I.02	PKG
220	0	C	420	PI		Pressure Gauge	Air Blower 1B #420 Discharge Flow	11455		P8.01	ILD-19	I.02	PKG
221	0	C	421	TE		Temperature Element	Air Blower 1B #420 Enclosure	11455		P8.01	ILD-19	I.02	PKG
222	0	C	421	TIT		Temperature Transmitter	Air Blower 1B #420 Enclosure	11455		P8.01	ILD-19	I.02	PKG
223	0	C	420	HS	1	Lock-Off Stop Pushbutton Switch	Air Blower 1B #420	17216		P8.01	ILD-30	I.02	CON
224	0	C	420	HS	2	Computer-Off-Hand Selector Switch	Air Blower 1B #420	17216		P8.01	ILD-30	I.02	CON
225	0	C	427	PIT		Pressure Transmitter	SBR 1 Aeration Pressure	17701	I110	P8.01	ILD-17	I.02	CON
226													
227	0	C	430	TIT		Temperature Transmitter	Air Blower 2A #430 Inlet Temperature	17701	I104	P8.02	ILD-15	I.02	CON
228	0	C	430	PDIT		Differential Pressure Transmitter	Air Blower 2A #430 Inlet Pressure	11455		P8.02	ILD-19	I.02	PKG

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
229	0	C	430	PSL		Low Pressure Switch	Air Blower 2A #430 Inlet Pressure	11455		P8.02	ILD-19	I.02	PKG
230	0	C	430	VS	1	Vibration Sensor	Air Blower 2A #430 Motor	11206		P8.02	ILD-19	I.02	PKG
231	0	C	430	VS	2	Vibration Sensor	Air Blower 2A #430	11206		P8.02	ILD-19	I.02	PKG
232	0	C	430	TE	1A	Temperature Element	Air Blower 2A #430	11206		P8.02	ILD-16	I.02	PKG
233	0	C	430	TE	2A	Temperature Element	Air Blower 2A #430	11206		P8.02	ILD-16	I.02	PKG
234	0	C	430	TE	3A	Temperature Element	Air Blower 2A #430	11206		P8.02	ILD-16	I.02	PKG
235	0	C	430	TE	1B	Temperature Element	Air Blower 2A #430	11206		P8.02	ILD-16	I.02	PKG
236	0	C	430	TE	2B	Temperature Element	Air Blower 2A #430	11206		P8.02	ILD-16	I.02	PKG
237	0	C	430	TE	3B	Temperature Element	Air Blower 2A #430	11206		P8.02	ILD-16	I.02	PKG
238	0	C	430	TE	4	Temperature Element	Air Blower 2A #430	11206		P8.02	ILD-16	I.02	PKG
239	0	C	430	TE	5	Temperature Element	Air Blower 2A #430	11206		P8.02	ILD-16	I.02	PKG
240	0	C	430	TSH		High Temperature Switch	Air Blower 2A #430 Discharge Flow	11455		P8.02	ILD-19	I.02	PKG
241	0	C	430	TI		Temperature Indicator	Air Blower 2A #430 Discharge Flow	11455		P8.02	ILD-19	I.02	PKG
242	0	C	430	PSH		High Pressure Switch	Air Blower 2A #430 Discharge Flow	11455		P8.02	ILD-19	I.02	PKG
243	0	C	430	PI		Pressure Gauge	Air Blower 2A #430 Discharge Flow	11455		P8.02	ILD-19	I.02	PKG
244	0	C	431	TE		Temperature Element	Air Blower 2A #430 Enclosure	11455		P8.02	ILD-19	I.02	PKG
245	0	C	431	TIT		Temperature Transmitter	Air Blower 2A #430 Enclosure	11455		P8.02	ILD-19	I.02	PKG
246	0	C	430	HS	1	Lock-Off Stop Pushbutton Switch	Air Blower 2A #430	17216		P8.02	ILD-30	I.02	CON
247	0	C	430	HS	2	Computer-Off-Hand Selector Switch	Air Blower 2A #430	17216		P8.02	ILD-30	I.02	CON
248	0	C	440	TIT		Temperature Transmitter	Air Blower 2B #440 Inlet Temperature	17701	1104	P8.02	ILD-15	I.02	CON
249	0	C	440	PDIT		Differential Pressure Transmitter	Air Blower 2B #440 Inlet Pressure	11455		P8.02	ILD-19	I.02	PKG
250	0	C	440	PSL		Low Pressure Switch	Air Blower 2B #440 Inlet Pressure	11455		P8.02	ILD-19	I.02	PKG
251	0	C	440	VS	1	Vibration Sensor	Air Blower 2B #440 Motor	11206		P8.02	ILD-19	I.02	PKG
252	0	C	440	VS	2	Vibration Sensor	Air Blower 2B #440	11206		P8.02	ILD-19	I.02	PKG
253	0	C	440	TE	1A	Temperature Element	Air Blower 2B #440	11206		P8.02	ILD-16	I.02	PKG
254	0	C	440	TE	2A	Temperature Element	Air Blower 2B #440	11206		P8.02	ILD-16	I.02	PKG
255	0	C	440	TE	3A	Temperature Element	Air Blower 2B #440	11206		P8.02	ILD-16	I.02	PKG
256	0	C	440	TE	1B	Temperature Element	Air Blower 2B #440	11206		P8.02	ILD-16	I.02	PKG
257	0	C	440	TE	2B	Temperature Element	Air Blower 2B #440	11206		P8.02	ILD-16	I.02	PKG
258	0	C	440	TE	3B	Temperature Element	Air Blower 2B #440	11206		P8.02	ILD-16	I.02	PKG
259	0	C	440	TE	4	Temperature Element	Air Blower 2B #440	11206		P8.02	ILD-16	I.02	PKG
260	0	C	440	TE	5	Temperature Element	Air Blower 2B #440	11206		P8.02	ILD-16	I.02	PKG
261	0	C	440	TSH		High Temperature Switch	Air Blower 2B #440 Discharge Flow	11455		P8.02	ILD-19	I.02	PKG
262	0	C	440	TI		Temperature Indicator	Air Blower 2B #440 Discharge Flow	11455		P8.02	ILD-19	I.02	PKG
263	0	C	440	PSH		High Pressure Switch	Air Blower 2B #440 Discharge Flow	11455		P8.02	ILD-19	I.02	PKG
264	0	C	440	PI		Pressure Gauge	Air Blower 2B #440 Discharge Flow	11455		P8.02	ILD-19	I.02	PKG
265	0	C	441	TE		Temperature Element	Air Blower 2B #440 Enclosure	11455		P8.02	ILD-19	I.02	PKG
266	0	C	441	TIT		Temperature Transmitter	Air Blower 2B #440 Enclosure	11455		P8.02	ILD-19	I.02	PKG

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
267	0	C	440	HS	1	Lock-Off Stop Pushbutton Switch	Air Blower 2B #440	17216		P8.02	ILD-30	I1.02	CON
268	0	C	440	HS	2	Computer-Off-Hand Selector Switch	Air Blower 2B #440	17216		P8.02	ILD-30	I1.02	CON
269	0	C	437	PIT		Pressure Transmitter	SBR 2 Aeration Pressure	17701	I110	P8.02	ILD-17	I1.02	CON
270													
271	0	C	300	PSL		Low Pressure Switch	Equalization Tank	17701	I109	P9.01	ILD-18	I1.02	CON
272	0	C	300	PSH		High Pressure Switch	Equalization Tank	17701	I109	P9.01	ILD-18	I1.02	CON
273	0	C	300	PIT		Pressure Transmitter	Equalization Tank	17701	I110	P9.01	ILD-17	I1.02	CON
274	0	C	500	AE		H2S Gas Detector	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09	I1.02	CON
275	0	C	500	AIT		Analytical Transmitter	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09	I1.02	CON
276	0	C	500	AY	1	Instrument Fault	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09		CON
277	0	C	500	AY	2	High H2S switch	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09		CON
278	0	C	500	AY	3	High High H2S switch	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09		CON
279	0	C	500	HS		Silence/Acknowledge Pushbutton	Exhaust Fan Room Gas Detection	17216		P9.01	ILD-10	I1.02	CON
280	1	C	500	XA	1	Strobe/Beacon	Exhaust Fan Room Gas Detection	17701	I124	P9.01	ILD-10	I1.02	CON
281	1	C	500	XA	2	Horn	Exhaust Fan Room Gas Detection	17701	I125	P9.01	ILD-10	I1.02	CON
282	0	C	501	AE		H2S Gas Detector	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09	I1.02	CON
283	0	C	501	AIT		Analytical Transmitter	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09	I1.02	CON
284	0	C	501	AY	1	Instrument Fault	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09		CON
285	0	C	501	AY	2	High H2S switch	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09		CON
286	0	C	501	AY	3	High High H2S switch	Exhaust Fan Room Gas Detection	17701	I101	P9.01	ILD-09		CON
287	0	C	510	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan #510	17216		P9.01	ILD-30	I1.02	CON
288	0	C	510	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan #510	17216		P9.01	ILD-30	I1.02	CON
289	0	C	510	HK		Hand Controller	Exhaust Fan #510	11820		P9.01	ILD-30		PKG
290	0	C	510	PI	1	Pressure Gauge	Exhaust Fan #510	17701	I108	P9.01	ILD-30		CON
291	0	C	510	PI	2	Pressure Gauge	Exhaust Fan #510	17701	I115	P9.01	ILD-30		CON
292													
293	0	C	450	TIT		Temperature Transmitter	Air Blower 5 #450 Inlet Temperature	11315		P10.01	NOTE 1	I1.02	PKG
294	0	C	450	PDIT		Differential Pressure Transmitter	Air Blower 5 #450 Inlet Pressure	11315		P10.01	NOTE 1	I1.02	PKG
295	0	C	450	PSL		Low Pressure Switch	Air Blower 5 #450 Inlet Pressure	11315		P10.01	NOTE 1	I1.02	PKG
296	0	C	450	TE	1	Temperature Element	Air Blower 5 #450	11205		P10.01	NOTE 1	I1.02	PKG
297	0	C	450	TE	2	Temperature Element	Air Blower 5 #450	11205		P10.01	NOTE 1	I1.02	PKG
298	0	C	450	TE	3	Temperature Element	Air Blower 5 #450	11205		P10.01	NOTE 1	I1.02	PKG
299	0	C	450	TI		Temperature Indicator	Air Blower 5 #450 Discharge Flow	11315		P10.01	NOTE 1		PKG
300	0	C	450	TSH		High Temperature Switch	Air Blower 5 #450 Discharge Flow	11315		P10.01	NOTE 1	I1.02	PKG
301	0	C	450	TAH		High Temperature Indicating Light	Air Blower Local Control Panel	11315		P10.01	NOTE 1	I1.02	PKG
302	0	C	450	PI		Pressure Gauge	Air Blower 5 #450 Discharge Flow	11315		P10.01	NOTE 1		PKG
303	0	C	450	PSH		High Pressure Switch	Air Blower 5 #450 Discharge Flow	11315		P10.01	NOTE 1	I1.02	PKG
304	0	C	450	PAH		High Pressure Indicating Light	Air Blower Local Control Panel	11315		P10.01	NOTE 1	I1.02	PKG

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
305	0	C	451	TE		Temperature Element	Air Blower 5 #450 Enclosure	11315		P10.01	NOTE 1	I.02	PKG
306	0	C	615	MM		Blower Running Indicating light	Truck Unloading Panel	11315		P10.01	NOTE 1	I.06	PKG
307	0	C	620	MM		Shaker Running Indicating light	Truck Unloading Panel	11315		P10.01	NOTE 1	I.06	PKG
308	0	C	450	MM		Blower Running Indicating light	Truck Unloading Panel	11315		P10.01	NOTE 1	I.06	PKG
309	0	C	610	LI		Silo Level Indicating light	Truck Unloading Panel	11315		P10.01	NOTE 1	I.06	PKG
310	0	C	450	HS	1	Start Unloading Pushbutton Switch	Truck Unloading Panel	11315		P10.01	NOTE 1	I.06	PKG
311	0	C	450	HS	2	Stop Unloading Pushbutton Switch	Truck Unloading Panel	11315		P10.01	NOTE 1	I.06	PKG
312													
313	0	C	600	FS		Flow Switch	Soda Ash Shower & Eye Wash	15420		P10.02	NOTE 1	I.06	PKG
314	0	C	600	TIT		Temperature Transmitter	Soda Ash Skirt Enclosure	11315		P10.02	NOTE 1	I.06	PKG
315	0	C	615	HS	1	Lock-Off Stop Pushbutton Switch	Dust Filter Blower #615	17216		P10.02	NOTE 1	I.06	PKG
316	0	C	615	HS	2	Computer-Off-Hand Selector Switch	Dust Filter Blower #615	17216		P10.02	NOTE 1	I.06	PKG
317	0	C	620	HS	1	Lock-Off Stop Pushbutton Switch	Dust Filter Shaker #620	17216		P10.02	NOTE 1	I.06	PKG
318	0	C	620	HS	2	Computer-Off-Hand Selector Switch	Dust Filter Shaker #620	17216		P10.02	NOTE 1	I.06	PKG
319	0	C	625	HS	1	Lock-Off Stop Pushbutton Switch	Soda Ash Silo Vibrator #625	17216		P10.02	NOTE 1	I.06	PKG
320	0	C	625	HS	2	Computer-Off-Hand Selector Switch	Soda Ash Silo Vibrator #625	17216		P10.02	NOTE 1	I.06	PKG
321	0	C	610	LE		Level Element	Soda Ash Silo #610	11315		P10.02	NOTE 1	I.06	PKG
322	0	C	610	LIT		Level Transmitter	Soda Ash Silo #610	11315		P10.02	NOTE 1	I.06	PKG
323	0	C	610	LSH		High Level Switch	Soda Ash Silo #610	11315		P10.02	NOTE 1	I.06	PKG
324	0	C	610	LSL		Low Level Switch	Soda Ash Silo #610	11315		P10.02	NOTE 1	I.06	PKG
325	0	C	630	FCV		Motorized Rotary Valve	Rotary Valve #630	17216		P10.02	NOTE 1	I.06	PKG
326	0	C	640	HS	1	Lock-Off Stop Pushbutton Switch	Soda Ash Dry Feeder #640	17216		P10.02	NOTE 1	I.06	PKG
327	0	C	640	HS	2	Computer-Off-Hand Selector Switch	Soda Ash Dry Feeder #640	17216		P10.02	NOTE 1	I.06	PKG
328	0	C	640	HK		Hand Controller	Soda Ash Dry Feeder #640	11315		P10.02	NOTE 1	I.06	PKG
329	0	C	635	LSH		High Level Switch	Supply Hopper #635	11315		P10.02	NOTE 1	I.06	PKG
330	0	C	635	LSL		Low Level Switch	Supply Hopper #635	11315		P10.02	NOTE 1	I.06	PKG
331													
332	0	C	645	PSL		Low Pressure Switch	Potable Water Feed System	11315		P10.03	NOTE 1	I.06	PKG
333	0	C	660	FCV		Motorized Valve Actuator	Potable Water Feed System	11315		P10.03	NOTE 1	I.06	PKG
334	0	C	645	PI		Pressure Gauge	Potable Water Feed System	11315		P10.03	NOTE 1	I.06	PKG
335	0	C	645	FIT		Flow Transmitter	Potable Water Feed System	11315		P10.03	NOTE 1	I.06	PKG
336	0	C	645	LE		Level Element	Solution Tank #645	11315		P10.03	NOTE 1	I.06	PKG
337	0	C	645	LIT		Level Transmitter	Solution Tank #645	11315		P10.03	NOTE 1	I.06	PKG
338	0	C	645	LSH		High Level Switch	Solution Tank #645	11315		P10.03	NOTE 1	I.06	PKG
339	0	C	645	LSL		Low Level Switch	Solution Tank #645	11315		P10.03	NOTE 1	I.06	PKG
340	0	C	675	FCV		Motorized Valve Actuator	Soda Ash Feed System	11315		P10.03	NOTE 1	I.06	PKG
341	0	C	685	FCV		Motorized Valve Actuator	Soda Ash Feed System	11315		P10.03	NOTE 1	I.06	PKG
342	0	C	690	FCV		Motorized Valve Actuator	Soda Ash Feed System	11315		P10.03	NOTE 1	I.06	PKG

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
343	0	C	695	FCV		Motorized Valve Actuator	Soda Ash Feed System	11315		P10.03	NOTE 1	I.06	PKG
344	0	C	670	FE		Magnetic Flow Element	Soda Ash Feed System	11315		P10.03	NOTE 1	I.06	PKG
345	0	C	670	FIT		Magnetic Flow Transmitter	Soda Ash Feed System	11315		P10.03	NOTE 1	I.06	PKG
346	0	C	680	FE		Magnetic Flow Element	Soda Ash Feed System	11315		P10.03	NOTE 1	I.06	PKG
347	0	C	680	FIT		Magnetic Flow Transmitter	Soda Ash Feed System	11315		P10.03	NOTE 1	I.06	PKG
348													
349	0	C	700	CSH		Ground Permissive Interlock	Truck Unloading Station	17701	I123	P11.01	ILD-18	I.07	CON
350	1	C	700	CAH		Pilot Light	Truck Unloading Station	17701	I123	P11.01	ILD-18 & 31	I.07	CON
351	0	C	700	FS		Flow Switch	Methanol Shower & Eye Wash	15420		P11.01	NOTE 1	I.07	PKG
352	0	C	705	PIT		Pressure Transmitter	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1	I.02	PKG
353	0	C	705	PI	1	Pressure Gauge	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1		PKG
354	0	C	705	PI	2	Pressure Gauge	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1		PKG
355	0	C	706	PI	1	Pressure Gauge	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1		PKG
356	0	C	706	PI	2	Pressure Gauge	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1		PKG
357	0	C	722	PIT		Pressure Transmitter	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1	I.02	PKG
358	0	C	752	PIT		Pressure Transmitter	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1	I.02	PKG
359	0	C	705	FV		Solenoid Valve	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1	I.02	PKG
360	0	C	706	FV		Solenoid Valve	Nitrogen Blanketing System	Div. 11		P11.01	NOTE 1	I.02	PKG
361	0	C	705	WSL		Low weight switch	N2 Cylinder	Div. 11		P11.01	NOTE 1	I.02	PKG
362													
363	1	C	710	FCV		Motorized Valve Actuator	Methanol Inlet Flow	11125		P11.02	ILD-02	I.07	CON
364	1	C	720	LS		Leak Detection Switch	Methanol Storage Tank #720	17701	I121	P11.02	ILD-34	I.07	CON
365	1	C	720	LT	1	Level Transmitter	Methanol Storage Tank #720	17701	I122	P11.02	ILD-33	I.07	CON
366	1	C	720	LT	2	Level Transmitter	Methanol Storage Tank #720	17701	I122	P11.02	ILD-33	I.07	CON
367	0	C	730	HS	1	Lock-Off Stop Pushbutton Switch	Methanol Dosing Pump #730	17216		P11.02	ILD-32	I.07	CON
368	0	C	730	HS	2	Computer-Off-Hand Selector Switch	Methanol Dosing Pump #730	17216		P11.02	ILD-32	I.07	CON
369	0	C	730	MM	1	Running Pilot Light	Methanol Dosing Pump #730	17216		P11.02	ILD-32	I.07	CON
370	0	C	730	MO	1	Stopped Pilot Light	Methanol Dosing Pump #730	17216		P11.02	ILD-32	I.07	CON
371	0	C	730	PIT		Pressure Transmitter	Methanol Dosing Pump Outlet Flow	Div. 11		P11.02	NOTE 1	I.07	PKG
372	0	C	730	PSH		High Pressure Switch	Methanol Dosing Pump Outlet Flow	Div. 11		P11.02	NOTE 1	I.07	PKG
373	0	C	730	FSL		Low Flow Switch	Methanol Dosing Pump Outlet Flow	Div. 11		P11.02	NOTE 1	I.07	PKG
374	0	C	730	TIT		Temperature Transmitter	Methanol Dosing Pump Chamber	Div. 11		P11.02	NOTE 1	I.07	PKG
375	0	C	730	LS		Leak Detection Switch	Methanol Dosing Pump Chamber	Div. 11		P11.02	NOTE 1	I.07	PKG
376													
377	1	C	740	FCV		Motorized Valve Actuator	Methanol Inlet Flow	11125		P11.03	ILD-02	I.07	CON
378	1	C	750	LS		Leak Detection Switch	Methanol Storage Tank #750	17701	I121	P11.03	ILD-34	I.07	CON
379	1	C	750	LT	1	Level Transmitter	Methanol Storage Tank #750	17701	I122	P11.03	ILD-33	I.07	CON
380	1	C	750	LT	2	Level Transmitter	Methanol Storage Tank #750	17701	I122	P11.03	ILD-33	I.07	CON

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
381	0	C	760	HS	1	Lock-Off Stop Pushbutton Switch	Methanol Dosing Pump #760	17216		P11.03	ILD-32	I.07	CON
382	0	C	760	HS	2	Computer-Off-Hand Selector Switch	Methanol Dosing Pump #760	17216		P11.03	ILD-32	I.07	CON
383	0	C	760	MM	1	Running Pilot Light	Methanol Dosing Pump #760	17216		P11.03	ILD-32	I.07	CON
384	0	C	760	MO	1	Stopped Pilot Light	Methanol Dosing Pump #760	17216		P11.03	ILD-32	I.07	CON
385	0	C	760	PIT		Pressure Transmitter	Methanol Dosing Pump Outlet Flow	Div. 11		P11.03	NOTE 1	I.07	PKG
386	0	C	760	PSH		High Pressure Switch	Methanol Dosing Pump Outlet Flow	Div. 11		P11.03	NOTE 1	I.07	PKG
387	0	C	760	FSL		Low Flow Switch	Methanol Dosing Pump Outlet Flow	Div. 11		P11.03	NOTE 1	I.07	PKG
388	0	C	760	TIT		Temperature Transmitter	Methanol Dosing Pump Chamber	Div. 11		P11.03	NOTE 1	I.07	PKG
389	0	C	760	LS		Leak Detection Switch	Methanol Dosing Pump Chamber	Div. 11		P11.03	NOTE 1	I.07	PKG
390	0	C	720	LI		Level Indicator	Methanol Truck Unloading Panel	17701	I119	P11.03	ILD-31	I.07	CON
391	0	C	720	LH		Level High Indicating Light	Methanol Truck Unloading Panel	17216		P11.03	ILD-31	I.07	CON
392	0	C	750	LI		Level Indicator	Methanol Truck Unloading Panel	17701	I119	P11.03	ILD-31	I.07	CON
393	0	C	750	LH		Level High Indicating Light	Methanol Truck Unloading Panel	17216		P11.03	ILD-31	I.07	CON
394	0	C	700	HS		Alarm Acknowledged/Silencer	Methanol Truck Unloading Panel	17216		P11.03	ILD-31	I.07	CON
395	0	C	710	HS		Open/Close Selector Switch	Methanol Truck Unloading Panel	17216		P11.03	ILD-31	I.07	CON
396	0	C	740	HS		Open/Close Selector Switch	Methanol Truck Unloading Panel	17216		P11.03	ILD-31	I.07	CON
397	0	C	700	UY	1	System Ready Indicating Light	Methanol Truck Unloading Panel	17216		P11.03	ILD-31	I.07	CON
398	0	C	700	UY	2	Electronic Buzzer	Methanol Truck Unloading Panel	17701	I120	P11.03	ILD-31	I.07	CON
399													
400	0	C	900	TS		Temperature Switch	Fire Alarm Panel	Div. 16		I3.01	ILD-12	I.02	CON
401	0	C	900	US		Trouble Switch	Fire Alarm Panel	Div. 16		I3.01	ILD-12	I.02	CON
402	0	C	910	ZS		Security Motion Detector	Intruder Security System	17701	I102	I3.01	ILD-11	I.02	CON
403	0	C	911	ZS		Security Door Switch	Intruder Security System	17701	I103	I3.01	ILD-11	I.02	CON
404	0	C	912	ZS		Security Motion Detector	Intruder Security System	17701	I102	I3.01	ILD-11	I.02	CON
405	0	C	913	ZS		Security Door Switch	Intruder Security System	17701	I103	I3.01	ILD-11	I.02	CON
406	0	C	914	ZS		Security Motion Detector	Intruder Security System	17701	I102	I3.01	ILD-11	I.02	CON
407	0	C	915	ZS		Security Door Switch	Intruder Security System	17701	I103	I3.01	ILD-11	I.02	CON
408	0	C	916	ZS		Security Motion Detector	Intruder Security System	17701	I102	I3.01	ILD-11	I.02	CON
409	0	C	917	ZS		Security Door Switch	Intruder Security System	17701	I103	I3.01	ILD-11	I.02	CON
410													
411	0	C	521	TIT		Temperature Transmitter	Blower Room Ambient Air	17701	I116	M4.01	ILD-15	I.03	CON
412	0	C	521	ZSB	1	Closed limit switch	Motorized Damper 1 #521	Div.15		M4.01	ILD-21	I.03	CON
413	0	C	521	ZSD	1	Open limit switch	Motorized Damper 1 #521	Div.15		M4.01	ILD-21	I.03	CON
414	0	C	521	ZSB	2	Closed limit switch	Motorized Damper 2 #521	Div.15		M4.01	ILD-20	I.03	CON
415	0	C	521	ZSD	2	Open limit switch	Motorized Damper 2 #521	Div.15		M4.01	ILD-20	I.03	CON
416	0	C	521	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan #521	17216		M4.01	ILD-23	I.03	CON
417	0	C	521	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan #521	17216		M4.01	ILD-23	I.03	CON
418	0	C	522	TIT		Temperature Transmitter	Blower Room Ambient Air	17701	I116	M4.01	ILD-15	I.03	CON

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION			REFERENCES				
						INSTRUMENT TYPE		SERVICE	SPEC. SHEET or SECTION		P&ID DRAWING	WIRING REF.	LOCATION DWG.
419	0	C	522	ZSB	1	Closed limit switch	Motorized Damper 1 #522	Div.15		M4.01	ILD-21	I1.03	CON
420	0	C	522	ZSD	1	Open limit switch	Motorized Damper 1 #522	Div.15		M4.01	ILD-21	I1.03	CON
421	0	C	522	ZSB	2	Closed limit switch	Motorized Damper 2 #522	Div.15		M4.01	ILD-20	I1.03	CON
422	0	C	522	ZSD	2	Open limit switch	Motorized Damper 2 #522	Div.15		M4.01	ILD-20	I1.03	CON
423	0	C	522	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan #522	17216		M4.01	ILD-23	I1.03	CON
424	0	C	522	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan #522	17216		M4.01	ILD-23	I1.03	CON
425	0	C	523	TIT		Temperature Transmitter	Blower Room Ambient Air	17701	I116	M4.01	ILD-15	I1.03	CON
426	0	C	523	ZSB	1	Closed limit switch	Motorized Damper 1 #523	Div.15		M4.01	ILD-21	I1.03	CON
427	0	C	523	ZSD	1	Open limit switch	Motorized Damper 1 #523	Div.15		M4.01	ILD-21	I1.03	CON
428	0	C	523	ZSB	2	Closed limit switch	Motorized Damper 2 #523	Div.15		M4.01	ILD-20	I1.03	CON
429	0	C	523	ZSD	2	Open limit switch	Motorized Damper 2 #523	Div.15		M4.01	ILD-20	I1.03	CON
430	0	C	523	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan #523	17216		M4.01	ILD-23	I1.03	CON
431	0	C	523	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan #523	17216		M4.01	ILD-23	I1.03	CON
432	0	C	524	TIT		Temperature Transmitter	Blower Room Ambient Air	17701	I116	M4.01	ILD-15	I1.03	CON
433	0	C	524	ZSB	1	Closed limit switch	Motorized Damper 1 #524	Div.15		M4.01	ILD-21	I1.03	CON
434	0	C	524	ZSD	1	Open limit switch	Motorized Damper 1 #524	Div.15		M4.01	ILD-21	I1.03	CON
435	0	C	524	ZSB	2	Closed limit switch	Motorized Damper 2 #524	Div.15		M4.01	ILD-20	I1.03	CON
436	0	C	524	ZSD	2	Open limit switch	Motorized Damper 2 #524	Div.15		M4.01	ILD-20	I1.03	CON
437	0	C	524	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan #524	17216		M4.01	ILD-23	I1.03	CON
438	0	C	524	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan #524	17216		M4.01	ILD-23	I1.03	CON
439													
440	0	C	530	TIT		Temperature Transmitter	Sample Room Ambient Air	17701	I116	M4.02	ILD-15	I1.03	CON
441	0	C	530	ZSB	1	Closed limit switch	Motorized Damper 1 #530	Div.15		M4.02	ILD-21	I1.03	CON
442	0	C	530	ZSD	1	Open limit switch	Motorized Damper 1 #530	Div.15		M4.02	ILD-21	I1.03	CON
443	0	C	530	ZSB	2	Closed limit switch	Motorized Damper 2 #530	Div.15		M4.02	ILD-20	I1.03	CON
444	0	C	530	ZSD	2	Open limit switch	Motorized Damper 2 #530	Div.15		M4.02	ILD-20	I1.03	CON
445	0	C	530	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan #530	17216		M4.02	ILD-23	I1.03	CON
446	0	C	530	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan #530	17216		M4.02	ILD-23	I1.03	CON
447	0	C	540	TIT		Temperature Transmitter	Exhaust Fan Room Ambient Air	17701	I116	M4.02	ILD-15	I1.03	CON
448	0	C	540	ZSB	1	Closed limit switch	Motorized Damper 1 #540	Div.15		M4.02	ILD-21	I1.03	CON
449	0	C	540	ZSD	1	Open limit switch	Motorized Damper 1 #540	Div.15		M4.02	ILD-21	I1.03	CON
450	0	C	540	ZSB	2	Closed limit switch	Motorized Damper 2 #540	Div.15		M4.02	ILD-20	I1.03	CON
451	0	C	540	ZSD	2	Open limit switch	Motorized Damper 2 #540	Div.15		M4.02	ILD-20	I1.03	CON
452	0	C	540	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan #540	17216		M4.02	ILD-23	I1.03	CON
453	0	C	540	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan #540	17216		M4.02	ILD-23	I1.03	CON
454	0	C	550	TIT		Temperature Transmitter	Control Room Ambient Air	17701	I116	M4.02	ILD-15	I1.03	CON
455	0	C	550	ZSB	1	Closed limit switch	Motorized Damper #550	Div.15		M4.02	ILD-21	I1.03	CON
456	0	C	550	ZSD	1	Open limit switch	Motorized Damper #550	Div.15		M4.02	ILD-21	I1.03	CON

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.

**CITY OF WINNIPEG
NORTH END WATER POLLUTION CONTROL CENTRE
NITROGEN REMOVAL FACILITY
INSTRUMENT INDEX (R1)**

Project No. 66303

RECORD NO.	REV. NO.	TAG NAME				DESCRIPTION		REFERENCES					
						INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
457	0	C	550	PDSH		High Differential Pressure Switch	Inlet Air Filter #550	17701	I118	M4.02	ILD-25	I1.03	CON
458	0	C	551	TSL		Open limit switch	Inlet Air Filter #550	17701	I117	M4.02	ILD-25	I1.03	CON
459	0	C	550	HS	1	Lock-Off Stop Pushbutton Switch	Supply Fan 2 #550	17216		M4.02	ILD-22	I1.03	CON
460	0	C	550	HS	2	Computer-Off-Hand Selector Switch	Supply Fan 2 #550	17216		M4.02	ILD-22	I1.03	CON
461													
462	0	C	560	TIT		Temperature Transmitter	Electrical Room Ambient Air	17701	I116	M4.03	ILD-15	I1.03	CON
463	0	C	560	ZSB		Closed limit switch	Motorized Damper #560	Div.15		M4.03	ILD-21	I1.03	CON
464	0	C	560	ZSD		Open limit switch	Motorized Damper #560	Div.15		M4.03	ILD-21	I1.03	CON
465	0	C	560	PDSH		High Differential Pressure Switch	Inlet Air Filter #560	17701	I118	M4.03	ILD-25	I1.03	CON
466	0	C	560	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan 6 #560	17216		M4.03	ILD-23	I1.03	CON
467	0	C	560	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan 6 #560	17216		M4.03	ILD-23	I1.03	CON
468	0	C	580	TIT		Temperature Transmitter	Electrical Room Ambient Air	17701	I116	M4.03	ILD-15	I1.03	CON
469	0	C	580	ZSB		Closed limit switch	Motorized Damper #560	Div.15		M4.03	ILD-20	I1.03	CON
470	0	C	580	ZSD		Open limit switch	Motorized Damper #560	Div.15		M4.03	ILD-20	I1.03	CON
471	0	C	580	HS	1	Lock-Off Stop Pushbutton Switch	Exhaust Fan 7 #580	17216		M4.03	ILD-23	I1.03	CON
472	0	C	580	HS	2	Computer-Off-Hand Selector Switch	Exhaust Fan 7 #580	17216		M4.03	ILD-23	I1.03	CON
473													
474	0	C	570	LSSL		Low Level Switch	Sump Pit 1 #570	15301		M4.04	NOTE 1	I1.01	PKG
475	0	C	570	LSHH		High Level Switch	Sump Pit 1 #570	15301		M4.04	NOTE 1	I1.01	PKG
476	0	C	570	LT		Level Transmitter	Sump Pit 1 #570	15301		M4.04	NOTE 1	I1.01	PKG
477	0	C	570	TE		Temperature Element	Sump Pump 1 #570	15301		M4.04	ILD-26	I1.01	PKG
478	0	C	570	LS		Leakage Sensor	Sump Pump 1 #570	15301		M4.04	ILD-26	I1.01	PKG
479	0	C	572	TE		Temperature Element	Sump Pump 1 #572	15301		M4.04	ILD-26	I1.01	PKG
480	0	C	572	LS		Leakage Sensor	Sump Pump 1 #572	15301		M4.04	ILD-26	I1.01	PKG
481	0	C	571	LSSL		Low Level Switch	Sump Pit 2 #571	15301		M4.04	NOTE 1	I1.01	PKG
482	0	C	571	LSHH		High Level Switch	Sump Pit 2 #571	15301		M4.04	NOTE 1	I1.01	PKG
483	0	C	571	LT		Level Transmitter	Sump Pit 2 #571	15301		M4.04	NOTE 1	I1.01	PKG
484	0	C	571	TE		Temperature Element	Sump Pump 1 #571	15301		M4.04	ILD-26	I1.01	PKG
485	0	C	571	LS		Leakage Sensor	Sump Pump 1 #571	15301		M4.04	ILD-26	I1.01	PKG
486	0	C	573	TE		Temperature Element	Sump Pump 1 #573	15301		M4.04	ILD-26	I1.01	PKG
487	0	C	573	LS		Leakage Sensor	Sump Pump 1 #573	15301		M4.04	ILD-26	I1.01	PKG

SUPPLY CODES: CON = Contractor Supply, OWN = Owner Supply, PKG = Package Supply

NOTE 1 - For detailed wiring schematics refer to supplier docs.