

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION				REFERENCES			
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
001	3	F	550	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter 1	17216	-	L13.02	ILD-13	F12.02	CON
002	3	F	550	HS-2	Computer-Off-Hand Selector Switch	Fermenter 1	17216	-	L13.02	ILD-13	F12.02	CON
003	3	F	550	LSHH	High High Level Switch	Fermenter 1	17701-A	I102	L13.02	ILD-05	F12.02	CON
004	3	F	550	MD1	Motorized Damper Actuator	Primary Sludge Fermenter 1 Supply Air	Div.15	-	L13.06	ILD-03	FM2.01	CON
005	3	F	550	MM-1	Running Pilot Light	Fermenter 1	17216	-	L13.02	ILD-13	F12.02	CON
006	3	F	550	MO-1	Stopped Pilot Light	Fermenter 1	17216	-	L13.02	ILD-13	F12.02	CON
007	3	F	550	OSH	High Torque Switch	Fermenter 1	11521	-	L13.02	ILD-13	F12.02	PKG
008	3	F	550	OSHH	High High Torque Switch	Fermenter 1	11521	-	L13.02	ILD-13	F12.02	PKG
009	3	F	550	ZS	Position Switch	Fermenter 1	11521	-	L13.02	ILD-13	F12.02	PKG
010	3	F	551	FCV	Motorized Valve Actuator	Fermenter 1 Sludge Control Valve	17213	-	L13.04	ILD-03	F12.03	CON
011	3	F	551	FE	Magnetic Flow Element	Fermenter Sludge Pumps Discharge	17701-A	I101	L13.04	ILD-04	P11.01	CON
012	3	F	551	FIT	Magnetic Flow Transmitter	Fermenter Sludge Pumps Discharge	17701-A	I101	L13.04	ILD-04	P11.01	CON
013	3	F	551	PSH	High Pressure Switch	Fermenter Sludge Pump 1 Discharge			L13.04	ILD-11	F12.03	PKG
014	3	F	552	FCV	Flow Control Valve	Fermenter 2 Sludge	17213	-	L13.04	ILD-03	F12.03	CON
015	3	F	552	PSH	High Pressure Switch	Fermenter Sludge Pump 2 Discharge			L13.04	ILD-11	F12.03	PKG
016	4	F	553	FV	Solenoid Valve	Fermenter 1 Spray Water	17701-A	I107	L13.02	ILD-10	F12.03	CON
017	3	F	553	HS-1	Local-Remote Selector Switch	Fermenter 1 Spray Water Solenoid Valve	17216	-	L13.02	ILD-10	F12.03	CON
018	3	F	553	HS-2	Open/Close Selector Switch	Fermenter 1 Spray Water Solenoid Valve	17216	-	L13.02	ILD-10	F12.03	CON
019	3	F	553	PSL	Low Pressure Switch	Fermenter Sludge Pumps Process Air	17701-A	I105	L13.04	ILD-05	F12.03	CON
020	4	F	555	FV-1	Solenoid Valve	Fermenter Sprnatnt Wet Well Spray	17701-A	I107	L13.05	ILD-10	F12.03	CON
021	4	F	555	FV-2	Solenoid Valve	Fermenter Sprnatnt Wet Well Flush Water	17701-A	I107	L13.05	ILD-10	F12.03	CON
022	3	F	555	HS-1	Local-Remote Selector Switch	Fermenter Sprnatnt Wet Well SprayValve	17216	-	L13.05	ILD-10	F12.03	CON
023	3	F	555	HS-2	Open/Close Selector Switch	Fermenter Sprnatnt Wet Well SprayValve	17216	-	L13.05	ILD-10	F12.03	CON
024	3	F	555	HS-3	Local-Remote Selector Switch	Fermenter Sprnatnt Wet Well Flushing Valve	17216	-	L13.05	ILD-10	F12.03	CON
025	3	F	555	HS-4	Open/Close Selector Switch	Fermenter Sprnatnt Wet Well Flushing Valve	17216	-	L13.05	ILD-10	F12.03	CON
026	3	F	555	LSHH	High High Level Switch	Fermenter Sprnatnt Wet Well	17701-A	I102	L13.05	ILD-05	F12.02	CON
027	3	F	555	PIT-1	Pressure Transmitter	Fermenter Sprnatnt Wet Well	17701-A	I106	L13.05	ILD-08	F12.03	CON
028	3	F	555	PIT-2	Pressure Transmitter	Fermenter Supernatant Wetwell	17701-A	I106	L13.06	ILD-08	F12.02	CON
029	3	F	555	PSLL	Low Low Pressure Switch	Fermenter Sprnatnt Wet Well	17701-A	I105	L13.05	ILD-05	F12.03	CON
030	3	F	556	FCV	Motorized Valve Actuator	Fermenter Supernatant Pump 2 Disch. Valve	17213	-	L13.05	ILD-03	F12.03	CON
031	3	F	556	FE	Magnetic Flow Element	Bioreactor 1 Fermenter Supernatant Feed	17701-A	I101	L13.05	ILD-04	F12.03	CON
032	3	F	556	FIT	Magnetic Flow Transmitter	Bioreactor 1 Fermenter Supernatant Feed	17701-A	I101	L13.05	ILD-04	F12.03	CON
033	3	F	556	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter Supernatant Pump 1	17216	-	L13.05	ILD-14	F12.03	CON
034	3	F	556	HS-2	Computer-Off-Hand Selector Switch	Fermenter Supernatant Pump 1	17216	-	L13.05	ILD-14	F12.03	CON
035	3	F	556	PI	Pressure Indicator	Fermenter Supernatant Pump 1 Discharge			L13.05	-	F12.03	CON
036	3	F	557	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter Supernatant Pump 2	17216	-	L13.05	ILD-14	F12.03	CON
037	3	F	557	HS-2	Computer-Off-Hand Selector Switch	Fermenter Supernatant Pump 2	17216	-	L13.05	ILD-14	F12.03	CON
038	3	F	557	PI	Pressure Indicator	Fermenter Supernatant Pump 2 Discharge			L13.05	-	F12.03	CON
039	3	F	558	FCV	Motorized Valve Actuator	Fermenter Supernatant Pump 2 Disch. Valve	17213	-	L13.05	ILD-03	F12.03	CON
040	3	F	558	FE	Magnetic Flow Element	Bioreactor 2 Fermenter Supernatant Feed	17701-A	I101	L13.05	ILD-04	F12.03	CON
041	3	F	558	FIT	Magnetic Flow Transmitter	Bioreactor 2 Fermenter Supernatant Feed	17701-A	I101	L13.05	ILD-04	F12.03	CON
042	3	F	558	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter Supernatant Pump 3	17216	-	L13.05	ILD-14	F12.03	CON
043	3	F	558	HS-2	Computer-Off-Hand Selector Switch	Fermenter Supernatant Pump 3	17216	-	L13.05	ILD-14	F12.03	CON
044	3	F	558	PI	Pressure Indicator	Fermenter Supernatant Pump 3 Discharge			L13.05	-	F12.03	CON
045	3	F	560	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter 2	17216	-	L13.03	ILD-13	F12.02	CON
046	3	F	560	HS-2	Computer-Off-Hand Selector Switch	Fermenter 2	17216	-	L13.03	ILD-13	F12.02	CON
047	3	F	560	LSHH	High High Level Switch	Fermenter 2	17701-A	I102	L13.03	ILD-05	F12.02	CON
048	3	F	560	MD1	Motorized Damper Actuator	Primary Sludge Fermenter 2 Supply Air	Div.15		L13.06	ILD-03	F12.02	CON

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

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION				REFERENCES			
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
049	3	F	560	MM-1	Running Pilot Light	Fermenter 2	17216	-	L13.03	ILD-13	FI2.02	CON
050	3	F	560	MO-1	Stopped Pilot Light	Fermenter 2	17216	-	L13.03	ILD-13	FI2.02	CON
051	3	F	560	OSH	High Torque Switch	Fermenter 2	11521	-	L13.03	ILD-13	FI2.02	PKG
052	3	F	560	OSHH	High High Torque Switch	Fermenter 2	11521	-	L13.03	ILD-13	FI2.02	PKG
053	3	F	560	ZS	Position Switch	Fermenter 2	11521	-	L13.03	ILD-13	FI2.02	PKG
054	4	F	561	FV	Solenoid Valve	Fermenter 2 Spray Water	17701-A	I107	L13.03	ILD-10	FI2.03	CON
055	3	F	561	HS-1	Local-Remote Selector Switch	Fermenter 2 Spray Water Solenoid Valve	17216	-	L13.03	ILD-10	FI2.03	CON
056	3	F	561	HS-2	Open/Close Selector Switch	Fermenter 2 Spray Water Solenoid Valve	17216	-	L13.03	ILD-10	FI2.03	CON
057	3	F	610	HS-1	Lock Off Stop (LOS) Pushbutton	Primary Sludge Fermenter 1 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
058	3	F	610	HS-2	Computer-Off-Hand Selector Switch	Primary Sludge Fermenter 1 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
059	3	F	610	IS	Current Switch	Primary Sludge Fermenter 1 Supply Air Fan		-	L13.06	ILD-12	MCC	CON
060	3	F	610	MM-1	Running Pilot Light	Primary Sludge Fermenter 1 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
061	3	F	610	MO-1	Stopped Pilot Light	Primary Sludge Fermenter 1 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
062	3	F	620	HS-1	Lock Off Stop (LOS) Pushbutton	Primary Sludge Fermenter 2 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
063	3	F	620	HS-2	Computer-Off-Hand Selector Switch	Primary Sludge Fermenter 2 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
064	3	F	620	IS	Current Switch	Primary Sludge Fermenter 2 Supply Air Fan		-	L13.06	ILD-05	MCC	CON
065	3	F	620	MM-1	Running Pilot Light	Primary Sludge Fermenter 2 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
066	3	F	620	MO-1	Stopped Pilot Light	Primary Sludge Fermenter 2 Supply Air Fan	17216	-	L13.06	ILD-12	FM2.01	CON
067	3	F	650	HS-1	Lock Off Stop (LOS) Pushbutton	Fermenter Odour Control Fan	17216	-	L13.06	ILD-14	FM2.01	CON
068	3	F	650	HS-2	Computer-Off-Hand Selector Switch	Fermenter Odour Control Fan	17216	-	L13.06	ILD-14	FM2.01	CON
069	3	F	651	MD1	Motorized Damper Actuator	Fermenter Odour Control Fan Inlet	Div.15	-	L13.06	ILD-03		CON
070	3	F	652	MD1	Motorized Damper Actuator	Fermenter Odour Control Fan Outlet	Div.15	-	L13.06	ILD-03		CON
071	3	F	660	HS-1	Lock Off Stop (LOS) Pushbutton	Thermal Oxidizer Odour Control Fan	17216	-	L13.06	ILD-12	FM2.01	CON
072	3	F	660	HS-2	Computer-Off-Hand Selector Switch	Thermal Oxidizer Odour Control Fan	17216	-	L13.06	ILD-12	FM2.01	CON
073	3	F	660	IS	Current Switch	Thermal Oxidizer Odour Control Fan		-	L13.06	ILD-05	MCC	CON
074	3	F	660	MM-1	Running Pilot Light	Thermal Oxidizer Odour Control Fan	17216	-	L13.06	ILD-12	FM2.01	CON
075	3	F	660	MO-1	Stopped Pilot Light	Thermal Oxidizer Odour Control Fan	17216	-	L13.06	ILD-12	FM2.01	CON
076	3	F	660	PIT	Pressure Transmitter	Thermal Oxidizer Fan Suction	17701-A	I106	L13.06	ILD-08		CON
077	3	F	661	HS	Lock Off Stop (LOS) Pushbutton	Thermal Oxidizer	17216	-	L13.06	ILD-09	FI2.03	CON
078	3	F	661	MD1	Motorized Damper Actuator	Thermal Oxidizer Inlet Damper	Div.15	-	L13.06	ILD-03	FM2.01	CON
079	3	F	661	TE	RTD	Thermal Oxidizer	17701-A	I118	L13.06	ILD-09	FI2.03	CON
080	3	F	661	TT	Temperature Transmitter	Thermal Oxidizer	17701-A	I118	L13.06	ILD-09	FI2.03	CON
081	3	F	662	MD1	Motorized Damper Actuator	Thermal Oxidizer Bypass Damper	Div.15	-	L13.06	ILD-03	FM2.01	CON
082	3	H	655	HS-1	Lock Off Stop (LOS) Pushbutton	Tanker Unloading Odour Control Fan	17216	-	L13.06	ILD-12	HE1.01	CON
083	3	H	655	HS-2	Computer-Off-Hand Selector Switch	Tanker Unloading Odour Control Fan	17216	-	L13.06	ILD-12	HE1.01	CON
084	3	H	655	IS	Current Switch	Tanker Unloading Odour Control Fan		-	L13.06	ILD-05	MCC	CON
085	3	H	655	MM-1	Running Pilot Light	Tanker Unloading Odour Control Fan	17216	-	L13.06	ILD-12	HE1.01	CON
086	3	H	655	MO-1	Stopped Pilot Light	Tanker Unloading Odour Control Fan	17216	-	L13.06	ILD-12	HE1.01	CON
087	3	H	710	HS-1	Lock Off Stop (LOS) Pushbutton	DAF & Hworks Odour Control Fan	17216	-	L13.06	ILD-12	HM1.01	CON
088	3	H	710	HS-2	Computer-Off-Hand Selector Switch	DAF & Hworks Odour Control Fan	17216	-	L13.06	ILD-12	HM1.01	CON
089	3	H	710	IS	Current Switch	DAF & Hworks Odour Control Fan		-	L13.06	ILD-05	MCC	CON
090	3	H	710	MD1	Motorized Damper Actuator	Headworks Sludge Storage Tanks Exh. Air	Div.15	-	L13.06	ILD-03		CON
091	3	H	710	MM-1	Running Pilot Light	DAF & Hworks Odour Control Fan	17216	-	L13.06	ILD-12	HM1.01	CON
092	3	H	710	MO-1	Stopped Pilot Light	DAF & Hworks Odour Control Fan	17216	-	L13.06	ILD-12	HM1.01	CON
093	3	H	710	PSH	High Pressure Switch	DAF & Hworks Odour Control Fan Suction	17701-A	I105	L13.06	ILD-05	HM1.01	CON
094	3	P	110	FCV	Motorized Valve Actuator	Primary Clarifier 1 Discharge Valve	17213	-	L11.01	ILD-03	PI1.01	CON
095	3	P	120	FCV	Motorized Valve Actuator	Primary Clarifier 2 Discharge Valve	17213	-	L11.01	ILD-03	PI1.01	CON
096	3	P	235	FE	Magnetic Flow Element	Fermenters Primary Sludge Feed	17701-A	I101	L13.01	ILD-04	FI2.03	CON

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION				REFERENCES			
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
097	3	P	235	FIT	Magnetic Flow Transmitter	Fermenters Primary Sludge Feed	17701-A	I101	L13.01	ILD-04	F12.03	CON
098	3	P	236	FCV	Pneumatic Valve Actuator	Fermenter 2 Primary Sludge Control Valve	17213	-	L13.03	ILD-02	F12.03	CON
099	3	P	236	FE	Magnetic Flow Element	Fermenter 2 Primary Sludge	17701-A	I101	L13.03	ILD-04	F12.03	CON
100	3	P	236	FIT	Magnetic Flow Transmitter	Fermenter 2 Primary Sludge	17701-A	I101	L13.03	ILD-04	F12.03	CON
101	3	P	250	HS-1	Lock Off Stop (LOS) Pushbutton	Primary Sludge Pump 1	17216	-	L11.01	ILD-14	PI1.01	CON
102	3	P	250	HS-2	Computer-Off-Hand Selector Switch	Primary Sludge Pump 1	17216	-	L11.01	ILD-14	PI1.01	CON
103	3	P	260	HS-1	Lock Off Stop (LOS) Pushbutton	Primary Sludge Pump 2	17216	-	L11.01	ILD-14	PI1.01	CON
104	3	P	260	HS-2	Computer-Off-Hand Selector Switch	Primary Sludge Pump 2	17216	-	L11.01	ILD-14	PI1.01	CON
105	3	P	270	LSH	High Level Switch	Primary Clarifier Pump Room Sump	Div.15		L11.02	ILD-15	PI1.01	Div. 15
106	3	P	270	LSL	Low Level Switch	Primary Clarifier Pump Room Sump	Div.15		L11.02	ILD-15	PI1.01	Div. 15
107	3											
108	3	S	111	FCV	Pneumatic Valve Actuator	Bioreactor 1 Anoxic Zone 2 Control Valve	17213	-	L12.01	ILD-02	SI5.02	CON
109	3	S	111	FE	Magnetic Flow Element	Bioreactor 1 Anoxic Zones	17701-A	I101	L12.01	ILD-04	SI5.02	CON
110	3	S	111	FIT	Magnetic Flow Transmitter	Bioreactor 1 Anoxic Zones	17701-A	I101	L12.01	ILD-04	SI5.02	CON
111	3	S	112	FCV	Pneumatic Valve Actuator	Bioreactor 1 Anoxic Zone 1 Control Valve	17213	-	L12.01	ILD-02	SI5.02	CON
112	3	S	112	FE	Magnetic Flow Element	Bioreactor 1 Anaerobic Zone	17701-A	I101	L12.01	ILD-04	SI5.02	CON
113	3	S	112	FIT	Magnetic Flow Transmitter	Bioreactor 1 Anaerobic Zone	17701-A	I101	L12.01	ILD-04	SI5.02	CON
114	3	S	113	FCV	Pneumatic Valve Actuator	Bioreactor 1 Anaerobic Zone Control Valve	17213	-	L12.01	ILD-02	SI5.02	CON
115	3	S	114	FCV	Pneumatic Valve Actuator	Bioreactor 1 Pre Anoxic Zone Inlet Valve	17213	-	L12.01	ILD-02	SI5.02	CON
116	3											
117	3	S	121	FCV	Pneumatic Valve Actuator	Bioreactor 2 Anoxic Zone 2 Control Valve	17213	-	L12.03	ILD-02	SI5.03	CON
118	3	S	121	FE	Magnetic Flow Element	Bioreactor 2 Anoxic Zones	17701-A	I101	L12.03	ILD-04	SI5.03	CON
119	3	S	121	FIT	Magnetic Flow Transmitter	Bioreactor 2 Anoxic Zones	17701-A	I101	L12.03	ILD-04	SI5.03	CON
120	3	S	122	FCV	Pneumatic Valve Actuator	Bioreactor 2 Anoxic Zone 1 Control Valve	17213	-	L12.03	ILD-02	SI5.03	CON
121	3	S	122	FE	Magnetic Flow Element	Bioreactor 2 Anaerobic Zone	17701-A	I101	L12.03	ILD-04	SI5.03	CON
122	3	S	122	FIT	Magnetic Flow Transmitter	Bioreactor 2 Anaerobic Zone	17701-A	I101	L12.03	ILD-04	SI5.03	CON
123	3	S	123	FCV	Pneumatic Valve Actuator	Bioreactor 2 Anaerobic Zone Control Valve	17213	-	L12.03	ILD-02	SI5.03	CON
124	3	S	124	FCV	Pneumatic Valve Actuator	Bioreactor 2 Pre Anoxic Zone Inlet Valve	17213	-	L12.03	ILD-02	SI5.03	CON
125	3	S	125	FCV	Pneumatic Valve Actuator	Fermenters Primary Sludge Dilution Wtr Valve	17213	-	L13.01	ILD-02	F12.03	CON
126	3	S	125	FE	Magnetic Flow Element	Fermenters Primary Sludge Dilution Water	17701-A	I101	L13.01	ILD-04	F12.03	CON
127	3	S	125	FIT	Magnetic Flow Transmitter	Fermenters Primary Sludge Dilution Water	17701-A	I101	L13.01	ILD-04	F12.03	CON
128	3	S	451	AE	Dissolved Oxygen Sensor	Bioreactor 1 Aerobic Zone 1	17701-A	I104	L12.02	ILD-01	SI5.01	CON
129	3	S	451	AIT	Dissolved Oxygen Transmitter	Bioreactor 1 Aerobic Zone 1	17701-A	I104	L12.02	ILD-01	SI5.01	CON
130	3	S	451	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 1 Process Air Ctl Valve	17213	-	L12.02	ILD-02	SI5.02	CON
131	3	S	451	FV	Solenoid Valve	AE-S451 Air Jet	17701-A	I108	L12.02	ILD-01	SI5.01	CON
132	3	S	452	AE	Dissolved Oxygen Sensor	Bioreactor 1 Aerobic Zone 2	17701-A	I104	L12.02	ILD-01	SI5.01	CON
133	3	S	452	AIT	Dissolved Oxygen Transmitter	Bioreactor 1 Aerobic Zone 2	17701-A	I104	L12.02	ILD-01	SI5.01	CON
134	3	S	452	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 2 Process Air Ctl Valve	17213	-	L12.02	ILD-02	SI5.02	CON
135	3	S	452	FV	Solenoid Valve	AE-S452 Air Jet	17701-A	I108	L12.02	ILD-01	SI5.01	CON
136	3	S	453	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 2 Process Air Ctl Valve	17213	-	L12.02	ILD-02	SI5.02	CON
137	3	S	454	AE	Dissolved Oxygen Sensor	Bioreactor 1 Aerobic Zone 3	17701-A	I104	L12.02	ILD-01	SI5.01	CON
138	3	S	454	AIT	Dissolved Oxygen Transmitter	Bioreactor 1 Aerobic Zone 3	17701-A	I104	L12.02	ILD-01	SI5.01	CON
139	3	S	454	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 3 Process Air Ctl Valve	17213	-	L12.02	ILD-02	SI5.02	CON
140	3	S	454	FV	Solenoid Valve	AE-S454 Air Jet	17701-A	I108	L12.02	ILD-01	SI5.01	CON
141	3	S	455	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 3 Process Air Ctl Valve	17213	-	L12.02	ILD-02	SI5.02	CON
142	3	S	456	AE	Dissolved Oxygen Sensor	Bioreactor 1 Aerobic Zone 4	17701-A	I104	L12.02	ILD-01	SI5.01	CON
143	3	S	456	AIT	Dissolved Oxygen Transmitter	Bioreactor 1 Aerobic Zone 4	17701-A	I104	L12.02	ILD-01	SI5.01	CON
144	3	S	456	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 4 Process Air Ctl Valve	17213	-	L12.02	ILD-02	SI5.02	CON

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION				REFERENCES			
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
145	3	S	456	FV	Solenoid Valve	AE-S456 Air Jet	17701-A	I108	L12.02	ILD-01	SI5.01	CON
146	3	S	457	FCV	Pneumatic Valve Actuator	Bioreactor 1 Aerobic 4 Process Air Ctl Valve	17213	-	L12.02	ILD-02	SI5.02	CON
147	3	S	458	FCV	Motorized Valve Actuator	Bioreactor 1 Aerobic 4 Process Air Ctl Valve	17213	-	L12.02	ILD-03	SI5.02	CON
148	3	S	458	PSH	High Pressure Switch	Bioreactor 1 Process Air	17701-A	I105	L12.02	ILD-05	SI5.02	CON
149	3	S	461	AE	Dissolved Oxygen Sensor	Bioreactor 2 Aerobic Zone 1	17701-A	I104	L12.04	ILD-01	SI5.01	CON
150	3	S	461	AIT	Dissolved Oxygen Transmitter	Bioreactor 2 Aerobic Zone 1	17701-A	I104	L12.04	ILD-01	SI5.01	CON
151	3	S	461	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 1 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
152	3	S	461	FV	Solenoid Valve	AE-S461 Air Jet	17701-A	I108	L12.04	ILD-01	SI5.01	CON
153	3	S	462	AE	Dissolved Oxygen Sensor	Bioreactor 2 Aerobic Zone 2	17701-A	I104	L12.04	ILD-01	SI5.01	CON
154	3	S	462	AIT	Dissolved Oxygen Transmitter	Bioreactor 2 Aerobic Zone 2	17701-A	I104	L12.04	ILD-01	SI5.01	CON
155	3	S	462	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 2 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
156	3	S	462	FV	Solenoid Valve	AE-S462 Air Jet	17701-A	I108	L12.04	ILD-01	SI5.01	CON
157	3	S	463	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 2 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
158	3	S	464	AE	Dissolved Oxygen Sensor	Bioreactor 2 Aerobic Zone 3	17701-A	I104	L12.04	ILD-01	SI5.01	CON
159	3	S	464	AIT	Dissolved Oxygen Transmitter	Bioreactor 2 Aerobic Zone 3	17701-A	I104	L12.04	ILD-01	SI5.01	CON
160	3	S	464	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 3 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
161	3	S	464	FV	Solenoid Valve	AE-S464 Air Jet	17701-A	I108	L12.04	ILD-01	SI5.01	CON
162	3	S	465	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 3 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
163	3	S	466	AE	Dissolved Oxygen Sensor	Bioreactor 2 Aerobic Zone 4	17701-A	I104	L12.04	ILD-01	SI5.01	CON
164	3	S	466	AIT	Dissolved Oxygen Transmitter	Bioreactor 2 Aerobic Zone 4	17701-A	I104	L12.04	ILD-01	SI5.01	CON
165	3	S	466	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 4 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
166	3	S	466	FV	Solenoid Valve	AE-S466 Air Jet	17701-A	I108	L12.04	ILD-01	SI5.01	CON
167	3	S	467	FCV	Pneumatic Valve Actuator	Bioreactor 2 Aerobic 4 Process Air Ctl Valve	17213	-	L12.04	ILD-02	SI5.03	CON
168	3	S	468	FCV	Motorized Valve Actuator	Bioreactor 2 Aerobic 4 Process Air Ctl Valve	17213	-	L12.04	ILD-03	SI5.03	CON
169	3	S	468	PSH	High Pressure Switch	Bioreactor 2 Process Air	17701-A	I105	L12.04	ILD-05	SI5.03	CON
170	3	S	510	HS-1	Lock Off Stop (LOS) Pushbutton	Secondary Clarifier 1	17216	-	L12.08	ILD-13	SI6.01	CON
171	3	S	510	HS-2	Computer-Off-Hand Selector Switch	Secondary Clarifier 1	17216	-	L12.08	ILD-13	SI6.01	CON
172	3	S	510	MM-1	Running Pilot Light	Secondary Clarifier 1	17216	-	L12.08	ILD-13	SI6.01	CON
173	3	S	510	MO-1	Stopped Pilot Light	Secondary Clarifier 1	17216	-	L12.08	ILD-13	SI6.01	CON
174	3	S	510	OSH	High Torque Switch	Secondary Clarifier 1	11525	-	L12.08	ILD-13	SI6.01	PKG
175	3	S	510	OSHH	High High Torque Switch	Secondary Clarifier 1	11525	-	L12.08	ILD-13	SI6.01	PKG
176	3	S	510	ZS	Position Switch	Secondary Clarifier 1	11525	-	L12.08	ILD-13	SI6.01	PKG
177	3	S	520	HS-1	Lock Off Stop (LOS) Pushbutton	Secondary Clarifier 2	17216	-	L12.08	ILD-13	SI6.01	CON
178	3	S	520	HS-2	Computer-Off-Hand Selector Switch	Secondary Clarifier 2	17216	-	L12.08	ILD-13	SI6.01	CON
179	3	S	520	MM-1	Running Pilot Light	Secondary Clarifier 2	17216	-	L12.08	ILD-13	SI6.01	CON
180	3	S	520	MO-1	Stopped Pilot Light	Secondary Clarifier 2	17216	-	L12.08	ILD-13	SI6.01	CON
181	3	S	520	OSH	High Torque Switch	Secondary Clarifier 2	11525	-	L12.08	ILD-13	SI6.01	PKG
182	3	S	520	OSHH	High High Torque Switch	Secondary Clarifier 2	11525	-	L12.08	ILD-13	SI6.01	PKG
183	3	S	520	ZS	Position Switch	Secondary Clarifier 2	11525	-	L12.08	ILD-13	SI6.01	PKG
184	3	S	530	FCV	Pneumatic Valve Actuator	Sec. Clarifier 3 Mixed Liquor Inlet Valve	17213	-	L12.06	ILD-02	SI6.04	CON
185	3	S	530	FE	Magnetic Flow Element	Secondary Clarifier 3 Mixed Liquor Feed	17701-A	I101	L12.06	ILD-04	SI6.04	CON
186	3	S	530	FIT	Magnetic Flow Transmitter	Secondary Clarifier 3 Mixed Liquor Feed	17701-A	I101	L12.06	ILD-04	SI6.04	CON
187	3	S	530	HS-1	Lock Off Stop (LOS) Pushbutton	Secondary Clarifier 3	17216	-	L12.06	ILD-13	SI6.02	CON
188	3	S	530	HS-2	Computer-Off-Hand Selector Switch	Secondary Clarifier 3	17216	-	L12.06	ILD-13	SI6.02	CON
189	3	S	530	MM-1	Running Pilot Light	Secondary Clarifier 3	17216	-	L12.06	ILD-13	SI6.02	CON
190	3	S	530	MO-1	Stopped Pilot Light	Secondary Clarifier 3	17216	-	L12.06	ILD-13	SI6.02	CON
191	3	S	530	OSH	High Torque Switch	Secondary Clarifier 3	11525	-	L12.06	ILD-13	SI6.02	PKG
192	3	S	530	OSHH	High High Torque Switch	Secondary Clarifier 3	11525	-	L12.06	ILD-13	SI6.02	PKG

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION				REFERENCES			
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
193	3	S	530	ZS	Position Switch	Secondary Clarifier 3	11525	-	L12.06	ILD-13	SI6.02	PKG
194	3	S	710	FE	Magnetic Flow Element	R.A.S. Pump 1 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
195	3	S	710	FIT	Magnetic Flow Transmitter	R.A.S. Pump 1 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
196	3	S	710	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 1	17216	-	L12.08	ILD-14	SI6.04	CON
197	3	S	710	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 1	17216	-	L12.08	ILD-14	SI6.04	CON
198	3	S	720	FE	Magnetic Flow Element	R.A.S. Pump 2 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
199	3	S	720	FIT	Magnetic Flow Transmitter	R.A.S. Pump 2 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
200	3	S	720	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 2	17216	-	L12.08	ILD-14	SI6.04	CON
201	3	S	720	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 2	17216	-	L12.08	ILD-14	SI6.04	CON
202	3	S	730	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 3	17216	-	L12.08	ILD-14	SI6.04	CON
203	3	S	730	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 3	17216	-	L12.08	ILD-14	SI6.04	CON
204	3	S	740	AIT-1	NH3 Analyzer	Final Effluent	11851	-	L12.08	ILD-08	SI6.04	PKG
205	3	S	740	AIT-2	NO3 Analyzer	Final Effluent	11851	-	L12.08	ILD-08	SI6.04	PKG
206	3	S	740	AIT-3	PO4 Analyzer	Final Effluent	11851	-	L12.08	ILD-08	SI6.04	PKG
207	3	S	740	FCV	Pneumatic Valve Actuator	R.A.S. to Bioreactor 1 Flow Control Valve	17213	-	L12.01	ILD-02	SI5.02	CON
208	3	S	740	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 4	17216	-	L12.07	ILD-14	SI6.04	CON
209	3	S	740	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 4	17216	-	L12.07	ILD-14	SI6.04	CON
210	3	S	741	FCV	Pneumatic Valve Actuator	R.A.S. to Bioreactor 2 Flow Control Valve	17213	-	L12.03	ILD-02	SI5.03	CON
211	3	S	750	FE	Magnetic Flow Element	R.A.S. Pumps 4 & 5 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
212	3	S	750	FIT	Magnetic Flow Transmitter	R.A.S. Pumps 4 & 5 Discharge	17701-A	I101	L12.07	ILD-04	SI6.04	CON
213	3	S	750	HS-1	Lock Off Stop (LOS) Pushbutton	R.A.S. Pump 5	17216	-	L12.07	ILD-14	SI6.04	CON
214	3	S	750	HS-2	Computer-Off-Hand Selector Switch	R.A.S. Pump 5	17216	-	L12.07	ILD-14	SI6.04	CON
215	3	S	760	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Pre Anoxic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
216	3	S	760	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Pre Anoxic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
217	3	S	760	MM-1	Running Pilot Light	Bioreactor 1 Pre Anoxic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
218	3	S	760	MO-1	Stopped Pilot Light	Bioreactor 1 Pre Anoxic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
219	3	S	761	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Anaerobic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
220	3	S	761	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Anaerobic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
221	3	S	761	MM-1	Running Pilot Light	Bioreactor 1 Anaerobic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
222	3	S	761	MO-1	Stopped Pilot Light	Bioreactor 1 Anaerobic Zone Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
223	3	S	762	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Anoxic Zone 1 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
224	3	S	762	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Anoxic Zone 1 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
225	3	S	762	MM-1	Running Pilot Light	Bioreactor 1 Anoxic Zone 1 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
226	3	S	762	MO-1	Stopped Pilot Light	Bioreactor 1 Anoxic Zone 1 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
227	3	S	763	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Anoxic Zone 2 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
228	3	S	763	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Anoxic Zone 2 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
229	3	S	763	MM-1	Running Pilot Light	Bioreactor 1 Anoxic Zone 2 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
230	3	S	763	MO-1	Stopped Pilot Light	Bioreactor 1 Anoxic Zone 2 Mixer	17216	-	L12.01	ILD-12	SI5.01	CON
231	3	S	765	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Pre Anoxic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
232	3	S	765	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Pre Anoxic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
233	3	S	765	MM-1	Running Pilot Light	Bioreactor 2 Pre Anoxic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
234	3	S	765	MO-1	Stopped Pilot Light	Bioreactor 2 Pre Anoxic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
235	3	S	766	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Anaerobic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
236	3	S	766	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Anaerobic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
237	3	S	766	MM-1	Running Pilot Light	Bioreactor 2 Anaerobic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
238	3	S	766	MO-1	Stopped Pilot Light	Bioreactor 2 Anaerobic Zone Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
239	3	S	767	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Anoxic Zone 1 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
240	3	S	767	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Anoxic Zone 1 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION			REFERENCES				
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
241	3	S	767	MM-1	Running Pilot Light	Bioreactor 2 Anoxic Zone 1 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
242	3	S	767	MO-1	Stopped Pilot Light	Bioreactor 2 Anoxic Zone 1 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
243	3	S	768	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Anoxic Zone 2 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
244	3	S	768	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Anoxic Zone 2 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
245	3	S	768	MM-1	Running Pilot Light	Bioreactor 2 Anoxic Zone 2 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
246	3	S	768	MO-1	Stopped Pilot Light	Bioreactor 2 Anoxic Zone 2 Mixer	17216	-	L12.03	ILD-12	SI5.01	CON
247	3	S	770	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 1 Recycle Pump	17216	-	L12.02	ILD-14	SI5.02	CON
248	3	S	770	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 1 Recycle Pump	17216	-	L12.02	ILD-14	SI5.02	CON
249	3	S	771	HS-1	Lock Off Stop (LOS) Pushbutton	Bioreactor 2 Recycle Pump	17216	-	L12.04	ILD-14	SI5.03	CON
250	3	S	771	HS-2	Computer-Off-Hand Selector Switch	Bioreactor 2 Recycle Pump	17216	-	L12.04	ILD-14	SI5.03	CON
251	3	S	810	FCV	Motorized Valve Actuator	W.A.S. Pump 1 Suction Valve	17213	-	L12.05	ILD-03	SI5.02	CON
252	3	S	810	HS-1	Lock Off Stop (LOS) Pushbutton	W.A.S. Pump 1	17216	-	L12.05	ILD-14	SI5.03	CON
253	3	S	810	HS-2	Computer-Off-Hand Selector Switch	W.A.S. Pump 1	17216	-	L12.05	ILD-14	SI5.03	CON
254	3	S	820	FCV	Motorized Valve Actuator	W.A.S. Pump 2 Suction Valve	17213	-	L12.05	ILD-03	SI5.03	CON
255	3	S	820	FE	Magnetic Flow Element	W.A.S. Pumps Discharge to DAF	17701-A	I101	L12.05	ILD-04	SI5.02	CON
256	3	S	820	FIT	Magnetic Flow Transmitter	W.A.S. Pumps Discharge to DAF	17701-A	I101	L12.05	ILD-04	SI5.02	CON
257	3	S	820	HS-1	Lock Off Stop (LOS) Pushbutton	W.A.S. Pump 2	17216	-	L12.05	ILD-14	SI5.03	CON
258	3	S	820	HS-2	Computer-Off-Hand Selector Switch	W.A.S. Pump 2	17216	-	L12.05	ILD-14	SI5.03	CON
259	3	S	821	FE	Magnetic Flow Element	DAF Thickener 2 W.A.S. Feed	17701-A	I101	L14.03	ILD-04	T14.01	CON
260	3	S	821	FIT	Magnetic Flow Transmitter	DAF Thickener 2 W.A.S. Feed	17701-A	I101	L14.03	ILD-04	T14.01	CON
261	3	S	822	FCV	Pneumatic Valve Actuator	DAF Thickener 2 W.A.S. Control Valve	17213	-	L14.03	ILD-02	T14.01	CON
262	3	T	110	FV	Solenoid Valve	DAF Sludge Dilution Water Valve	17701-A	I107	L14.02	ILD-10	T14.01	CON
263	3	T	110	HS-1	Local-Remote Selector Switch	DAF 1 Sludge Dilution Water Valve	17216	-	L14.02	ILD-10	T14.01	CON
264	3	T	110	HS-2	Open/Close Selector Switch	DAF 1 Sludge Dilution Water Valve	17216	-	L14.02	ILD-10	T14.01	CON
265	3	T	110	LSH	High Level Switch	DAF 1 Float Hopper	17701-A	I102	L14.02	ILD-05	T14.01	CON
266	3	T	111	FCV	Motorized Valve Actuator	DAF 1 Sludge Discharge Valve	17213	-	L14.02	ILD-03	T14.01	CON
267	3	T	111	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 1 Skimmer Drive	17216	-	L14.02	ILD-13	T14.01	CON
268	3	T	111	HS-2	Computer-Off-Hand Selector Switch	DAF 1 Skimmer Drive	17216	-	L14.02	ILD-13	T14.01	CON
269	3	T	111	LE	Ultrasonic Level Element	DAF 1 Subnatant Wet Well	17701-A	I103	L14.02	ILD-06	T14.01	CON
270	3	T	111	LIT	Ultrasonic Level Transmitter	DAF 1 Subnatant Wet Well	17701-A	I103	L14.02	ILD-06	T14.01	CON
271	3	T	111	MD1	Motorized Damper Actuator	DAF Thickener 1 Exhaust Air	Div. 15	-	L13.06	ILD-03	TM2.02	CON
272	3	T	111	MM-1	Running Pilot Light	DAF 1 Skimmer Drive	17216	-	L14.02	ILD-13	T14.01	CON
273	3	T	111	MO-1	Stopped Pilot Light	DAF 1 Skimmer Drive	17216	-	L14.02	ILD-13	T14.01	CON
274	3	T	111	OSH	High Torque Switch	DAF 1 Skimmer Drive	11714	-	L14.02	ILD-13	T14.01	PKG
275	3	T	111	OSL	Low Torque Switch	DAF 1 Skimmer Drive	11714	-	L14.02	ILD-13	T14.01	PKG
276	3	T	112	FE	Magnetic Flow Element	DAF 1 Saturator Discharge	11714	-	L14.02	ILD-04	T14.01	PKG
277	3	T	112	FIT	Magnetic Flow Transmitter	DAF 1 Saturator Discharge	11714	-	L14.02	ILD-04	T14.01	PKG
278	3	T	112	FV	Solenoid Valve	DAF 1 Saturator Air Control Valve	11714	-	L14.02	ILD-10	T14.01	PKG
279	3	T	112	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 1 Air Compressor	17216	-	L14.02	ILD-12	T14.01	CON
280	3	T	112	HS-2	Computer-Off-Hand Selector Switch	DAF 1 Air Compressor	17216	-	L14.02	ILD-12	T14.01	CON
281	3	T	112	HS-3	Local-Remote Selector Switch	DAF 1 Saturator Air Control Valve	17216	-	L14.02	ILD-10	T14.01	CON
282	3	T	112	HS-4	Open/Close Selector Switch	DAF 1 Saturator Air Control Valve	17216	-	L14.02	ILD-10	T14.01	CON
283	3	T	112	LSH	High Level Switch	DAF 1 Saturator	11714	-	L14.02	ILD-05	T14.01	PKG
284	3	T	112	LSL	Low Level Switch	DAF 1 Saturator	11714	-	L14.02	ILD-05	T14.01	PKG
285	3	T	112	MM-1	Running Pilot Light	DAF 1 Air Compressor	17216	-	L14.02	ILD-12	T14.01	CON
286	3	T	112	MO-1	Stopped Pilot Light	DAF 1 Air Compressor	17216	-	L14.02	ILD-12	T14.01	CON
287	3	T	112	PSH	High Pressure Switch	DAF 1 Air Compressor	11714	-	L14.02	PKG	T14.01	PKG
288	3	T	112	PSL	Low Pressure Switch	DAF 1 Saturator Inlet Air	11714	-	L14.02	ILD-05	T14.01	PKG

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION				REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE			
289	3	T	113	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 1 Recycle Pump	17216	-	L14.02	ILD-12	T14.01	CON
290	3	T	113	HS-2	Computer-Off-Hand Selector Switch	DAF 1 Recycle Pump	17216	-	L14.02	ILD-12	T14.01	CON
291	3	T	113	MM-1	Running Pilot Light	DAF 1 Recycle Pump	17216	-	L14.02	ILD-12	T14.01	CON
292	3	T	113	MO-1	Stopped Pilot Light	DAF 1 Recycle Pump	17216	-	L14.02	ILD-12	T14.01	CON
293	3	T	120	FV	Solenoid Valve	DAF Sludge Dilution Water Valve	17701-A	I107	L14.03	ILD-10	T14.01	CON
294	3	T	120	HS-1	Local-Remote Selector Switch	DAF 2 Sludge Dilution Water Valve	17216	-	L14.03	ILD-10	T14.01	CON
295	3	T	120	HS-2	Open/Close Selector Switch	DAF 2 Sludge Dilution Water Valve	17216	-	L14.03	ILD-10	T14.01	CON
296	3	T	120	LSH	High Level Switch	DAF 2 Float Hopper	17701-A	I102	L14.03	ILD-05	T14.01	CON
297	3	T	121	FCV	Motorized Valve Actuator	DAF 2 Sludge Discharge Valve	17213	-	L14.03	ILD-03	T14.01	CON
298	3	T	121	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 2 Skimmer Drive	17216	-	L14.03	ILD-13	T14.01	CON
299	3	T	121	HS-2	Computer-Off-Hand Selector Switch	DAF 2 Skimmer Drive	17216	-	L14.03	ILD-13	T14.01	CON
300	3	T	121	LE	Ultrasonic Level Element	DAF 2 Subnatant Wet Well	17701-A	I103	L14.03	ILD-06	T14.01	CON
301	3	T	121	LIT	Ultrasonic Level Transmitter	DAF 2 Subnatant Wet Well	17701-A	I103	L14.03	ILD-06	T14.01	CON
302	3	T	121	MD1	Motorized Damper Actuator	DAF Thickener 2 Exhaust Air	Div.15	-	L13.06	ILD-03	TM2.02	CON
303	3	T	121	MM-1	Running Pilot Light	DAF 2 Skimmer Drive	17216	-	L14.03	ILD-13	T14.01	CON
304	3	T	121	MO-1	Stopped Pilot Light	DAF 2 Skimmer Drive	17216	-	L14.03	ILD-13	T14.01	CON
305	3	T	121	OSH	High Torque Switch	DAF 2 Skimmer Drive	11714	-	L14.03	ILD-13	T14.01	PKG
306	3	T	121	OSL	Low Torque Switch	DAF 2 Skimmer Drive	11714	-	L14.03	ILD-13	T14.01	PKG
307	3	T	122	FE	Magnetic Flow Element	DAF 2 Saturator Discharge	11714	-	L14.03	ILD-04	T14.01	PKG
308	3	T	122	FIT	Magnetic Flow Transmitter	DAF 2 Saturator Discharge	11714	-	L14.03	ILD-04	T14.01	PKG
309	3	T	122	FV	Solenoid Valve	DAF 2 Saturator Air Control Valve	11714	-	L14.03	ILD-10	T14.01	PKG
310	3	T	122	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 2 Air Compressor	17216	-	L14.03	ILD-12	T14.01	CON
311	3	T	122	HS-2	Computer-Off-Hand Selector Switch	DAF 2 Air Compressor	17216	-	L14.03	ILD-12	T14.01	CON
312	3	T	122	HS-3	Local-Remote Selector Switch	DAF 2 Saturator Air Control Valve	17216	-	L14.03	ILD-10	T14.01	CON
313	3	T	122	HS-4	Open/Close Selector Switch	DAF 2 Saturator Air Control Valve	17216	-	L14.03	ILD-10	T14.01	CON
314	3	T	122	LSH	High Level Switch	DAF 2 Saturator	11714	-	L14.03	ILD-05	T14.01	PKG
315	3	T	122	LSL	Low Level Switch	DAF 2 Saturator	11714	-	L14.03	ILD-05	T14.01	PKG
316	3	T	122	MM-1	Running Pilot Light	DAF 2 Air Compressor	17216	-	L14.03	ILD-12	T14.01	CON
317	3	T	122	MO-1	Stopped Pilot Light	DAF 2 Air Compressor	17216	-	L14.03	ILD-12	T14.01	CON
318	3	T	122	PSH	High Pressure Switch	DAF 2 Air Compressor	11714	-	L14.03	PKG	T14.01	PKG
319	3	T	122	PSL	Low Pressure Switch	DAF 2 Saturator Inlet Air	11714	-	L14.03	ILD-05	T14.01	PKG
320	3	T	123	HS-1	Lock Off Stop (LOS) Pushbutton	DAF 2 Recycle Pump	17216	-	L14.03	ILD-12	T14.01	CON
321	3	T	123	HS-2	Computer-Off-Hand Selector Switch	DAF 2 Recycle Pump	17216	-	L14.03	ILD-12	T14.01	CON
322	3	T	123	MM-1	Running Pilot Light	DAF 2 Recycle Pump	17216	-	L14.03	ILD-12	T14.01	CON
323	3	T	123	MO-1	Stopped Pilot Light	DAF 2 Recycle Pump	17216	-	L14.03	ILD-12	T14.01	CON
324	3	T	125	HS-1	Lock Off Stop (LOS) Pushbutton	Subnatant Pump 1	17216	-	L14.04	ILD-14	T14.01	CON
325	3	T	125	HS-2	Computer-Off-Hand Selector Switch	Subnatant Pump 1	17216	-	L14.04	ILD-14	T14.01	CON
326	3	T	126	HS-1	Lock Off Stop (LOS) Pushbutton	Subnatant Pump 2	17216	-	L14.04	ILD-14	T14.01	CON
327	3	T	126	HS-2	Computer-Off-Hand Selector Switch	Subnatant Pump 2	17216	-	L14.04	ILD-14	T14.01	CON
328	3	T	127	FE	Magnetic Flow Element	DAF Subnatant to Clarifiers	17701-A	I101	L14.04	ILD-04	T14.01	CON
329	3	T	127	FIT	Magnetic Flow Transmitter	DAF Subnatant to Clarifiers	17701-A	I101	L14.04	ILD-04	T14.01	CON
330	3	T	130	FV	Solenoid Valve	DAF Polymer Mix Tank MakeUp Water	17701-A	I107	L14.01	ILD-10	T14.02	CON
331	3	T	130	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Blower	17216	-	L14.01	ILD-12	T14.02	CON
332	3	T	130	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Blower	17216	-	L14.01	ILD-12	T14.02	CON
333	3	T	130	HS-3	Local-Remote Selector Switch	DAF Polymer Mix Tank Water Control Valve	17216	-	L14.01	ILD-10	T14.02	CON
334	3	T	130	HS-4	Open/Close Selector Switch	DAF Polymer Mix Tank Water Control Valve	17216	-	L14.01	ILD-10	T14.02	CON
335	3	T	130	MM-1	Running Pilot Light	DAF Polymer Blower	17216	-	L14.01	ILD-12	T14.02	CON
336	3	T	130	MO-1	Stopped Pilot Light	DAF Polymer Blower	17216	-	L14.01	ILD-12	T14.02	CON

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

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION				REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE			
337	3	T	130	PSL	Low Pressure Switch	DAF Polymer Mix Tank Water Supply	17701-A	I105	L14.01	ILD-05	T14.02	CON
338	3	T	131	FE	Magnetic Flow Element	DAF Tank 1 Polymer Feed	17701-A	I101	L14.01	ILD-04	T14.02	CON
339	3	T	131	FIT	Magnetic Flow Transmitter	DAF Tank 1 Polymer Feed	17701-A	I101	L14.01	ILD-04	T14.02	CON
340	3	T	131	FV	Solenoid Valve	DAF Tank 1 Polymer Flushing Water	17701-A	I107	L14.01	ILD-10	T14.02	CON
341	3	T	131	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Metering Pump 1	17216	-	L14.01	ILD-14	T14.02	CON
342	3	T	131	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Metering Pump 1	17216	-	L14.01	ILD-14	T14.02	CON
343	3	T	131	HS-3	Local-Remote Selector Switch	DAF Tank 1 Polymer Flushing Water Valve	17216	-	L14.01	ILD-10	T14.02	CON
344	3	T	131	HS-4	Open/Close Selector Switch	DAF Tank 1 Polymer Flushing Water Valve	17216	-	L14.01	ILD-10	T14.02	CON
345	3	T	131	LSL	Low Level Switch	DAF Polymer Run Tank			L14.01	ILD-05	T14.02	PKG
346	3	T	131	LSLL	Low Low Level Switch	DAF Polymer Run Tank	17701-A	I102	L14.01	ILD-05	T14.02	CON
347	3	T	131	PSH	High Pressure Switch	DAF Polymer Metering Pump 1 Discharge	17701-A	I105	L14.01	ILD-05	T14.02	CON
348	3	T	132	FE	Magnetic Flow Element	DAF Tank 2 Polymer Feed	17701-A	I101	L14.01	ILD-04	T14.02	CON
349	3	T	132	FIT	Magnetic Flow Transmitter	DAF Tank 2 Polymer Feed	17701-A	I101	L14.01	ILD-04	T14.02	CON
350	3	T	132	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Metering Pump 2	17216	-	L14.01	ILD-14	T14.02	CON
351	3	T	132	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Metering Pump 2	17216	-	L14.01	ILD-14	T14.02	CON
352	3	T	132	HS-3	Local-Remote Selector Switch	DAF Tank 2 Polymer Flushing Water Valve	17216	-	L14.01	ILD-10	T14.02	CON
353	3	T	132	HS-4	Open/Close Selector Switch	DAF Tank 2 Polymer Flushing Water Valve	17216	-	L14.01	ILD-10	T14.02	CON
354	3	T	132	PSH	High Pressure Switch	DAF Polymer Metering Pump 2 Discharge	17701-A	I105	L14.01	ILD-05	T14.02	CON
355	3	T	132	SV	Solenoid Valve	DAF Tank 2 Polymer Flushing Water	17701-A	I107	L14.01	ILD-10	T14.02	CON
356	3	T	133	FV	Solenoid Valve	DAF Polymer Mix Tank Discharge	17701-A	I107	L14.01	ILD-10	T14.02	CON
357	3	T	133	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Hopper Screw Conveyer	17216	-	L14.01	ILD-12	T14.02	CON
358	3	T	133	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Hopper Screw Conveyer	17216	-	L14.01	ILD-12	T14.02	CON
359	3	T	133	HS-3	Local-Remote Selector Switch	DAF Polymer Mix Tank Discharge Valve	17216	-	L14.01	ILD-10	T14.02	CON
360	3	T	133	HS-4	Open/Close Selector Switch	DAF Polymer Mix Tank Discharge Valve	17216	-	L14.01	ILD-10	T14.02	CON
361	3	T	133	MM-1	Running Pilot Light	DAF Polymer Hopper Screw Conveyer	17216	-	L14.01	ILD-12	T14.02	CON
362	3	T	133	MO-1	Stopped Pilot Light	DAF Polymer Hopper Screw Conveyer	17216	-	L14.01	ILD-12	T14.02	CON
363	3	T	134	HS-1	Lock Off Stop (LOS) Pushbutton	DAF Polymer Mixer	17216	-	L14.01	ILD-12	T14.02	CON
364	3	T	134	HS-2	Computer-Off-Hand Selector Switch	DAF Polymer Mixer	17216	-	L14.01	ILD-12	T14.02	CON
365	3	T	134	MM-1	Running Pilot Light	DAF Polymer Mixer	17216	-	L14.01	ILD-12	T14.02	CON
366	3	T	134	MO-1	Stopped Pilot Light	DAF Polymer Mixer	17216	-	L14.01	ILD-12	T14.02	CON
367	3	T	135	FV	Solenoid Valve	Clarifier Polymer Mix Tank MakeUp Water	11771	-	L14.07	ILD-10	T14.02	PKG
368	3	T	135	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Blower	17216	-	L14.07	ILD-12	T14.02	CON
369	3	T	135	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Blower	17216	-	L14.07	ILD-12	T14.02	CON
370	3	T	135	HS-3	Local-Remote Selector Switch	Clarifier Polymer Mix Tank Wtr Control Valve	17216	-	L14.07	ILD-10	T14.02	CON
371	3	T	135	HS-4	Open/Close Selector Switch	Clarifier Polymer Mix Tank Wtr Control Valve	17216	-	L14.07	ILD-10	T14.02	CON
372	3	T	135	MM-1	Running Pilot Light	Clarifier Polymer Blower	17216	-	L14.07	ILD-12	T14.02	CON
373	3	T	135	MO-1	Stopped Pilot Light	Clarifier Polymer Blower	17216	-	L14.07	ILD-12	T14.02	CON
374	3	T	135	PSL	Low Pressure Switch	Clarifier Polymer Mix Tank Water Supply	17701-A	I105	L14.07	ILD-05	T14.02	CON
375	3	T	136	FE	Magnetic Flow Element	Primary Clarifier Polymer Feed	17701-A	I101	L14.07	ILD-04	T14.02	CON
376	3	T	136	FIT	Magnetic Flow Transmitter	Primary Clarifier Polymer Feed	17701-A	I101	L14.07	ILD-04	T14.02	CON
377	3	T	136	FV	Solenoid Valve	Clarifier Polymer Flushing Water	17701-A	I107	L14.07	ILD-10	T14.02	CON
378	3	T	136	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Metering Pump 1	17216	-	L14.07	ILD-14	T14.02	CON
379	3	T	136	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Metering Pump 1	17216	-	L14.07	ILD-14	T14.02	CON
380	3	T	136	HS-3	Local-Remote Selector Switch	Clarifier Polymer Flushing Water Valve	17216	-	L14.07	ILD-10	T14.02	CON
381	3	T	136	HS-4	Open/Close Selector Switch	Clarifier Polymer Flushing Water Valve	17216	-	L14.07	ILD-10	T14.02	CON
382	3	T	136	LSL	Low Level Switch	Clarifier Polymer Run Tank			L14.07	ILD-05	T14.02	PKG
383	3	T	136	LSLL	Low Low Level Switch	Clarifier Polymer Run Tank	17701-A	I102	L14.07	ILD-05	T14.02	CON
384	3	T	136	PSH	High Pressure Switch	Clarifier Polymer Metering Pump 1 Discharge	17701-A	I105	L14.07	ILD-05	T14.02	CON

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION				REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE			
385	3	T	137	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Metering Pump 2	17216	-	LI4.07	ILD-14	TI4.02	CON
386	3	T	137	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Metering Pump 2	17216	-	LI4.07	ILD-14	TI4.02	CON
387	3	T	137	PSH	High Pressure Switch	Clarifier Polymer Metering Pump 2 Discharge	17701-A	I105	LI4.07	ILD-05	TI4.02	CON
388	3	T	138	FV	Solenoid Valve	Clarifier Polymer Mix Tank Discharge	11771	-	LI4.07	ILD-10	TI4.02	PKG
389	3	T	138	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Hopper Screw Conveyer	17216	-	LI4.07	ILD-12	TI4.02	CON
390	3	T	138	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Hopper Screw Conveyer	17216	-	LI4.07	ILD-12	TI4.02	CON
391	3	T	138	HS-3	Local-Remote Selector Switch	Clarifier Polymer Mix Tank Discharge Valve	17216	-	LI4.07	ILD-10	TI4.02	CON
392	3	T	138	HS-4	Open/Close Selector Switch	Clarifier Polymer Mix Tank Discharge Valve	17216	-	LI4.07	ILD-10	TI4.02	CON
393	3	T	138	MM-1	Running Pilot Light	Clarifier Polymer Hopper Screw Conveyer	17216	-	LI4.07	ILD-12	TI4.02	CON
394	3	T	138	MO-1	Stopped Pilot Light	Clarifier Polymer Hopper Screw Conveyer	17216	-	LI4.07	ILD-12	TI4.02	CON
395	3	T	139	HS-1	Lock Off Stop (LOS) Pushbutton	Clarifier Polymer Mixer	17216	-	LI4.07	ILD-12	TI4.02	CON
396	3	T	139	HS-2	Computer-Off-Hand Selector Switch	Clarifier Polymer Mixer	17216	-	LI4.07	ILD-12	TI4.02	CON
397	3	T	139	MM-1	Running Pilot Light	Clarifier Polymer Mixer	17216	-	LI4.07	ILD-12	TI4.02	CON
398	3	T	139	MO-1	Stopped Pilot Light	Clarifier Polymer Mixer	17216	-	LI4.07	ILD-12	TI4.02	CON
399	3	T	140	HS	Reset Pushbutton	Ferric Chloride Truck Bay Annunciator Panel	17216	-	LI4.05	ILD-07		CON
400	3	T	140	LE	Ultrasonic Level Element	Ferric Chloride Tank	17701-A	I103	LI4.05	ILD-07	TI4.02	CON
401	3	T	140	LIT	Ultrasonic Level Transmitter	Ferric Chloride Tank	17701-A	I103	LI4.05	ILD-07	TI4.02	CON
402	3	T	140	LLH	Tank High Level Pilot light	Ferric Chloride Truck Bay Annunciator Panel	17216	-	LI4.05	ILD-07		CON
403	3	T	140	LSH	High Level Switch	Ferric Chloride Tank	17701-A	I102	LI4.05	ILD-07	TI4.02	CON
404	3	T	140	LSL	Low Level Switch	Ferric Chloride Tank	17701-A	I102	LI4.05	ILD-07	TI4.02	CON
405	3	T	140	XA	Horn	Ferric Chloride Truck Bay Annunciator Panel	17216	-	LI4.05	ILD-07		CON
406	3	T	141	FSL	Low Flow Switch	Ferric Chloride Dosing Pump 1			LI4.06	ILD-05	TI4.02	PKG
407	3	T	141	HS-1	Lock Off Stop (LOS) Pushbutton	Ferric Chloride Dosing Pump 1	17216	-	LI4.06	ILD-14	TI4.02	CON
408	3	T	141	HS-2	Computer-Off-Hand Selector Switch	Ferric Chloride Dosing Pump 1	17216	-	LI4.06	ILD-14	TI4.02	CON
409	3	T	142	FSL	Low Flow Switch	Ferric Chloride Dosing Pump 2			LI4.06	ILD-05	TI4.02	PKG
410	3	T	142	HS-1	Lock Off Stop (LOS) Pushbutton	Ferric Chloride Dosing Pump 2	17216	-	LI4.06	ILD-14	TI4.02	CON
411	3	T	142	HS-2	Computer-Off-Hand Selector Switch	Ferric Chloride Dosing Pump 2	17216	-	LI4.06	ILD-14	TI4.02	CON
412	3	T	143	FSL	Low Flow Switch	Ferric Chloride Dosing Pump 3			LI4.06	ILD-05	TI4.02	PKG
413	3	T	143	HS-1	Lock Off Stop (LOS) Pushbutton	Ferric Chloride Dosing Pump 3	17216	-	LI4.06	ILD-14	TI4.02	CON
414	3	T	143	HS-2	Computer-Off-Hand Selector Switch	Ferric Chloride Dosing Pump 3	17216	-	LI4.06	ILD-14	TI4.02	CON
415	3	T	144	FSL	Low Flow Switch	Ferric Chloride Dosing Pump 4			LI4.06	ILD-05	TI4.02	PKG
416	3	T	144	HS-1	Lock Off Stop (LOS) Pushbutton	Ferric Chloride Dosing Pump 4	17216	-	LI4.06	ILD-14	TI4.02	CON
417	3	T	144	HS-2	Computer-Off-Hand Selector Switch	Ferric Chloride Dosing Pump 4	17216	-	LI4.06	ILD-14	TI4.02	CON
418	3	T	145	LSH	High Level Switch	Ferric Chloride Containment Sump	17701-A	I102	LI4.06	ILD-05	TI4.02	CON
419	3	T	910	ZS	Security Motion Detector	Intruder Security System	17701-A	I109	-	ILD-16	TI4.01	CON
420	3	T	911	ZS	Security Door Switch	Intruder Security System	17701-A	I110	-	ILD-16	TI4.01	CON
421	3	T	912	ZS	Security Motion Detector	Intruder Security System	17701-A	I109	-	ILD-16	TI4.02	CON
422	3	T	913	ZS	Security Door Switch	Intruder Security System	17701-A	I110	-	ILD-16	TI4.02	CON
423	3	T	914	ZS	Security Motion Detector	Intruder Security System	17701-A	I109	-	ILD-16	TE1.03	CON
424	3	T	915	ZS	Security Door Switch	Intruder Security System	17701-A	I110	-	ILD-16	TE1.03	CON
425	4	F	600	TT-1	Duct Averaging Temperature Transmitter	F600 MUA Return Air	17701-A	I112	LM4.01	ILD-17	FM2.01	CON
426	4	F	600	TT-2	Duct Averaging Temperature Transmitter	F600 MUA Mixed Air	17701-A	I112	LM4.01	ILD-17	FM2.01	CON
427	4	F	600	TT-3	Duct Averaging Temperature Transmitter	F600 MUA Exhaust Air	17701-A	I112	LM4.01	ILD-17	FM2.01	CON
428	4	F	600	HS-1	Lock Off Stop (LOS) Pushbutton	F600-MUA Supply Fan	17216	-	LM4.01	ILD-14	FM2.01	CON
429	4	F	600	HS-2	Computer-Off-Hand Selector Switch	F600-MUA Supply Fan	17216	-	LM4.01	ILD-14	FM2.01	CON
430	4	F	600	HS-3	Lock Off Stop (LOS) Pushbutton	F600-MUA Exhaust Fan	17216	-	LM4.01	ILD-14	FM2.01	CON
431	4	F	600	HS-4	Computer-Off-Hand Selector Switch	F600-MUA Exhaust Fan	17216	-	LM4.01	ILD-14	FM2.01	CON
432	4	F	600	PI-1	Pressure Gauge	F600-MUA Glycol Supply	Div.15	-	LM4.01	-	FM2.01	PKG

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

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME	DESCRIPTION				REFERENCES				
				INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE		
433	4	F	600	PI-2	Pressure Gauge	F600-MUA Glycol Return	Div.15	-	LM4.01	-	FM2.01	PKG
434	4	F	600	TI-1	Temperature Gauge	F600-MUA Glycol Supply	Div.15	-	LM4.01	-	FM2.01	PKG
435	4	F	600	TI-2	Temperature Gauge	F600-MUA Glycol Return	Div.15	-	LM4.01	-	FM2.01	PKG
436	4	F	600	MD	Motorized Damper Actuator	F600-MUA Outside Air	Div.15	-	LM4.01	ILD-18	FM2.02	PKG
437	4	F	602	MD	Motorized Damper Actuator	F600-MUA Exhaust Air	Div.15	-	LM4.01	ILD-18	FM2.03	PKG
438	4	F	602	TT	Duct Averaging Temperature Transmitter	F600 MUA Outside Air	17701-A	I112	LM4.01	ILD-17	FM2.01	CON
439	4	F	600	PDIT-1	Differential Pressure Transmitter	F600 MUA Air To Air Heat Exchanger	17701-A	I114	LM4.01	ILD-08	FM2.01	CON
440	4	F	600	PDIT-2	Differential Pressure Transmitter	F600 MUA Outside Air Filter	17701-A	I114	LM4.01	ILD-08	FM2.01	CON
441	4	F	600	PDIT-3	Differential Pressure Transmitter	F600 MUA Supply Air Filter	17701-A	I114	LM4.01	ILD-08	FM2.01	CON
442	4	F	604	TIT	Room Air Temperature Transmitter	Primary Sludge Fermenter Pump Room	17701-A	I111	LM4.01	ILD-17	FM2.01	CON
443	4	S	750	TT-1	Duct Averaging Temperature Transmitter	S750 MUA Return Air	17701-A	I112	LM4.02	ILD-17	SM3.02	CON
444	4	S	750	TT-2	Duct Averaging Temperature Transmitter	S750 MUA Mixed Air	17701-A	I112	LM4.02	ILD-17	SM3.02	CON
445	4	S	750	TT-3	Duct Averaging Temperature Transmitter	S750 MUA Exhaust Air	17701-A	I112	LM4.02	ILD-17	SM3.02	CON
446	4	S	750	HS-1	Lock Off Stop (LOS) Pushbutton	S750-MUA Supply Fan	17216	-	LM4.02	ILD-14	SM3.02	CON
447	4	S	750	HS-2	Computer-Off-Hand Selector Switch	S750-MUA Supply Fan	17216	-	LM4.02	ILD-14	SM3.02	CON
448	4	S	750	HS-3	Lock Off Stop (LOS) Pushbutton	S750-MUA Exhaust Fan	17216	-	LM4.02	ILD-14	SM3.02	CON
449	4	S	750	HS-4	Computer-Off-Hand Selector Switch	S750-MUA Exhaust Fan	17216	-	LM4.02	ILD-14	SM3.02	CON
450	4	S	750	PI-1	Pressure Gauge	S750-MUA Glycol Supply	Div.15	-	LM4.02	-	SM3.02	PKG
451	4	S	750	PI-2	Pressure Gauge	S750-MUA Glycol Return	Div.15	-	LM4.02	-	SM3.02	PKG
452	4	S	750	TI-1	Temperature Gauge	S750-MUA Glycol Supply	Div.15	-	LM4.02	-	SM3.02	PKG
453	4	S	750	TI-2	Temperature Gauge	S750-MUA Glycol Return	Div.15	-	LM4.02	-	SM3.02	PKG
454	4	S	750	MD-1	Motorized Damper Actuator	S750-MUA Outside Air	Div.15	-	LM4.02	ILD-18	SM3.02	PKG
455	4	S	750	MD-2	Motorized Damper Actuator	S750-MUA Outside Air	Div.15	-	LM4.02	ILD-18	SM3.02	PKG
456	4	S	752	MD	Motorized Damper Actuator	S750-MUA Outside Air	Div.15	-	LM4.02	ILD-18	SM3.02	PKG
457	4	S	753	MD	Motorized Damper Actuator	S750-MUA Outside Air	Div.15	-	LM4.02	ILD-18	SM3.02	PKG
458	4	S	752	TT	Duct Averaging Temperature Transmitter	S750 MUA Outside Air	17701-A	I112	LM4.02	ILD-17	SM3.02	CON
459	4	S	750	PDIT-1	Differential Pressure Transmitter	S750 MUA Air To Air Heat Exchanger	17701-A	I114	LM4.02	ILD-08	SM3.02	CON
460	4	S	750	PDIT-2	Differential Pressure Transmitter	S750 MUA Outside Air Filter	17701-A	I114	LM4.02	ILD-08	SM3.02	CON
461	4	S	750	PDIT-3	Differential Pressure Transmitter	S750 MUA Supply Air Filter	17701-A	I114	LM4.02	ILD-08	SM3.02	CON
462	4	S	754	TIT	Room Air Temperature Transmitter	Secondary Clarifier #3 Space Temperature	17701-A	I111	LM4.02	ILD-17	SM3.02	CON
463	4	S	765	TT	Water Temperature Transmitter	Heating Boiler S760/S765 Return Temperature	17701-A	I113	LM4.03	ILD-17	SM4.02	CON
464	4	S	770	TT	Water Temperature Transmitter	Heating Boiler S760/S765 Supply Temperature	17701-A	I113	LM4.03	ILD-17	SM4.02	CON
465	4	S	770	PI	Pressure Gauge	Heating Pump T770-GP	Div.15	-	LM4.03	-	SM4.02	PKG
466	4	S	775	PI	Pressure Gauge	Heating Pump T775-GP	Div.15	-	LM4.03	-	SM4.02	PKG
467	4	S	750	PI	Pressure Gauge	Expansion Tank T750-ET	Div.15	-	LM4.03	-	SM4.02	PKG
468	4	S	760	GH	Heating Boiler	S750 MUA	Div.15	-	LM4.03	ILD-19	SM4.02	PKG
469	4	S	765	GH	Heating Boiler	S750 MUA	Div.15	-	LM4.03	ILD-19	SM4.02	PKG
470	4	S	770	GP	Heating Pump	S750 MUA	Div.15	-	LM4.03	ILD-20	SM4.02	PKG
471	4	S	775	GP	Heating Pump	S750 MUA	Div.15	-	LM4.03	ILD-20	SM4.02	PKG
472	4	T	600	TT-1	Duct Averaging Temperature Transmitter	T600 MUA Return Air	17701-A	I112	LM4.04	ILD-17	TM2.02	CON
473	4	T	600	TT-2	Duct Averaging Temperature Transmitter	T600 MUA Mixed Air	17701-A	I112	LM4.04	ILD-17	TM2.02	CON
474	4	T	600	TT-3	Duct Averaging Temperature Transmitter	T600 MUA Exhaust Air	17701-A	I112	LM4.04	ILD-17	TM2.02	CON
475	4	T	600	HS-1	Lock Off Stop (LOS) Pushbutton	T600-MUA Supply Fan	17216	-	LM4.04	ILD-14	TM2.02	CON
476	4	T	600	HS-2	Computer-Off-Hand Selector Switch	T600-MUA Supply Fan	17216	-	LM4.04	ILD-14	TM2.02	CON
477	4	T	600	HS-3	Lock Off Stop (LOS) Pushbutton	T600-MUA Exhaust Fan	17216	-	LM4.04	ILD-14	TM2.02	CON
478	4	T	600	HS-4	Computer-Off-Hand Selector Switch	T600-MUA Exhaust Fan	17216	-	LM4.04	ILD-14	TM2.02	CON
479	4	T	600	PI-1	Pressure Gauge	T600-MUA Glycol Supply	Div.15	-	LM4.04	-	TM2.02	PKG
480	4	T	600	PI-2	Pressure Gauge	T600-MUA Glycol Return	Div.15	-	LM4.04	-	TM2.02	PKG

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

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME	DESCRIPTION				REFERENCES				
				INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE		
481	4	T	600	TI-1	Temperature Gauge	T600-MUA Glycol Supply	Div.15	-	LM4.04	-	TM2.02	PKG
482	4	T	600	TI-2	Temperature Gauge	T600-MUA Glycol Return	Div.15	-	LM4.04	-	TM2.02	PKG
483	4	T	600	MD-1	Motorized Damper Actuator	T600-MUA Outside Air	Div.15	-	LM4.04	ILD-18	TM2.02	PKG
484	4	T	600	MD-2	Motorized Damper Actuator	T600-MUA Main Exhaust Air	Div.15	-	LM4.04	ILD-18	TM2.02	PKG
485	4	T	602	MD	Motorized Damper Actuator	T600-MUA Stack Exhaust Air	Div.15	-	LM4.04	ILD-18	TM2.02	PKG
486	4	T	603	MD	Motorized Damper Actuator	T600-MUA Outside Exhaust Air	Div.15	-	LM4.04	ILD-18	TM2.02	PKG
487	4	T	602	TT	Duct Averaging Temperature Transmitter	T600 MUA Outside Air	17701-A	I112	LM4.04	ILD-17	TM2.02	CON
488	4	T	600	PDIT-1	Differential Pressure Transmitter	T600 MUA Air To Air Heat Exchanger	17701-A	I114	LM4.04	ILD-08	TM2.02	CON
489	4	T	600	PDIT-2	Differential Pressure Transmitter	T600 MUA Outside Air Filter	17701-A	I114	LM4.04	ILD-08	TM2.02	CON
490	4	T	600	PDIT-3	Differential Pressure Transmitter	T600 MUA Supply Air Filter	17701-A	I114	LM4.04	ILD-08	TM2.02	CON
491	4	T	604	TIT	Room Air Temperature Transmitter	DAF Thickener Room Temperature	17701-A	I111	LM4.04	ILD-17	TM2.02	CON
492	4	T	605	TT-1	Duct Averaging Temperature Transmitter	T605 MUA Return Air	17701-A	I112	LM4.05	ILD-17	TM2.02	CON
493	4	T	605	TT-2	Duct Averaging Temperature Transmitter	T605 MUA Mixed Air	17701-A	I112	LM4.05	ILD-17	TM2.02	CON
494	4	T	605	TT-3	Duct Averaging Temperature Transmitter	T605 MUA Exhaust Air	17701-A	I112	LM4.05	ILD-17	TM2.02	CON
495	4	T	605	HS-1	Lock Off Stop (LOS) Pushbutton	T605-MUA Supply Fan	17216	-	LM4.05	ILD-14	TM2.02	CON
496	4	T	605	HS-2	Computer-Off-Hand Selector Switch	T605-MUA Supply Fan	17216	-	LM4.05	ILD-14	TM2.02	CON
497	4	T	605	HS-3	Lock Off Stop (LOS) Pushbutton	T605-MUA Exhaust Fan	17216	-	LM4.05	ILD-14	TM2.02	CON
498	4	T	605	HS-4	Computer-Off-Hand Selector Switch	T605-MUA Exhaust Fan	17216	-	LM4.05	ILD-14	TM2.02	CON
499	4	T	605	PI-1	Pressure Gauge	T605-MUA Glycol Supply	Div.15	-	LM4.05	-	TM2.02	PKG
500	4	T	605	PI-2	Pressure Gauge	T605-MUA Glycol Return	Div.15	-	LM4.05	-	TM2.02	PKG
501	4	T	605	TI-1	Temperature Gauge	T605-MUA Glycol Supply	Div.15	-	LM4.05	-	TM2.02	PKG
502	4	T	605	TI-2	Temperature Gauge	T605-MUA Glycol Return	Div.15	-	LM4.05	-	TM2.02	PKG
503	4	T	605	MD	Motorized Damper Actuator	T605-MUA Outside Air	Div.15	-	LM4.05	ILD-18	TM2.02	PKG
504	4	T	607	MD	Motorized Damper Actuator	T605-MUA Exhaust Air	Div.15	-	LM4.05	ILD-18	TM2.02	PKG
505	4	T	607	TT	Duct Averaging Temperature Transmitter	T605 MUA Outside Air	17701-A	I112	LM4.05	ILD-17	TM2.02	CON
506	4	T	605	PDIT-1	Differential Pressure Transmitter	T605 MUA Air To Air Heat Exchanger	17701-A	I114	LM4.05	ILD-08	TM2.02	CON
507	4	T	605	PDIT-2	Differential Pressure Transmitter	T605 MUA Outside Air Filter	17701-A	I114	LM4.05	ILD-08	TM2.02	CON
508	4	T	605	PDIT-3	Differential Pressure Transmitter	T605 MUA Supply Air Filter	17701-A	I114	LM4.05	ILD-08	TM2.02	CON
509	4	T	609	TIT	Room Air Temperature Transmitter	DAF Building Process Room Temperature	17701-A	I111	LM4.05	ILD-17	TM2.02	CON
510	4	T	650	TT	Water Temperature Transmitter	Heating Boiler T650/T655 Return Temperature	17701-A	I113	LM4.06	ILD-17	TM3.01	CON
511	4	T	665	TT	Water Temperature Transmitter	Heating Boiler T650/T655 Supply Temperature	17701-A	I113	LM4.06	ILD-17	TM3.01	CON
512	4	T	665	PI	Pressure Gauge	Heating Pump T665-GP	Div.15	-	LM4.06	-	TM3.01	PKG
513	4	T	670	PI	Pressure Gauge	Heating Pump T670-GP	Div.15	-	LM4.06	-	TM3.01	PKG
514	4	T	675	PI	Pressure Gauge	Expansion Tank T675-ET	Div.15	-	LM4.06	-	TM3.01	PKG
515	4	T	650	GH	Heating Boiler	T605 MUA	Div.15	-	LM4.06	ILD-19	TM3.01	PKG
516	4	T	655	GH	Heating Boiler	T605 MUA	Div.15	-	LM4.06	ILD-19	TM3.01	PKG
517	4	T	665	GP	Heating Pump	T605 MUA	Div.15	-	LM4.06	ILD-20	TM3.01	PKG
518	4	T	670	GP	Heating Pump	T605 MUA	Div.15	-	LM4.06	ILD-20	TM3.01	PKG
519	4	S	778	TT	Duct Averaging Temperature Transmitter	Air Purification Unit S780-AHU	17701-A	I112	LM4.07	ILD-17	SM1.01	CON
520	4	S	779	TT	Duct Averaging Temperature Transmitter	Air Purification Unit S780-AHU	17701-A	I112	LM4.07	ILD-17	SM1.01	CON
521	4	S	778	MD	Motorized Damper Actuator	S780-MUA Outside Air	Div.15	-	LM4.07	ILD-21	SM1.01	PKG
522	4	S	779	MD	Motorized Damper Actuator	S780-MUA Exhaust Air	Div.15	-	LM4.07	ILD-21	SM1.01	PKG
523	4	S	780	TT	Room Air Temperature Transmitter	Bioreactor Electrical Room	17701-A	I111	LM4.07	ILD-17	SM1.01	CON
524	4	S	780	PDSH-1	Differential Pressure Switch	Air Purification Unit S780-AHU Prefilter	17701-A	I115	LM4.07	ILD-05	SM1.01	CON
525	4	S	780	PDSH-2	Differential Pressure Switch	Air Purification Unit S780-AHU Media Filter #1	17701-A	I115	LM4.07	ILD-05	SM1.01	CON
526	4	S	780	PDSH-3	Differential Pressure Switch	Air Purification Unit S780-AHU Media Filter #2	17701-A	I115	LM4.07	ILD-05	SM1.01	CON
527	4	S	780	HS-1	Lock Off Stop (LOS) Pushbutton	S780-AHU Supply Fan	17216	-	LM4.07	ILD-12	SM1.01	CON
528	4	S	780	HS-2	Computer-Off-Hand Selector Switch	S780-AHU Supply Fan	17216	-	LM4.07	ILD-12	SM1.01	CON

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.		TAG NAME		DESCRIPTION			REFERENCES				
					INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE	
529	4	S	780	MM-1	Running Pilot Light	S780-AHU Supply Fan	17216	-	-	ILD-12	SM1.01	CON
530	4	S	780	MO-1	Stopped Pilot Light	S780-AHU Supply Fan	17216	-	-	ILD-12	SM1.01	CON
531	4	S	780	SCR	Heating Coil SCR Drive	S780-AHU	Div.15	-	LM4.07	ILD-23	SM1.01	PKG
532	4	S	781	TSL	Heating Coil Freeze Stat	S780-AHU Supply Air Duct	17701-A	I116	LM4.07	ILD-05	SM1.01	CON
533	4	S	790	CU	Condensing Unit	S780-AHU	Div.15	-	LM4.07	ILD-22	SM1.01	PKG
534	4	S	780	MD	Motorized Damper Actuator	S780-Mechanical Room Outside Air	Div.15	-	LM4.07	ILD-21	SM1.01	PKG
535	4	S	780	SF	Supply Fan	S780-Mechanical Room	Div.15	-	LM4.07	ILD-12	SM1.01	PKG
536	4	S	780	FSL	Low flow Switch	S780-Mechanical Room Supply Air	Div.15	-	LM4.07	ILD-05	SM1.01	PKG
537	4	T	608	TT	Duct Averaging Temperature Transmitter	Air Purification Unit T610-AHU	17701-A	I112	LM4.08	ILD-17	TM2.02	CON
538	4	T	609	TT	Duct Averaging Temperature Transmitter	Air Purification Unit T610-AHU	17701-A	I112	LM4.08	ILD-17	TM2.02	CON
539	4	T	608	MD	Motorized Damper Actuator	T610-AHU Outside Air	Div.15	-	LM4.08	ILD-21	TM2.02	PKG
540	4	T	609	MD	Motorized Damper Actuator	T610-AHU Exhaust Air	Div.15	-	LM4.08	ILD-21	TM2.02	PKG
541	4	T	610	TT	Room Air Temperature Transmitter	Bioreactor Electrical Room	17701-A	I111	LM4.08	ILD-17	TM2.02	CON
542	4	T	610	PDSH-1	Differential Pressure Switch	Air Purification Unit T610-AHU Prefilter	17701-A	I115	LM4.08	ILD-05	TM2.02	CON
543	4	T	610	PDSH-2	Differential Pressure Switch	Air Purification Unit T610-AHU Media Filter #1	17701-A	I115	LM4.08	ILD-05	TM2.02	CON
544	4	T	610	PDSH-3	Differential Pressure Switch	Air Purification Unit T610-AHU Media Filter #2	17701-A	I115	LM4.08	ILD-05	TM2.02	CON
545	4	T	610	HS-1	Lock Off Stop (LOS) Pushbutton	T610-AHU Supply Fan	17216	-	LM4.08	ILD-12	TM2.02	CON
546	4	T	610	HS-2	Computer-Off-Hand Selector Switch	T610-AHU Supply Fan	17216	-	LM4.08	ILD-12	TM2.02	CON
547	4	T	610	MM-1	Running Pilot Light	T610-AHU Supply Fan	17216	-	-	ILD-12	TM2.02	CON
548	4	T	610	MO-1	Stopped Pilot Light	T610-AHU Supply Fan	17216	-	-	ILD-12	TM2.02	CON
549	4	T	610	SCR	Heating Coil SCR Drive	T610-AHU	Div.15	-	LM4.08	ILD-23	TM2.02	PKG
550	4	T	611	TSL	Heating Coil Freeze Stat	T610-AHU Supply Air Duct	17701-A	I116	LM4.08	ILD-05	TM2.02	CON
551	4	T	630	CU	Condensing Unit	T610-AHU	Div.15	-	LM4.08	ILD-22	TM2.02	PKG
552	4	H	648	TT	Duct Averaging Temperature Transmitter	Air Purification Unit T640-AHU	17701-A	I112	LM4.08	ILD-17	HM2.02	CON
553	4	H	649	TT	Duct Averaging Temperature Transmitter	Air Purification Unit T640-AHU	17701-A	I112	LM4.08	ILD-17	HM2.02	CON
554	4	H	648	MD	Motorized Damper Actuator	H640-AHU Outside Air	Div.15	-	LM4.08	ILD-21	HM2.02	PKG
555	4	H	649	MD	Motorized Damper Actuator	H640-AHU Exhaust Air	Div.15	-	LM4.08	ILD-21	HM2.02	PKG
556	4	H	640	TT	Room Air Temperature Transmitter	Headworks Control Room	17701-A	I111	LM4.08	ILD-17	HM2.02	CON
557	4	H	640	PDSH-1	Differential Pressure Switch	Air Purification Unit H640-AHU Prefilter	17701-A	I115	LM4.08	ILD-05	HM2.02	CON
558	4	H	640	PDSH-2	Differential Pressure Switch	Air Purification Unit H640-AHU Media Filter #1	17701-A	I115	LM4.08	ILD-05	HM2.02	CON
559	4	H	640	PDSH-3	Differential Pressure Switch	Air Purification Unit H640-AHU Media Filter #2	17701-A	I115	LM4.08	ILD-05	HM2.02	CON
560	4	H	640	HS-1	Lock Off Stop (LOS) Pushbutton	H640-AHU Supply Fan	17216	-	LM4.08	ILD-12	HM2.02	CON
561	4	H	640	HS-2	Computer-Off-Hand Selector Switch	H640-AHU Supply Fan	17216	-	LM4.08	ILD-12	HM2.02	CON
562	4	H	640	MM-1	Running Pilot Light	H640-AHU Supply Fan	17216	-	-	ILD-12	HM2.02	CON
563	4	H	640	MO-1	Stopped Pilot Light	H640-AHU Supply Fan	17216	-	-	ILD-12	HM2.02	CON
564	4	H	640	SCR	Heating Coil SCR Drive	H640-AHU	Div.15	-	LM4.08	ILD-23	HM2.02	PKG
565	4	H	642	TSL	Heating Coil Freeze Stat	H640-AHU Supply Air Duct	17701-A	I116	LM4.08	ILD-05	HM2.02	CON
566	4	H	641	CU	Condensing Unit	H640-AHU	Div.15	-	LM4.08	ILD-22	HM2.02	PKG
567	4	T	680	HS-1	Lock Off Stop (LOS) Pushbutton	Water Pump T680-DWP	17216	-	LM4.09	ILD-12	TM1.02	CON
568	4	T	680	HS-2	Computer-Off-Hand Selector Switch	Water Pump T680-DWP	17216	-	LM4.09	ILD-12	TM1.02	CON
569	4	T	680	MM-1	Running Pilot Light	Water Pump T680-DWP	17216	-	-	ILD-12	TM1.02	CON
570	4	T	680	MO-1	Stopped Pilot Light	Water Pump T680-DWP	17216	-	-	ILD-12	TM1.02	CON
571	4	T	680	PI	Pressure Gauge	Water Pump T680-DWP	Div.15	-	LM4.09	-	TM1.02	PKG
572	4	T	685	HS-1	Lock Off Stop (LOS) Pushbutton	Water Pump T685-DWP	17216	-	LM4.09	ILD-12	TM1.02	CON
573	4	T	685	HS-2	Computer-Off-Hand Selector Switch	Water Pump T685-DWP	17216	-	LM4.09	ILD-12	TM1.02	CON
574	4	T	685	MM-1	Running Pilot Light	Water Pump T685-DWP	17216	-	-	ILD-12	TM1.02	CON
575	4	T	685	MO-1	Stopped Pilot Light	Water Pump T685-DWP	17216	-	-	ILD-12	TM1.02	CON
576	4	T	685	PI	Pressure Gauge	Water Pump T685-DWP	Div.15	-	LM4.09	-	TM1.02	PKG

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

INSTRUMENT INDEX (R4)

RECORD NO.	REV. NO.	TAG NAME	DESCRIPTION				REFERENCES					
			INSTRUMENT TYPE	SERVICE	SPEC. SHEET or SECTION	P&ID DRAWING	WIRING REF.	LOCATION DWG.	SUPPLY CODE			
577	4	T	690	PT	Pressure Transmitter	Pressure Tank T690-ET	17701-A	I117	LM4.09	ILD-08	TM1.02	CON