

SCADA INPUT/OUTPUT LIST					
No.	I/O TYPE	SOURCE TAG	I/O DESCRIPTION	INTERFACING CP	PID
1	AI	SI-1001	CW-P01 SPEED FEEDBACK	CW-VFD01	E800
2	AO	SC-1001	CW-P01 SPEED COMMAND	CW-VFD01	E800
3	DO	YC-1001	CW-P01 RUN COMMAND	CW-CP01	E800
4	DI	HS-1001	CW-P01 IN REMOTE	CW-VFD01	E800
5	DI	XA-1001	CW-P01 FAIL	CW-VFD01	E800
6	AI	SI-1002	CW-P02 SPEED FEEDBACK	CW-VFD02	E800
7	AO	SC-1002	CW-P02 SPEED COMMAND	CW-VFD02	E800
8	DO	YC-1002	CW-P02 RUN COMMAND	CW-CP01	E800
9	DI	HS-1002	CW-P02 IN REMOTE	CW-VFD02	E800
10	DI	XA-1002	CW-P02 FAIL	CW-VFD02	E800
11	AI	SI-1003	CW-P03 SPEED FEEDBACK	CW-VFD03	E800
12	AO	SC-1003	CW-P03 SPEED COMMAND	CW-VFD03	E800
13	DO	YC-1003	CW-P03 RUN COMMAND	CW-CP01	E800
14	DI	HS-1003	CW-P03 IN REMOTE	CW-VFD03	E800
15	DI	XA-1003	CW-P03 FAIL	CW-VFD03	E800
16	AI	SI-1004	CW-P04 SPEED FEEDBACK	CW-VFD04	E800
17	AO	SC-1004	CW-P04 SPEED COMMAND	CW-VFD04	E800
18	DO	YC-1004	CW-P04 RUN COMMAND	CW-CP01	E800
19	DI	HS-1004	CW-P04 IN REMOTE	CW-VFD04	E800
20	DI	XA-1004	CW-P04 FAIL	CW-VFD04	E800
21	DI	CW-CT01	CW-P01 MOTOR RUNNING	CW-CP01	E800
22	DI	CW-CT02	CW-P02 MOTOR RUNNING	CW-CP01	E800
23	DI	CW-CT03	CW-P03 MOTOR RUNNING	CW-CP01	E800
24	DI	CW-CT04	CW-P04 MOTOR RUNNING	CW-CP01	E800
25	DI	CW-TS01	CW-P01 MOTOR TEMPERATURE HIGH	CW-CP01	E800
26	DI	CW-TS02	CW-P02 MOTOR TEMPERATURE HIGH	CW-CP01	E800
27	DI	CW-TS03	CW-P03 MOTOR TEMPERATURE HIGH	CW-CP01	E800
28	DI	CW-TS04	CW-P04 MOTOR TEMPERATURE HIGH	CW-CP01	E800
29	DI	CW-FM01	CW-P01 SEAL WATER FAIL	CW-CP01	E800
30	DI	CW-FM02	CW-P02 SEAL WATER FAIL	CW-CP01	E800
31	DI	CW-FM03	CW-P03 SEAL WATER FAIL	CW-CP01	E800
32	DI	CW-FM04	CW-P04 SEAL WATER FAIL	CW-CP01	E800
33	DO	CW-SV01	CW-P01 SEAL WATER COMMAND	CW-CP01	E800
34	DO	CW-SV02	CW-P02 SEAL WATER COMMAND	CW-CP01	E800
35	DO	CW-SV03	CW-P03 SEAL WATER COMMAND	CW-CP01	E800
36	DO	CW-SV04	CW-P04 SEAL WATER COMMAND	CW-CP01	E800
37	DI	YI-1001	CW-FM01 SEAL WATER DELAY	CW-CP01	E800
38	DI	YI-1002	CW-FM02 SEAL WATER DELAY	CW-CP01	E800
39	DI	YI-1003	CW-FM03 SEAL WATER DELAY	CW-CP01	E800
40	DI	YI-1004	CW-FM04 SEAL WATER DELAY	CW-CP01	E800
41	AI	LIT-1001	COLLECTOR WELL WATER LEVEL	CW-CP01	E800
42	AI	LIT-1002	COLLECTOR WELL WATER LEVEL	CW-CP01	E800
43	AI	CW-FM05	COLLECTOR WELL DISCHARGE FLOW		E800
44	AI	CW-FM06	COLLECTOR WELL DISCHARGE FLOW		E800
45	AI	PIT-1001	COLLECTOR WELL HEADER DISCHARGE PRESSURE	CW-CP01	E800
46	AI	PIT-1002	COLLECTOR WELL HEADER DISCHARGE PRESSURE	CW-CP01	E800
47	DO	YC-1005	SEAL WATER BOOSTER PUMP RUN COMMAND	CW-CP06	E800
48	DI	CW-LS01	SEAL WATER BREAK TANK LEVEL HIGH	CW-CP06	E800
49	DI	CW-LS02	SEAL WATER BREAK TANK LEVEL LOW	CW-CP06	E800
50	DI	CW-LS03	SEAL WATER BREAK TANK LEVEL LOW LOW	CW-CP06	E800
51	DI	YI-1005	CW-P05 SEAL WATER DELAY	CW-CP06	E800
52	DI	YI-1006	CW-P06 SEAL WATER DELAY	CW-CP06	E800
53	AI	CW-PG07	SEAL WATER DISCHARGE PRESSURE	CW-CP06	E800
54	AI	CW-US01	SEAL WATER BREAK TANK LEVEL	CW-CP06	E800
55	DI	XA-1005	INTRUSION ALARM	CW-CP02	
56	DI	IA-1001	UTILITY POWER NOT AVAILABLE	CW-ATS01	
57	DI	ZI-1001	ATS SWITCH IN NORMAL POSITION	CW-ATS01	
58	DI	ZI-1002	ATS SWITCH IN EMERGENCY POSITION	CW-ATS01	
59	DI	YI-1007	GENERATOR RUNNING	CW-GEN01	
60	DI	XA-1006	COMMON GENERATOR ALARM	CW-GEN01	
61	DI		GENERATOR ROOM COMBUSTIBLE GAS ALARM	CW-CP05	
62	DI		GENERATOR ROOM CO2 ALARM	CW-CP05	
63	DO	YC-3001	VW-P02 RUN COMMAND	CW-MCC01	
64	DI	VW-CT01	VW-P02 MOTOR RUNNING	CW-MCC01	
65	DI	HS-3001	VW-P02 IN AUTO	CW-MCC01	
66	DO	YC-3002	VW-P03 RUN COMMAND	CW-MCC01	
67	DI	VW-CT02	VW-P03 MOTOR RUNNING	CW-MCC01	
68	DI	HS-3002	VW-P03 IN AUTO	CW-MCC01	
69	DO	YC-3003	VW-P04 RUN COMMAND	CW-MCC01	
70	DI	VW-CT03	VW-P04 MOTOR RUNNING	CW-MCC01	
71	DI	HS-3003	VW-P04 IN AUTO	CW-MCC01	
72	DO	YC-3004	VW-P05 RUN COMMAND	CW-MCC01	
73	DI	VW-CT04	VW-P05 MOTOR RUNNING	CW-MCC01	
74	DI	HS-3004	VW-P05 IN AUTO	CW-MCC01	
75	DO	YC-3005	VW-P06 RUN COMMAND	CW-MCC01	
76	DI	VW-CT05	VW-P06 MOTOR RUNNING	CW-MCC01	
77	DI	HS-3005	VW-P06 IN AUTO	CW-MCC01	
78	DO	YC-3006	VW-P06A RUN COMMAND	CW-MCC01	
79	DI	VW-CT06	VW-P06A MOTOR RUNNING	CW-MCC01	
80	DI	HS-3006	VW-P06A IN AUTO	CW-MCC01	

SCADA INPUT/OUTPUT LIST					
No.	I/O TYPE	SOURCE TAG	I/O DESCRIPTION	INTERFACING CP	PID
81	AI	SI-2001	SW-P01 SPEED FEEDBACK	SW-VFD01	E801
82	AO	SC-2001	SW-P01 SPEED COMMAND	SW-VFD01	E801
83	DO	YC-2001	SW-P01 RUN COMMAND	SW-CP01	E801
84	DI	HS-2001	SW-P01 IN REMOTE	SW-VFD01	E801
85	DI	XA-2001	SW-P01 FAIL	SW-VFD01	E801
86	AI	SI-2002	SW-P02 SPEED FEEDBACK	SW-VFD02	E801
87	AO	SC-2002	SW-P02 SPEED COMMAND	SW-VFD02	E801
88	DO	YC-2002	SW-P02 RUN COMMAND	SW-CP01	E801
89	DI	HS-2002	SW-P02 IN REMOTE	SW-VFD02	E801
90	DI	XA-2002	SW-P02 FAIL	SW-VFD02	E801
91	AI	SI-2003	SW-P03 SPEED FEEDBACK	SW-VFD03	E801
92	AO	SC-2003	SW-P03 SPEED COMMAND	SW-VFD03	E801
93	DO	YC-2003	SW-P03 RUN COMMAND	SW-CP01	E801
94	DI	HS-2003	SW-P03 IN REMOTE	SW-VFD03	E801
95	DI	XA-2003	SW-P03 FAIL	SW-VFD03	E801
96	DI	SW-CT01	SW-P01 MOTOR RUNNING	SW-CP01	E801
97	DI	SW-CT02	SW-P02 MOTOR RUNNING	SW-CP01	E801
98	DI	SW-CT03	SW-P03 MOTOR RUNNING	SW-CP01	E801
99	DI	SW-CT04	SW-P04 MOTOR RUNNING	SW-CP01	E801
100	DI	SW-TS01	SW-P01 MOTOR TEMPERATURE HIGH	SW-CP01	E801
101	DI	SW-TS02	SW-P02 MOTOR TEMPERATURE HIGH	SW-CP01	E801
102	DI	SW-TS03	SW-P03 MOTOR TEMPERATURE HIGH	SW-CP01	E801
103	DI	SW-TS04	SW-P04 MOTOR TEMPERATURE HIGH	SW-CP01	E801
104	DI	SW-FM01	SW-P01 SEAL WATER FAIL	SW-CP01	E801
105	DI	SW-FM02	SW-P02 SEAL WATER FAIL	SW-CP01	E801
106	DI	SW-FM03	SW-P03 SEAL WATER FAIL	SW-CP01	E801
107	DO	SW-SV01	SW-P01 SEAL WATER COMMAND	SW-CP01	E801
108	DO	SW-SV02	SW-P02 SEAL WATER COMMAND	SW-CP01	E801
109	DO	SW-SV03	SW-P03 SEAL WATER COMMAND	SW-CP01	E801
110	DI	SW-XS01	SW-P04 SEAL LEAK	SW-CP01	E801
111	DI	HS-2004	SW-P04 IN AUTO	SW-CP01	E801
112	DI	YI-2001	SW-FM01 SEAL WATER DELAY	SW-CP01	E801
113	DI	YI-2002	SW-FM02 SEAL WATER DELAY	SW-CP01	E801
114	DI	YI-2003	SW-FM03 SEAL WATER DELAY	SW-CP01	E801
115	DI	SW-LS01	SUMP LEVEL SWITCH	SW-CP01	E801
116	DI	SW-LS02	SUMP LEVEL SWITCH	SW-CP01	E801
117	DI	SW-LS03	SUMP LEVEL SWITCH	SW-CP01	E801
118	DI	SW-LS04	SUMP LEVEL SWITCH	SW-CP01	E801
119	DI	SW-LS05	SUMP LEVEL SWITCH	SW-CP01	E801
120	DI	SW-LS06	SUMP LEVEL SWITCH	SW-CP01	E801
121	DI	SW-LS07	SUMP LEVEL SWITCH	SW-CP01	E801
122	DI	SW-LS08	SUMP LEVEL SWITCH	SW-CP01	E801
123	DI		COMBUSTIBLE GAS ALARM	SW-CP03	
124	DI		COMBUSTIBLE GAS ALARM FAULT	SW-CP03	
125	DI		COMBUSTIBLE GAS ALARM FAULT	CW-CP05	

AUTOMATIC DIALER PANEL (CW-AD01) INPUT LIST					
No.	I/O TYPE	SOURCE TAG	I/O DESCRIPTION	INTERFACING CP	PID
1	DI	XA-1005	INTRUSION ALARM	CW-CP02	
2	DI	SW-GD01 & 02	EXISTING PUMP STATION GAS MONITORING ALARM	SW-CP03	
3	DI	CW-LS02	SEAL WATER TANK LOW LEVEL	CW-CP06	E800
4	DI	CS-LS01	SEAL WATER TANK HIGH LEVEL	CW-CP06	E800
5	DI	IA-1001	UTILITY POWER NOT AVAILABLE	CW-ATS01	
6	DI	YI-1007	GENERATOR RUNNING	CW-GEN01	
7	DI	XA-1006	COMMON GENERATOR ALARM	CW-GEN01	
8	DI	XA-1001	CW-P01 FAIL	CW-VFD01	E800
9	DI	XA-1002	CW-P02 FAIL	CW-VFD02	E800
10	DI	XA-1003	CW-P03 FAIL	CW-VFD03	E800
11	DI	XA-1004	CW-P04 FAIL	CW-VFD04	E800
12	DI	XA-2001	SW-P01 FAIL	SW-VFD01	E801
13	DI	XA-2002	SW-P02 FAIL	SW-VFD02	E801
14	DI	XA-2003	SW-P03 FAIL	SW-VFD03	E801
15	DI	SW-LS01	STORMWATER FLOAT SWITCH: LOW WATER ALARM	SW-CP01	E801
16	DI	SW-LS08	STORMWATER FLOAT SWITCH: HIGH WATER ALARM	SW-CP01	E801

CONTROL PANEL SCHEDULE			
TAG	CONTROL PANEL DESCRIPTION	SCOPE	NOTES
CW-CP01	COLLECTOR WELL PUMP CONTROL PANEL	CONTRACTOR	1
CW-CP02	INTRUSION ALARM CONTROL PANEL	CONTRACTOR	1
CW-CP03	GENERATOR ROOM HEATING/VENTILATION CONTROL PANEL	CONTRACTOR	1
CW-CP04	COLLECTOR WELL PUMP ROOM VENTILATION CONTROL PANEL	CONTRACTOR	1
CW-CP05	GENERATOR ROOM GAS MONITORING CONTROL PANEL	VENDOR	1
CW-CP06	SEAL WATER BOOSTER PUMP CONTROL PANEL	VENDOR	2
CW-GEN01	GENERATOR CONTROL PANEL	VENDOR	1
SW-CP01	STORMWATER PUMP CONTROL PANEL	CONTRACTOR	1
SW-CP02	STORMWATER PUMP STATION CONTROL PANEL	CONTRACTOR	1
SW-CP03	STORMWATER PUMP STATION GAS MONITORING CONTROL PANEL	VENDOR	1
CW-SP01	SCADA CONTROL PANEL	CONTRACTOR	1
CW-AD01	AUTOMATIC TELEPHONE DIALER CONTROL PANEL	VENDOR	1

- NOTES:  
1. REQUIRES EXTERNAL POWER SUPPLY: 120 VAC, 1 PH  
2. REQUIRES EXTERNAL POWER SUPPLY: 480 VAC, 3 PH

FILE NAME = G:\111\1110023\Work - 3 MO Ave Ph2\ACADD Sheets\DB76599-ahc-kl-4 Elec.dgn



USER NAME = seb	DESIGNED - JUN	REVISED - JUN - 9/24/14
PLOT SCALE = 40.0000' / in.	CHECKED - JUN	REVISED -
PLOT DATE = 9/25/2014	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: AS NOTED		SHEET 1 OF 1 SHEETS		STA. TO STA.	
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-4T-1	ST. CLAIR	185	175
CONTRACT NO. 76C99				
ILLINOIS FED. AID PROJECT				

**E901**