

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
190	0102.1 S	COOK	107	101
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SCADA PANEL DIGITAL INPUTS
TERMINAL BLOCK TBDI

TERM *	WIRE *	ORIGINATIION	DESCRIPTION OF INPUTS
S0	S0	CP-DO-398	ALARM ACKNOWLEDGE
S0C	S0C	CP-DO-398A	ALARM ACKNOWLEDGE
S1	S1	M1-0	MAIN PUMP 1 BREAKER OPEN
S1C	S1C	M1-0A	MAIN PUMP 1 BREAKER OPEN
S2	S2	M1-1D	MAIN PUMP 1 RUNNING
S2C	S2C	M1-1E	MAIN PUMP 1 RUNNING
S3	S3	M1-15A	MAIN PUMP 1 HOA IN AUTO
S3C	S3C	M1-15	MAIN PUMP 1 HOA IN AUTO
S4	S4	M1-16	MAIN PUMP 1 HOA IN OFF
S4C	S4C	M1-15	MAIN PUMP 1 HOA IN OFF
S5	S5	M1-22A	MAIN PUMP 1 FAIL
S5C	S5C	M1-22B	MAIN PUMP 1 FAIL
S6	S6	M1-57	MAIN PUMP 1 MOTOR WDG HI-TEMP
S6C	S6C	M1-57A	MAIN PUMP 1 MOTOR WDG HI-TEMP
S7	S7	M1-58	MAIN PUMP 1 MOTOR HI-MOISTURE
S7C	S7C	M1-58A	MAIN PUMP 1 MOTOR HI-MOISTURE
S8	S8	M1-59	MAIN PUMP 1 BEARING HI-TEMP
S8C	S8C	M1-59A	MAIN PUMP 1 BEARING HI-TEMP
S9	S9	M1-60	MAIN PUMP 1 SEAL LEAK
S9C	S9C	M1-60A	MAIN PUMP 1 SEAL LEAK
S10	S10	M2-0	MAIN PUMP 2 BREAKER OPEN
S10C	S10C	M2-0A	MAIN PUMP 2 BREAKER OPEN
S11	S11	M2-1D	MAIN PUMP 2 RUNNING
S11C	S11C	M2-1E	MAIN PUMP 2 RUNNING
S12	S12	M2-15A	MAIN PUMP 2 HOA IN AUTO
S12C	S12C	M2-15	MAIN PUMP 2 HOA IN AUTO
S13	S13	M2-16	MAIN PUMP 2 HOA IN OFF
S13C	S13C	M2-15	MAIN PUMP 2 HOA IN OFF
S14	S14	M2-22A	MAIN PUMP 2 FAIL
S14C	S14C	M2-22B	MAIN PUMP 2 FAIL
S15	S15	M2-57	MAIN PUMP 2 MOTOR WDG HI-TEMP
S15C	S15C	M2-57A	MAIN PUMP 2 MOTOR WDG HI-TEMP
S16	S16	M2-58	MAIN PUMP 2 MOTOR HI-MOISTURE
S16C	S16C	M2-58A	MAIN PUMP 2 MOTOR HI-MOISTURE
S17	S17	M2-59	MAIN PUMP 2 BEARING HI-TEMP
S17C	S17C	M2-59A	MAIN PUMP 2 BEARING HI-TEMP
S18	S18	M2-60	MAIN PUMP 2 SEAL LEAK
S18C	S18C	M2-60A	MAIN PUMP 2 SEAL LEAK
S19	S19	M3-0	MAIN PUMP 3 BREAKER OPEN
S19C	S19C	M3-0A	MAIN PUMP 3 BREAKER OPEN
S20	S20	M3-1D	MAIN PUMP 3 RUNNING
S20C	S20C	M3-1E	MAIN PUMP 3 RUNNING
S21	S21	M3-15A	MAIN PUMP 3 HOA IN AUTO
S21C	S21C	M3-15	MAIN PUMP 3 HOA IN AUTO
S22	S22	M3-16	MAIN PUMP 3 HOA IN OFF
S22C	S22C	M3-15	MAIN PUMP 3 HOA IN OFF
S23	S23	M3-22A	MAIN PUMP 3 FAIL
S23C	S23C	M3-22B	MAIN PUMP 3 FAIL
S24	S24	M3-57	MAIN PUMP 3 MOTOR WDG HI-TEMP
S24C	S24C	M3-57A	MAIN PUMP 3 MOTOR WDG HI-TEMP
S25	S25	M3-58	MAIN PUMP 3 MOTOR HI-MOISTURE
S25C	S25C	M3-58A	MAIN PUMP 3 MOTOR HI-MOISTURE
S26	S26	M3-59	MAIN PUMP 3 BEARING HI-TEMP
S26C	S26C	M3-59A	MAIN PUMP 3 BEARING HI-TEMP
S27	S27	M3-60	MAIN PUMP 3 SEAL LEAK
S27C	S27C	M3-60A	MAIN PUMP 3 SEAL LEAK
S28	S28	M4-0	MAIN PUMP 4 BREAKER OPEN
S28C	S28C	M4-0A	MAIN PUMP 4 BREAKER OPEN
S29	S29	M4-1D	MAIN PUMP 4 RUNNING
S29C	S29C	M4-1E	MAIN PUMP 4 RUNNING
S30	S30	M4-35A	MAIN PUMP 4 HOA IN AUTO
S30C	S30C	M4-35	MAIN PUMP 4 HOA IN AUTO
S31	S31	M4-36A	MAIN PUMP 4 HOA IN OFF
S31C	S31C	M4-35	MAIN PUMP 4 HOA IN OFF
S32	S32	M4-22A	MAIN PUMP 4 FAIL
S32C	S32C	M4-22B	MAIN PUMP 4 FAIL
S33	S33	M4-57	MAIN PUMP 4 MOTOR WDG HI-TEMP
S33C	S33C	M4-57A	MAIN PUMP 4 MOTOR WDG HI-TEMP
S34	S34	M4-58	MAIN PUMP 4 MOTOR HI-MOISTURE
S34C	S34C	M4-58A	MAIN PUMP 4 MOTOR HI-MOISTURE
S35	S35	M4-59	MAIN PUMP 4 BEARING HI-TEMP
S35C	S35C	M4-59A	MAIN PUMP 4 BEARING HI-TEMP
S36	S36	M4-60	MAIN PUMP 4 SEAL LEAK
S36C	S36C	M4-60A	MAIN PUMP 4 SEAL LEAK
S37	S37	M5-0	MAIN PUMP 5 BREAKER OPEN
S37C	S37C	M5-0A	MAIN PUMP 5 BREAKER OPEN
S38	S38	M5-1E	MAIN PUMP 5 RUNNING
S38C	S38C	M5-1D	MAIN PUMP 5 RUNNING
S39	S39	M5-15A	MAIN PUMP 5 HOA IN AUTO
S39C	S39C	M5-15	MAIN PUMP 5 HOA IN AUTO
S40	S40	M5-16	MAIN PUMP 5 HOA IN OFF
S40C	S40C	M5-15	MAIN PUMP 5 HOA IN OFF
S41	S41	M5-22A	MAIN PUMP 5 FAIL
S41C	S41C	M5-22B	MAIN PUMP 5 FAIL
S42	S42	M5-57	MAIN PUMP 5 MOTOR WDG HI-TEMP
S42C	S42C	M5-57A	MAIN PUMP 5 MOTOR WDG HI-TEMP
S43	S43	M5-58	MAIN PUMP 5 MOTOR HI-MOISTURE
S43C	S43C	M5-58A	MAIN PUMP 5 MOTOR HI-MOISTURE
S44	S44	M5-59	MAIN PUMP 5 BEARING HI-TEMP
S44C	S44C	M5-59A	MAIN PUMP 5 BEARING HI-TEMP
S45	S45	M5-60	MAIN PUMP 5 SEAL LEAK
S45C	S45C	M5-60A	MAIN PUMP 5 SEAL LEAK
S46	S46	M6-0	MAIN PUMP 6 BREAKER OPEN
S46C	S46C	M6-0A	MAIN PUMP 6 BREAKER OPEN
S47	S47	M6-1D	MAIN PUMP 6 RUNNING
S47C	S47C	M6-1E	MAIN PUMP 6 RUNNING

SCADA PANEL DIGITAL INPUTS
TERMINAL BLOCK TBDI

TERM *	WIRE *	ORIGINATIION	DESCRIPTION OF INPUTS
S48	S48	M6-15A	MAIN PUMP 6 HOA IN AUTO
S48C	S48C	M6-15	MAIN PUMP 6 HOA IN AUTO
S49	S49	M6-16	MAIN PUMP 6 HOA IN OFF
S49C	S49C	M6-15	MAIN PUMP 6 HOA IN OFF
S50	S50	M6-22A	MAIN PUMP 6 FAIL
S50C	S50C	M6-22B	MAIN PUMP 6 FAIL
S51	S51	M6-57	MAIN PUMP 6 MOTOR WDG HI-TEMP
S51C	S51C	M6-57A	MAIN PUMP 6 MOTOR WDG HI-TEMP
S52	S52	M6-58	MAIN PUMP 6 MOTOR HI-MOISTURE
S52C	S52C	M6-58A	MAIN PUMP 6 MOTOR HI-MOISTURE
S53	S53	M6-59	MAIN PUMP 6 BEARING HI-TEMP
S53C	S53C	M6-59A	MAIN PUMP 6 BEARING HI-TEMP
S54	S54	M6-60	MAIN PUMP 6 SEAL LEAK
S54C	S54C	M6-60A	MAIN PUMP 6 SEAL LEAK
S55	S55	M7-0	MAIN PUMP 7 BREAKER OPEN
S55C	S55C	M7-0A	MAIN PUMP 7 BREAKER OPEN
S56	S56	M7-1D	MAIN PUMP 7 RUNNING
S56C	S56C	M7-1E	MAIN PUMP 7 RUNNING
S57	S57	M7-15A	MAIN PUMP 7 HOA IN AUTO
S57C	S57C	M7-15	MAIN PUMP 7 HOA IN AUTO
S58	S58	M7-16	MAIN PUMP 7 HOA IN OFF
S58C	S58C	M7-15	MAIN PUMP 7 HOA IN OFF
S59	S59	M7-22A	MAIN PUMP 7 FAIL
S59C	S59C	M7-22B	MAIN PUMP 7 FAIL
S60	S60	M7-50	MAIN PUMP 7 MOTOR WDG HI-TEMP
S60C	S60C	M7-50A	MAIN PUMP 7 MOTOR WDG HI-TEMP
S61	S61	M7-51	MAIN PUMP 7 MOTOR HI-MOISTURE
S61C	S61C	M7-51A	MAIN PUMP 7 MOTOR HI-MOISTURE
S62	S62	M7-52	MAIN PUMP 7 BEARING HI-TEMP
S62C	S62C	M7-52A	MAIN PUMP 7 BEARING HI-TEMP
S63	S63	M8-0	LOW FLOW PUMP 1 BREAKER OPEN
S63C	S63C	M8-0A	LOW FLOW PUMP 1 BREAKER OPEN
S64	S64	M8-1D	LOW FLOW PUMP 1 RUNNING
S64C	S64C	M8-1E	LOW FLOW PUMP 1 RUNNING
S65	S65	M8-15A	LOW FLOW PUMP 1 HOA IN AUTO
S65C	S65C	M8-15	LOW FLOW PUMP 1 HOA IN AUTO
S66	S66	M8-16	LOW FLOW PUMP 1 HOA IN OFF
S66C	S66C	M8-15	LOW FLOW PUMP 1 HOA IN OFF
S67	S67	M8-22A	LOW FLOW PUMP 1 FAIL
S67C	S67C	M8-22B	LOW FLOW PUMP 1 FAIL
S68	S68	M8-50	LOW FLOW PUMP 1 MOTOR WDG HI-TEMP
S68C	S68C	M8-50A	LOW FLOW PUMP 1 MOTOR WDG HI-TEMP
S69	S69	M8-51	LOW FLOW PUMP 1 MOTOR HI-MOISTURE
S69C	S69C	M8-51A	LOW FLOW PUMP 1 MOTOR HI-MOISTURE
S70	S70	M8-52	LOW FLOW PUMP 1 BEARING HI-TEMP
S70C	S70C	M8-52A	LOW FLOW PUMP 1 BEARING HI-TEMP
S71	S71	M9-0	LOW FLOW PUMP 2 BREAKER OPEN
S71C	S71C	M9-0A	LOW FLOW PUMP 2 BREAKER OPEN
S72	S72	M9-1D	LOW FLOW PUMP 2 RUNNING
S72C	S72C	M9-1E	LOW FLOW PUMP 2 RUNNING
S73	S73	M9-15A	LOW FLOW PUMP 2 HOA IN AUTO
S73C	S73C	M9-15	LOW FLOW PUMP 2 HOA IN AUTO
S74	S74	M9-16	LOW FLOW PUMP 2 HOA IN OFF
S74C	S74C	M9-15	LOW FLOW PUMP 2 HOA IN OFF
S75	S75	M9-22A	LOW FLOW PUMP 2 FAIL
S75C	S75C	M9-22B	LOW FLOW PUMP 2 FAIL
S76	S76	M9-50	LOW FLOW PUMP 2 MOTOR WDG HI-TEMP
S76C	S76C	M9-50A	LOW FLOW PUMP 2 MOTOR WDG HI-TEMP
S77	S77	M9-51	LOW FLOW PUMP 2 MOTOR HI-MOISTURE
S77C	S77C	M9-51A	LOW FLOW PUMP 2 MOTOR HI-MOISTURE
S78	S78	M9-52	LOW FLOW PUMP 2 BEARING HI-TEMP
S78C	S78C	M9-52A	LOW FLOW PUMP 2 BEARING HI-TEMP
S79	S79	CPDO-2	PUMP CONTROL CKT POWER FAIL
S79C	S79C	CPDO-2A	PUMP CONTROL CKT POWER FAIL
S80	S80	CPDO-145	MAIN PUMP FAIL TO STOP
S80C	S80C	CPDO-145A	MAIN PUMP FAIL TO STOP
S81	S81	CPDO-391	ALARM ACKNOWLEDGED
S81C	S81C	CPDO-391A	ALARM ACKNOWLEDGED
S82	S82	CPDO-481	COMBUSTIBLE GAS WARNING
S82C	S82C	CPDO-481A	COMBUSTIBLE GAS WARNING
S81	S81	CPDO-482	COMBUSTIBLE GAS ALARM
S81C	S81C	CPDO-482A	COMBUSTIBLE GAS ALARM
S82	S82	CPDO-483	COMBUSTIBLE GAS DETECTOR FAIL
S82C	S82C	CPDO-483A	COMBUSTIBLE GAS DETECTOR FAIL
S83	S83	SWG-1	UTILITY LINE 1 POWER FAIL
S83C	S83C	SWG-1C	UTILITY LINE 1 POWER FAIL
S84	S84	SWG-2	UTILITY LINE 1 TVSS ALARM
S84C	S84C	SWG-2C	UTILITY LINE 1 TVSS ALARM
S85	S85	SWG-3	UTILITY LINE 1 BREAKER CLOSED
S85C	S85C	SWG-3C	UTILITY LINE 1 BREAKER CLOSED
S86	S86	SWG-4	UTILITY LINE 2 POWER FAIL
S86C	S86C	SWG-4C	UTILITY LINE 2 POWER FAIL
S81	S81	SWG-5	UTILITY LINE 2 TVSS ALARM
S81C	S81C	SWG-5C	UTILITY LINE 2 TVSS ALARM
S82	S82	SWG-6	UTILITY LINE 2 BREAKER CLOSED
S82C	S82C	SWG-6C	UTILITY LINE 2 BREAKER CLOSED
S83	S83	SWG-7	BUS TIE 1 BREAKER CLOSED
S83C	S83C	SWG-7C	BUS TIE 1 BREAKER CLOSED
S84	S84	SWG-8	BUS TIE 2 BREAKER CLOSED
S84C	S84C	SWG-8C	BUS TIE 2 BREAKER CLOSED
S85	S85	SWG-9	GENERATOR BREAKER CLOSED
S85C	S85C	SWG-9C	GENERATOR BREAKER CLOSED
S86	S86	GEN-1	GENERATOR RUNNING
S86C	S86C	GEN-1C	GENERATOR RUNNING
S87	S87	GEN-2	GENERATOR ALARM
S87C	S87C	GEN-2C	GENERATOR ALARM
S88	S88	GEN-3	GENERATOR DC POWER FAILURE
S88C	S88C	GEN-3C	GENERATOR DC POWER FAILURE

SCADA PANEL DIGITAL INPUTS
TERMINAL BLOCK TBDI

TERM *	WIRE *	ORIGINATIION	DESCRIPTION OF INPUTS
S97	S82		
S97C	S82C		
S98	S86		
S98C	S86C		
S99	S86		
S99C	S86C		
S100	S82		
S100C	S82C		
S101	CP-201	CPDO-201	WETWELL LVL BELOW FLOAT EL. 608.0'
S101C	CP-201A	CPDO-201A	WETWELL LVL BELOW FLOAT EL. 608.0'
S102	CP-202	CPDO-202	WETWELL LVL BELOW FLOAT EL. 607.0'
S102C	CP-202A	CPDO-202A	WETWELL LVL BELOW FLOAT EL. 607.0'
S103	CP-203	CPDO-203	WETWELL LVL BELOW FLOAT EL. 606.5'
S103C	CP-203A	CPDO-203A	WETWELL LVL BELOW FLOAT EL. 606.5'
S104	CP-204	CPDO-204	WETWELL LVL BELOW FLOAT EL. 606.0'
S104C	CP-204A	CPDO-204A	WETWELL LVL BELOW FLOAT EL. 606.0'
S105	CP-205	CPDO-205	WETWELL LVL BELOW FLOAT EL. 605.5'
S105C	CP-205A	CPDO-205A	WETWELL LVL BELOW FLOAT EL. 605.5'
S106	CP-206	CPDO-206	WETWELL LVL BELOW FLOAT EL. 605.0'
S106C	CP-206A	CPDO-206A	WETWELL LVL BELOW FLOAT EL. 605.0'
S107	CP-207	CPDO-207	WETWELL LVL BELOW FLOAT EL. 604.5'
S107C	CP-207A	CPDO-207A	WETWELL LVL BELOW FLOAT EL. 604.5'
S108	CP-208	CPDO-208	WETWELL LVL BELOW FLOAT EL. 604.0'
S108C	CP-208A	CPDO-208A	WETWELL LVL BELOW FLOAT EL. 604.0'
S109	CP-209	CPDO-209	WETWELL LVL BELOW FLOAT EL. 603.0'
S109C	CP-209A	CPDO-209A	WETWELL LVL BELOW FLOAT EL. 603.0'
S110	CP-210	CPDO-210	WETWELL LVL BELOW FLOAT EL. 602.5'
S110C	CP-210A	CPDO-210A	WETWELL LVL BELOW FLOAT EL. 602.5'
S111	CP-211	CPDO-211	WETWELL LVL BELOW FLOAT EL. 602.0'
S111C	CP-211A	CPDO-211A	WETWELL LVL BELOW FLOAT EL. 602.0'
S112	CP-212	CPDO-212	WETWELL LVL BELOW FLOAT EL. 601.5'
S112C	CP-212A	CPDO-212A	WETWELL LVL BELOW FLOAT EL. 601.5'
S113	CP-213	CPDO-213	WETWELL LVL BELOW FLOAT EL. 601.0'
S113C	CP-213A	CPDO-213A	WETWELL LVL BELOW FLOAT EL. 601.0'
S114	CP-214	CPDO-214	WETWELL LVL BELOW FLOAT EL. 600.0'
S114C	CP-214A	CPDO-214A	WETWELL LVL BELOW FLOAT EL. 600.0'
S115	CP-215	CPDO-215	WETWELL LVL BELOW FLOAT EL. 599.5'
S115C	CP-215A	CPDO-215A	WETWELL LVL BELOW FLOAT EL. 599.5'
S116	S116		
S116C	S116C		
S117	S117		
S117C	S117C		
S118	S118		
S118C	S118C		
S119	S119		
S119C	S119C		
S120	S120		
S120C	S120C		
S121	S121		
S121C	S121C		
S122	S122		
S122C	S122C		
S123	S123		
S123C	S123C		
S124	S124		
S124C	S124C		
S125	S125		
S125C	S125C		
S126	S126		
S126C	S126C		
S127	S127		
S127C	S127C		
S128	S128		
S128C	S128C		
S129	S129		
S129C	S129C		
S130	S130		
S130C	S130C		
S131	S131		
S131C	S131C		
S131	S131		
S131C	S131C		
S132	S132		
S132C	S132C		
S133	S133		
S133C	S133C		
S132	S132		
S132C	S132C		
S133	S133		
S133C	S133C		
S134	S134		
S134C	S134C		
S135	S135		
S135C	S135C		
S136	S136	MCC1-1	MCC 1 POWER FAILURE
S136C	S136C	MCC1-1C	MCC 1 POWER FAILURE
S137	S137	MCC1-2	MCC 1 TVSS ALARM
S137C	S137C	MCC1-2C	MCC 1 TVSS ALARM
S138	S138	MCC2-1	MCC 2 POWER FAILURE
S138C	S138C	MCC2-1C	MCC 2 POWER FAILURE
S139	S139	MCC2-2	MCC 2 TVSS ALARM
S139C	S139C	MCC2-2C	MCC 2 TVSS ALARM
S140	S140	FAP-1	FIRE ALARM
S140C	S140C	FAP-1A	FIRE ALARM
S141	S141	PS-1	PUMP STATION INTRUSION
S141C	S141C	PS-1A	PUMP STATION INTRUSION
S142	S142	PS-2	PUMP STATION KEY SWITCH BYPASS
S142C	S142C	PS-2A	PUMP STATION KEY SWITCH BYPASS