

CONTROL PANEL DIGITAL INPUTS(TBDD)					
INTO CONTROL PANEL		OUT OF CONTROL PANEL		DESCRIPTION OF INPUTS	
DESTINATION	WIRE #	TERM #	WIRE #	ORIGINATIION	
PUMP1 CALL RELAYS	1	1	CP-1	MP1-4	PUMP 1 STARTER CONTACT NC
PUMP1 CALL RELAYS	96	96	CP-96	MP1-4A	PUMP 1 STARTER CONTACT NC
PUMP2 CALL RELAYS	99	99	CP-99	MP2-4	PUMP 2 STARTER CONTACT NC
PUMP2 CALL RELAYS	99A	99A	CP-99A	MP2-4A	PUMP 2 STARTER CONTACT NC
PUMP3 CALL RELAYS	96	96	CP-96	MP3-4	PUMP 3 STARTER CONTACT NC
PUMP3 CALL RELAYS	96A	96A	CP-96A	MP3-4A	PUMP 3 STARTER CONTACT NC
PUMP4 CALL RELAYS	99A	99A	CP-99A	MP4-4	PUMP 4 STARTER CONTACT NC
PUMP4 CALL RELAYS	99B	99B	CP-99B	MP4-4A	PUMP 4 STARTER CONTACT NC
PUMP5 CALL RELAYS	96A	96A	CP-96A	MP5-4	PUMP 5 STARTER CONTACT NC
PUMP5 CALL RELAYS	96B	96B	CP-96B	MP5-4A	PUMP 5 STARTER CONTACT NC
PUMP6 CALL RELAYS	99B	99B	CP-99B	MP6-4	PUMP 6 STARTER CONTACT NC
PUMP6 CALL RELAYS	99C	99C	CP-99C	MP6-4A	PUMP 6 STARTER CONTACT NC
PUMP7 CALL RELAYS	96B	96B	CP-96B	MP7-4	PUMP 7 STARTER CONTACT NC
PUMP7 CALL RELAYS	96C	96C	CP-96C	MP7-4A	PUMP 7 STARTER CONTACT NC
PUMP8 CALL RELAYS	96C	96C	CP-96C	MP8-4	PUMP 8 STARTER CONTACT NC
PUMP8 CALL RELAYS	96C	96C	CP-96C	MP8-4A	PUMP 8 STARTER CONTACT NC
FLOAT 1 RELAY	201	201	CP-201	FLOAT 1	HIGH WATER ALARM
FLOAT 1 RELAY	201A	201A	CP-201A	FLOAT 1	HIGH WATER ALARM
FLOAT 2 RELAY	206	206	CP-206	FLOAT 2	START STBY PUMP
FLOAT 2 RELAY	206A	206A	CP-206A	FLOAT 2	START STBY PUMP
FLOAT 3 RELAY	211	211	CP-211	FLOAT 3	START LAG 6 PUMP
FLOAT 3 RELAY	211A	211A	CP-211A	FLOAT 3	START LAG 6 PUMP
FLOAT 4 RELAY	216	216	CP-216	FLOAT 4	START LAG 5 PUMP
FLOAT 4 RELAY	216A	216A	CP-216A	FLOAT 4	START LAG 5 PUMP
FLOAT 5 RELAY	221	221	CP-221	FLOAT 5	START LAG 4 PUMP
FLOAT 5 RELAY	221A	221A	CP-221A	FLOAT 5	START LAG 4 PUMP
FLOAT 6 RELAY	226	226	CP-226	FLOAT 6	START LAG 3 PUMP
FLOAT 6 RELAY	226A	226A	CP-226A	FLOAT 6	START LAG 3 PUMP
FLOAT 7 RELAY	231	231	CP-231	FLOAT 7	START LAG 2 PUMP
FLOAT 7 RELAY	231A	231A	CP-231A	FLOAT 7	START LAG 2 PUMP
FLOAT 8 RELAY	236	236	CP-236	FLOAT 8	START LAG 1 PUMP
FLOAT 8 RELAY	236A	236A	CP-236A	FLOAT 8	START LAG 1 PUMP
FLOAT 9 RELAY	241	241	CP-241	FLOAT 9	START LEAD PUMP
FLOAT 9 RELAY	241A	241A	CP-241A	FLOAT 9	START LEAD PUMP
FLOAT 10 RELAY	246	246	CP-246	FLOAT 10	STOP LAG4-STBY
FLOAT 10 RELAY	246A	246A	CP-246A	FLOAT 10	STOP LAG4-STBY
FLOAT 11 RELAY	251	251	CP-251	FLOAT 11	STOP LEAD-LAG3 START LF PUMPS
FLOAT 11 RELAY	251A	251A	CP-251A	FLOAT 11	STOP LEAD-LAG3 START LF PUMPS
FLOAT 12 RELAY	256	256	CP-256	FLOAT 12	START LF LEAD PUMP
FLOAT 12 RELAY	256A	256A	CP-256A	FLOAT 12	START LF LEAD PUMP
FLOAT 13 RELAY	261	261	CP-261	FLOAT 13	STOP LF PUMPS
FLOAT 13 RELAY	261A	261A	CP-261A	FLOAT 13	STOP LF PUMPS
FLOAT 14 RELAY	266	266	CP-266	FLOAT 14	LOW WATER ALARM
FLOAT 14 RELAY	266A	266A	CP-266A	FLOAT 14	LOW WATER ALARM
SCADA CALL LEAD LIGHT	1	1	CP-1	SP305	SCADA LEAD CALL
SCADA CALL LEAD LIGHT	291	291	CP-291	SP306	SCADA LEAD CALL
SCADA CALL LAG 1 LIGHT	1	1	CP-1	SP337	SCADA LAG 1 CALL
SCADA CALL LAG 1 LIGHT	292	292	CP-292	SP338	SCADA LAG 1 CALL
SCADA CALL LAG 2 LIGHT	1	1	CP-1	SP307	SCADA LAG 2 CALL
SCADA CALL LAG 2 LIGHT	293	293	CP-293	SP308	SCADA LAG 2 CALL
SCADA CALL LAG 3 LIGHT	1	1	CP-1	SP339	SCADA LAG 3 CALL
SCADA CALL LAG 3 LIGHT	294	294	CP-294	SP340	SCADA LAG 3 CALL
SCADA CALL LAG 4 LIGHT	1	1	CP-1	SP369	SCADA LAG 4 CALL
SCADA CALL LAG 4 LIGHT	295	295	CP-295	SP370	SCADA LAG 4 CALL
SCADA CALL LAG 5 LIGHT	1	1	CP-1	SP401	SCADA LAG 5 CALL
SCADA CALL LAG 5 LIGHT	296	296	CP-296	SP402	SCADA LAG 5 CALL
SCADA CALL LAG 6 LIGHT	1	1	CP-1	SP371	SCADA LAG 6 CALL
SCADA CALL LAG 6 LIGHT	297	297	CP-297	SP372	SCADA LAG 6 CALL
SCADA CALL STBY LIGHT	1	1	CP-1	SP403	SCADA STBY CALL
SCADA CALL STBY LIGHT	298	298	CP-298	SP404	SCADA STBY CALL
SCADA CALL LF LEAD LIGHT	1	1	CP-1	SP311	SCADA LF LEAD CALL
SCADA CALL LF LEAD LIGHT	299	299	CP-299	SP312	SCADA LF LEAD CALL
SCADA CALL LF LAG LIGHT	1	1	CP-1	SP343	SCADA LF LAG CALL
SCADA CALL LF LAG LIGHT	300	300	CP-300	SP344	SCADA LF LAG CALL
ALARM AN2 IN	432	432	CP-432	MP1-2B	MAIN PUMP 1 OVERLOAD
ALARM AN2 IN	433	433	CP-433	MP1-2C	MAIN PUMP 1 OVERLOAD
ALARM AN9 IN	435	435	CP-435	MP2-2B	MAIN PUMP 2 OVERLOAD
ALARM AN9 IN	436	436	CP-436	MP2-2C	MAIN PUMP 2 OVERLOAD
ALARM AN16 IN	438	438	CP-438	MP3-2B	MAIN PUMP 3 OVERLOAD
ALARM AN16 IN	439	439	CP-439	MP3-2C	MAIN PUMP 3 OVERLOAD
ALARM AN23 IN	441	441	CP-441	MP4-2B	MAIN PUMP 4 OVERLOAD
ALARM AN23 IN	442	442	CP-442	MP4-2C	MAIN PUMP 4 OVERLOAD
ALARM AN30 IN	444	444	CP-444	MP5-2B	MAIN PUMP 5 OVERLOAD
ALARM AN30 IN	445	445	CP-445	MP5-2C	MAIN PUMP 5 OVERLOAD
ALARM AN37 IN	447	447	CP-447	MP6-2B	MAIN PUMP 6 OVERLOAD
ALARM AN37 IN	448	448	CP-448	MP6-2C	MAIN PUMP 6 OVERLOAD
ALARM AN44 IN	450	450	CP-450	MP7-2B	MAIN PUMP 7 OVERLOAD
ALARM AN44 IN	451	451	CP-451	MP7-2C	MAIN PUMP 7 OVERLOAD
ALARM AN51 IN	453	453	CP-453	MP8-2B	MAIN PUMP 8 OVERLOAD
ALARM AN51 IN	454	454	CP-454	MP8-2C	MAIN PUMP 8 OVERLOAD
RELAY ROL9	1	1	CP-1	MA5-0F	LF PUMP 9 OVERLOAD
RELAY ROL9	475	475	CP-475	MA5-0G	LF PUMP 9 OVERLOAD
RELAY ROL10	1	1	CP-1	MA6-0F	LF PUMP 10 OVERLOAD
RELAY ROL10	477	477	CP-477	MA6-0G	LF PUMP 10 OVERLOAD

CONTROL PANEL DIGITAL INPUTS(TBDD)					
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DESTINATION	WIRE #	TERM #	WIRE #	ORIGINATIION	
ALARM AN27 IN	558	558	CP-558	MP(EVEN)-23B	NORTH PUMPS JCT BOXES PURGE ALARM
ALARM AN27 IN	560	560	CP-560	MP(EVEN)-23B	NORTH PUMPS JCT BOXES PURGE ALARM
ALARM AN34 IN	561	561	CP-561	MP(ODD)-23B	SOUTH PUMPS JCT BOXES PURGE ALARM
ALARM AN34 IN	563	563	CP-563	MP(ODD)-23B	SOUTH PUMPS JCT BOXES PURGE ALARM
ALARM AN41 IN	564	564	CP-564	MS(M6)-17	LF PUMPS JCT BOXES PURGE ALARM
ALARM AN41 IN	566	566	CP-566	MS(M6)-17A	LF PUMPS JCT BOXES PURGE ALARM
ALARM AN3 IN	462	462	CP-462	MP1-40A	PUMP 1 MOIST/HIGH TEMP
ALARM AN3 IN	463	463	CP-463	MP1-40B	PUMP 1 MOIST/HIGH TEMP
ALARM AN10 IN	465	465	CP-465	MP2-40A	PUMP 2 MOIST/HIGH TEMP
ALARM AN10 IN	466	466	CP-466	MP2-40B	PUMP 2 MOIST/HIGH TEMP
ALARM AN17 IN	468	468	CP-468	MP3-40A	PUMP 3 MOIST/HIGH TEMP
ALARM AN17 IN	469	469	CP-469	MP3-40B	PUMP 3 MOIST/HIGH TEMP
ALARM AN24 IN	471	471	CP-471	MP4-40A	PUMP 4 MOIST/HIGH TEMP
ALARM AN24 IN	472	472	CP-472	MP4-40B	PUMP 4 MOIST/HIGH TEMP
ALARM AN31 IN	480	480	CP-480	MP5-40A	PUMP 5 MOIST/HIGH TEMP
ALARM AN31 IN	481	481	CP-481	MP5-40B	PUMP 5 MOIST/HIGH TEMP
ALARM AN38 IN	483	483	CP-483	MP6-40A	PUMP 6 MOIST/HIGH TEMP
ALARM AN38 IN	351	351	CP-351	MP6-40B	PUMP 6 MOIST/HIGH TEMP
ALARM AN45 IN	486	486	CP-486	MP7-40A	PUMP 7 MOIST/HIGH TEMP
ALARM AN45 IN	486	486	CP-486	MP7-40B	PUMP 7 MOIST/HIGH TEMP
ALARM AN52 IN	489	489	CP-489	MP8-40A	PUMP 8 MOIST/HIGH TEMP
ALARM AN52 IN	490	490	CP-490	MP8-40B	PUMP 8 MOIST/HIGH TEMP
ALARM AN6 IN	492	492	CP-492	MSA-35A	LF PUMP 9 MOIST/HIGH TEMP
ALARM AN6 IN	493	493	CP-493	MSA-35B	LF PUMP 9 MOIST/HIGH TEMP
ALARM AN13 IN	495	495	CP-495	M6A-35A	LF PUMP 10 MOIST/HIGH TEMP
ALARM AN13 IN	496	496	CP-496	M6A-35B	LF PUMP 10 MOIST/HIGH TEMP
ALARM AN32 IN	504	504	CP-504	SP385	BAR SCREEN CLOGGED
ALARM AN32 IN	506	506	CP-506	SP386	BAR SCREEN CLOGGED
ALARM AN39 IN	507	507	CP-507	SP329	DISCHARGE CHAMBER FLOODED
ALARM AN39 IN	509	509	CP-509	SP330	DISCHARGE CHAMBER FLOODED
ALARM AN46 IN	510	510	CP-510	SP323	PRIMARY BUBBLER FAILURE
ALARM AN46 IN	512	512	CP-512	SP324	PRIMARY BUBBLER FAILURE
ALARM AN53 IN	513	513	CP-513	SP353	SECONDARY BUBBLER FAILURE
ALARM AN53 IN	515	515	CP-515	SP354	SECONDARY BUBBLER FAILURE
ALARM AN19 IN	516	516	CP-516	SP361	5KV SWGR ATO FAILURE
ALARM AN19 IN	518	518	CP-518	SP362	5KV SWGR ATO FAILURE
ALARM AN26 IN	519	519	CP-519	5KV SWGR	COMED LINE 1 POWER FAILURE
ALARM AN26 IN	521	521	CP-521	5KV SWGR	COMED LINE 1 POWER FAILURE
ALARM AN33 IN	522	522	CP-522	5KV SWGR	COMED LINE 2 POWER FAILURE
ALARM AN33 IN	524	524	CP-524	5KV SWGR	COMED LINE 2 POWER FAILURE
ALARM AN40 IN	525	525	CP-525	SP357	SCADA PANEL AC POWER FAILURE
ALARM AN40 IN	527	527	CP-527	SP358	SCADA PANEL AC POWER FAILURE
ALARM AN47 IN	528	528	CP-528	SP359	SCADA PANEL ALARM
ALARM AN47 IN	530	530	CP-530	SP360	SCADA PANEL ALARM
ALARM AN54 IN	567	567	CP-567	5KV SWGR	5KV SWGR ATO UPS FAILURE
ALARM AN54 IN	569	569	CP-569	5KV SWGR	5KV SWGR ATO UPS FAILURE
ALARM AN14 IN	534	534	CP-534	SP629I	FIRE ALARM
ALARM AN14 IN	536	536	CP-536	SP629J	FIRE ALARM
ALARM AN21 IN	537	537	CP-537	609B	INTRUSION ALARM
ALARM AN21 IN	539	539	CP-539	609C	INTRUSION ALARM
ALARM AN28 IN	540	540	CP-540	SP389	FLOAT FAILURE
ALARM AN28 IN	542	542	CP-542	SP390	FLOAT FAILURE
ALARM AN35 IN	543	543	CP-543	MSBM(5C)-12A	VALVE/GATE IN NON-DISCHARGE MODE
ALARM AN35 IN	545	545	CP-545	MSBM(5C)-12B	VALVE/GATE IN NON-DISCHARGE MODE
ALARM AN42 IN	546	546	CP-546	SP405	CENTRAL PUMP TEST
ALARM AN42 IN	548	548	CP-548	SP406	CENTRAL PUMP TEST
ALARM AN20 IN	555	555	CP-555	AIR COMPR	PURGE AIR LOW PRESSURE
ALARM AN20 IN	555	555	CP-555	AIR COMPR	PURGE AIR LOW PRESSURE
ALARM HORN CIRCUIT	125H	125H	CP-125H	FAP-629H	FIRE ALARM
ALARM HORN CIRCUIT	149	149	CP-149	FAP-629I	FIRE ALARM
SCADA PUMP CUTOUT	368	368	CP-368	SP409	STOP LAG PUMP 7 ON OUTFALL DISCHARGE LEVEL
SCADA PUMP CUTOUT	368A	368A	CP-368A	SP410	DROP TO ELEV. 6.80

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PUMP STATION NO. 27
REHABILITATION
CONTROL PANEL TERMINAL
SCHEDULE SH. 1
SCALE: N/A DRAWN BY: MS
DATE: 04-23-10 CHECKED BY: MS

