

MAIN PUMP 1 STARTER TERMINAL CONNECTIONS

TERMINAL NO.	WIRE NO.	INPUT ORIGINATION	DESCRIPTION OF INPUT
MP1-39	MP1-39	MP1 CONTROL JB	MOTOR MOISTURE SENSOR
MP1-40	MP1-40	MP1 CONTROL JB	MOTOR MOISTURE SENSOR
MP1-41	MP1-41	MP1 CONTROL JB	MOTOR TEMP SENSOR
MP1-42	MP1-42	MP1 CONTROL JB	MOTOR TEMP SENSOR
MP1-43	M4A-43	MP1 CONTROL JB	BEARING TEMP SENSOR
MP1-44	MP1-44	MP1 CONTROL JB	BEARING TEMP SENSOR
MP1-6	MP1-6	MP1 PURGE PANEL	SAFETY INTERLOCK
MP1-20	MP1-20	MP1 PURGE PANEL	SAFETY INTERLOCK
MP1-7	MP1-7	MP1 LOCAL PB STATION	START PUSH BUTTON
MP1-10	MP1-10	MP1 LOCAL PB STATION	START PUSH BUTTON
MP1-12	MP1-12	MP1 LOCAL PB STATION	STOP PUSH BUTTON
MP1-12A	MP1-12A	MP1 LOCAL PB STATION	STOP PUSH BUTTON
MP1-18	MP1-18	MP1 LOCAL PB STATION	MOTOR BUMP BUTTON
MP1-10	MP1-10	MP1 LOCAL PB STATION	MOTOR BUMP BUTTON
MP1-7	MP1-7	CP-00-4A	FLOAT PUMP CALL
MP1-14	MP1-14	CP-00-4B	FLOAT PUMP CALL
MP1-7	MP1-7	SP301	SCADA PUMP CALL
MP1-14	MP1-14	SP302	SCADA PUMP CALL

TERMINAL NO.	WIRE NO.	OUTPUT DESTINATION	DESCRIPTION OF OUTPUT
MP1-7	MP1-7	MP1 LOCAL PB STATION	PUMP CALL LIGHT
MP1-X2	MP1-X2	MP1 LOCAL PB STATION	PUMP CALL LIGHT
MP1-6	MP1-6	MP1 LOCAL PB STATION	PUMP CALL LIGHT
MP1-24	MP1-24	MP1 LOCAL PB STATION	PUMP RUN LIGHT
MP1-X2	MP1-X2	MP1 LOCAL PB STATION	PUMP RUN LIGHT
MP1-6	MP1-6	MP1 LOCAL PB STATION	PUMP RUN LIGHT
MP1-4	CP-1	CP-DI-1	PUMP NOT RUNNING
MP1-4A	CP-96	CP-DI-96	PUMP NOT RUNNING
MP1-5B	CP-331	CP-DI-331	PUMP NOT RUNNING
MP1-5C	CP-331A	CP-DI-331A	PUMP NOT RUNNING
MP1-2	CP-1	CP-DI-1	MOTOR OVERLOAD TRIP
MP1-2A	CP-57	CP-DI-57	MOTOR OVERLOAD TRIP
MP1-2B	CP-432	CP-DI-432	MOTOR OVERLOAD ALARM
MP1-2C	CP-433	CP-DI-433	MOTOR OVERLOAD ALARM
MP1-40A	CP-462	CP-DI-462	OVER TEMP/MOIST ALARM
MP1-40B	CP-463	CP-DI-463	OVER TEMP/MOIST ALARM
MP1-23B	CP-561	CP-DI-561	MOTOR JB PURGE ALARM
MP1-23C	CP-563	CP-DI-563	MOTOR JB PURGE ALARM
MP1-0	SP1	SP1	ISOLATION SW. OPEN
MP1-0A	SP2	SP2	ISOLATION SW. OPEN
MP1-1D	SP3	SP3	MOTOR RUNNING
MP1-1E	SP4	SP4	MOTOR RUNNING
MP1-16	SP5	SP5	PUMP CONTROL NOT IN AUTO
MP1-16A	SP6	SP6	PUMP CONTROL NOT IN AUTO
MP1-44A	SP7	SP7	OVER TEMP/MOIST ALARM
MP1-44B	SP8	SP8	OVER TEMP/MOIST ALARM
MP1-22	SP9	SP9	MOTOR JB PURGE ALARM
MP1-22A	SP10	SP10	MOTOR JB PURGE ALARM

MAIN PUMP 2 STARTER TERMINAL CONNECTIONS

TERMINAL NO.	WIRE NO.	INPUT ORIGINATION	DESCRIPTION OF INPUT
MP2-39	MP2-39	MP2 CONTROL JB	MOTOR MOISTURE SENSOR
MP2-40	MP2-40	MP2 CONTROL JB	MOTOR MOISTURE SENSOR
MP2-41	MP2-41	MP2 CONTROL JB	MOTOR TEMP SENSOR
MP2-42	MP2-42	MP2 CONTROL JB	MOTOR TEMP SENSOR
MP2-43	M4A-43	MP2 CONTROL JB	BEARING TEMP SENSOR
MP2-44	MP2-44	MP2 CONTROL JB	BEARING TEMP SENSOR
MP2-6	MP2-6	MP2 PURGE PANEL	SAFETY INTERLOCK
MP2-20	MP2-20	MP2 PURGE PANEL	SAFETY INTERLOCK
MP2-7	MP2-7	MP2 LOCAL PB STATION	START PUSH BUTTON
MP2-10	MP2-10	MP2 LOCAL PB STATION	START PUSH BUTTON
MP2-12	MP2-12	MP2 LOCAL PB STATION	STOP PUSH BUTTON
MP2-12A	MP2-12A	MP2 LOCAL PB STATION	STOP PUSH BUTTON
MP2-18	MP2-18	MP2 LOCAL PB STATION	MOTOR BUMP BUTTON
MP2-10	MP2-10	MP2 LOCAL PB STATION	MOTOR BUMP BUTTON
MP2-7	MP2-7	CP-00-13	FLOAT PUMP CALL
MP2-14	MP2-14	CP-00-13A	FLOAT PUMP CALL
MP2-7	MP2-7	SP333	SCADA PUMP CALL
MP2-14	MP2-14	SP334	SCADA PUMP CALL

TERMINAL NO.	WIRE NO.	OUTPUT DESTINATION	DESCRIPTION OF OUTPUT
MP2-7	MP2-7	MP2 LOCAL PB STATION	PUMP CALL LIGHT
MP2-X2	MP2-X2	MP2 LOCAL PB STATION	PUMP CALL LIGHT
MP2-6	MP2-6	MP2 LOCAL PB STATION	PUMP CALL LIGHT
MP2-24	MP2-24	MP2 LOCAL PB STATION	PUMP RUN LIGHT
MP2-X2	MP2-X2	MP2 LOCAL PB STATION	PUMP RUN LIGHT
MP2-6	MP2-6	MP2 LOCAL PB STATION	PUMP RUN LIGHT
MP2-4	CP-1	CP-DI-99	PUMP NOT RUNNING
MP2-4A	CP-49	CP-DI-99A	PUMP NOT RUNNING
MP2-5B	CP-331	CP-DI-332	PUMP NOT RUNNING
MP2-5C	CP-331A	CP-DI-332A	PUMP NOT RUNNING
MP2-2	CP-1	CP-DI-1	MOTOR OVERLOAD TRIP
MP2-2A	CP-57	CP-DI-57	MOTOR OVERLOAD TRIP
MP2-2B	CP-435	CP-DI-435	MOTOR OVERLOAD ALARM
MP2-2C	CP-436	CP-DI-436	MOTOR OVERLOAD ALARM
MP2-40A	CP-465	CP-DI-465	OVER TEMP/MOIST ALARM
MP2-40B	CP-466	CP-DI-466	OVER TEMP/MOIST ALARM
MP2-23B	CP-558	CP-DI-558	MOTOR JB PURGE ALARM
MP2-23C	CP-560	CP-DI-560	MOTOR JB PURGE ALARM
MP2-0	SP65	SP65	ISOLATION SW. OPEN
MP2-0A	SP66	SP66	ISOLATION SW. OPEN
MP2-1D	SP67	SP67	MOTOR RUNNING
MP2-1E	SP68	SP68	MOTOR RUNNING
MP2-16	SP69	SP69	PUMP CONTROL NOT IN AUTO
MP2-16A	SP70	SP70	PUMP CONTROL NOT IN AUTO
MP2-44A	SP71	SP71	OVER TEMP/MOIST ALARM
MP2-44B	SP72	SP72	OVER TEMP/MOIST ALARM
MP2-22	SP73	SP73	MOTOR JB PURGE ALARM
MP2-22A	SP106	SP106	MOTOR JB PURGE ALARM

MAIN PUMP 3 STARTER TERMINAL CONNECTIONS

TERMINAL NO.	WIRE NO.	INPUT ORIGINATION	DESCRIPTION OF INPUT
MP3-39	MP3-39	MP3 CONTROL JB	MOTOR MOISTURE SENSOR
MP3-40	MP3-40	MP3 CONTROL JB	MOTOR MOISTURE SENSOR
MP3-41	MP3-41	MP3 CONTROL JB	MOTOR TEMP SENSOR
MP3-42	MP3-42	MP3 CONTROL JB	MOTOR TEMP SENSOR
MP3-43	M4A-43	MP3 CONTROL JB	BEARING TEMP SENSOR
MP3-44	MP3-44	MP3 CONTROL JB	BEARING TEMP SENSOR
MP3-6	MP3-6	MP3 PURGE PANEL	SAFETY INTERLOCK
MP3-20	MP3-20	MP3 PURGE PANEL	SAFETY INTERLOCK
MP3-7	MP3-7	MP3 LOCAL PB STATION	START PUSH BUTTON
MP3-10	MP3-10	MP3 LOCAL PB STATION	START PUSH BUTTON
MP3-12	MP3-12	MP3 LOCAL PB STATION	STOP PUSH BUTTON
MP3-12A	MP3-12A	MP3 LOCAL PB STATION	STOP PUSH BUTTON
MP3-18	MP3-18	MP3 LOCAL PB STATION	MOTOR BUMP BUTTON
MP3-10	MP3-10	MP3 LOCAL PB STATION	MOTOR BUMP BUTTON
MP3-7	MP3-7	CP-00-22	FLOAT PUMP CALL
MP3-14	MP3-14	CP-00-22A	FLOAT PUMP CALL
MP3-7	MP3-7	SP303	SCADA PUMP CALL
MP3-14	MP3-14	SP304	SCADA PUMP CALL

TERMINAL NO.	WIRE NO.	OUTPUT DESTINATION	DESCRIPTION OF OUTPUT
MP3-7	MP3-7	MP3 LOCAL PB STATION	PUMP CALL LIGHT
MP3-X2	MP3-X2	MP3 LOCAL PB STATION	PUMP CALL LIGHT
MP3-6	MP3-6	MP3 LOCAL PB STATION	PUMP CALL LIGHT
MP3-24	MP3-24	MP3 LOCAL PB STATION	PUMP RUN LIGHT
MP3-X2	MP3-X2	MP3 LOCAL PB STATION	PUMP RUN LIGHT
MP3-6	MP3-6	MP3 LOCAL PB STATION	PUMP RUN LIGHT
MP3-4	CP-96	CP-DI-96	PUMP NOT RUNNING
MP3-4A	CP-96A	CP-DI-96A	PUMP NOT RUNNING
MP3-5B	CP-333	CP-DI-333	PUMP NOT RUNNING
MP3-5C	CP-333A	CP-DI-333A	PUMP NOT RUNNING
MP3-2	CP-1	CP-DI-1	MOTOR OVERLOAD TRIP
MP3-2A	CP-57	CP-DI-57	MOTOR OVERLOAD TRIP
MP3-2B	CP-438	CP-DI-438	MOTOR OVERLOAD ALARM
MP3-2C	CP-439	CP-DI-439	MOTOR OVERLOAD ALARM
MP3-40A	CP-468	CP-DI-468	OVER TEMP/MOIST ALARM
MP3-40B	CP-469	CP-DI-469	OVER TEMP/MOIST ALARM
MP3-23B	CP-561	CP-DI-561	MOTOR JB PURGE ALARM
MP3-23C	CP-563	CP-DI-563	MOTOR JB PURGE ALARM
MP3-0	SP11	SP11	ISOLATION SW. OPEN
MP3-0A	SP12	SP12	ISOLATION SW. OPEN
MP3-1D	SP13	SP13	MOTOR RUNNING
MP3-1E	SP14	SP14	MOTOR RUNNING
MP3-16	SP15	SP15	PUMP CONTROL NOT IN AUTO
MP3-16A	SP16	SP16	PUMP CONTROL NOT IN AUTO
MP3-44A	SP17	SP17	OVER TEMP/MOIST ALARM
MP3-44B	SP18	SP18	OVER TEMP/MOIST ALARM
MP3-22	SP19	SP19	MOTOR JB PURGE ALARM
MP3-22A	SP20	SP20	MOTOR JB PURGE ALARM

MAIN PUMP 4 STARTER TERMINAL CONNECTIONS

TERMINAL NO.	WIRE NO.	INPUT ORIGINATION	DESCRIPTION OF INPUT
MP4-39	MP4-39	MP4 CONTROL JB	MOTOR MOISTURE SENSOR
MP4-40	MP4-40	MP4 CONTROL JB	MOTOR MOISTURE SENSOR
MP4-41	MP4-41	MP4 CONTROL JB	MOTOR TEMP SENSOR
MP4-42	MP4-42	MP4 CONTROL JB	MOTOR TEMP SENSOR
MP4-43	M4A-43	MP4 CONTROL JB	BEARING TEMP SENSOR
MP4-44	MP4-44	MP4 CONTROL JB	BEARING TEMP SENSOR
MP4-6	MP4-6	MP4 PURGE PANEL	SAFETY INTERLOCK
MP4-20	MP4-20	MP4 PURGE PANEL	SAFETY INTERLOCK
MP4-7	MP4-7	MP4 LOCAL PB STATION	START PUSH BUTTON
MP4-10	MP4-10	MP4 LOCAL PB STATION	START PUSH BUTTON
MP4-12	MP4-12	MP4 LOCAL PB STATION	STOP PUSH BUTTON
MP4-12A	MP4-12A	MP4 LOCAL PB STATION	STOP PUSH BUTTON
MP4-18	MP4-18	MP4 LOCAL PB STATION	MOTOR BUMP BUTTON
MP4-10	MP4-10	MP4 LOCAL PB STATION	MOTOR BUMP BUTTON
MP4-7	MP4-7	CP-00-31	FLOAT PUMP CALL
MP4-14	MP4-14	CP-00-31A	FLOAT PUMP CALL
MP4-7	MP4-7	SP335	SCADA PUMP CALL
MP4-14	MP4-14	SP336	SCADA PUMP CALL

TERMINAL NO.	WIRE NO.	OUTPUT DESTINATION	DESCRIPTION OF OUTPUT
MP4-7	MP4-7	MP4 LOCAL PB STATION	PUMP CALL LIGHT
MP4-X2	MP4-X2	MP4 LOCAL PB STATION	PUMP CALL LIGHT
MP4-6	MP4-6	MP4 LOCAL PB STATION	PUMP CALL LIGHT
MP4-24	MP4-24	MP4 LOCAL PB STATION	PUMP RUN LIGHT
MP4-X2	MP4-X2	MP4 LOCAL PB STATION	PUMP RUN LIGHT
MP4-6	MP4-6	MP4 LOCAL PB STATION	PUMP RUN LIGHT
MP4-4	CP-1	CP-DI-99A	PUMP NOT RUNNING
MP4-4A	CP-49	CP-DI-99B	PUMP NOT RUNNING
MP4-5B	CP-331	CP-DI-334	PUMP NOT RUNNING
MP4-5C	CP-331A	CP-DI-334A	PUMP NOT RUNNING
MP4-2	CP-1	CP-DI-1	MOTOR OVERLOAD TRIP
MP4-2A	CP-57	CP-DI-57	MOTOR OVERLOAD TRIP
MP4-2B	CP-435	CP-DI-441	MOTOR OVERLOAD ALARM
MP4-2C	CP-436	CP-DI-442	MOTOR OVERLOAD ALARM
MP4-40A	CP-465	CP-DI-471	OVER TEMP/MOIST ALARM
MP4-40B	CP-466	CP-DI-472	OVER TEMP/MOIST ALARM
MP4-23B	CP-558	CP-DI-558	MOTOR JB PURGE ALARM
MP4-23C	CP-560	CP-DI-560	MOTOR JB PURGE ALARM
MP4-0	SP75	SP75	ISOLATION SW. OPEN
MP4-0A	SP76	SP76	ISOLATION SW. OPEN
MP4-1D	SP77	SP77	MOTOR RUNNING
MP4-1E	SP78	SP78	MOTOR RUNNING
MP4-16	SP79	SP79	PUMP CONTROL NOT IN AUTO
MP4-16A	SP80	SP80	PUMP CONTROL NOT IN AUTO
MP4-44A	SP81	SP81	OVER TEMP/MOIST ALARM
MP4-44B	SP82	SP82	OVER TEMP/MOIST ALARM
MP4-22	SP83	SP83	MOTOR JB PURGE ALARM
MP4-22A	SP84	SP84	MOTOR JB PURGE ALARM



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 27
REHABILITATION
PUMP MOTOR STARTER
TERMINAL SCHEDULE SH. 1

SCALE: N/A DRAWN BY: MS
DATE: 04-23-10 CHECKED BY: MS