

**NOTES:**

- UNLESS NOTED OTHERWISE, ALL CONDUITS INSTALLED INDOORS SHALL BE RIGID GALVANIZED STEEL.

NUMBER	CONDUIT SIZE (IN.) (NOTE 1)	CONDUCTOR QUANTITY & SIZE	COND./CABLE INSULATION	FROM	TO
I1	1	QTY. 4 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	CONTROL PANEL CP47	JUNCTION BOX JC
I1A	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	JUNCTION BOX JC	LOW FLOW PUMP STARTER (MCC-P47, SECTION 6A)
I1B	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	JUNCTION BOX JC	MFP-3 STARTER (MCC-P47, SECTION 5A)
I1C	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	JUNCTION BOX JC	MFP-2 STARTER (MCC-P47, SECTION 4A)
I1D	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	JUNCTION BOX JC	MFP-1 STARTER (MCC-P47, SECTION 3A)
I2	3/4	QTY. 1 - (4) PAIR TELEPHONE CABLE	THWN	SCADA PANEL SP47	TELEPHONE SERVICE POINT
I3	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	CONTROL PANEL CP47	THERMOSTAT TT 402A
I4	---	MANUFACTURER SUPPLIED CABLES	SEE SPECIFICATIONS	JUNCTION BOX JB	WET WELL FLOAT SWITCHES LSL-008, LS-008, LS-008A, LS-008B, LS-008C, LS-008D, LSH-008)
I4A	1	QTY. 18-#12 & QTY. 1-#12 GND.	THHN/THWN	CONTROL PANEL CP47	JUNCTION BOX JB
I5	3/4	QTY. 1 - CATEGORY 6 DATA CABLE	PVC	CONTROL PANEL CP47	CUSTOMER METERING DEVICE (MCC-P47, SECTION 1)
I6	1	QTY. 6-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	SERVICE No. 1 BREAKER (MCC-P47, SECTION 1A)
		QTY. 6-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	SERVICE No. 2 BREAKER (MCC-P47, SECTION 2A)
I7	1	QTY. 12-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	ATS (MCC-P47, SECTION 2B)
I8	1-1/2	QTY. 42-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	MFP-1 STARTER (MCC-P47, SECTION 3A)
		QTY. 10-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	EF-1 STARTER (MCC-P47, SECTION 3B)
I9	2	QTY. 42-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	MFP-2 STARTER (MCC-P47, SECTION 4A)
		QTY. 10-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	EF-2 STARTER (MCC-P47, SECTION 4B)
		QTY. 10-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	EF-3 STARTER (MCC-P47, SECTION 4C)
I10	1-1/2	QTY. 42-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	LOW FLOW PUMP STARTER (MCC-P47, SECTION 6A)
		QTY. 10-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	SF-2 STARTER (MCC-P47, SECTION 6B)
I11	1-1/2	QTY. 42-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	MFP-3 STARTER (MCC-P47, SECTION 5A)
		QTY. 10-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	SF-1 STARTER (MCC-P47, SECTION 5B)
I12	NOT USED				
I13	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	CONTROL PANEL CP47	PRIMARY BUBBLER CONTROL PANEL BCP47-001
I14	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	CONTROL PANEL CP47	SECONDARY BUBBLER CONTROL PANEL BCP47-002
I15	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	CONTROL PANEL CP47	DOWNSTREAM BAR RACK CONTROL PANEL LIT-007B
I15A	1	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	DOWNSTREAM BAR RACK CONTROL PANEL LIT-007B	DOWNSTREAM BAR RACK TRANSMITTER LT-007B
I16	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	CONTROL PANEL CP47	UPSTREAM BAR RACK CONTROL PANEL LIT-007A
I16A	1	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	UPSTREAM BAR RACK CONTROL PANEL LIT-007A	UPSTREAM BAR RACK TRANSMITTER LT-007A
I17	3/4	QTY. 1 - (2) CONDUCTOR 16 AWG SHIELDED TWISTED PAIR CABLE	PVC	CONTROL PANEL CP47	THERMOSTAT TT 402B
I18	---	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	JUNCTION BOX JA	DISCHARGE CHAMBER FLOAT SWITCH LSH-011
I18A	3/4	QTY. 4-#12 & QTY. 1-#12 GND.	THWN	CONTROL PANEL CP47	JUNCTION BOX JA
I19	3/4	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	JUNCTION BOX JD	RECIRCULATION PIPE FLOW METER TRANSMITTER FT-010
I19A	3/4	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	CONTROL PANEL CP47	JUNCTION BOX JD
I20	3/4	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	PUMP METER CONTROL PANEL (PMCP47)	LOW FLOW PUMP NO. 4 FLOW TRANSMITTER FT-004
I21	3/4	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	PUMP METER CONTROL PANEL (PMCP47)	MAIN FLOW PUMP NO. 1 FLOW TRANSMITTER FT-001
I22	3/4	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	PUMP METER CONTROL PANEL (PMCP47)	MAIN FLOW PUMP NO. 2 FLOW TRANSMITTER FT-002
I23	3/4	MANUFACTURER SUPPLIED CABLE	SEE SPECIFICATIONS	PUMP METER CONTROL PANEL (PMCP47)	MAIN FLOW PUMP NO. 3 FLOW TRANSMITTER FT-003

IP-4

<b>McDonough Associates Inc.</b> Engineers/Architects 130 East Randolph Street - Suite 1000 Chicago, Illinois 60601 Phone: (312) 946-6000	DESIGNED <i>DKC</i>	REVISED - <i>4-19-2012</i>	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>I &amp; C CONDUIT AND WIRING SCHEDULE</b> <b>PUMP STATION 47</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED <i>KMY</i>	REVISED -			338/IL 59	2011-035-I	DUPAGE	181	129
SCALE	DRAWN <i>CJM</i>	REVISED -	SHEET NO. <b>IP-4</b> OF 6 SHEETS		CONTRACT NO. 60P41				
DATE <i>03/22/2012</i>	CHECKED <i>KMY</i>	REVISED -			ILLINOIS FED. AID PROJECT				