

POWER CONDUIT			CONDUCTOR QUANTITY AND SIZE (AWG-kcmil)	COND./CABLE INSULATION	FROM	TO
NUMBER	SIZE (IN.)	TYPE				
P1	3	PVC	4-300kcmil & 1-#3 GND	XHHW-2	PEDESTAL (LINE 1)	METER ENCLOSURE (LINE 1)
P1A	3	RGS	4-300kcmil & 1-#3 GND	XHHW-2	METER ENCLOSURE (LINE 1)	MCC-P47 (SECTION 1A)
P2	3	PVC	4-300kcmil & 1-#3 GND	XHHW-2	PEDESTAL (LINE 2)	METER ENCLOSURE (LINE 2)
P2A	3	RGS	4-300kcmil & 1-#3 GND	XHHW-2	METER ENCLOSURE (LINE 2)	MCC-P47 (SECTION 1B)
P3A	1	RGS	3-#4 & 1-#8 GND	THWN	MCC-P47 (SECTION 3A)	100A DISCONNECT FOR MFP-1
P3B	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 3B)	30A DISCONNECT FOR EF-1
P3B1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	EXHAUST FAN EF-1
P4A	1	RGS	3-#4 & 1-#8 GND	THWN	MCC-P47 (SECTION 4A)	100A DISCONNECT FOR MFP-2
P4B	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 4B)	30A DISCONNECT FOR EF-2
P4B1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	EXHAUST FAN EF-2
P5A	1	RGS	3-#4 & 1-#8 GND	THWN	MCC-P47 (SECTION 5A)	100A DISCONNECT FOR MFP-3
P5B	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 5B)	30A DISCONNECT FOR SF-1
P5B1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	SUPPLY FAN SF-1
P6A	1	RGS	3-#10 & 1-#10 GND	THWN	MCC-P47 (SECTION 6A)	30A DISCONNECT FOR LFP-4
P6B	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 6B)	30A DISCONNECT FOR SF-2
P6B1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	SUPPLY FAN SF-2
P7A	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7A)	30A DISCONNECT FOR SG-1
P7A1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	SLIDE GATE SG-1
P7B	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7B)	30A DISCONNECT FOR SG-2
P7B1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	SLIDE GATE SG-2
P7E	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7E)	30A DISCONNECT FOR HOIST H-1
P7E1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	JB5
P7F	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7F)	30A DISCONNECT FOR UH-2
P7F1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	UNIT HEATER UH-2
P7G	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7G)	30A DISCONNECT FOR UH-1
P7G1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	UNIT HEATER UH-1
P7H	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7H)	30A DISCONNECT FOR UH-3
P7H1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	UNIT HEATER UH-3
P7I	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7I)	30A DISCONNECT FOR UH-4
P7I1	3/4	RGS	3-#12 & 1-#12 GND	THWN	30A DISCONNECT	UNIT HEATER UH-4
P8A	3/4	RGS	3-#8 & 1-#10 GND	THWN	MCC-P47 (SECTION 8A)	MCC-P47 (TRANSFORMER T-47)
P8A1	3/4	RGS	4-#6 & 1-#10 GND	THWN	MCC-P47 (T-47)	MCC-P47 (PANEL LP-47)
P9	3/4	RGS	2-#12 & 1-#12 GND	THWN	CP-SP1	SP-1 DISCONNECT
P10	3/4	RGS	2-#12 & 1-#12 GND	THWN	PNL LP-47	GAS MONITORING SYSTEM
P11	3/4	RGS	2-#12 & 1-#12 GND	THWN	PNL LP-47	AEGIS/INTRUSION ALARM SYSTEM
P12	3/4	RGS	2-#12 & 1-#12 GND	THWN	PNL LP-47	FIRE ALARM SYSTEM (FACP)
P13	3/4	RGS	3-#12 & 1-#12 GND	THWN	PNL LP-47	SUMP PUMP CONTROL PNL (CP-SP)
P14	3	PVC	4-300kcmil & 1-#3 GND BY NAPERVILLE ELECTRIC		SERVICE NO. 1 TRANSFORMER	PEDESTAL (LINE 1)
P14A	3	PVC	FUTURE		SERVICE NO. 1 TRANSFORMER	PEDESTAL (LINE 1)
P15	3	PVC	4-300kcmil & 1-#3 GND BY NAPERVILLE ELECTRIC		SERVICE NO. 2 TRANSFORMER	PEDESTAL (LINE 2)
P15A	3	PVC	FUTURE		SERVICE NO. 2 TRANSFORMER	PEDESTAL (LINE 2)
P16	3	PVC	FUTURE		PEDESTAL (LINE 1)	METER ENCLOSURE (LINE 1)
P17	3	PVC	FUTURE		PEDESTAL (LINE 2)	METER ENCLOSURE (LINE 2)
P18	3	RGS	FUTURE		METER ENCLOSURE (LINE 1)	MCC-P47 (SECTION 1A)
P19	3	RGS	FUTURE		METER ENCLOSURE (LINE 2)	MCC-P47 (SECTION 1B)
P20	3/4	RGS	2-#12 & 1-#12 GND	THWN	BCP47-001	MCC-P47 (PANEL LP-47)
P21	3/4	RGS	2-#12 & 1-#12 GND	THWN	BCP47-002	MCC-P47 (PANEL LP-47)
P22	3/4	RGS	2-#12 & 1-#12 GND	THWN	MCC-P47 (PANEL LP-47)	LIT-JB
P23	3/4	RGS	2-#12 & 1-#12 GND	THWN	LIT-JB	LIT-007A
P24	3/4	RGS	2-#12 & 1-#12 GND	THWN	LIT-JB	LIT-007B
P25	3/4	RGS	2-#12 & 1-#12 GND	THWN	MCC-P47 (PANEL LP-47)	MOTOR OPER. VALVE
P27	3/4	RGS	2-#12 & 1-#12 GND	THWN	PNL LP-47	PMCP47 PANEL

CONTROL CONDUIT			CONDUCTOR QUANTITY AND SIZE (AWG-kcmil)	COND./CABLE INSULATION	FROM	TO
NUMBER	SIZE (IN.)	TYPE				
C3A1	1	RGS	13-#10, 5-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 3A)	JB-1
C3A2	1	RGS	5-#10 & 1-#10 GND	THWN	JB1	20A DISCONNECT FOR MFP-1
C3A3	1	RGS	8-#12 & 1-#12 GND	THWN	JB1	MFP-1 CONTROL STATION
C3B2	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 3B)	MD-3
C4A1	1	RGS	13-#10, 5-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 4A)	JB-2
C4A2	1	RGS	5-#10 & 1-#10 GND	THWN	JB2	20A DISCONNECT FOR MFP-2
C4A3	1	RGS	8-#12 & 1-#12 GND	THWN	JB2	MFP-2 CONTROL STATION
C4B2	3/4	RGS	3-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 4B)	MD-4
C5A1	1	RGS	13-#10, 5-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 5A)	JB-3
C5A2	1	RGS	5-#10 & 1-#10 GND	THWN	JB3	20A DISCONNECT FOR MFP-3
C5A3	1	RGS	8-#12 & 1-#12 GND	THWN	JB3	MFP-3 CONTROL STATION
C5B2	3/4	RGS	12-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 5B)	JB8
C5B3	3/4	RGS	3-#12 & 1-#12 GND	THWN	JB8	MD-1
C5B4	3/4	RGS	2-#12 & 1-#12 GND	THWN	JB8	THERMOSTAT (SF-1)
C5B5	3/4	RGS	7-#12 & 1-#12 GND	THWN	JB8	SF-1 CONTROL STATION
C6A1	1	RGS	13-#10, 5-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 6A)	JB4
C6A2	1	RGS	5-#10 & 1-#10 GND	THWN	JB4	20A DISCONNECT FOR LFP-4
C6A3	1	RGS	8-#12 & 1-#12 GND	THWN	JB4	LFP-4 CONTROL STATION
C6B2	3/4	RGS	10-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 6B)	JB9
C6B3	3/4	RGS	3-#12 & 1-#12 GND	THWN	JB9	MD-2
C6B4	3/4	RGS	7-#12 & 1-#12 GND	THWN	JB9	SF-2 CONTROL STATION
C7A1	3/4	RGS	8-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7A)	SLIDE GATE SG-1
C7B1	3/4	RGS	8-#12 & 1-#12 GND	THWN	MCC-P47 (SECTION 7B)	SLIDE GATE SG-2
C7F2	3/4	RGS	2-#12 & 1-#12 GND	THWN	THERMOSTAT (UH-2)	UNIT HEATER UH-2
C7G2	3/4	RGS	2-#12 & 1-#12 GND	THWN	THERMOSTAT (UH-1)	UNIT HEATER UH-1
C7H2	3/4	RGS	2-#12 & 1-#12 GND	THWN	THERMOSTAT (UH-3)	UNIT HEATER UH-3
C7I2	3/4	RGS	2-#12 & 1-#12 GND	THWN	THERMOSTAT (UH-4)	UNIT HEATER UH-4
C1	1	PVC	2-#12 & 1-#12 GND	THWN	CP-47	UNDERPASS FLOAT SENSOR
C2	3/4	RGS	2-#12 & 1-#12 GND	THWN	FIRE ALARM CONTROL PANEL	AEGIS/INTRUSION ALARM PNL
C3	3/4	RGS	4-#12 & 1-#12 GND	THWN	FIRE ALARM CONTROL PANEL	ANNUNCIATOR IN CP-47
C4	3/4	RGS	4-#12 & 1-#12 GND	THWN	MOTOR OPER. VALVE	CONTROL PANEL CP47
C5	3/4	RGS	8-#12 & 1-#12 GND	THWN	AEGIS/INTRUSION ALARM PNL	SCADA PANEL SP47
C6	3/4	RGS	2-#12 & 1-#12 GND	THWN	AEGIS/INTRUSION ALARM PNL	WEST SINGLE DOOR
C7	3/4	RGS	2-#12 & 1-#12 GND	THWN	AEGIS/INTRUSION ALARM PNL	EAST SINGLE DOOR
C8	3/4	RGS	2-#12 & 1-#12 GND	THWN	AEGIS/INTRUSION ALARM PNL	WET WELL DOOR
C9	3/4	RGS	4-#12 & 1-#12 GND	THWN	AEGIS/INTRUSION ALARM PNL	OVERRIDE SWITCH
C10	3/4	RGS	4-#12 & 1-#12 GND	THWN	AEGIS/INTRUSION ALARM PNL	PB-1
C11	3/4	RGS	2-#12 & 1-#12 GND	THWN	PB-1	SOUTH DOUBLE DOOR (LEFT DOOR)
C12	3/4	RGS	2-#12 & 1-#12 GND	THWN	PB-1	SOUTH DOUBLE DOOR (RIGHT DOOR)
C13	3/4	RGS	4-#12 & 1-#12 GND	THWN	FIRE ALARM CONTROL PANEL	PLC IN SCADA PANEL SP47
C14	3/4	RGS	7-#14 & 1-#14 GND	THWN	SP1 FLOAT SWITCHES	CONTROL PANEL CP-SP1
C15	3/4	RGS	6-#14 & 1-#14 GND	THWN	SUMP PUMP CP-SP1 PANEL	CS-SP1
C16	3/4	RGS	6-#12 & 1-#12 GND	THWN	GAS MONIT. CONTROL PNL	PLC IN SCADA PANEL SP47
C17	3/4	RGS	2-#12 & 1-#12 GND	THWN	GAS MONIT. CONTROL PNL	MCC-P47 (SECTION 5B)
C18	3/4	RGS	2-#12 & 1-#12 GND	THWN	GAS MONIT. CONTROL PNL	MCC-P47 (SECTION 6B)
C19	3/4	RGS	8-#12 & 1-#12 GND	THWN	SUMP PUMP CP-SP1 PANEL	PLC IN SCADA PANEL SP47
C20	3/4	RGS	2-#12 & 1-#12 GND	THWN	GAS MONIT. CONTROL PNL	ALARM HORN
C21	3/4	RGS	24VDC; 4-20mADC, 600 Ω CABLE	COAX	GAS MONIT. CONTROL PNL	GAS SENSOR IN DISCH. CHAMBER
C22	3/4	RGS	24VDC; 4-20mADC, 600 Ω CABLE	COAX	GAS MONIT. CONTROL PNL	GAS SENSOR IN DRY WELL
C23	3/4	RGS	24VDC; 4-20mADC, 600 Ω CABLE	COAX	GAS MONIT. CONTROL PNL	GAS SENSOR IN WET WELL
C25	3/4	RGS	2-#12 & 1-#12 GND	THWN	MOISTURE CONTROL SWITCH	CONTROL PANEL CP-SP1
C26	3/4	RGS	4-#12 & 1-#12 GND	THWN	GAS MONIT. CONTROL PNL	ANNUNC. IN CONTROL PANEL CP47
C27	3/4	RGS	6-#12 & 1-#12 GND	THWN	SUMP PUMP CP-SP1 PANEL	AEGIS/INTRUSION ALARM PNL
C28	3/4	RGS	4-#12 & 1-#12 GND	THWN	SUMP PUMP CP-SP1 PANEL	CONTROL PANEL CP47

E2

KNIGHT

USER NAME = #USER#	DESIGNED - MCP	REVISED 4-19-12
	DRAWN - MLB	REVISED ADDENDUM A 5-23-12
PLOT SCALE = #SCALE#	CHECKED - MCP	REVISED -
PLOT DATE = #DATE#	DATE 03-22-2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONDUIT AND WIRING SCHEDULE

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
338/IL 59	2011-035-I	DUPAGE	181 158
CONTRACT NO. 60P41			
ILLINOIS FED. AID PROJECT			