

PLAN SYMBOLS

	CONDUIT CONCEALED IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS.		MOTOR STARTER SWITCH.
	CONDUIT CONCEALED IN OR UNDER FLOOR SLAB.		MAGNETIC MOTOR STARTER, STARTER SIZE AS INDICATED.
	CONDUIT TURNING UP.		COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH, STARTER SIZE AND FUSE RATING AS INDICATED.
	CONDUIT TURNING DOWN.		ON/OFF PUSHBUTTON STATION.
	DUPLEX CONVENIENCE RECEPTACLE, 20A 125V.		MOTOR *3*-INDICATES HORSEPOWER.
	SPECIAL RECEPTACLE - TYPICAL NOTATION: I-INDICATES EXAMPLE *1* = __A, ___/___V, __ POLE, __ WIRE, __NEMA *2* = __A, ___/___V, __ POLE, __ WIRE, __NEMA *3* = __A, ___/___V, __ POLE, __ WIRE, __NEMA		LIGHTING OR POWER PANEL, SURFACE.
	JUNCTION BOX. *AxBxC* INDICATES DIMENSIONS OF JUNCTION BOX IN EITHER INCHES OR CENTIMETERS.		DISTRIBUTION PANEL.
	SINGLE POLE SWITCH.		DRY TYPE TRANSFORMER, REFER TO TRANSFORMER SCHEDULE, *T45*-INDICATES TRANSFORMER TYPE FLOOR MOUNTED, UNLESS OTHERWISE INDICATED.
	DISCONNECT SWITCH, UNFUSED TYPE, SIZE AS INDICATED ON DRAWINGS. *xxA* INDICATES AMPERAGE.		TRANSFORMER-PAD MOUNT.
	DISCONNECT SWITCH, FUSED TYPE, SIZE AS INDICATED ON DRAWINGS. *xxAF* INDICATES FRAME SIZE. *yyAT* INDICATES TRIP SIZE.		CURRENT TRANSFORMER CABINET.
	MAGNETIC CONTACTOR, SIZE AS INDICATED ON DRAWINGS.		METER AND SOCKET.
	ADJUSTABLE SPEED DRIVE.		

ELECTRICAL ABBREVIATIONS

A	AMPERE	NTS	NOT TO SCALE
AFF	ABOVE FINISHED FLOOR	P	POLE
CU	COPPER	ø, PH	PHASE - ELECTRICAL
DIA	DIAMETER	RGS	RIGID GALVANIZED STEEL CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TX	TRANSFORMER
GND	GROUND	TYP	TYPICAL
HOA	HAND-OFF-AUTO	UG	UNDERGROUND
HP	HORSEPOWER	U.O.N.	UNLESS OTHERWISE NOTED
KVA	KILOVOLT-AMPERES	V	VOLT
KW	KILOWATT	W	WIRE
LMFC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	WP	WEATHERPROOF
NEC	NATIONAL ELECTRIC CODE		

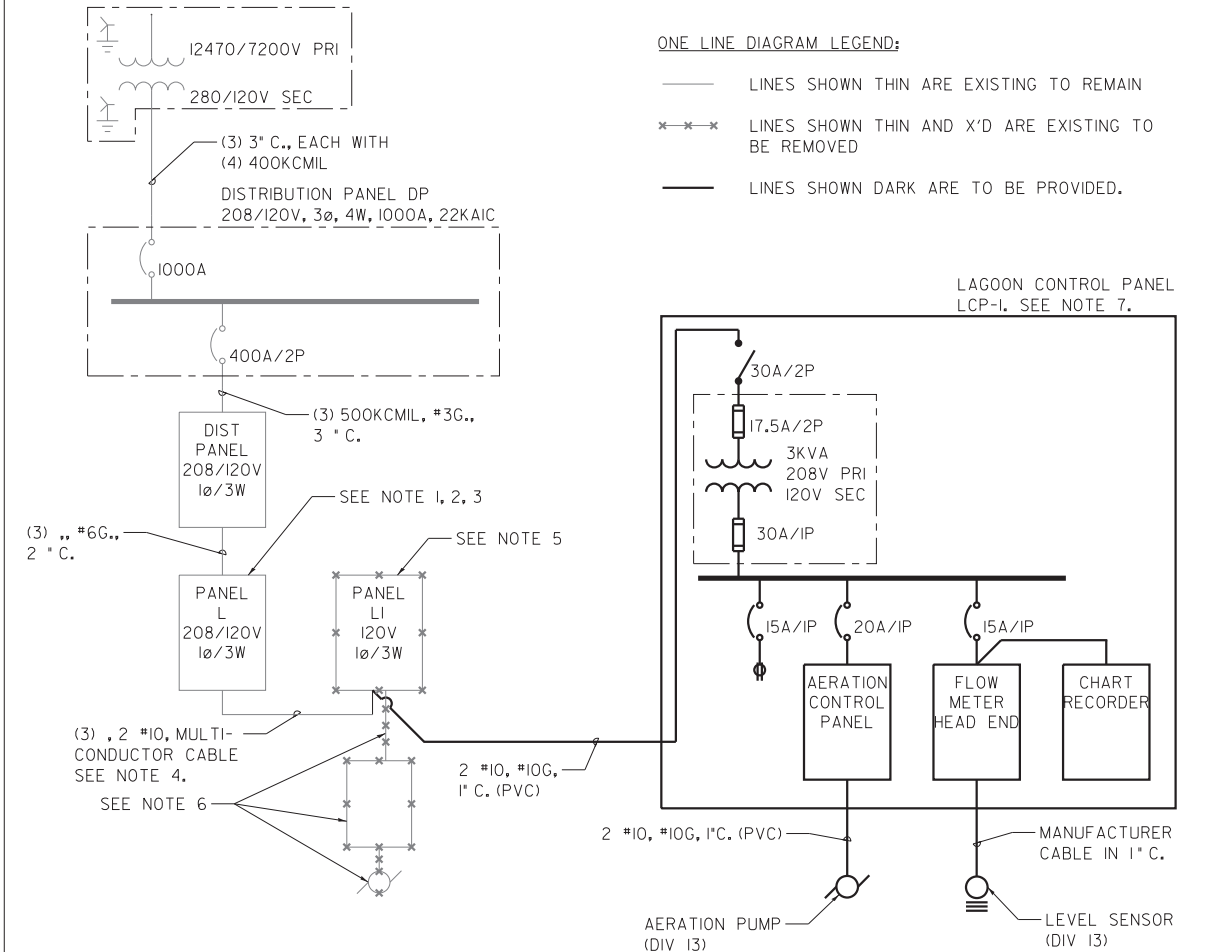
GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS ARE APPROXIMATE. ALL LOCATIONS SHALL BE FIELD VERIFIED.
- ALL WORK SHALL BE IN CONFORMANCE WITH THE AUTHORITY HAVING JURISDICTION REQUIREMENTS, INCLUDING CITY OF BLOOMINGTON CHAPTER 15 AND ELECTRICAL CODES. CODE BASED ON (NEC 2011).

ONE LINE DIAGRAM SYMBOLS

	CIRCUIT BREAKER (OPEN). *xxAF* INDICATES FRAME SIZE. *yyAT* INDICATES TRIP SIZE.
	CONTACT, NORMALLY OPEN (NO). (*TC*-WITH TIMED CLOSING).
	CONTACT, NORMALLY CLOSED (NC). (*TO*-WITH TIMED OPENING).
	DISCONNECT SWITCH UNFUSED. *zza* INDICATES SWITCH RATING
	DISCONNECT SWITCH AIR BREAK WITH FUSE. *zza* INDICATES FUSE RATING. *yyA* INDICATES SWITCH RATING.
	FUSE. *zza* INDICATES FUSE RATING.
	GROUNDING CONNECTION-SYSTEM AND OR EQUIPMENT.
	MOTOR AND LABEL. *3* DENOTES HORSEPOWER.
	PANELBOARD. *NH1* INDICATES DESIGNATION. *xxKAIC* INDICATES SHORT CIRCUIT RATING.
	MAGNETIC STARTER WITH NEMA SIZE INDICATED. DIGITAL-TYPE OVERLOAD RELAYS.
	TRANSFORMER, DRY TYPE, UNLESS OTHERWISE INDICATED. RATINGS AS INDICATED.
	CURRENT TRANSFORMER. *3*-INDICATES QUANTITY, *400-5A* INDICATES RATIO.
	3-PHASE, 4-WIRE WYE CONNECTION (GROUNDED NEUTRAL).
	CUSTOMER METER, DIGITAL TYPE, FOR OWNER INFORMATION.
	PILOT LIGHT. LETTER INDICATES COLOR. R=RED, B=BLUE, A=AMBER, W=WHITE, G=GREEN.
	HAND-OFF-AUTO CONTROL SWITCH.

ONE LINE DIAGRAM



ONE LINE DIAGRAM LEGEND:

- LINES SHOWN THIN ARE EXISTING TO REMAIN
- *-*- LINES SHOWN THIN AND X'D ARE EXISTING TO BE REMOVED
- LINES SHOWN DARK ARE TO BE PROVIDED.

NOTES

- REMOVE (1) 20A 1P CIRCUIT BREAKER FROM POLE 37. PROVIDE (1) 20A 2P CIRCUIT BREAKER ON POLES 37, 39. CIRCUIT BREAKER SHAL BE SQUARE D, FOR APPLICATION IN THIS EXISTING SQUARE D NOOB PANELBOARD.
- DISCONNECT PHASE CONDUCTOR FROM POLE 37, AND ASSOCIATED NEUTRAL CONDUCTOR FROM NEUTRAL BUS. UPON INSTALLATION OF NEW 2 POLE CIRCUIT BREAKER, RECONNECT THE DISCONNECTED CONDUCTORS. PROVIDE CORRECT (RED, BLACK) COLOR CODED TAPE IDENTIFICATION FOR PHASE A, B.
- MAKE CORRECTION TO PANELBOARD SCHEDULE. IDENTIFY POLE 37, 39 AS "LAGOON AERATION CONTROL PANEL".
- EXISTING MULTI-CONDUCTOR CABLE TO REMAIN. APPROXIMATELY 800 FEET IN LENGTH.
- PANEL LI TO BE REMOVED. PANEL LI IS AN EXISTING 1PHASE, 3W, 100A 12 POLE MAIN LUG ONLY PANEL, OPERATING AT 120V. PROTECT INCOMING CONDUIT AND CONDUCTORS.
- REMOVE BRANCH CIRCUIT WIRING FROM PANEL LI TO EXISTING AERATOR CONTROL PANEL, AERATOR CONTROL PANEL, BRANCH CIRCUIT WIRING TO PUMP MOTOR, AND PUMP MOTOR.
- LAGOON CONTROL PANEL, LCP-1, NEMA 4X STAINLESS STEEL, EXTERIOR OPERABLE FLANGE MOUNT DISCONNECT SWITCH, CONTROL TRANSFORMER WITH PRIMARY / SECONDARY FUSING, POWER DISTRIBUTION BLOCKS, DIN-RAIL MOUNTED CIRCUIT BREAKERS, AND DIVISION 13 (AERATION AND FLOW METERING)EQUIPMENT AS SHOWN, LOCATE IN SAME LOCATION AS EXISTING PANEL LI.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL ELECTRICAL INFORMATION
AND ONE LINE DIAGRAM**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	FUNKS GROVE RA IMP. 2014-	MC LEAN	17	16
CONTRACT NO. 70A53				
ILLINOIS FED. AID PROJECT				