

**IPSWICH ELECTRIC DEPARTMENT
FOWLER'S LANE SUBSTATION
BILL OF MATERIALS
RLC ENGINEERING, LLC**

REV	DATE				DESCRIPTION	BY	CHECKED	APPROVED	
2	6/2/2026				IFC ISSUED FOR CONSTRUCTION	CEH	JID	JID	
ITEM #	REV #	MARK	QTY	UNIT	MATERIAL DESCRIPTION	MANUFACTURER	CATALOG NUMBER	REFERENCE DWG. NUMBER	PROVIDED BY
MAJOR SUBSTATION EQUIPMENT									
1A	A	1A	1	EA	CIRCUIT BREAKER, 15 KV MAX, 110 KV BIL, 1200 A CONTINUOUS, 20 KA INTERRUPTING, VACUUM, 70-140 VDC CONTROL	ABB	1D11759	919506-E100	IPSWICH ELD
1	A	1	3	EA	JVT-150 SUPERBUTE 25 KV POTENTIAL TRANSFORMER, 150 KV BIL, 120/200 & 120/200:1	GENERAL ELECTRIC	766X030006	919506-E113	IPSWICH ELD
2	A	2	3	EA	SMD-40 POWER FUSED DISCONNECT, 25 KV, 150 KV BIL, 5A FUSE, HOOKSTICK, 45 DEGREE OPEN, POLYMER INSULATORS	S&C	192323	919506-E113	IPSWICH ELD
3	A	3	6	EA	HOOKSTICK, TYPE EH DISCONNECT SWITCH, 15KV, 1200A, POLYMER INSULATORS	SIEMENS	103C	919506-E113	IPSWICH ELD
CONDUCTOR & HARDWARE									
4	A	4	50	FT	CABLE, 250 KCMIL, BARE COPPER, 19 STRAND, SOFT DRAWN	AS APPROVED	AS APPROVED	919506-E113	IPSWICH ELD
5	A	5	20	FT	CABLE, 4/0 AWG, BARE COPPER, 19 STRAND, SOFT DRAWN	AS APPROVED	AS APPROVED	919506-E115	IPSWICH ELD
6	A	6	50	FT	CABLE, 4/0 AWG, BARE COPPER, 7 STRAND, SOFT DRAWN	AS APPROVED	AS APPROVED	919506-E116	IPSWICH ELD
7	A	7	50	FT	CABLE, 1/0 AWG, BARE COPPER, 19 STRAND, SOFT DRAWN	SEFCOR	TCRT-2014	919506-E113	IPSWICH ELD
8	A	8	3	EA	BRONZE TEE CONNECTOR, BOLTED, 1/0-500 MCM MAIN TO #4 - 300 MCM TAP	SEFCOR	TCRT-2014	919506-E113	IPSWICH ELD
9	A	9	12	EA	TERMINAL TAP, CABLE TO FLAT PAD, 4 HOLE NEMA, BRONZE, 1/0 SOLID TO 500 MCM	SEFCOR	FNCT-20-4B	919506-E113	IPSWICH ELD
10	A	10	6	EA	TERMINAL CONNECTOR, STUD TO 4 HOLE NEMA, BRONZE, TYPE SCB-5, 1.25 INCH STUD DIAMETER	AFL	SCB125-1/4F-4N4-T12	919506-E113	IPSWICH ELD
11	A	11	14	EA	TERMINAL TAP, CABLE TO FLAT PAD, 2 HOLE HEMA, BRONZE, #4 SOLID TO 250 MCM	AFL	TCVH25-2N	919506-E113	IPSWICH ELD
12	A	12	6	EA	TEE, 2" BUS TO 4-HOLE NEMA PAD	SEFCOR	TFT-58-4B	919506-E113	IPSWICH ELD
CONDUIT									
13	A	13	80	FT	CONDUIT, PVC, 2"	AS APPROVED	AS APPROVED	919506-E450	IPSWICH ELD
14	A	14	1	EA	CONDUIT, PVC, 2", EXPANSION FITTING	AS APPROVED	AS APPROVED	919506-E451	IPSWICH ELD
15	A	15	80	FT	CONDUIT, PVC, 4"	AS APPROVED	AS APPROVED	919506-E450	IPSWICH ELD
16	A	16	2	EA	CONDUIT, PVC, 4", EXPANSION FITTING	AS APPROVED	AS APPROVED	919506-E451	IPSWICH ELD
17	A	17	10	FT	UNISTRUT 1-5/8"	UNISTRUT	P1000HS	919506-E113	IPSWICH ELD

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18	A	18	6	EA	BOLTS, CARRIAGE TYPE, 5/8", 12" LONG W/ NUT	AS APPROVED	AS APPROVED	919506-E113	IPSWICH ELD
19	A	19	3	EA	CONDUIT CLAMP FOR UNISTRUT 1-1/2"	UNISTRUT	P1115	919506-E113	IPSWICH ELD
20	A	20	1	EA	CONDUIT BODY, RGS, 1-1/2", LR W/ COVER	AS APPROVED	AS APPROVED	919506-E113	IPSWICH ELD
21	A	21	1	EA	CONDUIT BODY, RGS 1-1/2", LL, W/ COVER	AS APPROVED	AS APPROVED	919506-E113	IPSWICH ELD
22	A	22	2	EA	CONDUIT BODY, RGS 1-1/2", TEE, W/ COVER	AS APPROVED	AS APPROVED	919506-E113	IPSWICH ELD
23	A	23	1	EA	CONDUIT BODY, RGS 1-1/2", LB, W/ COVER	AS APPROVED	AS APPROVED	919506-E113	IPSWICH ELD
24	A	24	20	FT	CONDUIT, RGS, 1-1/2"	AS APPROVED	AS APPROVED	919506-E113	IPSWICH ELD
25	A	25	1	EA	CONDUIT, LIQUID TIGHT, FLEXIBLE, STEEL REINFORCED, PVC COATED, GREY, UL LISTED LFMC (50' ROLL) 1-1/2"	ALLIED	6206-24-00	919506-E113	IPSWICH ELD
26	A	26	1	EA	CONDUIT, LIQUID TIGHT, FITTING THREADED 1-1/2"	ALLIED	LT150STL-ICKON	919506-E113	IPSWICH ELD
27	A	27	1	EA	CONDUIT, HUB, INSULATED, RGS, 2-1/2"	ALLIED	NHUBD250-ICKON	919506-E113	IPSWICH ELD
28	A	28	1	EA	JUNCTION BOX 12X12X6 NEMA 3R	HOFFMAN	A12R126HCLO	919506-E113	IPSWICH ELD
29	A	29	1	EA	PANEL FOR JUNCTION BOX 11"X11"	HOFFMAN	A12P12AL	919506-E113	IPSWICH ELD
GROUNDING									
30	A	30	3	EA	CONNECTOR, GROUND, COMPRESSION, C-TAP, COPPER, 4/0 AWG COPPER TO 4/0 AWG COPPER	BURNDY	YGHC29C29	919506-E113	IPSWICH ELD
31	A	31	1	EA	GROUNDING KIT FOR JUNCTION BOX	HOFFMAN	87552742	919506-E113	IPSWICH ELD
32	A	32	4	EA	CONNECTOR, GROUND, 1 CABLE TO BAR, BRONZE, #4/0 COPPER TO 1/4 TO 1/2 BAR, 1 BOLT	BURNDY	GB29T4	919506-E113	IPSWICH ELD
33	A	33	1	EA	CONNECTOR, GROUND, 2 CABLE TO BAR, BRONZE, #4/0 COPPER TO 1/4 TO 1/2 BAR, 1 BOLT	BURNDY	GC2929	919506-E113	IPSWICH ELD
34	A	34	1	EA	CONNECTOR, GROUND, SERVIT POST, 2/0 AWG BARE CU STRANDED, 17/32" - 16 TPI BOLT	BURNDY	KC26	919506-E113	IPSWICH ELD
35	A	35	1	EA	CONNECTOR, TERMINAL, COMPRESSION, STRAIGHT, STANDARD BARREL, 1-HOLE, #4 AWG CU STRAND	BURNDY	YAV4CL-TC516FX	919506-E114	IPSWICH ELD
36	A	36	1	EA	CONNECTOR, GROUND, SERVIT POST, #4 AWG BARE CU STRANDED, 3/8" - 16 TPI BOLT, (FOR JUNCTION BOX GROUNDING)	BURNDY	KC23	919506-E114	IPSWICH ELD
37	A	37	3	EA	CONNECTOR, GROUND, PARALLEL, GROOVE, BRONZE, 4 Sol. - 4/0 Str. (0.204 - 0.528) COPPER, BOTH CONDUCTOR, 2 BOLTS	ANDERSON	LC-4025	919506-E113	IPSWICH ELD
CONTROL HOUSE									
38	A	38	1	EA	CABLE TRAY 18" X 10' X 4" ALUMINUM	EATON / BLINE	RSI04A06SL18120	5-E-7-3	IPSWICH ELD
39	A	39	1	EA	SPLICE, CABLE TRAY 4" (PAIR)	EATON / BLINE	R4A-SSP	5-E-7-3	IPSWICH ELD
40	A	40	2	EA	BONDING JUMPER	EATON / BLINE	99-30	5-E-7-3	IPSWICH ELD
41	A	41	1	EA	HANGING ROD BRACKET 3/8" (PAIR)	EATON / BLINE	9ZN-R238	5-E-7-3	IPSWICH ELD
42	A	42	2	EA	THREADED ROD 3/8" X 36"	EATON / BLINE	B655-3/8	5-E-7-3	IPSWICH ELD
43	A	43	1	EA	DROP OUT 4"	EATON / BLINE	RAA-OUT-18	5-E-7-3	IPSWICH ELD

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TRENCH									
44	A	38	2	EA	SUPPORT BRACKET, COMPONENT TRENCH, 20" WIDTH,	TRENWA	C200815	919506-E450-3	IPSWICH ELD
45	A	39	4	EA	TRENCH LID, COMPONENT TRENCH, 20" x 30", FIBER REINFORCED CONCRETE, FRC	TRENWA	AA2030	919506-E450-3	IPSWICH ELD
46	A	40	4	EA	TRENCH SIDEWALL, COMPONENT TRENCH, 60" x 16"	TRENWA	B1660	919506-E450-3	IPSWICH ELD