

ITEM	QUAN.	DESCRIPTION	DRG. OR CAT. NO.
<p><u>CONTINUATION OF NOTES</u></p> <p>(From Drawing #D-81085-1)</p> <p>2. All aluminum electrical contact surfaces are to be properly prepared in the field and sealed with a corrosion inhibitor.</p> <p>3. (14'-0") indicates that a 14'-0" length of bus conductor is to be installed at the particular location noted on the drawing. This is an approximate length. The exact length is to be determined on the job site.</p> <p>4. All below grade grounding materials and above grade grounding cable is furnished by the City of St. Charles.</p> <p>5. Equipment not identified with an item number and thereby not listed on the List of Materials sheets herein, is furnished by the City of St. Charles.</p>			

E. E. R. POWER ENGINEERING, INC.



LIST OF MATERIALS
 12 KV - ONE BAY ADDITION
 SUBSTATION NO. 3
 CITY OF ST. CHARLES, ILLINOIS

A-81085-M
 SHEET 1 OF 4

APP. DATE 8-24-82

ITEM	QUAN.	DESCRIPTION	DRG. OR CAT. NO.
1	1	TPST 15 KV 110 KV BIL 600 amperes continuous, 40,000 amperes momentary, vertical break horn-gap switch, horizontally upright mounted, manually group operated with NEMA TR-205 gray glaze station post insulators	
2	3	SPST 15 KV 110 KV BIL 1200 amperes continuous, 61,000 amperes momentary, hook stick operated disconnect switches, inverted mounting, with NEMA TR-205 gray glaze station post insulators and tinned terminal pads.	
3	9	SPST 15 KV 110 KV BIL 600 amperes continuous, 40,000 amperes momentary, inverted mounting, hook stick operated disconnect switches, with NEMA TR-205 gray glaze station post insulators and tinned terminal pads on the jaw end.	
4	18	SPST 15 KV 110 KV BIL 600 amperes continuous, 40,000 amperes momentary, hook stick operated disconnect switches, vertical mounting, with NEMA TR-205 gray glaze station post insulators.	
5	15	15 KV 110 KV BIL NEMA TR-205 gray glaze station post insulators	O. B. #231002
6	6	Aluminum bodied bolted type bus clamps for 2" schedule 40 aluminum bus conductor - 3" d.b.c.	
7	9	Bronze bodied bolted type bus clamps for 1/2" I.P.S. copper pipe bus - 3" d.b.c.	
8	1 lot	Aluminum bodied bolted type bus clamps for schedule 40 aluminum tubular bus sizes as indicated below; consisting of:	
8A	6	Terminals for 2" with 4-hole pad	
8B	6	Terminals for 2" with 2-hole pad	

E. E. R. POWER ENGINEERING, INC.



LIST OF MATERIALS
 12 KV - ONE BAY ADDITION
 SUBSTATION NO. 3
 CITY OF ST. CHARLES, ILLINOIS

A-81085-M
 SHEET 2 OF 4

APP. DATE 8-24-82

ITEM	QUAN.	DESCRIPTION	DRG. OR CAT. NO.
8C	6	Terminals for 1" with 2-hole pad	
8D	3	Couplers for 2"	
8E	6	Tees for 2" run & tap	
8F	6	Tees for 2" run to 1" tap	
8G	3	Flexible stud connectors for stud to 2"	
8H	6	Terminals for 1½" with 2-hole pad	
8I	3	Couplers for 2" run to #4-250 MCM SAC tap	
9	3	S&C type SMD-20 14.4 KV 200E amperes, 14,000 amperes interrupting rating, right angle fuse mountings with NEMA TR-205 gray glaze station post insulators.	#192232-D
10	3	S&C type SMU-20 14.4 KV 1E amperes fuse units, Speed TCC 115-1	#702001
11	1 lot	Bronze bodied bolted type bus connectors for ½" I.P.S. copper pipe bus or 4/0 copper cable, consisting of:	
11A	27	Terminals for ½" with 2-hole pad	
11B	9	Tees for ½" run & tap	
11C	18	Couplers for ½" to 4/0	
11D	18	Terminals for 4/0 with 2-hole pad	
12	1 lot	Aluminum tubular bus conductor of the following schedule 40 sizes, alloy 6063-T6:	
12A		2"	
12B		1½"	
12C		1"	

E. E. R. POWER ENGINEERING, INC.



LIST OF MATERIALS
 12 KV - ONE BAY ADDITION
 SUBSTATION NO. 3
 CITY OF ST. CHARLES, ILLINOIS

A-81085-M
 SHEET 3 OF 4

APP. DATE 8-24-82

ITEM	QUAN.	DESCRIPTION	DRG. OR CAT. NO.
13 13A 13B 13C	1 lot 5	Above grade grounding clamps, consisting of: Clamps for (1) 4/0 copper cable to flat surface Clamps for (2) 4/0 copper cables to flat surface Ground lugs for 4/0 copper cable for reclosers and transformer, with 2-hole pad	
14	1 lot	Structural aluminum for a one bay 12 KV switching and pothead structure, with aluminum bolts for field erection, hot-dipped galvanized steel bolts for equipment mounting, and stainless steel anchor bolts. Field erection bolts to be 2024-T4 alloy, anodized and lubricated, nuts to be 6061-T6 alloy, anodized and lubricated. Aluminum members to be shipped "knocked-down", but steel stamped and indexed for easy field identification and rapid field erection.	Electrical Layout: #D-81085-1 Anchor Bolt Layout: #C-81085-1

E. E. R. POWER ENGINEERING, INC.



LIST OF MATERIALS

12 KV - ONE BAY ADDITION
SUBSTATION NO. 3
CITY OF ST. CHARLES, ILLINOIS

A-81085-M
SHEET 4 OF 4

APP. DATE 8-24-82