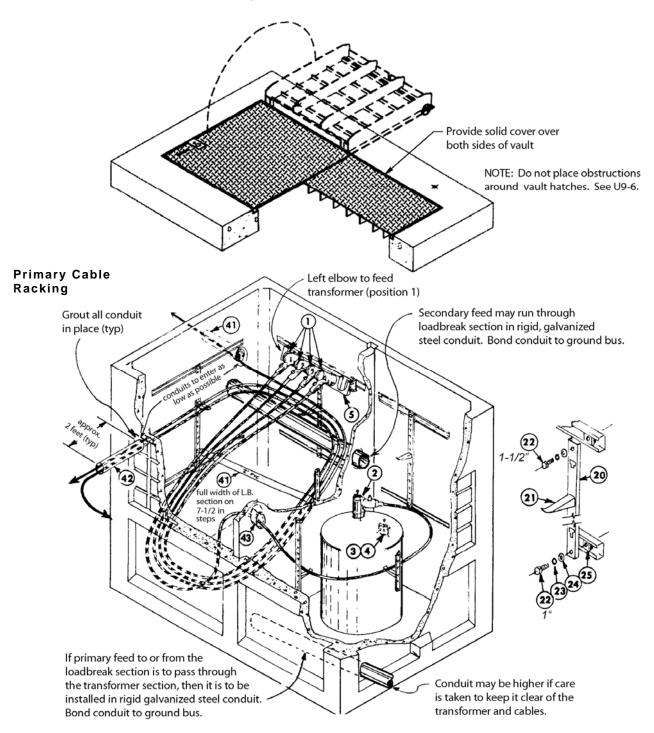
CONSTRUCTION GUIDELINE

standard number: U9-5

superseding: September 10, 2008 effective date: July 20, 2010

page: 1 of 4

577 VAULT TRANSFORMER AND JUNCTION BOX INSTALLATION, GROUNDING AND CONNECTIONS



standards coordinator	standards manager	unit director	
Cez_ Curtis Lu	Goldhil John Shipek	Janula S.	Pam S. Johnson
	·		

CONSTRUCTION GUIDELINE

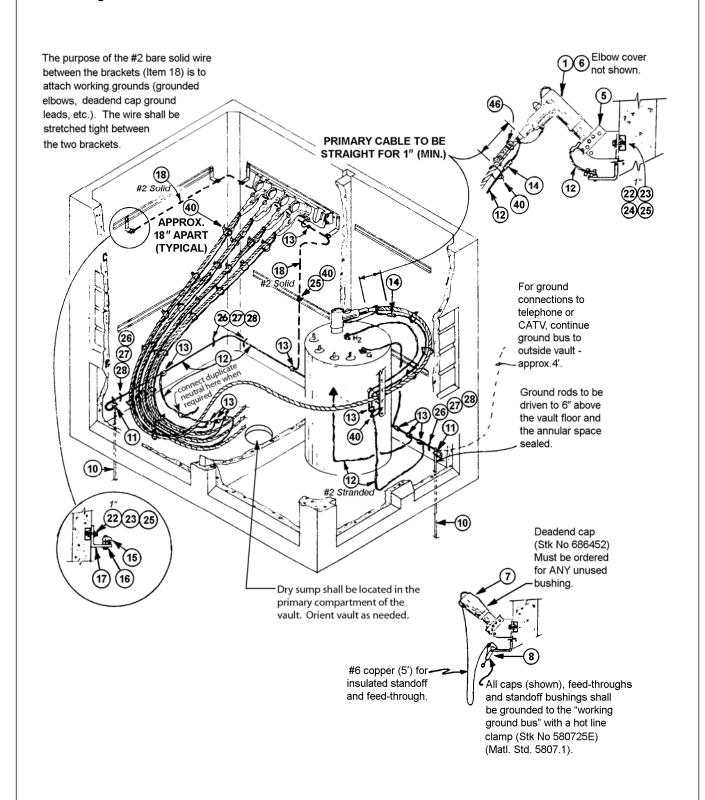
577 Vault Transformer and Junction Box Installation, Grounding and Connections

standard number: U9-5

superseding: September 10, 2008 effective date: July 20, 2010

page: 2 of 4

Grounding



CONSTRUCTION GUIDELINE

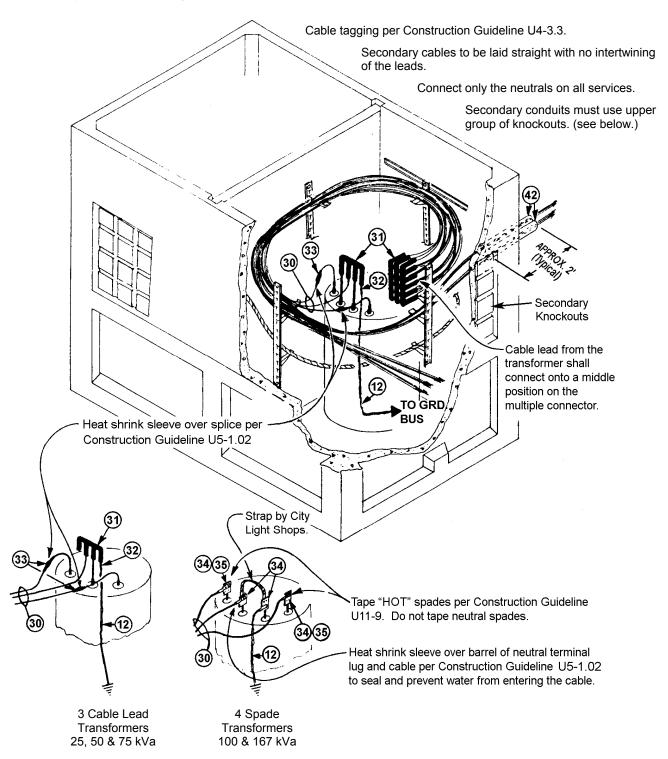
577 Vault Transformer and Junction Box Installation, Grounding and Connections

standard number: **U9-5**

superseding: September 10, 2008 effective date: July 20, 2010

page: 3 of 4

Secondary Cable Racking and Connections



CONSTRUCTION GUIDELINE

577 Vault Transformer and Junction Box Installation, **Grounding and Connections**

standard number: U9-5

superseding: September 10, 2008 July 20, 2010 4 of 4 effective date:

page:

Material List

Item	Quantity	Description	Stock No.
1	3 or 4	ELBOW, Load Break, 15.2/26.3 kV	686445
2	1	ELBOW, Dead Break, 15.2 kV to ground	686416
3	0 or 1	RECEPTACLE, Dead End Cap, for 2 bushing transformers	686411
4	0 or 1	BAIL, Hold Down for dead end caps	686563
5	1	JUNCTION BOX, Load Break 3 Position	686454
		4 Position	686455
6	3 or 4	COVER, Load Break Elbow, 1 per elbow	686467
7	As required	CAP, Insulating Dead End	686452
8	As required	CLAMP, Hot Line Tap	580725E
10	2	ROD, Ground, 5/8" x 8' copper clad	564238E
11	2	CLAMP, Ground Rod, medium duty, 5/8" to #2	564012E
12	70' (estimate)	WIRE, #2 Bare, stranded copper, soft drawn	610434
13	9 (estimate)	CONNECTOR, Parallel #2 - #2 crimpet	677326E
14	4 or 5	SPLICE, Straight, copper, #2 - #2, 1 per elbow	677357E
15	4	CONNECTOR, Grounding, cable To flat, #4 - #2/0	676674
16	4	WASHER, Cut, bronze, 3/8"	788024E
17	4	BRACKET, Ground Support, Unistrut	686466
18	12´	WIRE, #2 Bare, solid copper HD	610006
20	7	RACK, 30" - 18 Hole, galvanized	721666E
21	3 (estimate)	HOOKS, Cable Rack, galvanized steel 4"	7206.2
	7 (estimate)	7-1/2″	7206.2
	_	14"	7206.2
22	13 (estimate)	BOLT, Machine, zinc plated 1/2" x 1"	784825E
	7 (estimate)	BOLT, Machine, zinc plated 1/2" x 1-1/2"	784827E
23	20 (estimate)	LOCK WASHER, galvanized 1/2"	584255E
24	13 (estimate)	FLAT WASHER, galvanized 1/2"	585025E
25	20 (estimate)	NUT, Unistrut, P4010 1/2"	723607E
26	4 (estimate)	CABLE TIE, plastic, 0.184" x 7"	735805E
27	4 (estimate)	MOUNTING BASE, for cable tie, 1/2"	
28	4 (estimate)	ANCHOR, Stud Bolt, 1/4" x 1-3/4"	
30	36' (estimate)		780091E 613735
	(4/0 For 50 kVA transformers	613735
		500 for 75 kVA transformers	613740
		500 for 100 kVA transformers	613740
31	3 or 4	CONNECTOR, Multiple, 4 through 8 positions, including connectors, sleeves and covers, as specified, refer to Construction Guideline U5-1.10	-
32	1	CONNECTOR, Lug #2, Cu for transformer ground	012729
33	2 or 0	SPLICE, Straight, copper 2/0 - 2/0	677360
		4/0 - 4/0	677362
		500 - 500	677367
34	0 or 3	TERMINAL, Compression Lug, copper 500 kcmil	677091
	0 or 1	#2 (transformer ground)	677071
35	0 or 8	Nuts, Bolts, Washers and Tape (refer to Construction Guideline U11-	9) –
10	35 (estimate)	TIE STRAP, plastic 7"	735806
	5 (estimate)	14"	735811
41	10' (estimate)	CONDUIT, PVC, Schedule 40, 2"	734530
12	10' (estimate)	CONDUIT, PVC, Schedule 40, 3"	734532
13	1	CABLE PROTECTOR, nylon	731801E
46	3 or 4	TAG, Cable Identification	735800E