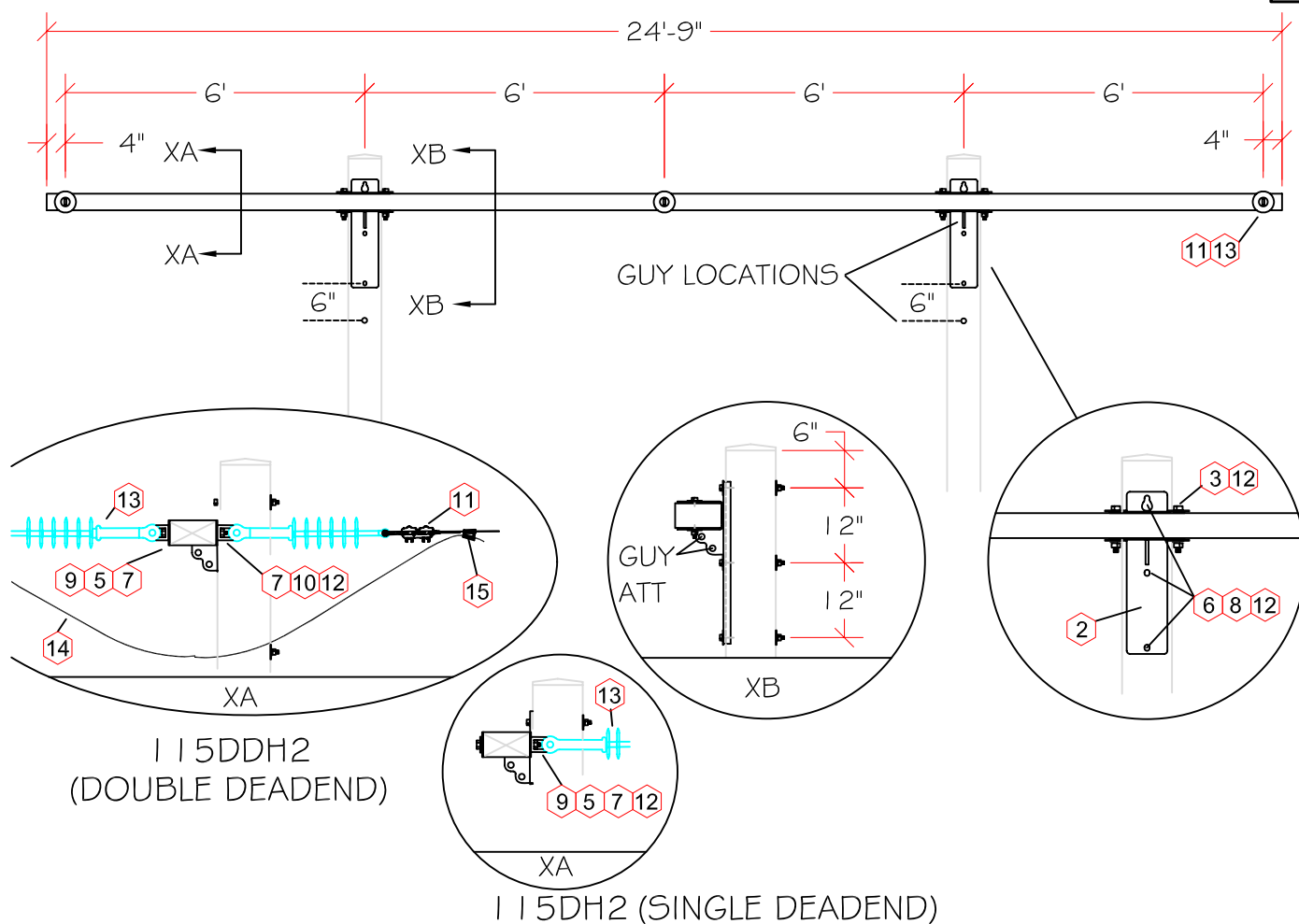


Construction Standards and Material Specifications



Bringing Energy To Life™



ITEM	DESCRIPTION	SINGLE	DOUBLE	STOCK#
		115DH2	115DDH2	
1	CROSSARM 24'-9" FIBERGLASS	1	1	1082400
2	BRACKET FIBER XARM DE	2	2	1083400
3	xxx MACH BOLT - 8 x 3/4"	4	4	3040800
4	xxx MACH BOLT - 10 x 3/4"	4	4	3041000
5	xxx MACH BOLT - 12 x 3/4"	3	3	3041200
6	xxx MACH BOLT - 14 x 3/4"	6	6	3041400
7	xxx WASH - SQ FLAT - 4-13/16"	6	6	3296000
8	xxx WASH - SQ CURV - 4-13/16"	6	6	3306000
9	xxx D EYE	3	3	3990100
10	xxx EYENUT - 3/4"	0	3	3232000
11	DEADEND	3	6	AS REQ'D
12	xxx WASH - DBL COIL LOCK - 3/4"	13	13	3331000
13	SUSPENSION 115kv POLY INSUL	3	6	4070000
14	JUMPER	0	3	AS REQ'D
15	CONNECTOR	0	6	AS REQ'D

DATE: 08/20/04

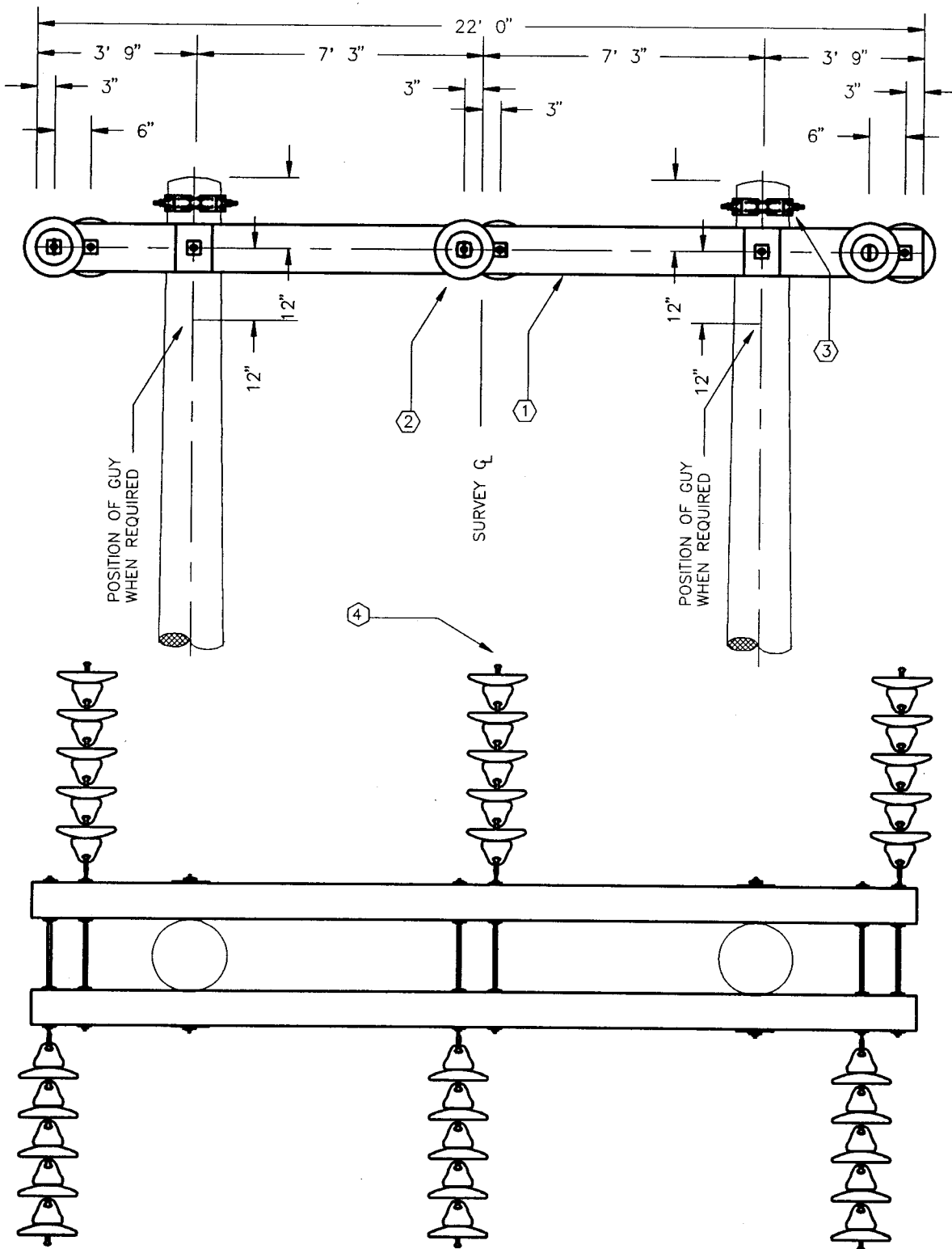
REV: 5/8/2007

DRAWN: SC/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPECBOOK\200-TRNSMSN\115KV\115DH2

PG 1
OF 1**GROUP: TRANSMISSION 115KV - DEADEND****TYPE: 'H' FRAME - 2 POLE - 24FT FIBERGLASS**OPTIONS: SINGLE DEADEND
DOUBLE DEADEND**115 DH2****115 DDH2**



DATE 4-20-83

SCALE

DRAWN HOARE

REVISED 9-6-84


S. COMM.

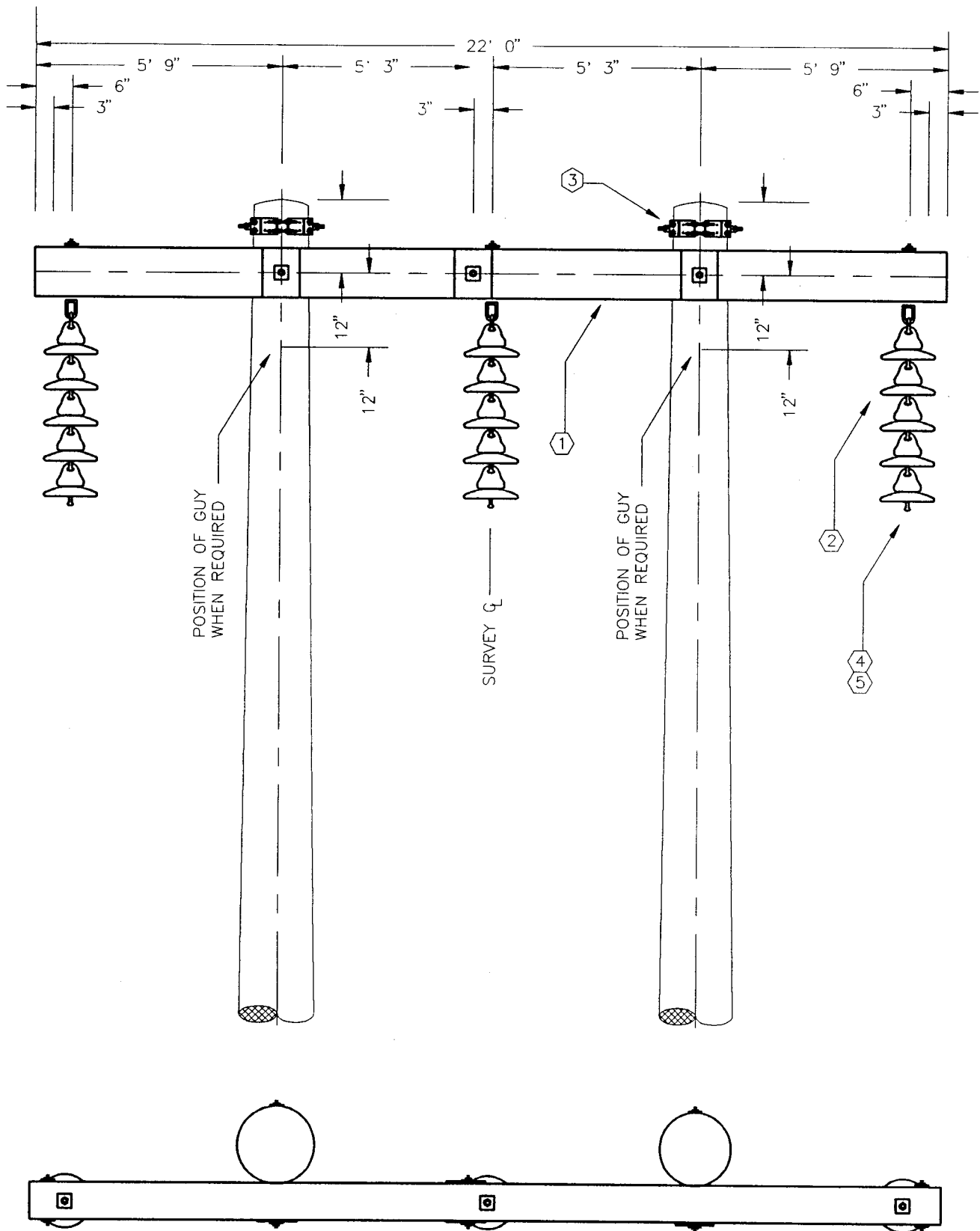
69KV "H" FRAME DDE 5-3/4 X 7-3/4 X 22' DBL



PAGE 1
OF 2

T A 1 7 3 - 3 2 0

SPEC CODE	ITM. NO.	QTY.	DESCRIPTION	TYPE CODE SET CODES
T A173-320			69KV "H" FRAME DDE 5-3/4 X 7-3/4 X 22' DBL	DDE XARM
	1	1	XARM DBL "H" FRAME	TB426-000
	2	6	INS 69KV SUSP TYP NUTEYE	TB143-070
			ADDITIONAL SET CODES:	
	3	2	POLE BANDS 4 WAY 6 - 10-1/2"	TD105-000
	3	2	POLE BANDS 4 WAY 11 - 16"	TD105-001
	3	2	POLE BANDS 4 WAY 7-1/2 - 12"	TD105-002
	4	3	DEADEND AUTO (SEE CHART B300-001)	
	4	3	DEADEND BODY (SEE CHART B300-001)	
	5	3	JUMPER (SEE CHART B210-501)	
DATE 4-20-83	REVISED 9-6-84	69KV "H" FRAME DDE 5-3/4 X 7-3/4 X 22' DBL		
DRAWN HOARE				
S. COMM.				
		PAGE 2 OF 2	T A 1 7 3 - 3 2 0	



DATE 4-19-82

SCALE

DRAWN HOARE

REVISED 9-5-84


S. COMM.

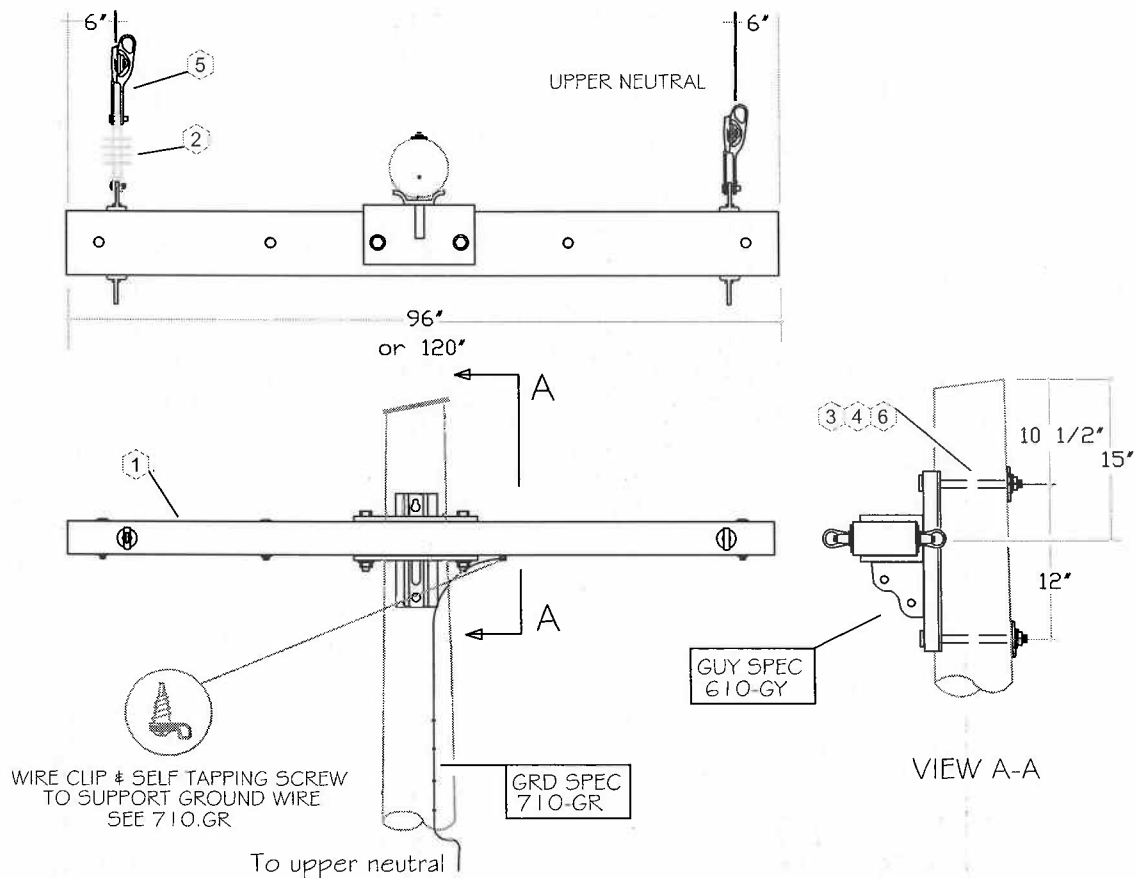
69KV "H" FRAME TANG 5-3/4 X 7-3/4 X 22' SGL INS 10" SUSP



PAGE 1
OF 2

T A 1 7 1 - 3 1 1

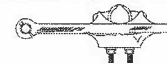
SPEC CODE	ITM. NO.	QTY.	DESCRIPTION	TYPE CODE SET CODES
T A171-311			69KV "H" FRAME TANG 5-3/4 X 7-3/4 X 22' SGL INS 10" SUSP	TANG XARM
	1	1	XARM SGL "H" FRAME	TB416-000
	2	3	INS 69KV SUSP TYP D EYE MACH BOLT	TB143-060
			ADDITIONAL SET CODES:	
	3	2	POLE BANDS 4 WAY 6 - 10-1/2"	TD105-000
	3	2	POLE BANDS 4 WAY 11 - 16"	TD105-001
	3	2	POLE BANDS 4 WAY 7-1/2 - 12"	TD105-002
	4	3	ARMOR ROD (ACSR)	TAR___AS
	4	3	ARMOR ROD (AAC)	TAR___A
	4	3	ARMOR ROD (AAAC)	TAR___AA
	5	3	TIE (CLAMP) (ALUMINUM)	TTCPS___AL
	5	3	TIE (CLAMP) (COPPER)	TTCPS___CU
DATE 4-19-82	REVISED	69KV "H" FRAME TANG 5-3/4 X 7-3/4 X 22' SGL INS 10" SUSP		
DRAWN HOARE				
S. COMM.				
				PAGE 2 OF 2
		T A 1 7 1 - 3 1 1		



A4-3.16 (8 FT)
A4-3.17 (10 FT)

(NOTE USE +A4-3.16, +A4-3.17 for 25KV)

BOLTED DEADEND



1/0 ACSR - DDEBS1/0AS - 6530700
4/0 ACSR - DDEBS4/0AS - 6531200
556.5 ACSR - DDEBS556A - 6531300

ITEM	DESCRIPTION	QNTY		STOCK #
		A4-3.16	A4-3.17	
1A	CROSSARM - FBRGLS DE ASSMBLY - 8' x 4"x7"	1	0	1095008
1B	CROSSARM - FBRGLS DE ASSMBLY - 10' x 4"x7"	0	1	1095500
2	SUSPENSION INSUL - 15KV POLY	1	1	4021500
+2	SUSPENSION INSUL - 25KV POLY	1	1	4022500
3	xxx - BOLT MACH - 14 X 3/4"	2	2	3041400
4	xxx - WASHER - sq-curv-3	2	2	3303900
5	DEADEND BOLTED (SEE 1000.DE)	2	2	AS REQ'D
6	xxx - WASHER - dbl coil lock - 5/8"	2	2	3330900

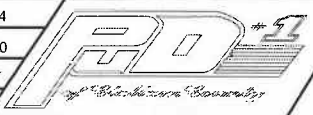
REV: Change 5/8"bolt to 3/4" for Shakespear bracket 13/16" hole.

DATE: 08/20/04

REV: 10/29/2010

DRAWN: JK/DT

CHK: RA/DP

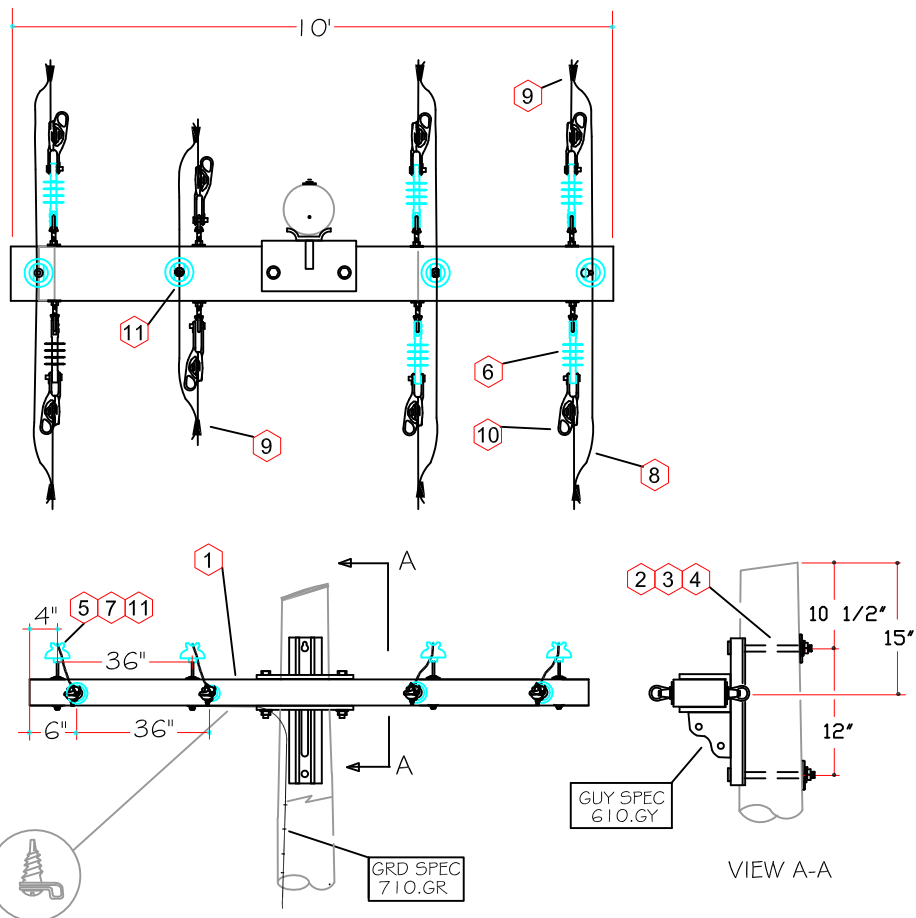


PG 1
OF 1

FILE: H:\ENGSTANDARDS\06 SPECBOOK\300-DISTRIB_OH\310-1 PHSA4-3.17

GROUP: PRIMARY - SINGLE PHASE - DEADEND
TYPE: SINGLE CROSSARM - UPPER NEUTRAL

OPTIONS:	8FT- CROSSARM	A4-3.16
	10FT- CROSSARM	A4-3.17



WIRE CLIP & SELF TAPPING SCREW
TO SUPPORT GROUND WIRE
SEE 710.GR

C5-3.17

(NOTE +C5-3.17 for 25KVA)

ITEM	DESCRIPTION	QNTY	STOCK #
		C5-3.17	
1	CROSSARM - FBRGLS DE ASSMBLY - 10' x 4"x7"	1	1095510
2	xxx - BOLT MACH - 14 X 3/4	2	3041400
3	xxx - WASHER - sq-curv-4	2	3306000
4	xxx - WASHER - dbl coil lock - 3/4	2	3331000
5	PIN TYPE INSULATOR 15KV	4	4011500
+5	PIN TYPE INSULATOR 25KV	4	4012500
6	SUSPENSION INSUL - 15KV POLY	6	4021500
+6	SUSPENSION INSUL - 25KV POLY	6	4022500
7	xxx CROSSARM PIN	4	4500100
8	JUMPER - (SEE 1200.CJ)	4	AS REQ'D
9	xxx CONNECTOR - AMPACT (SEE 1000.CN)	8	AS REQ'D
10	DEADEND - BOLTED (SEE 1000.DE)	8	AS REQ'D
11	xxx 4 SOL AL TIE WIRE	8FT	5430500

REV: 5/8" TO 3/4" FOR SHAKESPEARE

DATE: 01/10/06

REV: 10/29/2010

DRAWN: JK/DT

CHK: RA/DP



PG 1
OF 1

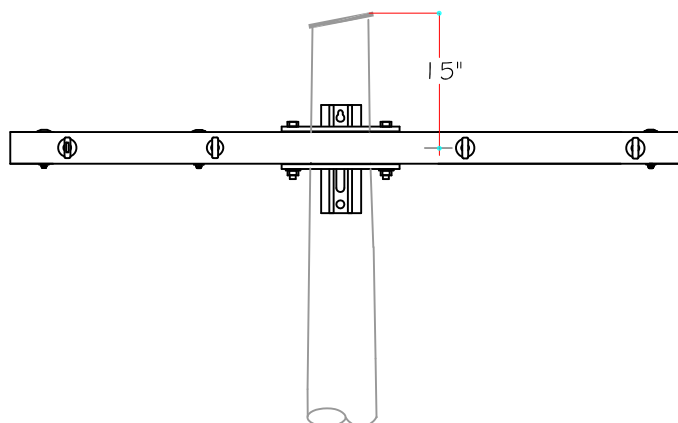
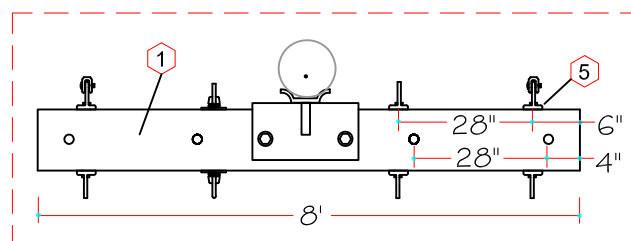
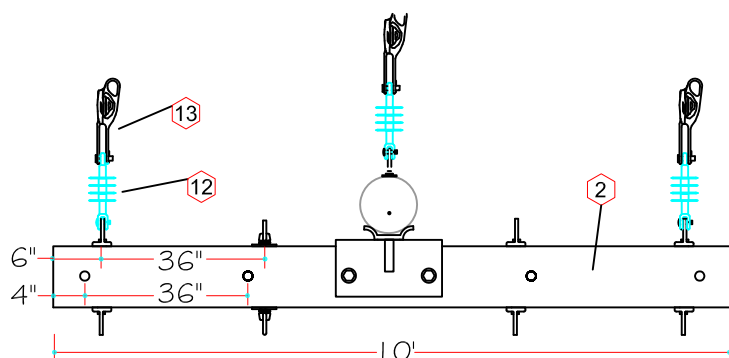
GROUP: PRIMARY - THREE PHASE - DOUBLE DEADEND
TYPE: SINGLE CROSSARM -10' FIBERGLASS - UPPER NEUTRAL

OPTIONS:

C5-3.17

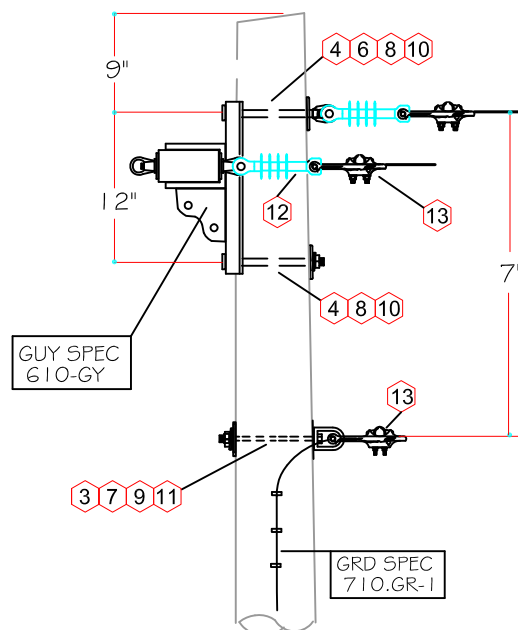
FILE: H:\ENGSTANDARDS\06 SPECBOOK\300-DISTRIB_OH\330-3 PHS\C5-3.17

C4-3.6 - 8FT ARM



C4-3.7 - 10FT ARM

(+C4-3.7 for 25kv)



VIEW A-A

(NOTE: USE A PLUS SIGN BEFORE THE ASSEMBLY NUMBER FOR 25KV APPLICATIONS, +C4-3.6, +C4-3.7)

ITEM	DESCRIPTION	8-FT	10-FT	STOCK #
		C4-3.6	C4-3.7	
1	CROSSARM - FBRGLS DE ASSMBLY - 8' x 4"x7"	1	0	1095508
2	CROSSARM - FBRGLS DE ASSMBLY - 10' x 4"x7"	0	1	1095510
3	xxx - BOLT MACH - 12 X 5/8	1	1	3031200
4	xxx - BOLT MACH - 14 X 3/4	2	2	3041400
5	xxx - EYENUT - 5/8	1	1	3231000
6	xxx - EYENUT - 3/4	1	1	3232000
7	XXX - WASHER - sq curv-3	1	1	3303900
8	xxx - WASHER - sq-curv-4	2	2	3306000
9	xxx - WASHER - dbl coil lock - 5/8	1	1	3330900
10	xxx - WASHER - dbl coil lock - 3/4	2	2	3331000
11	XXX - D-EYE - 5/8	1	1	3990100
12	SUSPENSION INSUL - 15KV POLY	3	3	4021500
+12	SUSPENSION INSUL - 25KV POLY	3	3	4022500
13	DEADEND - BOLTED (SEE 1000.DE)	4	4	AS-REQ'D

REV: 5/8" TO 3/4" BOLT FOR SHAKESPEAR

DATE: 01/10/06

REV: 10/29/2010

DRAWN: JK/DT

CHK: RA/DP

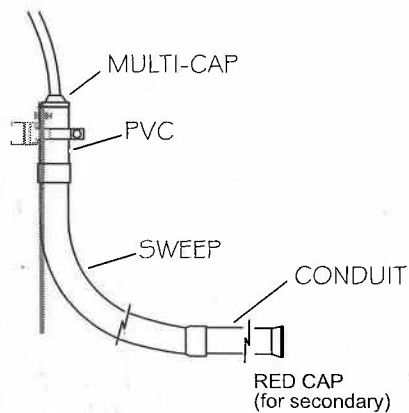
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PG 1
OF 1

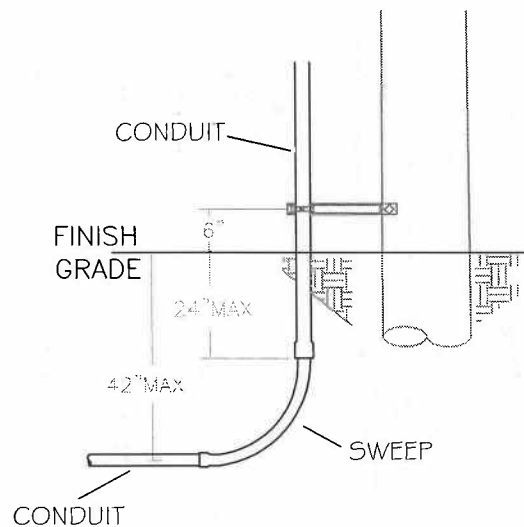
GROUP: PRIMARY - THREE PHASE - DEADEND
TYPE: SINGLE CROSSARM - FIBERGLASS- LOWER NEUTRAL

OPTIONS: 8' - FIBERGLASS DE ASSEMBLY
 10' - FIBERGLASS DE ASSEMBLY

C4-3.6
C4-3.7



CONDUIT & SWEEPS
PADMOUNTS



CONDUIT & SWEEPS
RISERS

	SIZE					
	1-1/2"	2"	2-1/2"	3"	4"	6"
CONDUIT						
SCHEDULE-40 (PVC)		8030800		8031200	8031600	8032400
SCHEDULE-80 (PVC)		8040800		8041000	8041200	8041400
EMPTY HDPE DUCT		8040700		8031230		
SPLIT DUCT (SPECIAL USE)		8052000		8053000	8054000	
FLEX DUCT		8065000		8065300	8065600	
SWEEPS-PVC						
SWP-22-1/2°	8131900	8132600		8133300	8135000	
SWP-45°	8132000	8132700		8133400	8135100	
SWP-90°	8132100	8132800		8133500	8135200	8136400
SWEEPS-GALV						
SWP-G 45°					8124700	
SWP-G 90°		8122400		8123400	8124900	8126100

DATE: 08/20/04

REV: 03/27/06

DRAWN: JK/DT

CHK: RA/DP

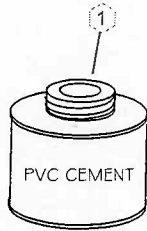
FILE: H:\ENGSTANDARDS\05 SPECBOOK\400W480\480-CSF-1

PG 1
OF 1

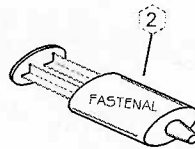
GROUP: UNDERGROUND DISTRIBUTION
TYPE: CONDUIT, SWEEPS & FITTINGS

OPTIONS: SEE ABOVE

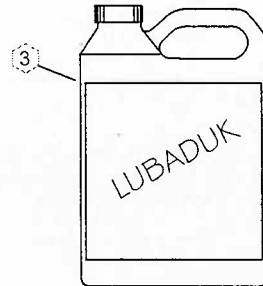
480-CSF-1



PVC CEMENT
8995900



PVC/CIC CEMENT (EPOXY)
8995950



CABLE LUBE
9079900

PVC CEMENT AND EPOXY

ITEM	DESCRIPTION	STOCK #	SPEC. CODE
1	xxx - PVC CEMENT	8995900	PVC CEM.
2	XXX - PVC/CIC CEMENT "FASTENAL EPOXY"	8995950	PVC-CIC CEM

CABLE LUBRICANT

ITEM	DESCRIPTION	STOCK #	SPEC. CODE
3	xxx - CABLE LUBE	9079900	CABLE LUBE

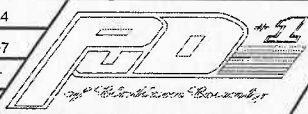
DATE: 08/20/04

REV: 11/15/2007

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPECBOOK\400\480\480-CSF-1

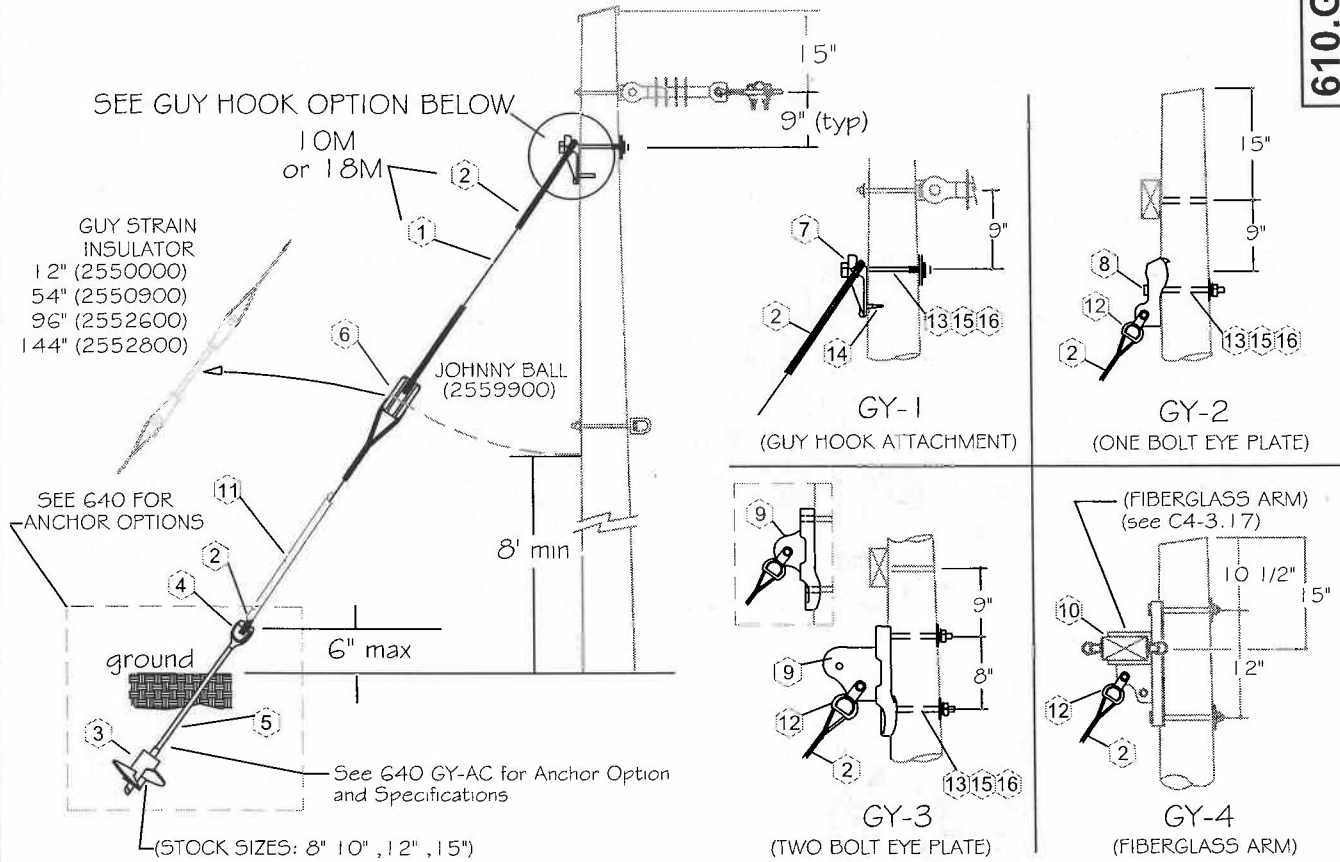


PG 1
OF 1

GROUP: UNDERGROUND DISTRIBUTION
TYPE: UNDERGROUND MISC.

OPTIONS: SEE ABOVE

480-CSF-4



(NOTE: USE A +PLUS SIGN BEFORE THE ASSEMBLY NUMBER FOR 18M APPLICATIONS, +GY-1, +GY-2...)

ITEM	DESCRIPTION	QUANTITY				STOCK #
		GY-1	GY-2	GY-3	GY-4	
1	xxx GUYWIRE - 10M	42'	42'	42'	42'	2050500
+1	xxx GUYWIRE - 18M	42'	42'	42'	42'	2050700
2	xxx GUY GRIP - 10M	4	4	4	4	2100500
+2	xxx GUY GRIP - 18M	4	4	4	4	2101000
3	ANCHOR SINGLE HELIX (SIZE___)	1	1	1	1	2290100
4	xxx - TRIPLEYE NUT	1	1	1	1	2420100
5	xxx - ANCHOR ROD 7' X 1"	1	1	1	1	2485500
6	JOHNNY-BALL (GUY STRAIN INSUL)	1	1	1	1	2559900
7	xxx - GUY ATTACHMENT - GUY HOOK	1	0	0	0	2701000
8	GUY ATTACHMENT - 1-BOLT EYE PLATE	0	1	0	0	2701600
9	GUY ATTACHMENT - 2-BOLT EYE PLATE	0	0	1	0	2701700
10	GUY ATTACH - BUILT IN PLATE (FBRGLS DE ASSEMBLY)	0	0	0	1	~
11	xxx - GUY GUARD - 8' YELLOW	1	1	1	1	2760100
12	xxx - CLEVIS THIMBLE	0	1	1	1	2870400
13	xxx - BOLT MACH - 12 X 3/4	1	1	1	0	3041200
14	xxx - LAG SCREW 4" x 1/2"	1	0	0	0	3201500
15	xxx - WASHER - sq curv-3	1	1	1	0	3303900
16	xxx - WASHER - dbl coil lock - 3/4	1	1	1	0	3331000

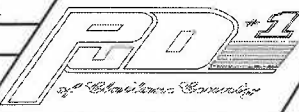
DATE: 08/20/04

REV: 11/17/05

DRAWN: JK/DT

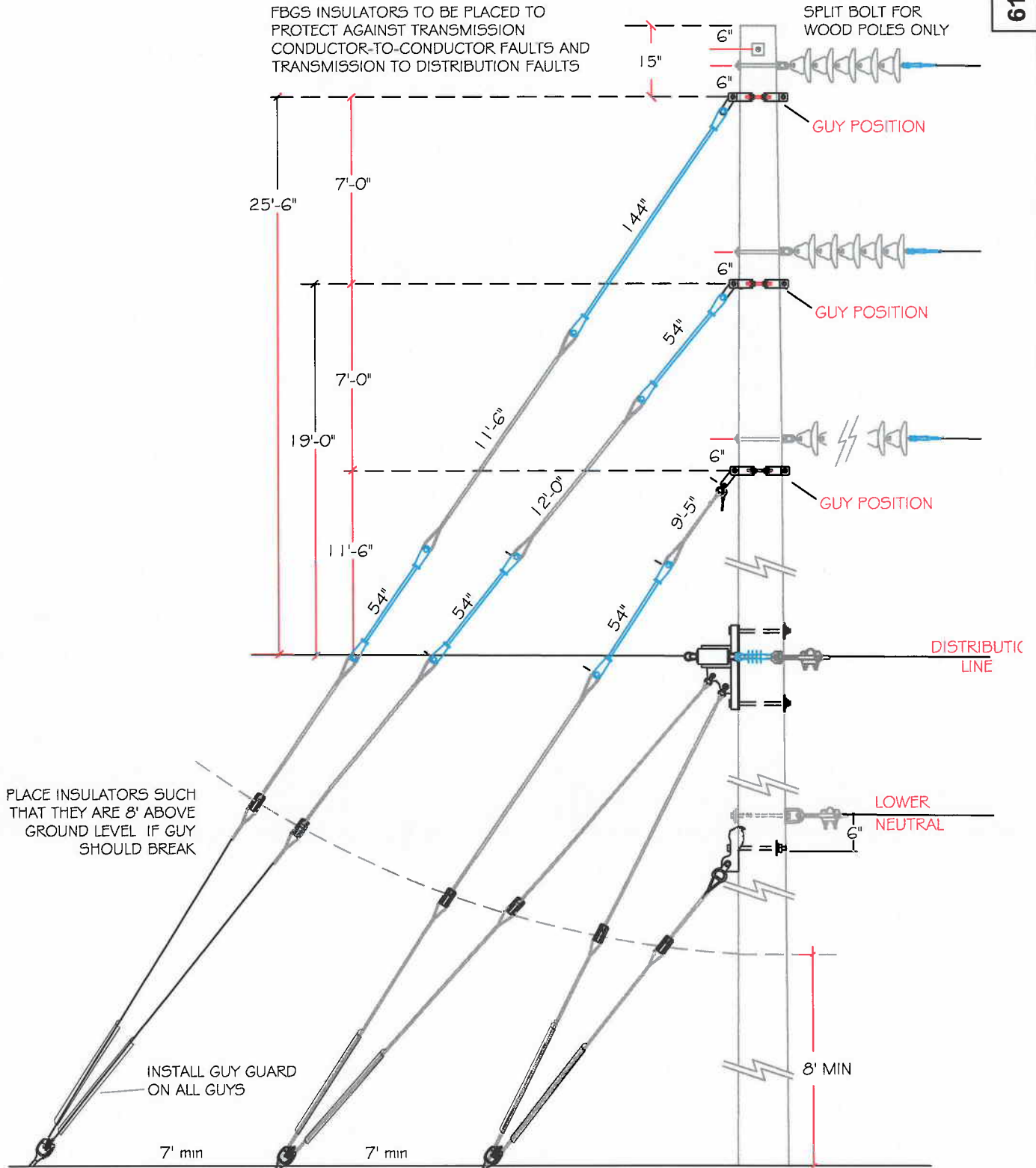
CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPEC\6001610\GY-1 SET

PG 1
OF 1**GROUP: GUY AND ANCHOR - DOWN GUY.****TYPE: JOHNNY BALL - 10M GUY WIRE AND GRIP (+18M)**

OPTIONS: SEE ABOVE FOR GUY ATTACHMENT

GY-1
GY-4



5/5/11 - CHANGES TO GUY STRAIN INSULATORS LENGTHS, PER MH

DATE: 08/20/04

REV: 05/05/11 - DT

DRAWN: JK/DT

CHK: MH



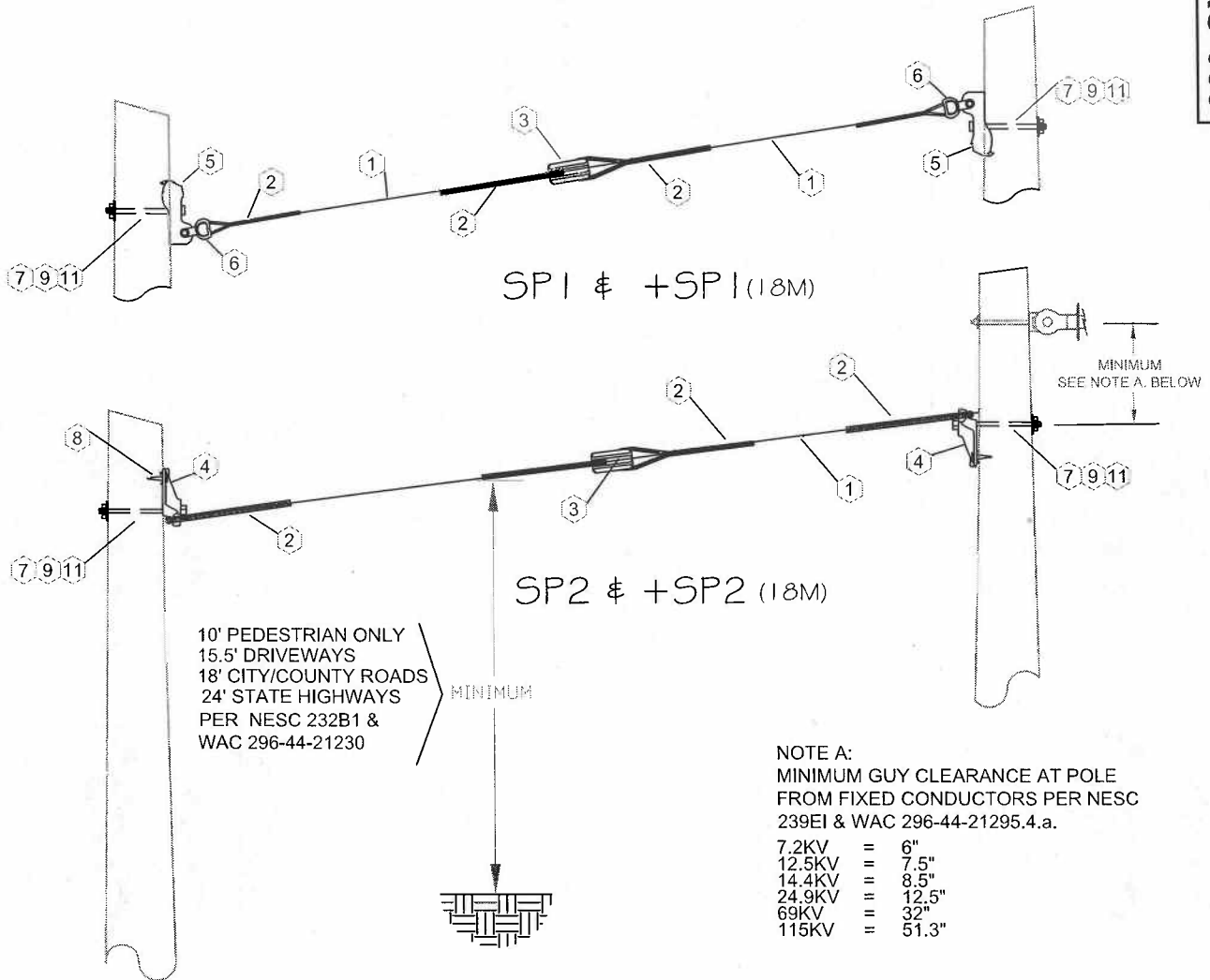
PG 1
OF 1

GROUP: GUY AND ANCHOR
DETAIL: UNDERBUILD PROTECTION

OPTIONS:

610.GY MISC.

FILE: H:\ENGSTANDARDS\07 SPECBOOK\600 - UNDERBUILD



(NOTE: USE A +PLUS SIGN BEFORE THE ASSEMBLY NUMBER FOR 18M APPLICATIONS, +SP1, +GY-2...)

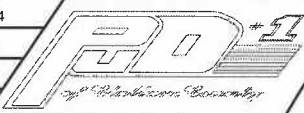
ITEM	DESCRIPTION	QUANTITY				STOCK #
		GY-SP1	+GY-SP1	GY-SP2	+GY-SP2	
1	xxx GUY WIRE - 10M	42'	~	42'	~	2050500
+1	xxx GUY WIRE - 18M	~	42'	~	42'	2050700
2	xxx GUY GRIP (PREFORMED) - 10M	4	~	4	~	2100500
+2	xxx GUY GRIP (PREFORMED) - 18M	~	4	~	4	2101000
3	xxx JOHNNY-BALL	1	1	1	1	2559900
4	xxx GUY ATTACHMENT GUY HOOK	~	~	2	2	2701000
5	GUY ATTACH - 1-BOLT EYE PLATE	2	2	~	~	2701600
6	xxx CLEVIS THIMBLE (10M OR 18M)	2	2	~	~	2870400
7	xxx BOLT MACH - 12 X 3/4	2	2	2	2	3041200
8	xxx LAG SCREW 4" x 1/2"	~	~	2	2	3201500
9	xxx - WASHER - sq curv-3"	2	~	2	~	3303900
10	xxx - WASHER - sq curv-4"	~	2	~	2	3306000
11	xxx wash - dbl coil lock - 3/4	2	2	2	2	3331000

DATE: 08/20/04

REV: 5/29/2007

DRAWN: JK/DT

CHK: RA/DP

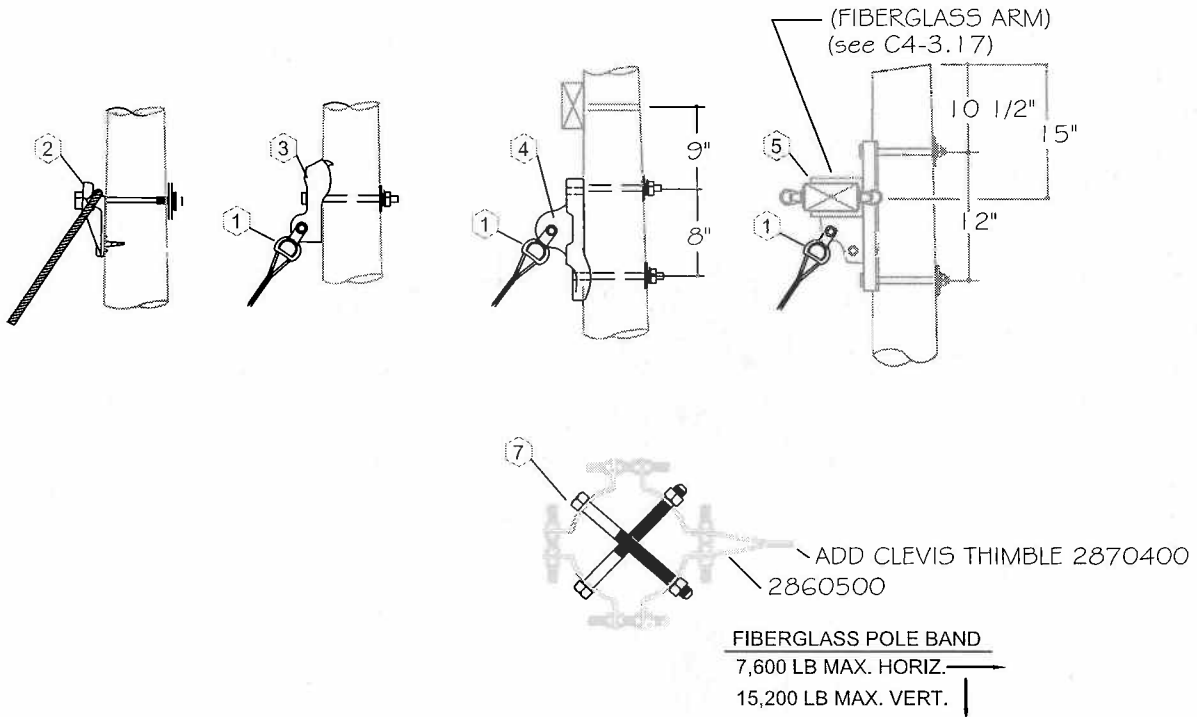
PG 1
OF 1

GROUP: GUY AND ANCHORS
TYPE: PRIMARY SPAN GUY

OPTIONS: 10M - 18M GUY WIRE AND GRIPS

GY-SP

H:\ENGSTANDARDS\106 SPECBOOK\1500 SUB\520 SYST\520 GY\GY-SP1



GUY ATTACHMENTS

ITEM#	DESCRIPTION	STOCK #	SET-CODE
1	xxx CLEVIS THIMBLE - 10M & 18M	2870400	(*) D170-000
2	xxx GUY HOOK	2701000	(*) D102-000
3	GUY ATTACHMENT 1-BOLT EYE PLATE	2701600	(*) D103-020
4	GUY ATTACHMENT 2-BOLT EYE PLATE	2701700	(*) D104-030
5	BUILT-IN FIBERGLASS (DE ASSEMBLY)	~	NA
6	POLE BANDS 7" - 9-1/2"	2850100	(*) D105-000
~	POLE BANDS 8-1/2" - 11"	2850300	(*) D105-002
~	POLE BANDS 12" - 16"	2850200	(*) D105-001
7	GUYATTACH 9"-13-1/2" SHAKE	2701800	(*) D105-005
	GUYATTACH 7"-9-1/2" SHAKE	2701900	(*) D105-006
8	GUY ATTACHMENT MULT ASSEMBLY	2702700	(*) D107-010

(*) - T, (transmission); D, (distribution); S, (secondary)

PAGE 1 OF 2

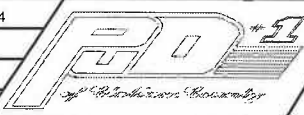
DATE: 08/20/04

REV: 04/26/06

DRAWN: DT

CHK: RA/DP

H:\ENGSTANDARDS\06 SPECBOOK\600 1650 1GY-MISC.



PG 1
OF 1

GROUP: PRIMARY GUY AND ANCHOR
TYPE: POLE ATTACHMENT AND HARDWARE

OPTIONS: SEE ABOVE FOR ANCHOR

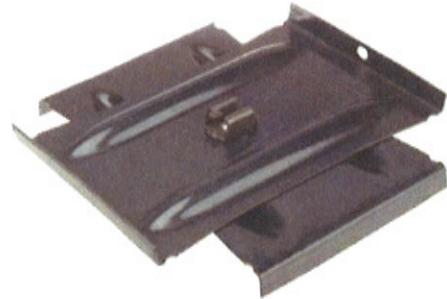
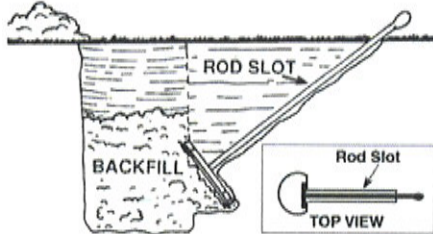
GY-MISC.

Home > Products > Anchoring > Cross-Plate Anchor

Cross-Plate Anchor

The Cross-Plate anchor is made for installation in holes drilled by power diggers. Because the size of the hole does not affect holding capacity, the hole can be dug by the same auger that is used to dig the pole holes on transmission projects.

Cross-Plate anchors are installed in a diagonal bored hole which is undercut so the anchor is at right angles to the guy. A rod trench is either cut with a trenching tool or drilled with a small power auger. Both anchor and rod trench should be refilled and tamped.



Catalog Number	Hole Size In. (mm)	Std. Pkg. / Pallet	Approx. Wt. per Carton Lb. (kg)	Area Sq. In. (Sq cm)	Rod Size (order separately) In. (mm)	Holding Capacity* - (lbs. (kN)) (No Safety Factors Included) vs Soil Class				
						Class 3	Class 4	Class 5	Class 6	Class 7
X16	16 (406)	3/162	62 (28)	150 (968)	5/8 (15.8), 3/4 (19.1)	26500 (117.9)†	22500 (100.1)†	18500 (82.3)†	14500 (64.5)	9500 (42.3)
X20	20 (508)	2/56	64 (29)	250 (1613)	5/8 (15.8), 3/4 (19.1)	34000 (151.2)†	29000 (129.0)†	24000 (106.8)†	19000 (84.5)†	14000 (62.3)
X201	20 (508)	2/56	64 (29)	250 (1613)	1 (25.4)	34000 (151.2)	29000 (129.0)	24000 (106.8)	19000 (84.5)	14000 (62.3)
X2434*	24 (610)	1/24	34 (15)	400 (2581)	5/8 (15.8), 3/4 (19.1)	45000 (200.2)†	37000 (164.6)†	30000 (133.4)†	23500 (104.5)†	18000 (80.1)†
X24†	24 (610)	1/24	34 (15)	400 (2581)	1 (25.4)	45000 (200.2)†	37000 (164.6)†	30000 (133.4)	23500 (104.5)	18000 (80.1)
X241†	24 (610)	1/24	34 (15)	400 (2581)	1-1/4 (31.7)	45000 (200.2)	37000 (164.6)	30000 (133.4)	23500 (104.5)	18000 (80.1)

Click on Catalog Number to view sales drawing

†X24 Series are not available in carton and are shipped as individual pieces.

†Ultimate strength of rod may limit holding capacity. (See page 4-17 for rod ratings and selection.)

Add suffix "G" for galvanized. Example: X20G.

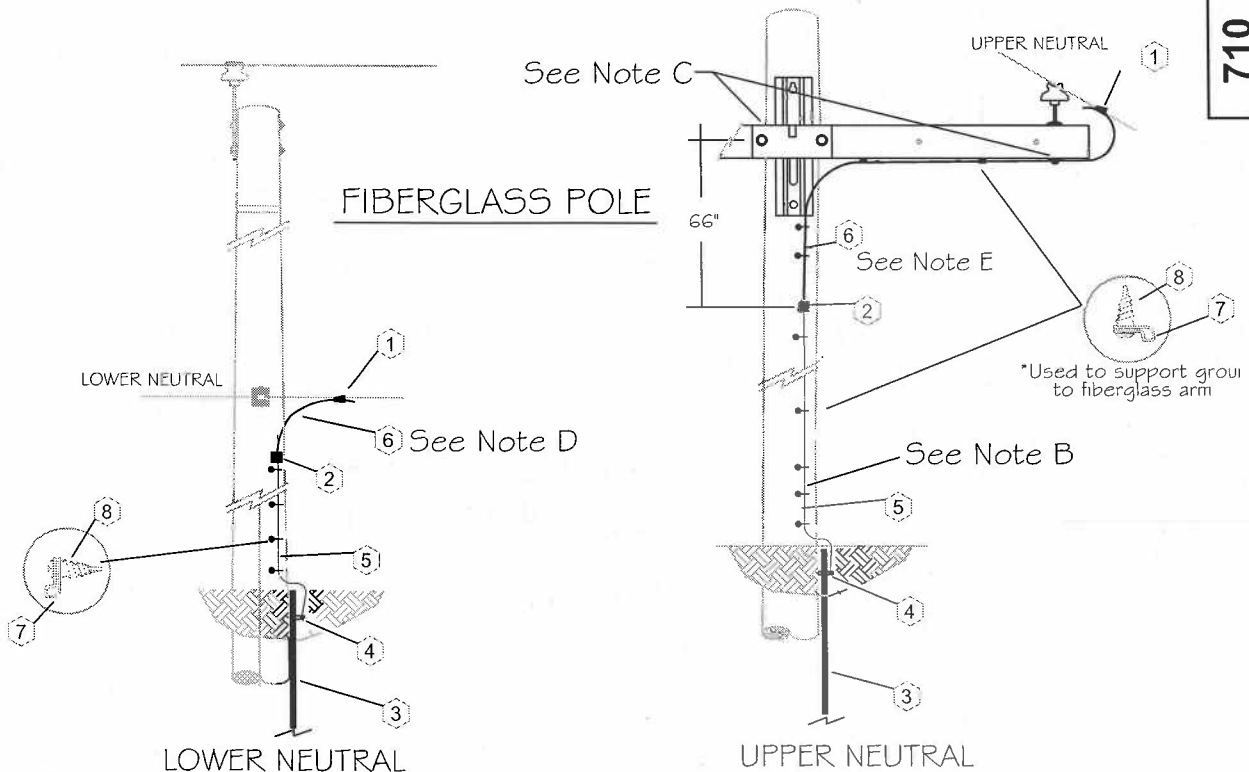
*RUS Accepted.

Note: Capacity ratings apply to properly installed anchors only. Failure to install within 5° of alignment with the guy load will significantly lower strength.

For Class 3, 4, 5, and 6 soils, the depth required to achieve the holding capacities listed in the table is 5 vertical feet to the center of the plate. For Class 7 soils, the depth required is 7 vertical feet to the center of the plate.

Holding capacities are ultimate values. An appropriate factor of safety should be used to determine the allowable or service load. Hubbell Power Systems, Inc. recommends a factor of safety of at least 2 for permanent structures





NOTES:

A. GROUND WIRE TO BE LOCATED ON SAME SIDE AS NEUTRAL CONDUCTOR AND IN QUADRANT OPPOSITE CLIMBING SPACE OR POLE TOP PIN.

B. STAPLES ON GROUND WIRE SHALL BE 24" APART, EXCEPT FOR A DISTANCE OF 8-FEET ABOVE GROUND AND 8'-FEET FROM POLE TOP WHERE THEY SHALL BE 6-INCHES APART. USE GROUND WIRE CLIPS & SCREWS FOR FIBERGLASS POLES (GR-7 & GR-7.1).

C. GROUND WIRE TO CLEAR ALL HARDWARE BY 2-INCHES MINIMUM AND SHALL BE STAPLED TO MAINTAIN THIS MINIMUM.

D. WITH 556.5 LOWER NEUTRAL, INSTALL #2 CU STRANDED GROUND WIRE AS SHOWN AND ATTACH TO STANDARD POLE GROUND.

E. WITH 556.5 UPPER NEUTRAL, INSTALL #2 CU STRANDED GROUND WIRE TO JUST BELOW THE TRANSFORMER POSITION. CONTINUE TO GROUND ROD WITH STANDARD POLE GROUND.

ITEM	DESCRIPTION	FBRGLS W/ 556.5		FBRGLS OTHERS		STOCK #
		LWR-N	UPR-N	LWR-N	UPR-N	
		GR-17	GR-27	GR-18	GR-28	
1a	xxx CONNECTOR - AMPACT (SEE 1000.CN)	0	0	1	1	AS REQ'D
1b	xxx AMPACT 556 ACSR - 4 & 2	1	1	0	0	6308320
2a	xxx CONNECTOR - CRIMP TYPE (SEE 1000.CN)	0	0	0	0	AS REQ'D
2b	xxx - CRIMPET 2-4	1	1	0	0	6060500
3	xxx - GROUND ROD 8' x 5/8" CU	1	1	1	1	3420800
4	xxx - GROUND ROD CLAMP 5/8"	1	1	1	1	6663900
5	xxx - 6 CU TIE WIRE SOLID (SEE 1200)	36'	40'	35'	50'	5030300
6	xxx - 2 CU SD 7-STRAND (SEE 1200)	4'	14'	0	0	5080700
7	xxx - GROUND WIRE CLIP (FOR FBRGLS)	25	35	25	35	6664000
8	xxx - SS SELF TAP SCREW (FOR FBRGLS)	25	35	25	35	6664100

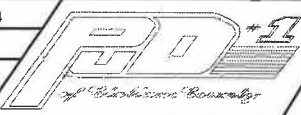
DATE: 08/20/04

REV: 05/01/06

DRAWN: JK/DT

CHK: RA/DP

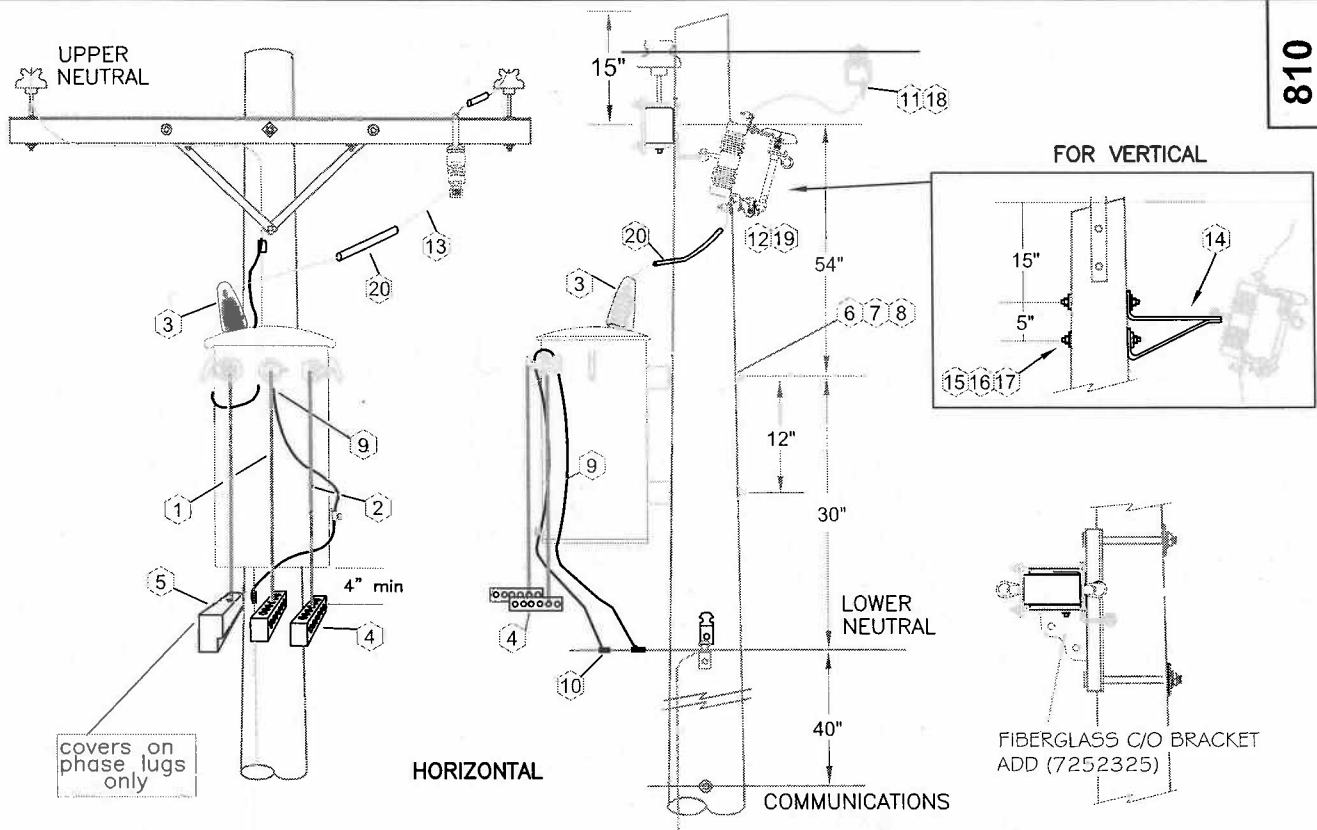
FILE: H:\ENGSTANDARDS\106 SPECBOOK\700-GROUND\710-OVERHEAD\GR-SET

PG 2
OF 2

GROUP: GROUNDING - OVERHEAD DISRIBUTION
TYPE: FIBERGLASS POLE CONSTRUCTION

OPTIONS: UPPER NEUTRAL OR LOWER NEUTRAL
 UPPER NEUTRAL OR LOWER NEUTRAL

GR-(FBGLS)



FOR HORIZONTAL:

TR1-A1 (15/25KVA)
TR1-B1 (50KVA)

FOR VERTICAL:

TR1-A2 (15/25KVA)
TR1-B2 (50KVA)

FOR FIBERGLASS ARM:
ADD 7252325

ITEM	DESCRIPTION	QUANTITY				
		TR1-A1	TR1-A2	TR1-B1	TR1-B2	
1	xxx 1/0 CU WP 19-STRAND	3.0FT	3.0FT	3.0FT	3.0FT	5012000
2	xxx 1/0 CU WP 19-STRAND	6.0FT	6.0FT			5012000
+2	xxx 4/0 CU STR WP 19-STRAND			6.0FT	6.0FT	5012400
3	xxx - WILDLIFE BUSHING PROTECT	1	1	1	1	9987000
4	xxx - M LUG SEC. 6-H 6-350	3	3	3	3	6605500
5	xxx - M LUG COVER	2	2	2	2	6605600
6	xxx MACH BOLT 12" x 5/8"	2	2	2	2	3031200
7	xxx WASHER - 2-1/4" SQ.	2	2	2	2	3292000
8	xxx WASHER DBL COIL LOCK 5/8"	2	2	2	2	3330900
9	xxx 2 CU SD 7-STRAND	12FT	12FT	12FT	12FT	5080700
10	CONNECTOR CRIMP	2	2	2	2	3330900
11	xxx - HOT LINE CLAMP	1	1	1	1	6588500
12	CUTOUT 100A 15KV	1	1	0	0	7252200
+12	CUTOUT 100A 25KV	0	0	1	1	7253800
13	xxx 6 CU TIE WIRE SOLID	8FT	8FT	8FT	8FT	5030300
14	C/O-ARRESTOR EXT BRKT	0	1	0	1	7259000
15	xxx - WASHER SQ. 2 1/4"	0	2	0	2	3292000
16	xxx - BOLT MACH. - 12" x 5/8"	0	2	0	2	3031200
17	xxx - WASH - DBL COIL LOCK - 5/8"	0	2	0	2	3330900
18	xxx - STIRRUP CLAMP (SEE 1000.CL)	1	1	1	1	AS REQ'D
19	xxx - FUSE (SEE 830)	1	1	1	1	AS REQ'D
20	xxx - RED HOSE - WILDLIFE PROTECTOR	3FT	3FT	3FT	3FT	9987600
20	TRANSFORMER (SEE 800.TR)	1	1	1	1	AS REQ'D

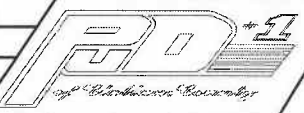
DATE: 08/20/04

REV: 08/16/06

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARD\S05 SPECBOOK\800-TRANS\810\TR1-SET



PG 1
OF 1

GROUP: TRANSFORMER - OVERHEAD - SINGLE PHASE
TYPE: SINGLE BUSHING - 120 / 240V w/ C/O

OPTIONS: 15 THRU 50 KVA

TR1-SET

TRANSFORMER FUSING**POLE MOUNT**

TRANSFORMER KVA	7200 volt Fuse Size		14400 volt Fuse Size	
	Test	Run	Test	Run
3	1/3X	3/4X	1/3X	1/3X
5	3/4X	1X	1/3X	1/3X
7.5	1X	1-1/2X	1/3X	3/4X
10	1-1/2X	2X	3/4X	1X
15	2X	2-1/2X	1X	1-1/2X
25	3-1/2X	6K	1-1/2X	2X
37.5	5-1/2X	8K	2X	3-1/2X
50	6K	10K	3-1/2X	5-1/2X
75	10K	15K	5-1/2X	8K
100	12K	20K	6K	10K
167	20K	30K	10K	15K
250	30K	40K	15K	25K

3 PHASE PADMOUNT

KVA	BAYONETTE FUSE			
	7.2/12.5 kv		14.4 / 24.9 kv	
30	C03	(3 AMP)	C03	(3 AMP)
45	C03	(3 AMP)	C03	(3 AMP)
75	C03	(3 AMP)	C03	(3 AMP)
112.5	C05	(8 AMP)	C03	(3 AMP)
150	C05	(8 AMP)	C03	(3 AMP)
225	C08	(15 AMP)	C03	(3 AMP)
300	C08	(15 AMP)	C05	(8 AMP)
500	C10	(25 AMP)	C08	(15 AMP)
750	C12	(50 AMP)	C08	(15 AMP)
1000	C12	(50 AMP)	C10	(25 AMP)
1500	C14	(65 AMP)	C10	(25 AMP)

1PHASE PADMOUNT

KVA	BAYONETTE FUSE			
	7.2/12.5 kv		14.4 / 24.9 kv	
25	C03	(3 AMP)	C03	(3 AMP)
37.5	C05	(3 AMP)	C03	(3 AMP)
50	C05	(3 AMP)	C03	(3 AMP)
75	C08	(3 AMP)	C03	(3 AMP)
100	C08	(8 AMP)	C03	(3 AMP)
167	C10	(15 AMP)	C03	(3 AMP)
250	C12	(15 AMP)	C05	(8 AMP)
333	C12	(25 AMP)	C08	(15 AMP)
500	C14	(25 AMP)	C08	(15 AMP)

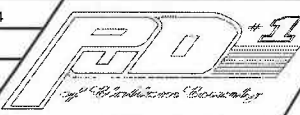
DATE: 08/20/04

REV: 5/31/2007

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPECBOOK\800\FU-1

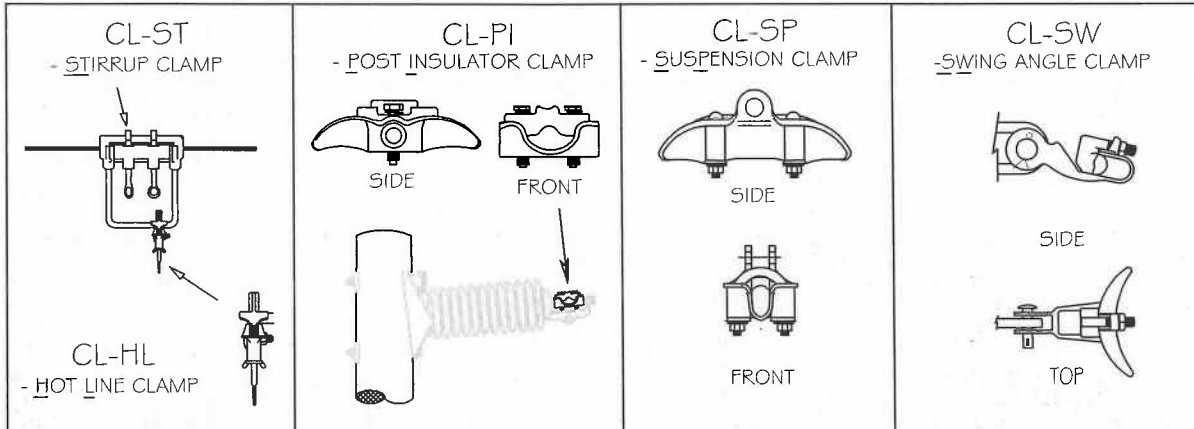
PG 1
OF 1**GROUP: TRANSFORMER AND FUSING****TYPE: TRANSFORMER FUSING**



OPTIONS:

FU-2

CLAMP CHART - CL

1000.CL



	CLAMPS 	HOT LINE CLAMP	STIRRUP CLAMP	POST INSULATOR CLAMP	SUSPENSION CLAMP	SWING ANGLE CLAMP
	CONDUCTORS 	CL-HL	CL- ST	CL-PI	CL-SP	CL-SW
1	4ACSR		6588700 (6588500)*	6545600	6551000	6559900
2	2 ACSR					
3	1/0 ACSR				6552700	
4	4/0 ACSR					
5	397.5 ACSR		6589000 (6588500)*	6547000**	6553200	
6	556.5 ACSR					
7	795 ACSR					
8	556.5 AAC		6589000 (6588500)*	6547000	6552700	
9	795 AAC			6547500	6553200	
10	1272 AAC W/O AR			6548500	6553600	
11	1272 AAC W/AR			6548600		
12	394.5 AAAC			6554700	6552700	
13	CU 1/0			6545000	6551100	6559900
13	6 AMER		6588700 (6588500)*			
14	4 AMER					
15	8 SOL HD CU	6588500 (HL-CL)		6545000	6551100	
16	6 SOL HD CU					
17	1/0 STR MHD CU					

EXAMPLE: FOR STIRRUP CLAMP WITH 1/0 ACSR USE ASSEMBLY CODE "CL-ST3" (STOCK #6588700)

* ALL STIRRUP CLAMPS COME WITH HOT CLAMP

** ARMOR ROD INCLUDED

PAGE 1 OF 2

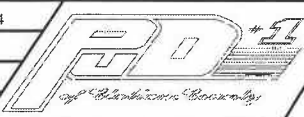
DATE: 08/20/04

REV: 01/26/06

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPECBOOK\1000-CHARTS\1000-CL-CLAMPS



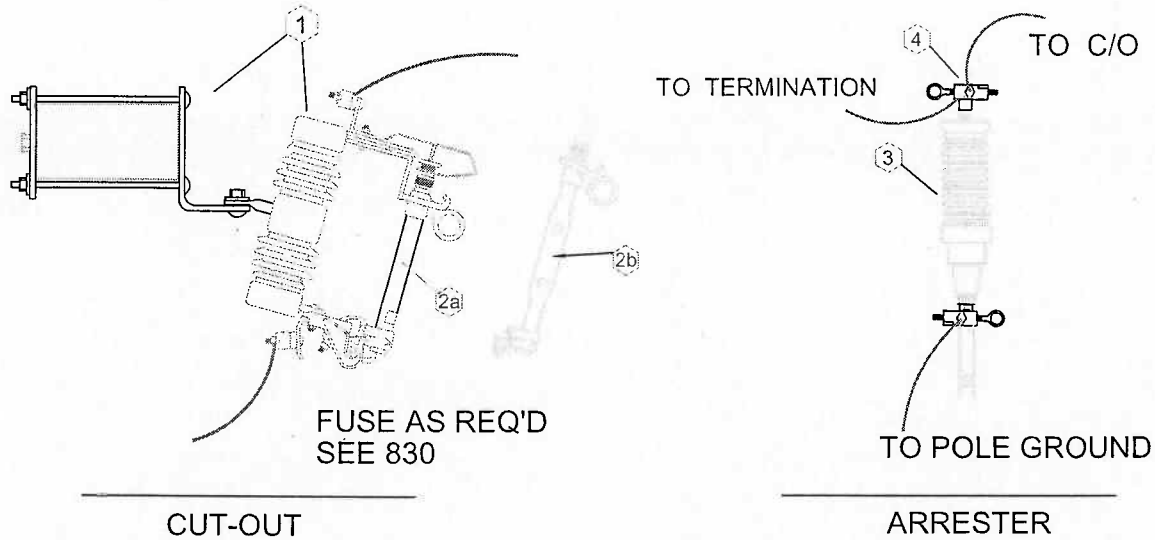
PG 1
OF 2

GROUP: CHART & TABLES

TYPE: CLAMPS - MATERIAL STOCK NUMBER

OPTIONS:

CL-1

**CUT-OUT**

ITEM	DESCRIPTION	STOCK #	SET CODE #	REF CODE
1	CUTOUT 100A 15KV	7252200	CO-1	B611-221
1	CUTOUT 100A 25KV	7253800	+CO-1	B611-241

FUSE BARREL & CUTOUT BLADE

ITEM	DESCRIPTION	STOCK #	SET CODE #	REF CODE
2a	XXX CUTOUT BARREL 100A 15KV	7252300	CO-FB1	B600-221
2a	XXX CUTOUT BARREL 100A 25KV	7253900	+CO-FB1	B600-241
2b	XXX CUTOUT BLADE 300A 15KV	7252400	CO-BL1	B600-422
2b	XXX CUTOUT BLADE 300A 25KV	7254000	+CO-BL1	B600-442

ARRESTOR

ITEM	DESCRIPTION	STOCK #	SET CODE #	REF CODE
3	ARRESTER DIST 9KV	7010500	AR-1	B611-221
3	ARRESTER DIST 18KV	7012000	+AR-1	B611-241

ARRESTOR CONNECTORS

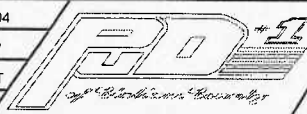
ITEM	DESCRIPTION	STOCK #	SET-CODE #
4	xxx ARRESTER CONNECTOR 6-1/0	7020000	AR-C1
4	xxx ARRESTER CONNECTOR 2/0-350	7020040	AR-C2

DATE: 08/20/04

REV: 5/31/2007

DRAWN: JK/DT

CHK: RA/DP

PG 1
OF 1**GROUP: CUTOUT & ARRESTER****DETAIL: CUTOUT -ARRESTERS -SUB ASSEMBLY**

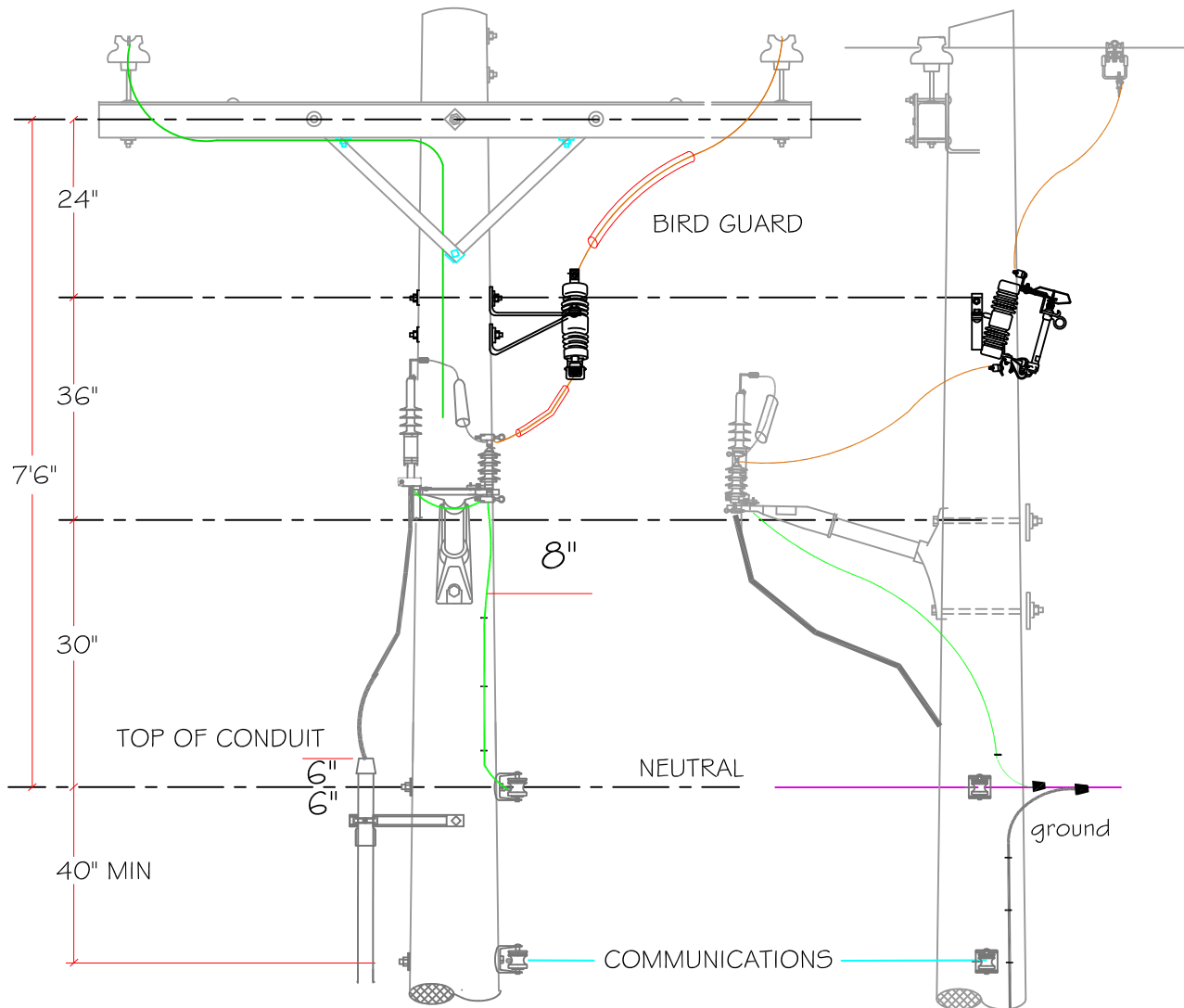
CUTOUT/ARRESTOR-TERM. BRKT , SUB ASSEMBLY

910-1

FILE: H:\ENGSTANDARDS\05 SPEC\600-SPEC\800\910-CO-AR

CUT-OUT POSITION: SINGLE PHASE RISER

930



NOTE:
ADD CUTOUT EXTENSION BRACKET DB600-004 TO RP1
OVERHEAD TO UNDERGROUND ASSEMBLY.

DATE: 01/11/06

REV: 7/15/2013

DRAWN: JK/DT

CHK: RA/DP



PG 1
OF 1

GROUP: CUT-OUT / ARRESTER
TYPE: THREE PHASE - CROSSARM

OPTIONS: SINGLE-PHASE VERTICAL

CT1

FILE: H:\ENGSTANDARDS\07 SPEC\900\930\CT1-SET

AMPACT - FOR ALLOY CONNECTORS

TAP	MAIN										
	O.D.	.325"	.398"	.563"	.721"	.783"	.856"	.927"	1.026"	1.108"	1.300"
	CONDUCTOR	2 ACSR	1/0 ACSR	4/0 ACSR	394.5 AAAC	397.5 ACSR	556.5 AAC	556.5 ACSR	795 AAC	795 ACSR	1272 AAC
	.128" 6 CU	6306010		6307410	6308010	6308110	6308310	6308410	6308510		
	.257" 4 ACSR				6308020			6308420			
	.292" 2 STR CU		6306020	6307420	6308030	6308120	6308320	6308430	6308520		
	.325" 2 ACSR										
	.368" 1/0 AAC										
	.373" 1/0 CU		6307120	6307430	6308040	6308340	6308440	6308530			
	.398" 1/0 ACSR										
	.522" 4/0 AAC										
	.528" 4/0 CU			6307440	6308050	6308140	6308450	6308540			
	.563" 4/0 ACSR										
	.721" 394.5 AAAC				6308060			6308460	6308550		
	.783" 397.5 ACSR					6308160					
	.856" 556.5 AAC						6308170	6308470	6308560		
	.927" 556.5 ACSR										
	1.026" 795 AAC							6308480	6308570		
	1.108" 795 ACSR										
	1.300" 1272 AAC										6308580

(NOTE: 10M TO #2 SOL. CU = STOCK NO. 6306020)

CRIMPITS - FOR COPPER CONNECTORS

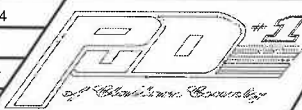
TAP	MAIN				
	CONDUCTOR	6 SOLID CU	4 SOLID CU	2 STR SD CR	1/0 STR SD CU
	4/0 STR SD CU				
	6 SOL CU	6060300		6060500	
	4 SOL CU				6060100
	2 STR CU			6060700	6060200
	1/0 STR SD CU				6061200
	4/0 STR SD CU				6061300
					6061400

DATE: 08/20/04

REV: 02/17/06

DRAWN: JK/DT

CHK: RA/DP

PG 1
OF 1

GROUP: CONNECTORS

TYPE: AMPACT OR COPPER CRIMP

OPTIONS: SEE MAIN AND TAP SIZES ABOVE

CN-1

FILE: H:\ENGSTANDARDS\05 SPEC\500-SUB\510-CHARTS\CN-CONN\510.CN

COPPER CRIMPIT CONNECTOR SET CODES

1000.CN

FOR 1ST. CHARACTER,
IF CONNECTOR IS USED IN:

TYPE CODE:

FERC NO:

TRANSMISSION, ENTER "T"
DISTRIBUTION, ENTER "D"
SECONDARY, ENTER "S"
SERVICE, ENTER "C"
TRANSFORMER, ENTER "X"

CONN 356
CONN 365
CONN 365
CONN 369
CONN 368

FOR 2ND. CHARACTER, ENTER
"Z" FOR "CONNECTOR"

SET CODE			STOCK DESCRIPTION	STK. NO.
T	D	S	C	X
Z	CR1/02ST	XXX CU CRIMPIT 1/0-#6	(YC26C2)	6060100
Z	CR4/02ST	XXX CU CRIMPIT 4/0-#6	(YC28C2)	6060200
Z	CR4ST650	XXX CU CRIMPIT 650L/45TR-65TR	(YC4C6)	6060300
Z	CR2ST850	XXX CU CRIMPIT 250L/STR-850L/45TR	(YC2C4)	6060500
Z	CR2ST250	XXX CU CRIMPIT 250L-25TR	(YC2C2)	6060700
Z	CR1/01/0	XXX CU CRIMPIT 1/0STR-1/05TR	(YC26C26)	6061200
Z	CR4/01/0	XXX CU CRIMPIT 4/0-1/0 CU	(YC28C26)	6061300
Z	CR4/04/0	XXX CU CRIMPIT 4/0-4/0	(YC28C28)	6061400

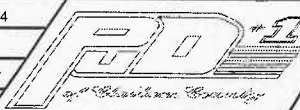
DATE: 08/20/04

REV: 02/17/06

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPEC\500-SUB\510-CHARTS\CN-CONN\510.CN



PG 1
OF 1

GROUP: CONNECTORS

TYPE: COPPER CRIMP - SET CODES

OPTIONS: SEE CN-1 FOR SELECTION SIZE

CN-4

WIDE RANGE - TAP CONNECTORS

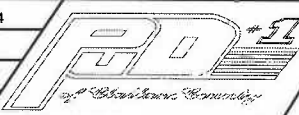
		MAIN																
TAP	CONDUCTOR	CN1-	CN2-	CN3-	CN4-	CN5-	CN6-	CN7-	CN8-	CN9-	CN10-	CN11-	CN12-	CN13-				
		6 STR	4 STR	4 ACSR	2 STR	2 ACSR	1/0 STR	1/0 ACSR	2/0 STR	4/0 STR	4/0 ACSR	250 STR	350 STR	397.5 ACSR				
A	14 STRAND	6280300 (COVER-6393200)				6280600 (cover-6393200)				6284000 (cover-6393200)								
B	12 STRAND																	
C	10 STRAND																	
D	10 SOLID																	
E	8 SOLID																	
F	6 SOLID	6280700 (cover-6393200)				6280900 (cover-6393200)				6282800 (cover-6393200)								
G	6 STRAND																	
H	4 SOLID																	
J	4 STRAND																	
K	4 ACSR																	
L	2 STRAND																	
M	2 ACSR																	
N	2 SOLID																	
O	1/0 STRAND																	
P	1/0 ACSR																	
Q	2/0 STRAND																	
R	4/0 STRAND					6281600 (cover-6393200)						6283000 (cover-6394000)		6284300 (cover-6393200)				
S	4/0 ACSR																	
T	250 STRAND																	
V	350 STRAND																	
		6 STR	4 STR	4 ACSR	2 STR	2 ACSR	1/0 STR	1/0 ACSR	2/0 STR	4/0 STR	4/0 ACSR	250 STR	350 STR	397.5 ACSR				

DATE: 08/20/04

REV: 02/17/06

DRAWN: JK/DT

CHK: RA/DP

PG 1
OF 1

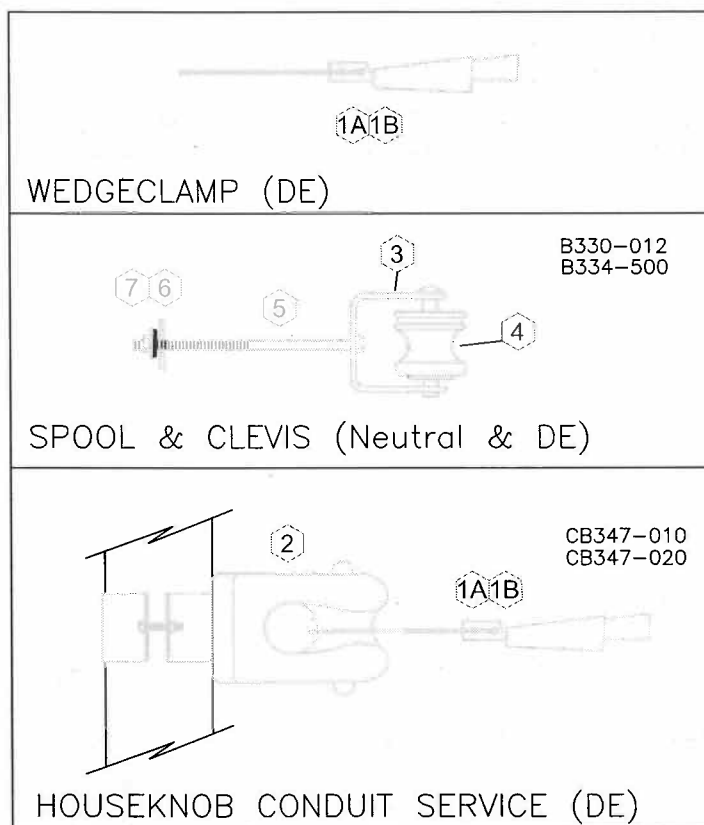
GROUP: CONNECTORS

TYPE: WIDE RANGE - TAP CONNECTORS

OPTIONS: SEE MAIN AND TAP SIZES ABOVE

CN-2

FILE: H:\ENGSTANDARDS\05 SPEC\500-SUB\510-CHARTS\CN-CONN\510.CN



ITEM	DESCRIPTION	CONDUCTOR SIZE			STOCK #
		NEUTRAL SP+CL	6-2 SP+CL1	1/0-4/0 SP+CL2	
1a	xxx WEDGE CLAMP 6-2	0	1	0	6490000
1b	xxx WEDGE CLAMP 1/0-4/0	0	0	1	6490300
2	xxx HOUSEKNOB CONDUIT	0	0	0	xxX
3	xxx SPOOL INSULATOR	1	1	1	4025000
4	xxx SPOOL INSULATOR CLEVIS	1	1	1	4025200
5	xxx BOLT MACH 12" x 5/8"	1	1	1	3031200
6	xxx SQ FLAT WASHER 2-1/4"	1	1	1	3292000
7	xxx DBL COIL 5/8" LOCK WASHER	1	1	1	3330900

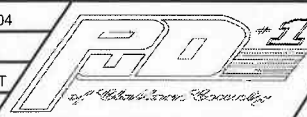
DATE: 08/20/04

REV: 11/17/05

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPECBOOK\1000\DE.DEADEND

PG 1
OF 1

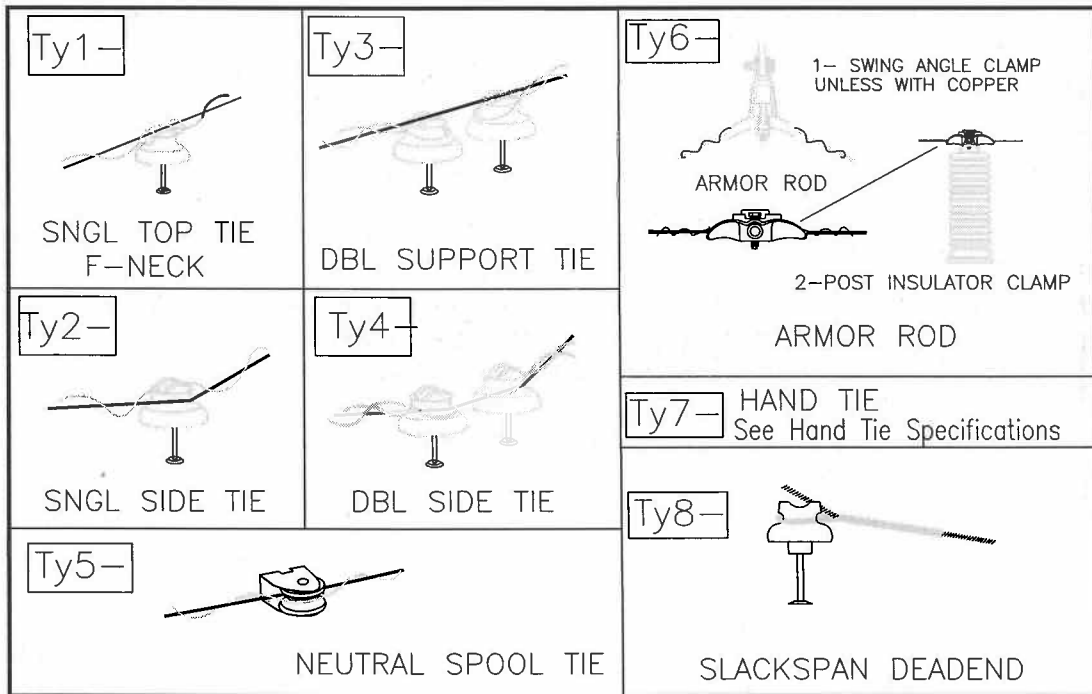
GROUP: DEAD END - SPOOL AND CLEVIS
TYPE: NEUTRAL OR SECONDARY SERVICE

OPTIONS:

DE-2

PREFORMED TIE CHART

1000.TY



		Ty1- (TOP GROVE) ALLOY TIE SINGLE INSUL	Ty2- SIDE TIE	Ty3- DOUBLE SUPPORT TIE	Ty4- DOUBLE SIDE TIE	Ty5- NEUTRAL SPOOL TIE	Ty6- ARMOR ROD PREFORMED	Ty7- HAND TIE "SEE BELOW"	Ty8- SLACKSPAN DEADEND
A	4 ACSR	6480500	6489100	6484000		6460000	5950500		6455000
B	2 ACSR	6480700	6489300	6484200	6480600	6460200	5950700		6455200
C	1/0 ACSR	6481000	6489400	6484400	6481100	6460400	5951000		
D	4/0 ACSR	6482000	6489500	6484600	6482100	6460600	5951400		
E	397.5 ACSR	6482500					5952800		
F	556.5 ACSR						5953200		
G	795 ACSR						5953600		
H	COPPER	----- 5030300 #6cu Solid -----							
J	556.5 AAC	6482600	6489800	6484800	6489900	6460800	5953000		
K	795 AAC						5953400		
L	1272 AAC						5954000		
N	394.5 AAAC	6482500					5952500		

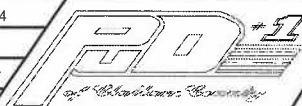
Ty7- HAND TIE		
A	xxx 4 SOL ALUMINUM TIE WIRE	5430500
H	xxx 6 CU TIE WIRE SOLID	5030300

DATE: 08/20/04

REV: 01/17/06

DRAWN: JK/DT

CHK: RA/DP



PG 1
OF 1

GROUP: PREFORMED TIES

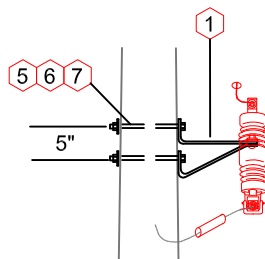
TYPE: TIE - MATERIAL STOCK NUMBER

OPTIONS:

TY-1

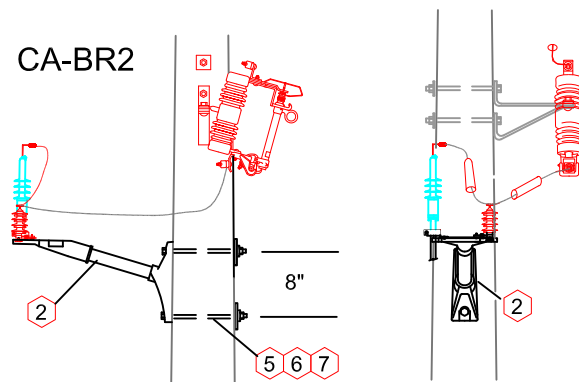
FILE: H:\ENGSTANDARDS\06 SPECBOOK\500-SUB ASSEM\510-CHARTS\TY-1

CA-BR1



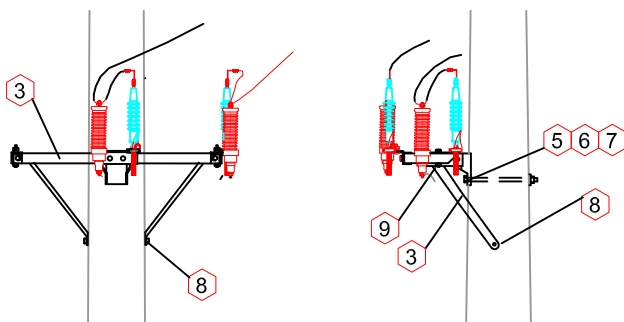
CUTOUT/ARRESTER BRKT. (VERT BUILD)

CA-BR2

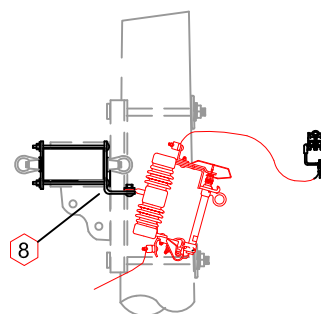


FIBERGLASS SIDE POLE BRKT.

CA-BR3 (CA-BR4 "HEAVY DUTY")



ALUMAFORM 3-WAY BRKT.

CA-BR5
7252325

FIBERGLASS DEADEND BRKT.

SET-CODE #

ITEM	DESCRIPTION	CA-BR1	CA-BR2	CA-BR3	CA-BR4	CA-BR5	STOCK #
1	CUTOUT/ARRESTER BRKT	1	0	0	0	0	7259000
2	FIBERGLASS SIDE POLE BRACKET	0	1	0	0	0	4500600
3	ALUMAFORM BRKT 3-WAY	0	0	1	0	0	9451700
4	ALUMAFORM BRKT HD 3-WAY	0	0	0	1	0	9451800
5	xxx BOLT MACH 12"x5/8"	2	2	1	1	0	3031000
6	xxx SQ. FLAT WASHER 2-1/4"	2	2	1	1	0	3292000
7	xxx DBL COIL 5/8" LOCK WASHER	2	2	1	1	0	3330900
8	xxx LAG SCREW 4" x 1/2"	0	0	2	2	0	3201500
9	xxx GROUNDING CONNECTOR	0	1	1	1	0	6589900
10	xxx FIBERGLASS ARM BRKT	0	0	0	0	1	7252325

SET CODE#

CA-BR1

CA-BR2

CA-BR3

CA-BR4

REF-CODE

B600-004

B600-005

B600-006

B600-007

DATE: 08/20/04

REV: 5/31/2007

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPEC\500-SPEC\900\910\CO-AR

PG 1
OF 1

GROUP: CUTOUT & ARRESTERS - CA
DETAIL: CUTOUT/ARRESTER-TERMINATION BRACKETS

CUTOUT/ARRESTER-TERM. BRKT , SUB ASSEMBLY

920-1

TRANSMISSION, ENTER "T"
 DISTRIBUTION, ENTER "D"
 SECONDARY, ENTER "S"
 SERVICE, ENTER "C"
 TRANSFORMER, ENTER "X"
 FOR 2ND. CHARACTER, ENTER
 "C" FOR "CONDUCTOR"

OVERHEAD

1200-CD

SET CODE			STOCK DESCRIPTION	CODE WORD	STK. NO.	#/1000'
D S	C	ACSR4	ACSR 4 not new	SWANATE	5450500	67.1
D S	C	ACSR2	ACSR 2	SPARATE	5450700	106.7
T D S	C	ACSR1/0	ACSR 1/0	RAVEN	5451000	145.2
T D S	C	ACSR4/0	ACSR 4/0	PENGUIN	5451400	291.1
T D S	C	ACSR397	ACSR 397.5 MCM STRANDED	CHICKADEE	5452000	432.0
T D	C	ACSR556	ACSR 556.5 MCM STRANDED	DOVE	5452500	766.0
T	C	ACSR795	ACSR 795 MCM STRANDED	DRAKE	5453800	1094.0
T D S	C	AAC1/0	ALUMINUM 1/0 AAC	POPPY	5481000	99.1
T D S	C	AAC4/0	ALUMINUM 4/0 AAC	OXLIP	5481400	198.6
D	C	AAC556	ALUMINUM 556.5 MCM AAC	DAHLIA	5482000	522.4
T	C	AAC795	ALUMINUM 795 MCM AAC	ARBUTUS	5483800	746.3
T	C	AAC1272	ALUMINUM 1272 MCM AAC	NARCISSUS	5485400	1119.0
T D	C	AAAC394	ALUMINUM 394.5 MCM AAAC	CANTON	5492500	370.4
D S	C	CB6SHD	CU BARE 6 SOLID HARD DRAWN	x	5050300	79.5
D S	C	CB1/0SHD	CU BARE 1/0 STRANDED HARD DRAWN	x	5051000	325.7
D S	C	CB4ST	CU BARE 4 STRANDED MEDIUM HARD DRAWN	x	5080500	128.9
D S	C	CB2ST	CU BARE 2 STRANDED SD	x	5080700	201.9
T D S	C	CB1/0ST	CU BARE 1/0 STRANDED SD	x	5081000	325.7
T D S	C	CB4/0ST	CU BARE 4/0 STRANDED SD	x	5081400	653.3
D S	C	CB500ST	CU BARE 500 MCM STRANDED SD	x	5082900	1544.0
D	C	TW4SHD	TIE WIRE 8 SOLID CU BARE SD	x	5030100	126.3
D	C	TW6SHD	TIE WIRE 6 SOLID CU BARE SD	x	5030300	79.4
D	C	TW4SHD	TIE WIRE 4 SOLID CU BARE SD	x	5030500	126.3
D S	C	ATW4S	TIE WIRE ALUMINUM 4 SOFT	x	5430500	38.41
D S	C	AMDT4	AMERDUCTOR #4	x	5020500	x
S C	C	C4TP	TRIPLEX CU 4	CENTURY	5120500	x
S C	C	C2TP	TRIPLEX CU 2		5120700	672.
S C	C	C1/0TP	TRIPLEX CU 1/0		5121000	x
S C	C	A6DP	DUPLEX ALUMINUM 6		5530300	x
S C	C	A2TP	TRIPLEX ALUMINUM #2 - #2 - #4	COCKLE	5550700	x
S C	C	A1/0TP	TRIPLEX ALUMINUM 1/0 - 1/0 - #2	JANTHINA	5551000	x
S C	C	A2/0TP	TRIPLEX ALUMINUM 2/0 - 2/0 - 1/0	CLIO	5551200	x
S C	C	A4/0TP	TRIPLEX ALUMINUM 4/0 - 4/0 - 1/0	CERAPUS	5551400	x
S C	C	A2QP	QDRPLX ALUMINUM 2	PALOMINO	5580700	x
S C	C	A1/0QP	QDRPLX ALUMINUM 1/0	COSTENA	5581000	x
S C	C	A4/0QP	QDRPLX ALUMINUM 4/0	APPALOOSA	5581400	x
S C		TRGAR 2	TREE GUARD PLASTIC #2 TRIPLEX		5960000	
S C		TRGAR1/0	TREE GUARD PLASTIC #1/0 TRIPLEX		5960400	
X D S C	C	CWP1/0ST	CABLE CU WP 1/0	x	5012000	398.0
X D S C	C	CWP4/0ST	CABLE CU WP 4/0	x	5012400	761.0
X D S C	C	CWP350ST	CABLE CU WP 350	x	5012800	x

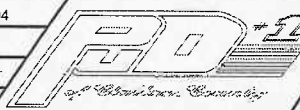
DATE: 08/20/04

REV: 04/17/06

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPECBOOK\1200\CD-CONDUCTOR\CD-1



PG 1
OF 1

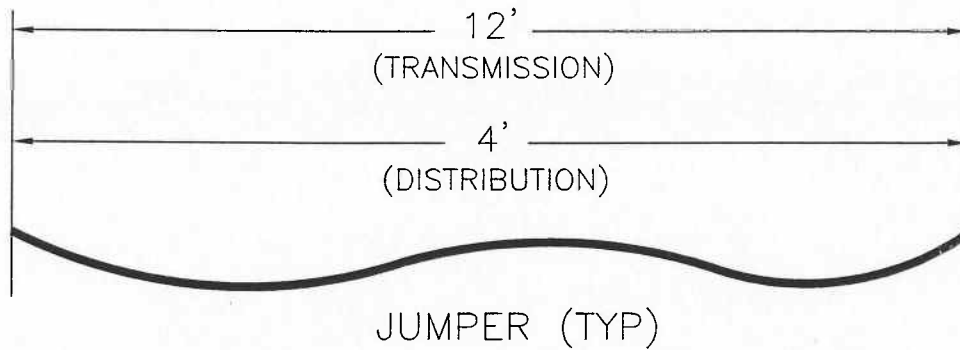
GROUP: CONDUCTOR - OVERHEAD

TYPE: ALUMINUM & COPPER

OPTIONS:

CD-2

JUMPER CHART



COPPER

SET CODE	DESCRIPTION	STOCK #
JUMP6CU	xxx 6 CU TIE WIRE SOLID	5030300
JUMP4CU	xxx 4 CU TIE WIRE SOLID	5030500
JUMP2CUST	xxx 2 CU SD 7-STRAND	5080700
JUMP1/0CU	xxx 1/0 CU SD 19-STRAND	5081000
JUMP4/0CU	xxx 4/0 CU SD 19-STRAND	5081400

ALUMINUM

SET CODE	DESCRIPTION	STOCK #
JUMP1/0A	xxx 1/0 AAC 7-STRAND	5481000
JUMP4/0A	xxx 4/0 ACC 7-STRAND	5481400
JUMP394AA	394.5 AAAC 19 STRAND	5492500
JUMP556A	556.5 AAC 19-STRAND	5482000
JUMP795A	795 AAC 37-STRAND	5483800
JUMP1292A	1272 AAC 61-STRAND	5485400

T+ (SET CODE) FOR 12FT OF CONDUCTOR

D+ (SET CODE) FOR 4FT OF CONDUCTOR

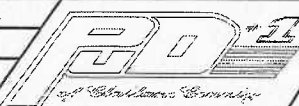
DATE: 08/20/04

REV: 07/24/06

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\05 SPECBOOK\1000\CJ JUMPER



PG 1
OF 1

GROUP: CONDUCTOR-JUMPER
TYPE: JUMPERS

CD-5

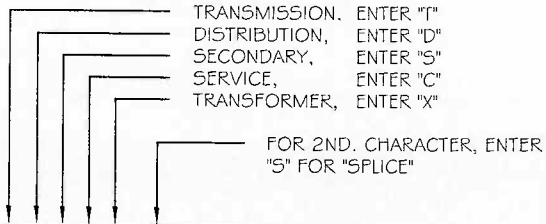
OVERHEAD SPLICE SET CODE CHART

1220.CN

FOR 1ST. CHARACTER,
IF SPLICE IS USED IN:

TYPE CODE:

FERC NO:



SPLICE	356
SPLICE	365
SPLICE	365
SPLICE	369
SPLICE	368

SET CODE		STK. NO.	STOCK DESCRIPTION
T D S C X S	PAUCU8S	6080100	COPPER AUTO
T D S C X S	PAUCU6S	6080300	SPLICE AUTO CU SOL 8
T D S C X S	PAUCU4S	6080500	SPLICE AUTO CU SOL 6
T D S C X S	PAUCU2S	6080700	SPLICE AUTO CU SOL 4
T D S C X S	PAUCU2ST	6085700	SPLICE AUTO CU SOL 2
T D S C X S	PAUCU1/O	6086000	SPLICE AUTO CU STR 2
T D S C X S	PAUCU2/O	6086400	SPLICE AUTO CU STR 1/O
T D S C X S	PPR1/OAL	6121000	SPLICE AUTO CU STR 2/O
T D S C X S	PPR1/OAL	6121000	SPLICE PREFORMED
T D S C X S	PPR1/OAL	6121000	SPLICE PRFRM 1/O AL
T D S C X S	PAU4AS	6180500	ALUMINUM SPLICE AUTO
T D S C X S	PAU4/2AS	6180600	SPLICE AUTO ACSR 4
T D S C X S	PAU2AS	6180700	SPLICE AUTO ACSR 4 AND 2
T D S C X S	PAU1/OAS	6181000	SPLICE AUTO ACSR 2
T D S C X S	PAU4/OAS	6182000	SPLICE AUTO ACSR 1/O
T D S C X S	PAU397AS	6182600	SPLICE AUTO ACSR 4/O
T D S C X S	PAU556A	6183000	SPLICE AUTOMATIC 394.5 AAC
T D S	S	PCO2CU	6221000
T D S	S	PCO1/OCU	6221500
T D S	S	PCO4/OCU	6221700
T D S	S	PCO1/OAS	6221900
T D S	S	PCO4/OAS	6222000
T D S	S	PCO397AS	6222700
D	S	PCO556AS	6223200
T	S	PCO795AS	6224800
D	S	PCO556A	6223500
T	S	PCO795A	6224400
T	S	PCO127A	6225500

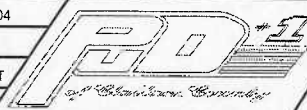
DATE: 08/20/04

REV: 02/17/06

DRAWN: JK/DT

CHK: RA/DP

FILE: H:\ENGSTANDARDS\07 SPEC\1200\1220-SPL1



PG 1
OF 1

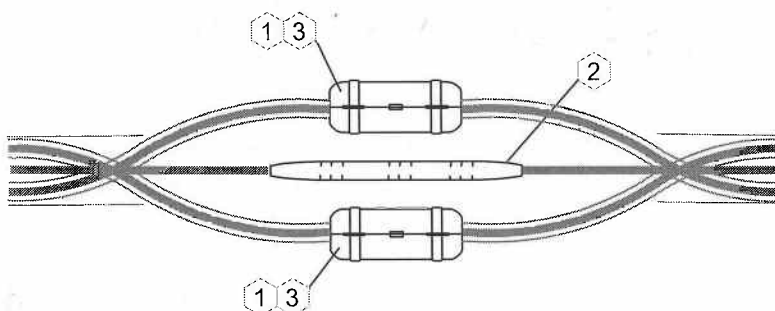
GROUP: SPLICES

TYPE: COMPRESSION & AUTOMATIC SET CODES

OPTIONS: SEE MAIN AND TAP SIZES ABOVE

SPL-1

SEE MANUFACTURE SPECIFICATIONS FOR INSTALLATION INSTRUCTIONS
SEE 1200 - FOR MANUFACTURE SPECIFICATIONS



TRIPLEX (1/0 - 1/0 - #2) - SERVICE SPLICE - SVC SPL1
TRIPLEX (#2- #2 - #4) - SERVICE SPLICE - SVC SPL2
TRIPLEX (#4 - #4 - #4) - SERVICE SPLICE - SVC SPL4

ITEM	DESCRIPTION	SVC CONDUCTOR SIZE			STOCK #
		1/0-1/0-#2	#2-#2-#4	#4-#4-#4	
		SVC-SPL1	SVC-SPL2	SVC-SPL4	
1	xxx SERVICE SLEEVE 1/0-1/0	2	0	0	6033900
"	xxx SERVICE SLEEVE #2-#2	0	2	0	6032100
"	xxx SERV SLEEVE #4-#4	0	0	2	6030700
2	xxx NEUTRAL SLEEVE #2	1	0	0	6020700
"	xxx NEUTRAL SLEEVE #4	0	1	1	6020500
3	xxx SMALL H-TAP COVER	2	2	2	6393200

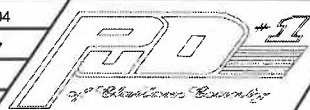
DATE: 08/20/04

REV: 6/21/2007

DRAWN: DT

CHK: RA/DP

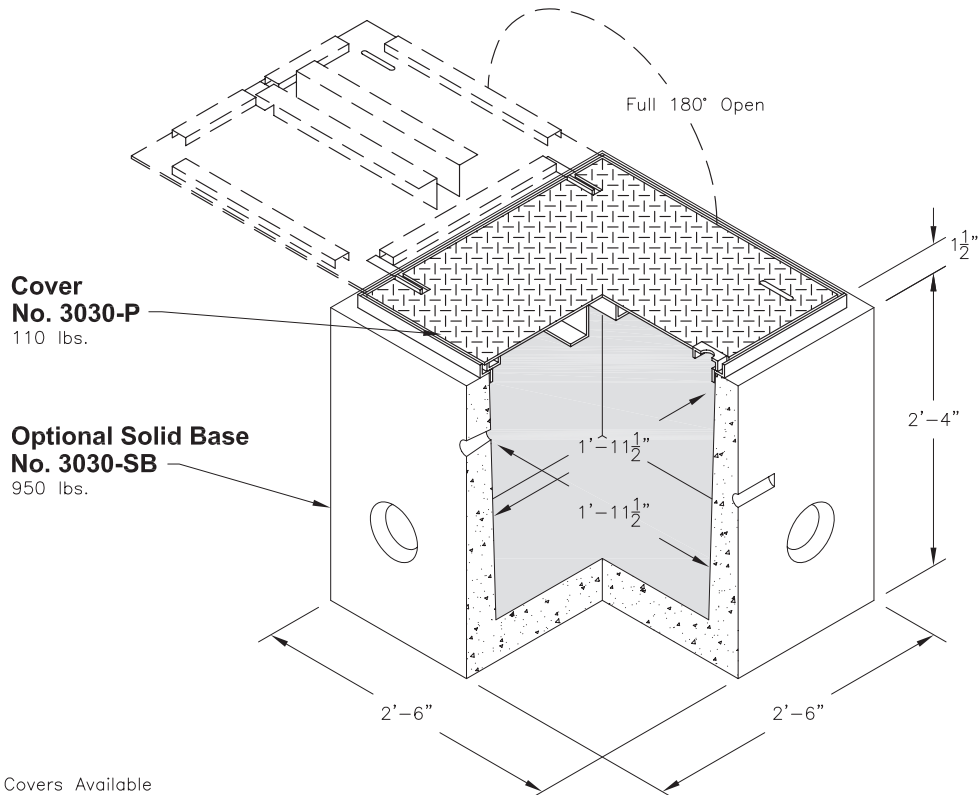
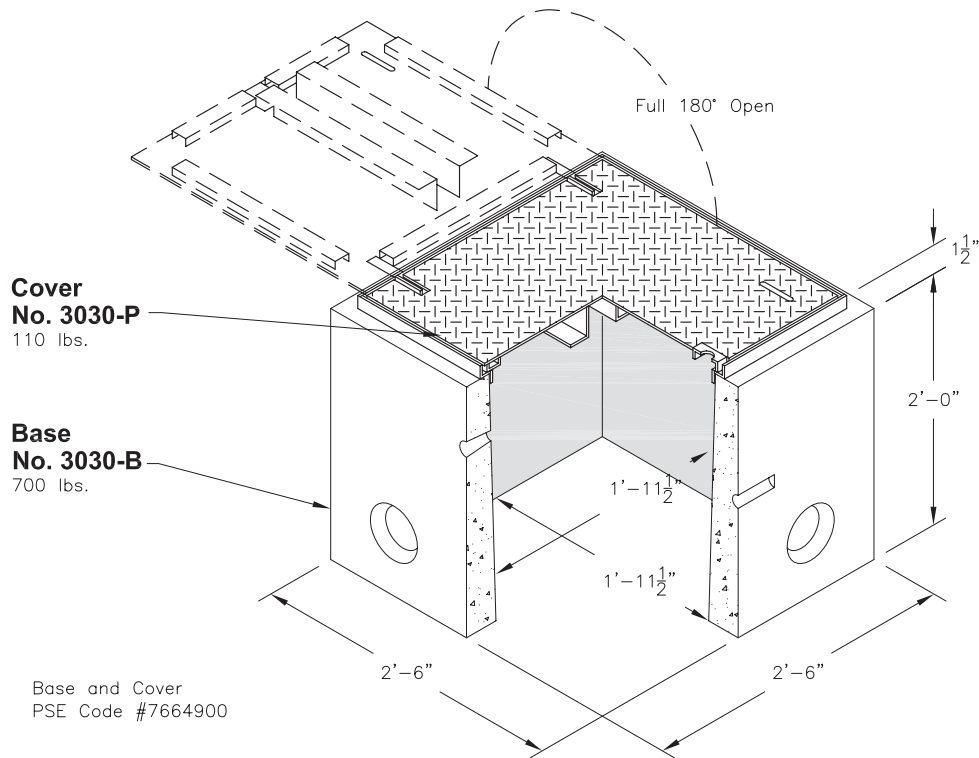
FILE: H:\ENGSTANDARDS\05 SPEC\300\360\SVC-1

PG 1
OF 1

GROUP: OVERHEAD - SECONDARY - 1 PHASE
TYPE: SERVICE SPLICE - SVC NEUT. SPLICE

OPTIONS:

SVC-SPL



Non Skid Covers Available

FOR DETAILS, SEE REVERSE SIDE >>

Items Shown Are Subject To Change Without Notice
Issue Date: January 2006