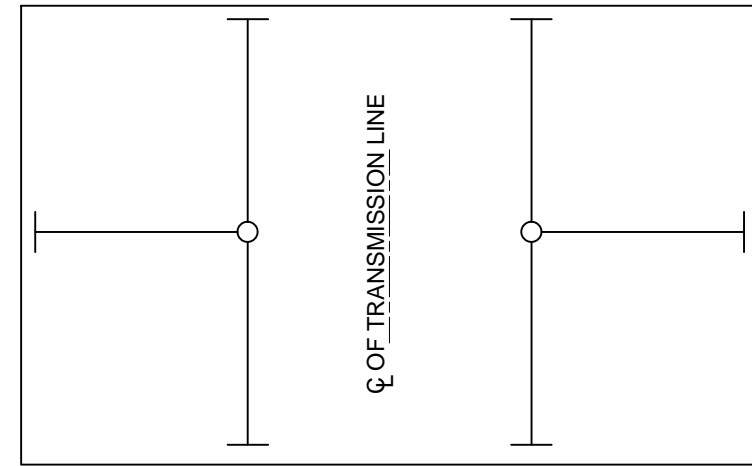


BILL OF MATERIAL (CU Type: POLE)					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-TV-1HHDA	
1	12	EA	1000910600	NUT LCK MF SQ. 5/8 BOLT GALV	
2	12	EA	1000910800	NUT LCK MF SQ. 7/8 BOLT GALV	
3	8	EA	751115	BOLT SQ HEAD 5/8 X 10" W/ SQ NUT (NOTE E)	
4	2	EA	191868	BOLT STUD 5/8 X 20" W/ SQ NUT (NOTE E)	
5	2	EA	600272460	BOLT STUD 7/8 X 26" W/ SQ NUTS (NOTE E)	
6	8	EA	1035475022	BOLT SQ HEAD 7/8 X 22" W/ SQ NUT (NOTE E)	
7	12	EA	600274600	WASHER HELICAL (5/8")	
8	12	EA	600274612	WASHER HELICAL (7/8")	
9	4	EA	600274880	WASHER 4" SQ CURVED (7/8")	
10	4	EA	600274810	WASHER 2 1/2" SQ (5/8")	
11	4	EA	1000946500	WASHER 4" SQ (7/8")	
12	3	EA	600274008	PLATE SPACER ASSY, DOUBLE XARM (NOTE F)	
13	6	EA	600274040	PLATE POLE EYE 15/16 H	
14	4	EA	600273231	GAIN GRID 4 1/2" X 9" F/ 7/8" BOLT	
15	4	EA	6000740330	CROSSARM BRACES WOOD (PAIR)	
16	2	EA	6000820052	POLE TOPPER 19"	

BILL OF MATERIAL (CU Type: XARM)					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-MT-1L-C-CE29	
17	2 CUs	EA	6000740762	DOUBLE CROSSARM LAMINATED WOOD TYPE A 29'-0", 15/16" H	

BILL OF MATERIAL (CU Type: INSO)					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-9P-D3-7	
18	3 CUs	EA	6000310739	INS SUS CL52-3 20K M&E BRN (7 UNITS/STRING)	
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-1Y-P3-E	
18	3	EA	6000311011	INS POLY Y-BALL 30K 7 UNIT EQ. W/COR RING	



CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.

FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*).

- NOTE A: OTHER STANDARD DRAWINGS REQUIRED:
- TD FOUNDATION & BACKFILL
 - TG GROUND WIRE & GROUND ROD DETAIL
 - TH GUYING ASSEMBLIES
 - TK MARKINGS
 - TQ CROSS-BRACE INSTALLATION
 - TR GUY ANCHORS

NOTE B: POLE DRILLING: 5/8" BOLT - 11/16" DIAMETER HOLE
7/8" BOLT - 15/16" DIAMETER HOLE

NOTE C: TO SEAT SPIKE GRIDS, ASSEMBLE ARM & OTHER REQUIRED HARDWARE HAND TIGHTEN TO INSURE FIT, USE HYDRAULIC TOOLS TO SET GRIDS PROPERLY.

NOTE D: STRUCTURES UTILIZING 75' POLES AND TALLER REQUIRE A SECOND X-BRACE. REFER TO "TQ" SECTION FOR STANDARD CROSS BRACE AND REQUIRED HARDWARE.

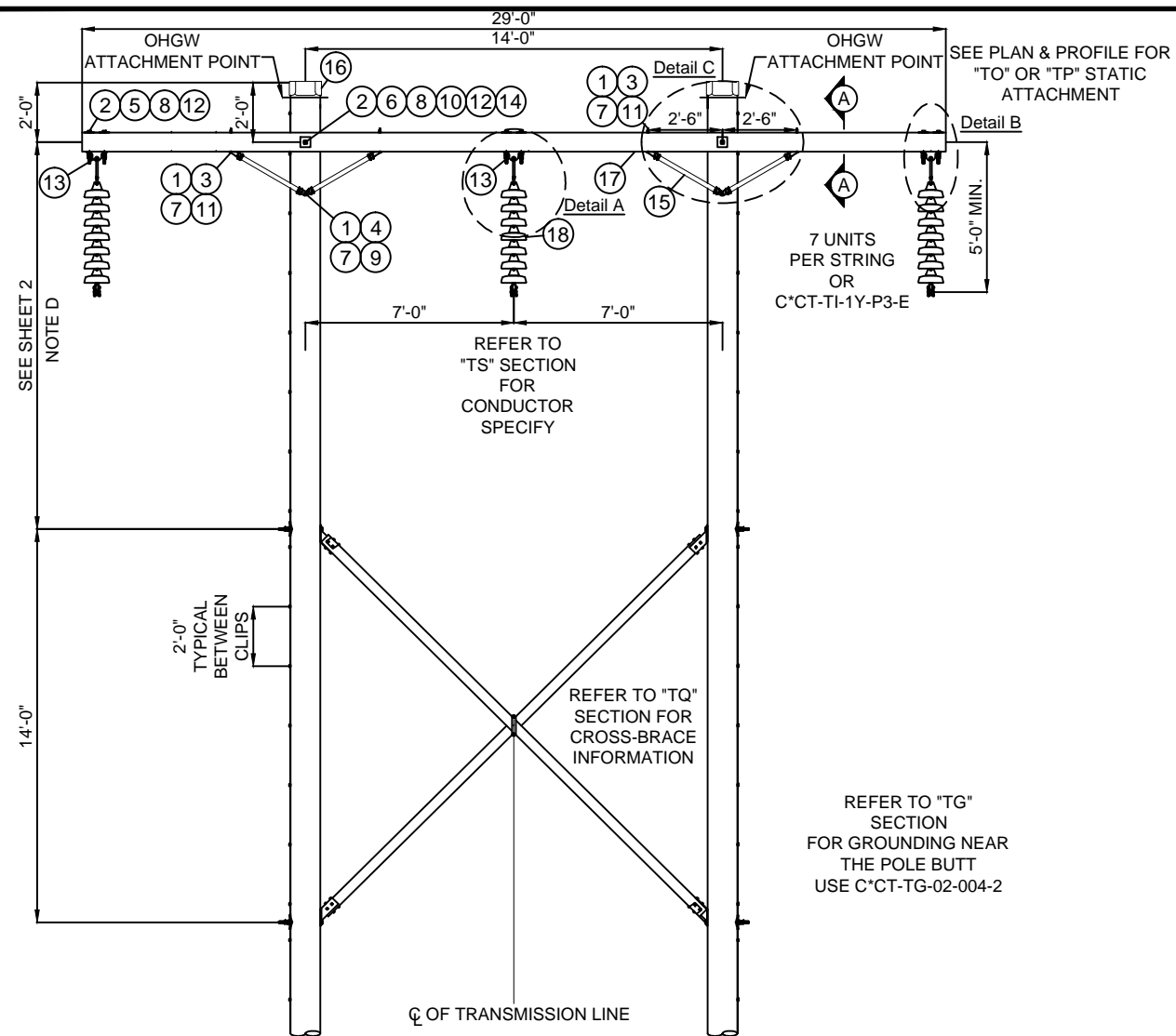
NOTE E: LARGER OR SMALLER BOLTS MAY BE REQUIRED DEPENDING ON THE ACTUAL DIAMETER OF THE POLE USED. SUBSTITUTE MATERIAL ID (MID) ON THE WORK ORDER COMPONENTS PAGE FOR THE LENGTH NEEDED IF DIFFERENT THAN THE GENERIC LENGTH SHOWN IN THE BILL OF MATERIALS. CONTACT ENGINEERING STANDARDS - TRANSMISSION SECTION IF YOU NEED ASSISTANCE.

NOTE F: ALL MOUNTING HARDWARE INCLUDED WITH CROSSARM SPACER. ASSEMBLE SPACER PER MANUFACTURER'S INSTRUCTIONS.

NOTE G: GUYING ANGLES SHOWN ARE GUIDELINES. IF THE SPECIFIC FIELD CONDITIONS IN THE AREA WHERE THIS STRUCTURE IS INSTALLED DO NOT ACCOMMODATE THIS GUYING ARRANGEMENT THEN THE CHANGES TO THE GUYING ARRANGEMENT SHALL BE NOTED ON THE RESPECTIVE PLAN AND PROFILE DRAWING.

THIS IS A COMPUTER GENERATED DRAWING - DO NOT REVISE MANUALLY

Contact Engineering Standards - Transmission Section for the creation of new standards and CUs.			Drawing Scale: 1" = 6'		
	TRANSMISSION CONSTRUCTION STANDARDS MANUAL	STRUCTURE STANDARDS - WOOD			REVISION
		115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY			00
			TANGENT SUSPENSION STRUCTURE - DOUBLE ARM		DATE
			CMP TYPE DM		5/21/2015
Drwn. By:	Date Dr.:	Checked By:	Date Ck.:	Approved By:	Date App.:
B. Franklin	1/23/2014	Becken/Hart	3/05/2015	Barry R. Hart	4/16/2015
TM2.23.TV-1HHDA-X					Sheet 1



CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.

FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_).

NOTE A: OTHER STANDARD DRAWINGS REQUIRED:

- TD FOUNDATION & BACKFILL
- TG GROUND WIRE & GROUND ROD DETAIL
- TK MARKINGS
- TQ CROSS-BRACE INSTALLATION

NOTE B: POLE DRILLING: 5/8" BOLT - 11/16" DIAMETER HOLE
 3/4" BOLT - 13/16" DIAMETER HOLE
 7/8" BOLT - 15/16" DIAMETER HOLE

NOTE C: TO SEAT SPIKE GRIDS, ASSEMBLE ARM & OTHER REQUIRED HARDWARE HAND TIGHTEN TO INSURE FIT, USE HYDRAULIC TOOLS TO SET GRIDS PROPERLY.

NOTE D: STRUCTURES UTILIZING 75' POLES AND TALLER REQUIRE A SECOND X-BRACE. REFER TO "TQ" SECTION FOR STANDARD CROSS BRACE AND REQUIRED HARDWARE.

NOTE E: LARGER OR SMALLER BOLTS MAY BE REQUIRED DEPENDING ON THE ACTUAL DIAMETER OF THE POLE USED. SUBSTITUTE MATERIAL ID (MID) ON THE WORK ORDER COMPONENTS PAGE FOR THE LENGTH NEEDED IF DIFFERENT THAN THE GENERIC LENGTH SHOWN IN THE BILL OF MATERIALS. CONTACT ENGINEERING STANDARDS - TRANSMISSION SECTION IF YOU NEED ASSISTANCE.

BILL OF MATERIAL (CU Type: POLE)

ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-TV-1HSA
1	6	EA	1000910600	NUT LCK MF SQ. 5/8 BOLT GALV
2	8	EA	1000910800	NUT LCK MF SQ. 7/8 BOLT GALV
3	4	EA	751115	BOLT SQ HEAD 5/8 X 10" W/ SQ NUT (NOTE E)
4	2	EA	751116	BOLT SQ HEAD 5/8 X 12" W/ SQ NUT (NOTE E)
5	6	EA	1035475010	BOLT SQ HEAD 7/8 X 10" W/ SQ NUT (NOTE E)
6	2	EA	1035475020	BOLT SQ HEAD 7/8 X 20" W/ SQ NUT (NOTE E)
7	6	EA	6000274600	WASHER HELICAL (5/8")
8	8	EA	6000274612	WASHER HELICAL (7/8")
9	2	EA	6000274821	WASHER 3" SQ CURVED (5/8")
10	2	EA	6000274880	WASHER 4" SQ CURVED (7/8")
11	4	EA	6000274810	WASHER 2 1/2" SQ (5/8")
12	8	EA	1000946500	WASHER 4" SQ (7/8")
13	3	EA	6000274505	DEAD END TEE, 60K
14	2	EA	6000273231	GAIN GRID 4 1/2" X 9" F/ 7/8" BOLT
15	2	EA	6000740330	CROSSARM BRACES WOOD (PAIR)
16	3	EA	6000820052	POLE TOPPER 19"

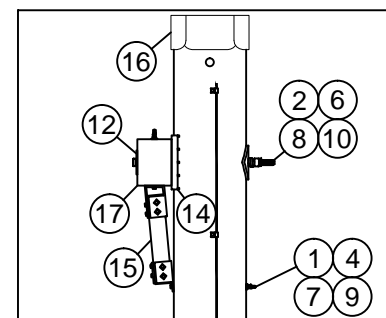
BILL OF MATERIAL (CU Type: XARM)

ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-MT-1L-B-CE29
17	1 CU	EA	6000740760	CROSSARM LAMINATED WOOD TYPE A 29'-0", 15/16" H

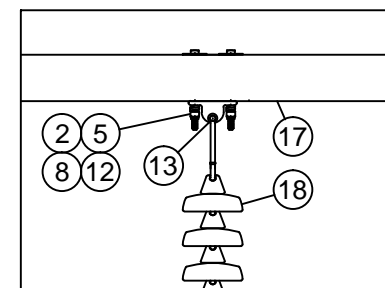
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-1Y-P3-E
17	3	EA	6000311011	INS POLY Y-BALL 30K 7 UNIT EQ. W/COR RING

BILL OF MATERIAL (CU Type: INSO) - SINGLE CONDUCTOR PER PHASE

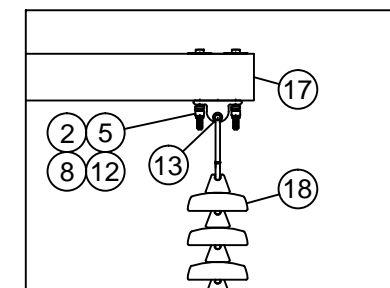
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-9P-D3-7
18	3 CUs	EA	6000310739	INS SUS CL52-3 20K M&E BRN (7 UNITS/STRING)



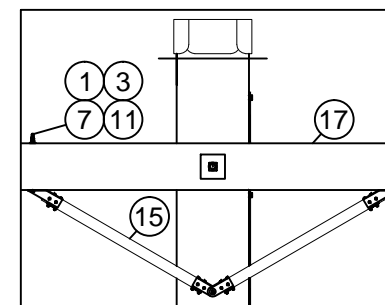
SECTION A-A



Detail 'A'



Detail 'B'



Detail 'C'

THIS IS A COMPUTER GENERATED DRAWING - DO NOT REVISE MANUALLY

Contact Engineering Standards - Transmission Section for the creation of new standards and CUs.

Drawing Scale: 1" = 6'



TRANSMISSION CONSTRUCTION STANDARDS MANUAL

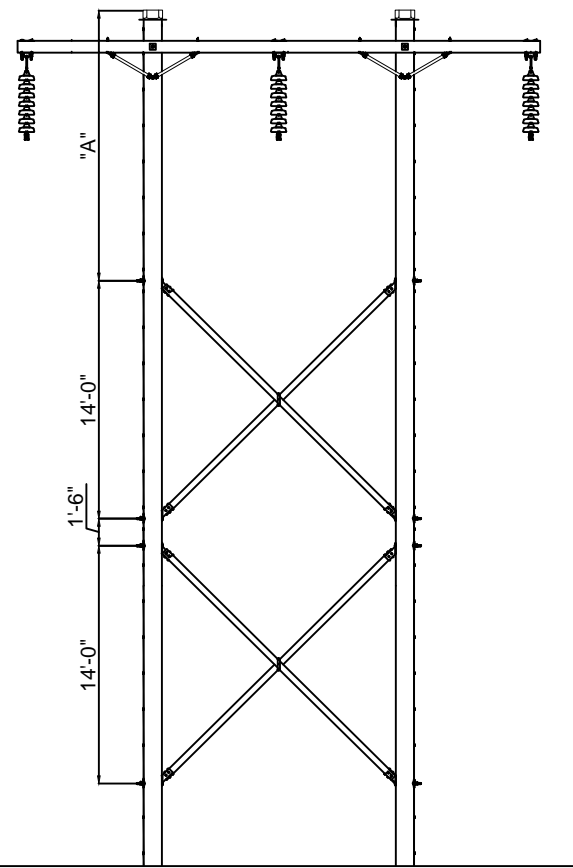
STRUCTURE STANDARDS - WOOD
 115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY
 TANGENT SUSPENSION STRUCTURE - SINGLE ARM
 CMP TYPE AM

REVISION
00
DATE
5/21/2015

Drwn. By: B. Franklin	Date Dr.: 1/22/2014	Checked By: Becken/Hart	Date Ck.: 3/05/2015	Approved By: Barry R. Hart	Date App.: 4/16/2015
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TM2.23.TV-1HSA-X

Sheet 1



X-BRACE INFORMATION		
POLE LENGTH (FT.)	"A" DIMENSION	NO. OF X-BRACES
50	11'-0"	1
55	12'-6"	1
60	14'-0"	1
65	15'-6"	1
70	17'-0"	1
75	18'-6"	2
80	20'-0"	2
85	21'-6"	2
90	23'-0"	2
95	24'-6"	2
100	26'-0"	2
105	27'-6"	2
110	29'-0"	2
115	30'-6"	2
120	32'-0"	2
125	33'-6"	2

USE THE MACRO CUs INSTEAD OF INDIVIDUAL CU COMPONENTS FOR EASE OF WORK ORDER ENTRY.

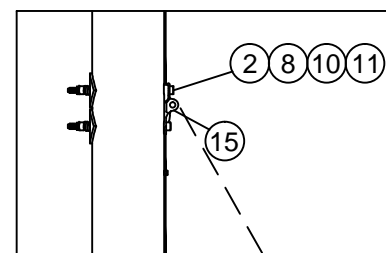
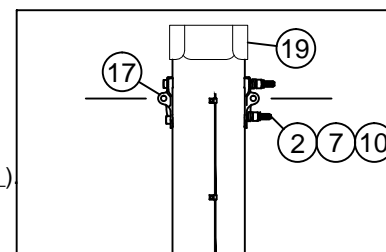
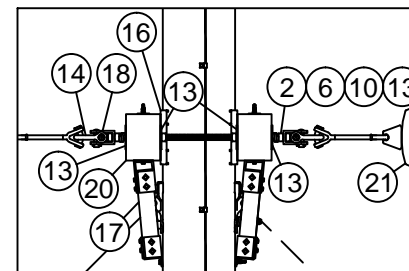
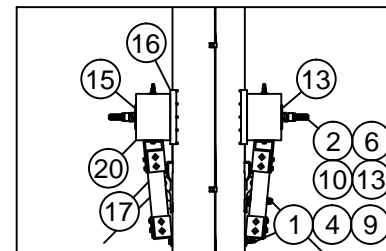
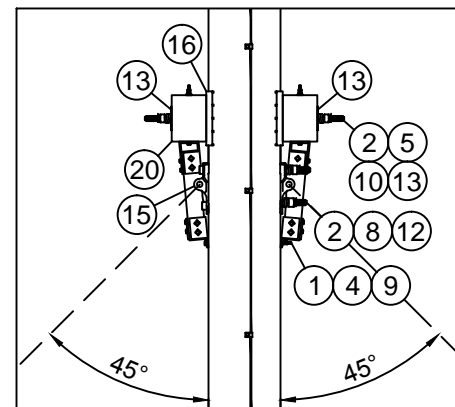
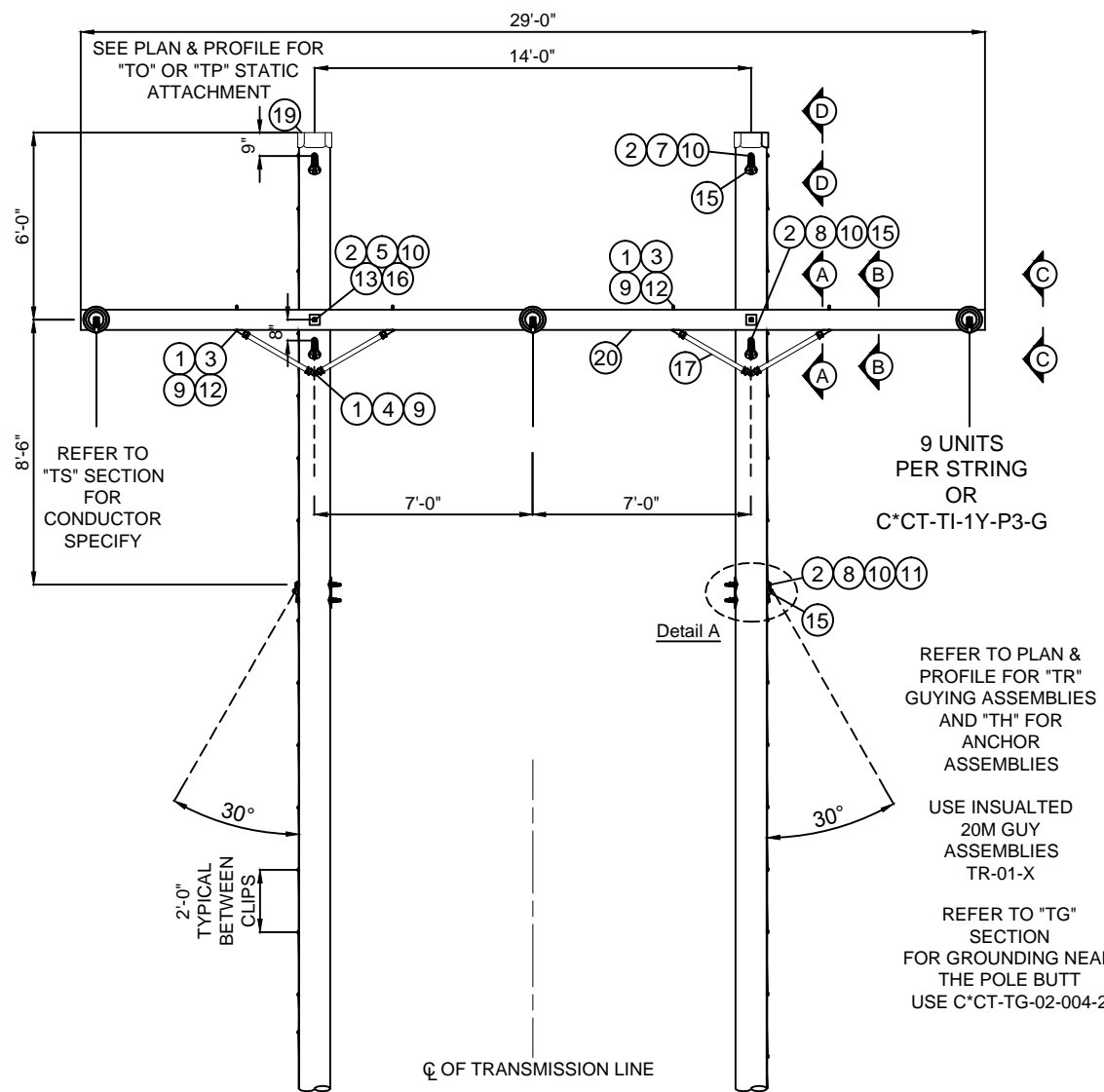
CU MACRO	CONDUCTOR	STATIC	COND SPECIFY	STATIC SPECIFY
C*M-TV1HHSA-B-L2	(3) - 477 ACSR 18/1	(2) - 3#6 AWLD	TS-S1-B	(2) TP-W-TS-G-L
C*M-TV1HHSA-B-LO	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-B	TP-W-TS-G-L TO-W-TS-G-O
C*M-TV1HHSA-B-LQ	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-B	TP-W-TS-G-L TO-W-TS-G-Q
C*M-TV1HHSA-B-LR	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-B	TP-W-TS-G-L TO-W-TS-G-R
C*M-TV1HHSA-W-L2	(3) - 795 ACSR 36/1	(2) - 3#6 AWLD	TS-S1-W	(2) TP-W-TS-G-L
C*M-TV1HHSA-W-LO	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-W	TP-W-TS-G-L TO-W-TS-G-O
C*M-TV1HHSA-W-LQ	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-W	TP-W-TS-G-L TO-W-TS-G-Q
C*M-TV1HHSA-W-LR	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-W	TP-W-TS-G-L TO-W-TS-G-R
C*M-TV1HHSA-X-L2	(3) - 795 ACSR 26/7	(2) - 3#6 AWLD	TS-S1-X	(2) TP-W-TS-G-L
C*M-TV1HHSA-X-LO	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-X	TP-W-TS-G-L TO-W-TS-G-O
C*M-TV1HHSA-X-LQ	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-X	TP-W-TS-G-L TO-W-TS-G-Q
C*M-TV1HHSA-X-LR	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-X	TP-W-TS-G-L TO-W-TS-G-R
C*M-TV1HHSA-2-L2	(3) - 1272 AAC	(2) - 3#6 AWLD	TS-S1-2	(2) TP-W-TS-G-L
C*M-TV1HHSA-2-LO	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-2	TP-W-TS-G-L TO-W-TS-G-O
C*M-TV1HHSA-2-LQ	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-2	TP-W-TS-G-L TO-W-TS-G-Q
C*M-TV1HHSA-2-LR	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-2	TP-W-TS-G-L TO-W-TS-G-R

CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.
 FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_).
 REFER TO SECTION "TS" FOR CONDUCTOR ASSEMBLIES.

THIS IS A COMPUTER GENERATED DRAWING - DO NOT REVISE MANUALLY

Contact Engineering Standards - Transmission Section for the creation of new standards and CUs. Drawing Scale: 1" = 6'

	TRANSMISSION CONSTRUCTION STANDARDS MANUAL	STRUCTURE STANDARDS - WOOD 115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY TANGENT SUSPENSION STRUCTURE - SINGLE ARM CMP TYPE AM	REVISION
			00
			DATE
			5/21/2015
Drwn. By:	Date Dr.:	Checked By:	Date Ck.:
B. Franklin	1/22/2014	Becken/Hart	3/05/2015
Approved By:	Date App.:	TM2.23.TV-1HHSA-X	
Barry R. Hart	4/16/2015	Sheet 2	



BILL OF MATERIAL (CU Type: POLE)

ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-TV-1HHXA
1	6	EA	1000910600	NUT LCK MF SQ. 5/8 BOLT GALV
2	22	EA	1000910800	NUT LCK MF SQ. 7/8 BOLT GALV
3	4	EA	751115	BOLT SQ HEAD 5/8 X 10" W/ SQ NUT (NOTE F)
4	2	EA	751116	BOLT SQ HEAD 5/8 X 12" W/ SQ NUT (NOTE F)
5	2	EA	6000272460	BOLT DA 7/8 X 26" W/ SQ NUTS (NOTE F)
6	3	EA	6000272462	BOLT DA 7/8 X 28" W/ SQ NUTS (NOTE F)
7	4	EA	1035475016	BOLT SQ HEAD 7/8 X 16" W/ SQ NUT (NOTE F)
8	8	EA	1035475022	BOLT SQ HEAD 7/8 X 22" W/ SQ NUT (NOTE F)
9	6	EA	6000274600	WASHER HELICAL (5/8")
10	22	EA	6000274612	WASHER HELICAL (7/8")
11	4	EA	6000274880	WASHER 4" SQ CURVED (7/8")
12	4	EA	6000274810	WASHER 2 1/2" SQ (5/8")
13	16	EA	1000946500	WASHER 4" SQ (7/8")
14	6	EA	1039220531	SHCKL ANCH 7/8 BNK 1-1/4 OPNG
15	10	EA	6000274040	PLATE POLE EYE 15/16 H
16	4	EA	6000273231	GAIN GRID 4 1/2" X 9" F/ 7/8" BOLT
17	4	EA	6000740330	CROSSARM BRACES WOOD (PAIR)
18	6	EA	6000272870	CLEVIS DEADEND, 15/16 H, BNK, 25K
19	2	EA	6000820052	POLE TOPPER 19"

BILL OF MATERIAL (CU Type: XARM)

ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-TT-1L-C-CE29
20	1 CU	EA	6000740762	DOUBLE CROSSARM LAMINATED WOOD TYPE A 29'-0", 15/16" H

BILL OF MATERIAL (CU Type: INSO)

ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-9P-D3-9
21	6 CUs	EA	6000310739	INS SUS CL52-3 20K M&E BRN (9 UNITS/STRING)
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-1Y-P3-G
21	6	EA	6000311036	INS POLY Y-BALL 30K 9 UNIT EQ. W/COR RING

CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.

FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_)

NOTE A: OTHER STANDARD DRAWINGS REQUIRED:

- TD FOUNDATION & BACKFILL
- TG GROUND WIRE & GROUND ROD DETAIL
- TH GUYING ASSEMBLIES
- TK MARKINGS
- TQ CROSS-BRACE INSTALLATION
- TR GUY ANCHORS

NOTE B: POLE DRILLING: 5/8" BOLT - 11/16" DIAMETER HOLE
7/8" BOLT - 15/16" DIAMETER HOLE

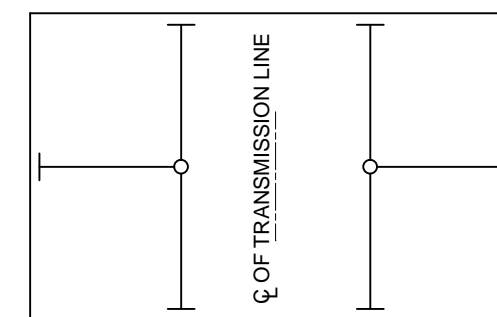
NOTE C: TO SEAT SPIKE GRIDS, ASSEMBLE ARM & OTHER REQUIRED HARDWARE HAND TIGHTEN TO INSURE FIT, USE HYDRAULIC TOOLS TO SET GRIDS PROPERLY.

NOTE D: THIS STRUCTURE IS NOT FOR USE IN BUNDLED CONDUCTOR CONFIGURATIONS.

NOTE E: THIS STRUCTURE HAS A MAXIMUM CAPACITY FOR DEADENDING CONDUCTORS OF 4,500# AT NESC HEAVY LOAD.

NOTE F: LARGER OR SMALLER BOLTS MAY BE REQUIRED DEPENDING ON THE ACTUAL DIAMETER OF THE POLE USED. SUBSTITUTE MATERIAL ID (MID) ON THE WORK ORDER COMPONENTS PAGE FOR THE LENGTH NEEDED IF DIFFERENT THAN THE GENERIC LENGTH SHOWN IN THE BILL OF MATERIALS. CONTACT ENGINEERING STANDARDS - TRANSMISSION SECTION IF YOU NEED ASSISTANCE.

NOTE G: GUYING ANGLES SHOWN ARE GUIDELINES. IF THE SPECIFIC FIELD CONDITIONS IN THE AREA WHERE THIS STRUCTURE IS INSTALLED DO NOT ACCOMMODATE THIS GUYING ARRANGEMENT THEN THE CHANGES TO THE GUYING ARRANGEMENT SHALL BE NOTED ON THE RESPECTIVE PLAN AND PROFILE DRAWING.



GUYING PLAN

THIS IS A COMPUTER GENERATED DRAWING - DO NOT REVISE MANUALLY

Contact Engineering Standards - Transmission Section for the creation of new standards and CUs.			Drawing Scale: 1" = 6'	
	TRANSMISSION CONSTRUCTION STANDARDS MANUAL	STRUCTURE STANDARDS - WOOD		REVISION
		115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY		00
		TANGENT DEADEND STRUCTURE		DATE
		CMP TYPE E		5/21/2015
Drwn. By:	Date Dr.:	Checked By:	Date Ck.:	Approved By:
B. Franklin	1/24/2014	Becken/Hart	3/05/2015	Barry R. Hart
			Date App.:	4/16/2015
				TM2.23.TV-1HHXA-X
				Sheet 1

USE THE MACRO CUs INSTEAD OF INDIVIDUAL CU COMPONENTS FOR EASE OF WORK ORDER ENTRY.

CU MACRO	CONDUCTOR	STATIC	COND SPECIFY	STATIC SPECIFY
C*M-TV1HHXAC-B-L2	(3) - 477 ACSR 18/1	(2) - 3#6 AWLD	TS-N2L1-B	(2) TP-W-DE-G-L
C*M-TV1HHXAC-B-LO	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-N2L1-B	TP-W-DE-G-L TO-W-DE-G-O
C*M-TV1HHXAC-B-LQ	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-N2L1-B	TP-W-DE-G-L TO-W-DE-G-Q
C*M-TV1HHXAC-B-LR	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-N2L1-B	TP-W-DE-G-L TO-W-DE-G-R
C*M-TV1HHXAC-W-L2	(3) - 795 ACSR 36/1	(2) - 3#6 AWLD	TS-N2L1-W	(2) TP-W-DE-G-L
C*M-TV1HHXAC-W-LO	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-N2L1-W	TP-W-DE-G-L TO-W-DE-G-O
C*M-TV1HHXAC-W-LQ	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-N2L1-W	TP-W-DE-G-L TO-W-DE-G-Q
C*M-TV1HHXAC-W-LR	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-N2L1-W	TP-W-DE-G-L TO-W-DE-G-R
C*M-TV1HHXAC-X-L2	(3) - 795 ACSR 26/7	(2) - 3#6 AWLD	TS-N2L1-X	(2) TP-W-DE-G-L
C*M-TV1HHXAC-X-LO	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-N2L1-X	TP-W-DE-G-L TO-W-DE-G-O
C*M-TV1HHXAC-X-LQ	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-N2L1-X	TP-W-DE-G-L TO-W-DE-G-Q
C*M-TV1HHXAC-X-LR	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-N2L1-X	TP-W-DE-G-L TO-W-DE-G-R
C*M-TV1HHXAC-Y-L2	(3) - 1272 AAC	(2) - 3#6 AWLD	TS-N2L1-2	(2) TP-W-DE-G-L
C*M-TV1HHXAC-2-LO	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-N2L1-2	TP-W-DE-G-L TO-W-DE-G-O
C*M-TV1HHXAC-2-LQ	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-N2L1-2	TP-W-DE-G-L TO-W-DE-G-Q
C*M-TV1HHXAC-2-LR	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-N2L1-2	TP-W-DE-G-L TO-W-DE-G-R

CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.

FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_).

REFER TO SECTION "TS" FOR CONDUCTOR ASSEMBLIES.

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Contact Engineering Standards - Transmission Section for the creation of new standards and CUs.

Drawing Scale: N/A



TRANSMISSION
CONSTRUCTION
STANDARDS
MANUAL

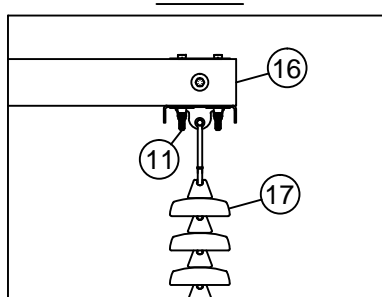
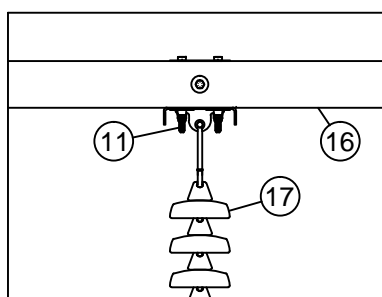
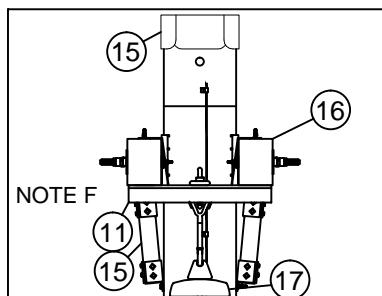
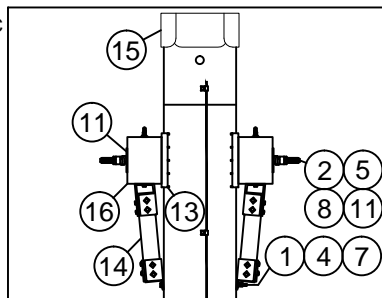
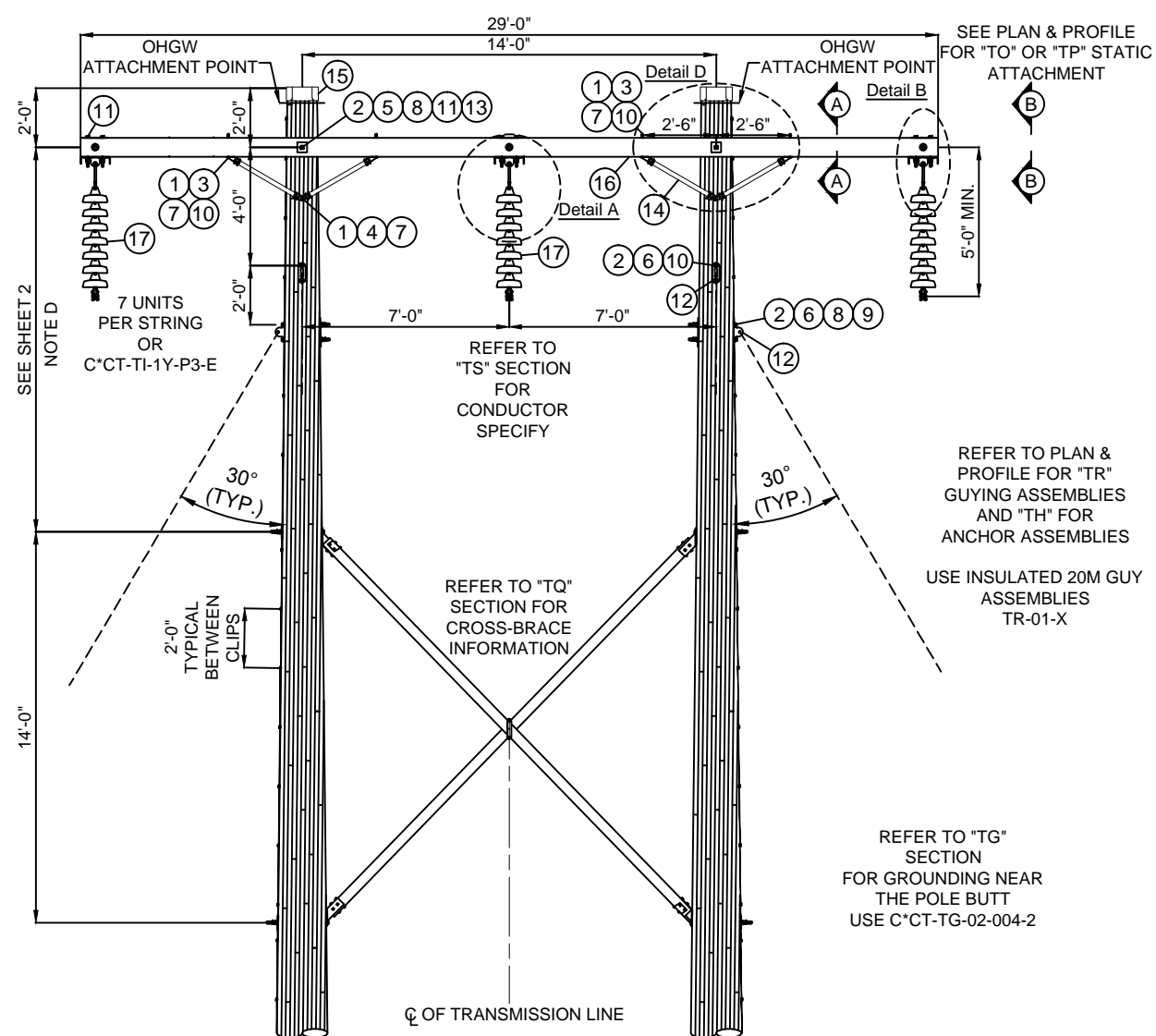
STRUCTURE STANDARDS - WOOD
115kV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY
TANGENT DEADEND STRUCTURE
CMP TYPE E

REVISION	00
DATE	5/21/2015

Drwn. By:	Date Dr.:	Checked By:	Date Ck.:	Approved By:	Date App.:
B. Franklin	1/24/2014	Becken/Hart	3/05/2015	Barry R. Hart	4/16/2015

TM2.23.TV-1HHXA-X

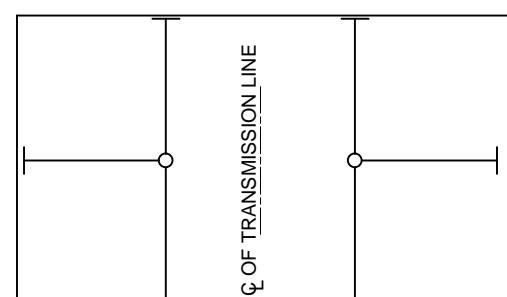
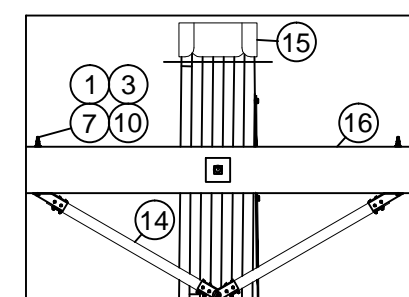
Sheet 2



BILL OF MATERIAL (CU Type: POLE)					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-TV-1JHDA	
1	10	EA	1000910600	NUT LCK MF SQ. 5/8 BOLT GALV	
2	12	EA	1000910800	NUT LCK MF SQ. 7/8 BOLT GALV	
3	8	EA	751115	BOLT SQ HEAD 5/8 X 10" W/ SQ NUT (NOTE E)	
4	2	EA	751116	BOLT SQ HEAD 5/8 X 12" W/ SQ NUT (NOTE E)	
5	2	EA	6000272460	BOLT DA 7/8 X 26" W/ SQ NUTS (NOTE E)	
6	8	EA	1035475022	BOLT SQ HEAD 7/8 X 22" W/ SQ NUT (NOTE E)	
7	10	EA	6000274600	WASHER HELICAL (5/8")	
8	12	EA	6000274612	WASHER HELICAL (7/8")	
9	8	EA	1000946500	WASHER 4" SQ FLAT (7/8")	
10	4	EA	6000274810	WASHER 2 1/2" SQ (5/8")	
11	3	EA	6000274008	PLATE SPACER ASSY, DOUBLE XARM (NOTE F)	
12	6	EA	6000274505	DEAD END TEE, 60K	
13	4	EA	6000273195	GRID GAIN, CROSSARM FOR LAM. WOOD	
14	4	EA	6000740330	CROSSARM BRACES WOOD (PAIR)	
15	2	EA	6000820052	POLE TOPPER 19"	

BILL OF MATERIAL (CU Type: XARM)					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-MT-1L-C-CE29	
16	2 CUs	EA	6000740762	DOUBLE CROSSARM LAMINATED WOOD TYPE A 29'-0", 15/16" H	

BILL OF MATERIAL (CU Type: INSO)					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-9P-D3-7	
17	3 CUs	EA	6000310739	INS SUS CL52-3 20K M&E BRN (7 UNITS/STRING)	
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-1Y-P3-E	
17	3	EA	6000311011	INS POLY Y-BALL 30K 7 UNIT EQ. W/COR RING	



CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.

FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_).

- NOTE A: OTHER STANDARD DRAWINGS REQUIRED:
- TD FOUNDATION & BACKFILL
 - TG GROUND WIRE & GROUND ROD DETAIL
 - TH GUYING ASSEMBLIES
 - TK MARKINGS
 - TQ CROSS-BRACE INSTALLATION
 - TR GUY ANCHORS

NOTE B: POLE DRILLING: 5/8" BOLT - 11/16" DIAMETER HOLE
7/8" BOLT - 15/16" DIAMETER HOLE

NOTE C: TO SEAT SPIKE GRIDS, ASSEMBLE ARM & OTHER REQUIRED HARDWARE HAND TIGHTEN TO INSURE FIT, USE HYDRAULIC TOOLS TO SET GRIDS PROPERLY.

NOTE D: STRUCTURES UTILIZING 75' POLES AND TALLER REQUIRE A SECOND X-BRACE. REFER TO "TQ" SECTION FOR STANDARD CROSS BRACE AND REQUIRED HARDWARE.

NOTE E: LARGER OR SMALLER BOLTS MAY BE REQUIRED DEPENDING ON THE ACTUAL DIAMETER OF THE POLE USED. SUBSTITUTE MATERIAL ID (MID) ON THE WORK ORDER COMPONENTS PAGE FOR THE LENGTH NEEDED IF DIFFERENT THAN THE GENERIC LENGTH SHOWN IN THE BILL OF MATERIALS. CONTACT SYSTEM ENGINEERING STANDARDS - TRANSMISSION SECTION IF YOU NEED ASSISTANCE.

NOTE F: MOUNTING BOLTS, NUTS AND FLAT WASHERS ARE PROVIDED WITH THE SPACER ASSEMBLY.

NOTE G: GUYING ANGLES SHOWN ARE GUIDELINES. IF THE SPECIFIC FIELD CONDITIONS IN THE AREA WHERE THIS STRUCTURE IS INSTALLED DO NOT ACCOMMODATE THIS GUYING ARRANGEMENT THEN THE CHANGES TO THE GUYING ARRANGEMENT SHALL BE NOTED ON THE RESPECTIVE PLAN AND PROFILE DRAWING.

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Contact Engineering Standards - Transmission Section for the creation of new standards and CUs.

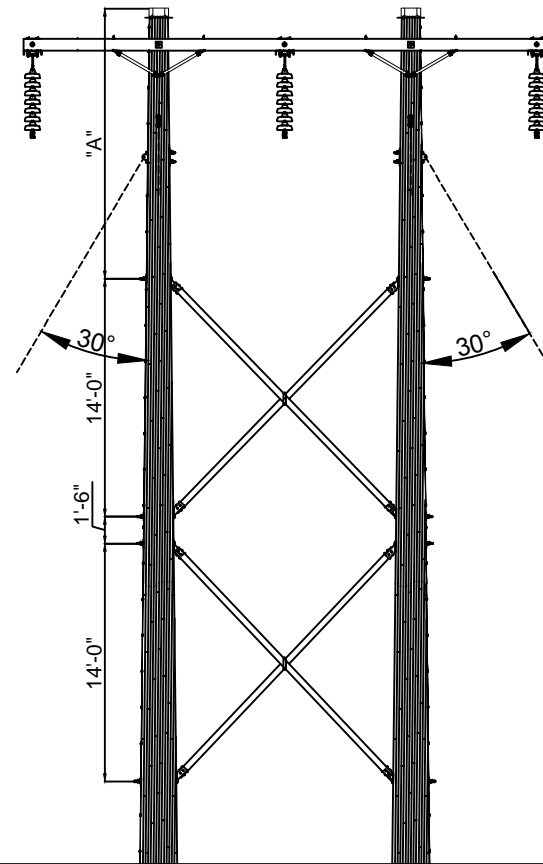
Drawing Scale: 1" = 6'

	TRANSMISSION CONSTRUCTION STANDARDS MANUAL	STRUCTURE STANDARDS - LAMINATED WOOD 115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY TANGENT SUSPENSION STRUCTURE - DOUBLE ARM CMP TYPE DM	REVISION
			00
			DATE
			5/21/2015
Drwn. By:	Date Dr.:	Checked By:	Date Ck.:
B. Franklin	1/24/2014	Becken/Hart	3/05/2015
Approved By:	Date App.:	TM2.23.TV-1JHDA-X	
Barry R. Hart	4/16/2015	Sheet 1	

USE THE MACRO CUs INSTEAD OF INDIVIDUAL CU COMPONENTS FOR EASE OF WORK ORDER ENTRY.

CU MACRO	CONDUCTOR	STATIC	COND SPECIFY	STATIC SPECIFY
C*M-TV1JHDA-B-L2	(3) - 477 ACSR 18/1	(2) - 3#6 AWLD	TS-S1-B	(2) TP-L-TS-G-L
C*M-TV1JHDA-B-LO	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-B	TP-L-TS-G-L TO-L-TS-G-O
C*M-TV1JHDA-B-LQ	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-B	TP-L-TS-G-L TO-L-TS-G-Q
C*M-TV1JHDA-B-LR	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-B	TP-L-TS-G-L TO-L-TS-G-R
C*M-TV1JHDA-W-L2	(3) - 795 ACSR 36/1	(2) - 3#6 AWLD	TS-S1-W	(2) TP-L-TS-G-L
C*M-TV1JHDA-W-LO	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-W	TP-L-TS-G-L TO-L-TS-G-O
C*M-TV1JHDA-W-LQ	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-W	TP-L-TS-G-L TO-L-TS-G-Q
C*M-TV1JHDA-W-LR	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-W	TP-L-TS-G-L TO-L-TS-G-R
C*M-TV1JHDA-X-L2	(3) - 795 ACSR 26/7	(2) - 3#6 AWLD	TS-S1-X	(2) TP-L-TS-G-L
C*M-TV1JHDA-X-LO	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-X	TP-L-TS-G-L TO-L-TS-G-O
C*M-TV1JHDA-X-LQ	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-X	TP-L-TS-G-L TO-L-TS-G-Q
C*M-TV1JHDA-X-LR	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-X	TP-L-TS-G-L TO-L-TS-G-R
C*M-TV1JHDA-2-L2	(3) - 1272 AAC	(2) - 3#6 AWLD	TS-S1-2	(2) TP-L-TS-G-L
C*M-TV1JHDA-2-LO	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-2	TP-L-TS-G-L TO-L-TS-G-O
C*M-TV1JHDA-2-LQ	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-2	TP-L-TS-G-L TO-L-TS-G-Q
C*M-TV1JHDA-2-LR	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-2	TP-L-TS-G-L TO-L-TS-G-R

X-BRACE INFORMATION		
POLE LENGTH (FT.)	"A" DIMENSION	NO. OF X-BRACES
50	11'-0"	1
55	12'-6"	1
60	14'-0"	1
65	15'-6"	1
70	17'-0"	1
75	18'-6"	2
80	20'-0"	2
85	21'-6"	2
90	23'-0"	2
95	24'-6"	2
100	26'-0"	2
105	27'-6"	2
110	29'-0"	2
115	30'-6"	2
120	32'-0"	2
125	33'-6"	2



CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.

FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_).

REFER TO SECTION "TS" FOR CONDUCTOR ASSEMBLIES.

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Contact Engineering Standards - Transmission Section for the creation of new standards and CUs.

Drawing Scale: N/A



TRANSMISSION
CONSTRUCTION
STANDARDS
MANUAL

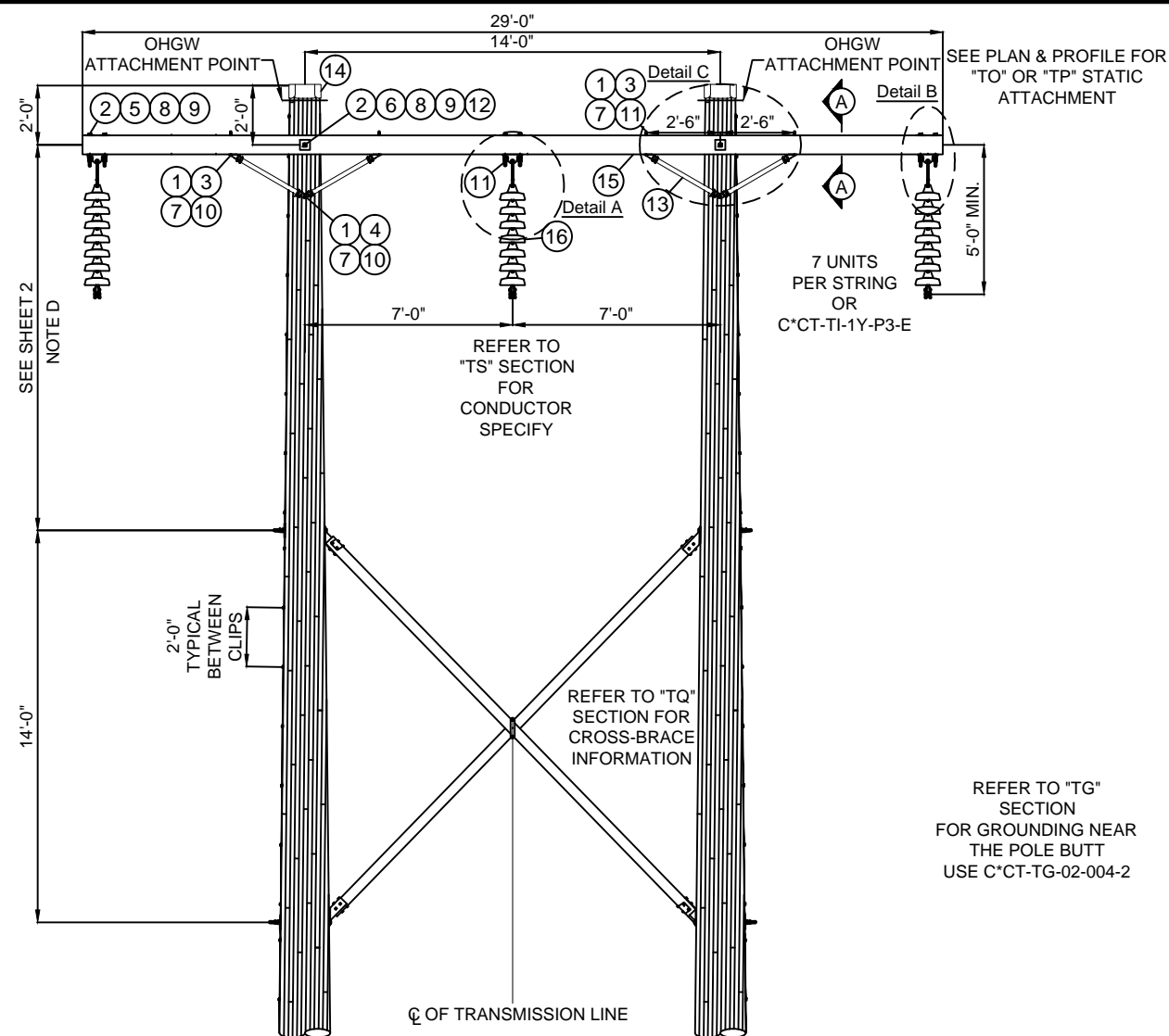
STRUCTURE STANDARDS - LAMINATED WOOD
115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY
TANGENT SUSPENSION STRUCTURE - DOUBLE ARM
CMP TYPE DM

REVISION
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DATE
5/21/2015

Drwn. By:	Date Dr.:	Checked By:	Date Ck.:	Approved By:	Date App.:
B. Franklin	1/24/2014	Becken/Hart	3/05/2015	Barry R. Hart	4/16/2015

TM2.23.TV-1JHDA-X

Sheet 2



BILL OF MATERIAL (CU Type: POLE)					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-TV-1JHSA	
1	6	EA	1000910600	NUT LCK MF SQ. 5/8 BOLT GALV	
2	8	EA	1000910800	NUT LCK MF SQ. 7/8 BOLT GALV	
3	4	EA	751115	BOLT SQ HEAD 5/8 X 10" W/ SQ NUT (NOTE E)	
4	2	EA	751116	BOLT SQ HEAD 5/8 X 12" W/ SQ NUT (NOTE E)	
5	6	EA	1035475010	BOLT SQ HEAD 7/8 X 10" W/ SQ NUT (NOTE E)	
6	2	EA	1035475020	BOLT SQ HEAD 7/8 X 20" W/ SQ NUT (NOTE E)	
7	6	EA	6000274600	WASHER HELICAL (5/8")	
8	8	EA	6000274612	WASHER HELICAL (7/8")	
9	10	EA	1000946500	WASHER 4" SQ FLAT (7/8")	
10	6	EA	6000274810	WASHER 2 1/2" SQ (5/8")	
11	3	EA	6000274505	DEAD END TEE, 60K	
12	2	EA	6000273195	GRID GAIN, CROSSARM FOR LAM. WOOD	
13	2	EA	6000740330	CROSSARM BRACES WOOD (PAIR)	
14	3	EA	6000820052	POLE TOPPER 19"	
BILL OF MATERIAL (CU Type: XARM)					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*PT-MT-1L-B-CE29	
15	1 CU	EA	6000740760	CROSSARM LAMINATED WOOD TYPE A 29'-0", 15/16" H	
BILL OF MATERIAL (CU Type: INSO) - SINGLE CONDUCTOR PER PHASE					
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-9P-D3-7	
16	3 CUs	EA	6000310739	INS SUS CL52-3 20K M&E BRN (7 UNITS/STRING)	
ITEM NO.	QTY.	UOM	IUSA MID	CU: C*CT-TI-1Y-P3-E	
16	3	EA	6000311011	INS POLY Y-BALL 30K 7 UNIT EQ. W/COR RING	

CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.

FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_).

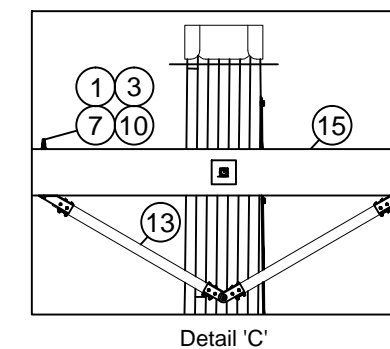
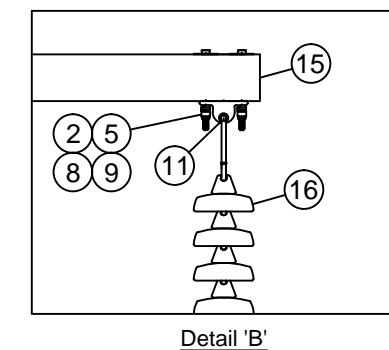
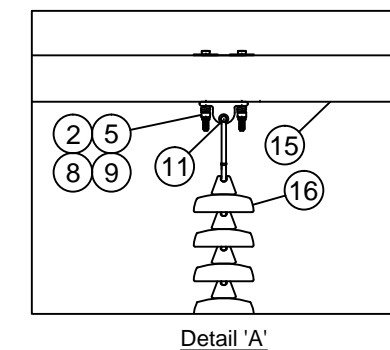
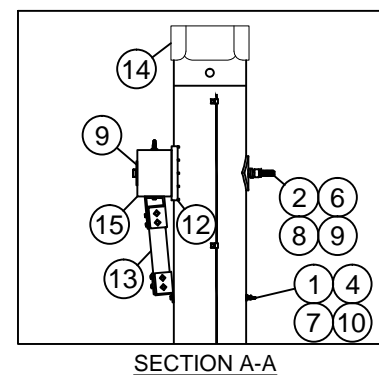
NOTE A: OTHER STANDARD DRAWINGS REQUIRED:
 TD FOUNDATION & BACKFILL
 TG GROUND WIRE & GROUND ROD DETAIL
 TK MARKINGS
 TQ CROSS-BRACE INSTALLATION

NOTE B: POLE DRILLING: 5/8" BOLT - 11/16" DIAMETER HOLE
 3/4" BOLT - 13/16" DIAMETER HOLE
 7/8" BOLT - 15/16" DIAMETER HOLE

NOTE C: TO SEAT SPIKE GRIDS, ASSEMBLE ARM & OTHER REQUIRED HARDWARE HAND TIGHTEN TO INSURE FIT, USE HYDRAULIC TOOLS TO SET GRIDS PROPERLY.

NOTE D: STRUCTURES UTILIZING 75' POLES AND TALLER REQUIRE A SECOND X-BRACE. REFER TO "TQ" SECTION FOR STANDARD CROSS BRACE AND REQUIRED HARDWARE.

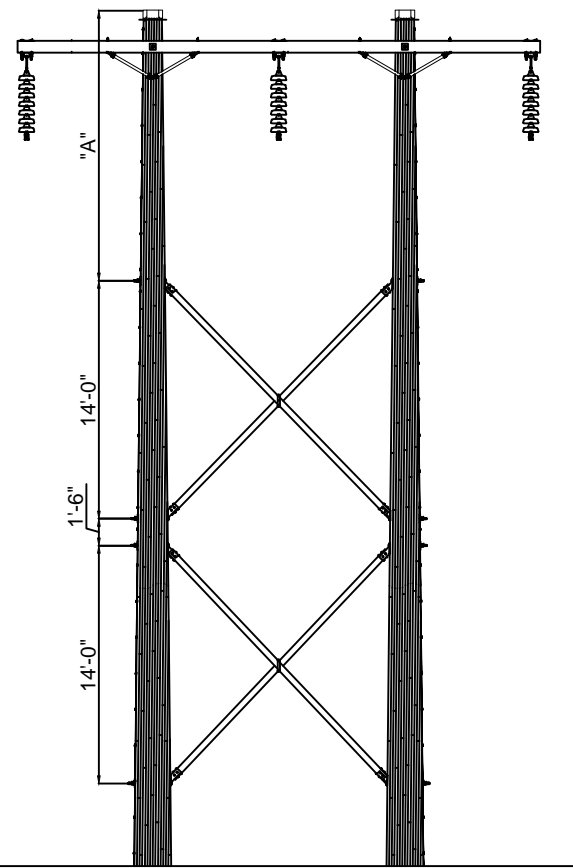
NOTE E: LARGER OR SMALLER BOLTS MAY BE REQUIRED DEPENDING ON THE ACTUAL DIAMETER OF THE POLE USED. SUBSTITUTE MATERIAL ID (MID) ON THE WORK ORDER COMPONENTS PAGE FOR THE LENGTH NEEDED IF DIFFERENT THAN THE GENERIC LENGTH SHOWN IN THE BILL OF MATERIALS. CONTACT ENGINEERING STANDARDS - TRANSMISSION SECTION IF YOU NEED ASSISTANCE.



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Contact Engineering Standards - Transmission Section for the creation of new standards and CUs. Drawing Scale: 1" = 6'

	TRANSMISSION CONSTRUCTION STANDARDS MANUAL	STRUCTURE STANDARDS - LAMINATED WOOD 115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY TANGENT SUSPENSION STRUCTURE - SINGLE ARM CMP TYPE AM	REVISION 00 DATE 5/21/2015
	Drwn. By: B. Franklin Date Dr.: 1/23/2014	Checked By: Becken/Hart	Date Ck.: 3/05/2015
		Approved By: Barry R. Hart Date App.: 4/16/2015	TM2.23.TV-1JHSA-X Sheet 1



X-BRACE INFORMATION		
POLE LENGTH (FT.)	"A" DIMENSION	NO. OF X-BRACES
50	11'-0"	1
55	12'-6"	1
60	14'-0"	1
65	15'-6"	1
70	17'-0"	1
75	18'-6"	2
80	20'-0"	2
85	21'-6"	2
90	23'-0"	2
95	24'-6"	2
100	26'-0"	2
105	27'-6"	2
110	29'-0"	2
115	30'-6"	2
120	32'-0"	2
125	33'-6"	2

USE THE MACRO CUs INSTEAD OF INDIVIDUAL CU COMPONENTS FOR EASE OF WORK ORDER ENTRY.

CU MACRO	CONDUCTOR	1ST STATIC	COND SPECIFY	STATIC SPECIFY
C*M-TV1JHSA-B-L2	(3) - 477 ACSR 18/1	(2) - 3#6 AWLD	TS-S1-B	(2) TP-L-TS-G-L
C*M-TV1JHSA-B-LO	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-B	TP-L-TS-G-L TO-L-TS-G-O
C*M-TV1JHSA-B-LQ	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-B	TP-L-TS-G-L TO-L-TS-G-Q
C*M-TV1JHSA-B-LR	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-B	TP-L-TS-G-L TO-L-TS-G-R
C*M-TV1JHSA-W-L2	(3) - 795 ACSR 36/1	(2) - 3#6 AWLD	TS-S1-W	(2) TP-L-TS-G-L
C*M-TV1JHSA-W-LO	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-W	TP-L-TS-G-L TO-L-TS-G-O
C*M-TV1JHSA-W-LQ	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-W	TP-L-TS-G-L TO-L-TS-G-Q
C*M-TV1JHSA-W-LR	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-W	TP-L-TS-G-L TO-L-TS-G-R
C*M-TV1JHSA-X-L2	(3) - 795 ACSR 26/7	(2) - 3#6 AWLD	TS-S1-X	(2) TP-L-TS-G-L
C*M-TV1JHSA-X-LO	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-X	TP-L-TS-G-L TO-L-TS-G-O
C*M-TV1JHSA-X-LQ	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-X	TP-L-TS-G-L TO-L-TS-G-Q
C*M-TV1JHSA-X-LR	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-X	TP-L-TS-G-L TO-L-TS-G-R
C*M-TV1JHSA-2-L2	(3) - 1272 AAC	(2) - 3#6 AWLD	TS-S1-2	(2) TP-L-TS-G-L
C*M-TV1JHSA-2-LO	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-2	TP-L-TS-G-L TO-L-TS-G-O
C*M-TV1JHSA-2-LQ	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-2	TP-L-TS-G-L TO-L-TS-G-Q
C*M-TV1JHSA-2-LR	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-2	TP-L-TS-G-L TO-L-TS-G-R

CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.
 FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_).
 REFER TO SECTION "TS" FOR CONDUCTOR ASSEMBLIES.

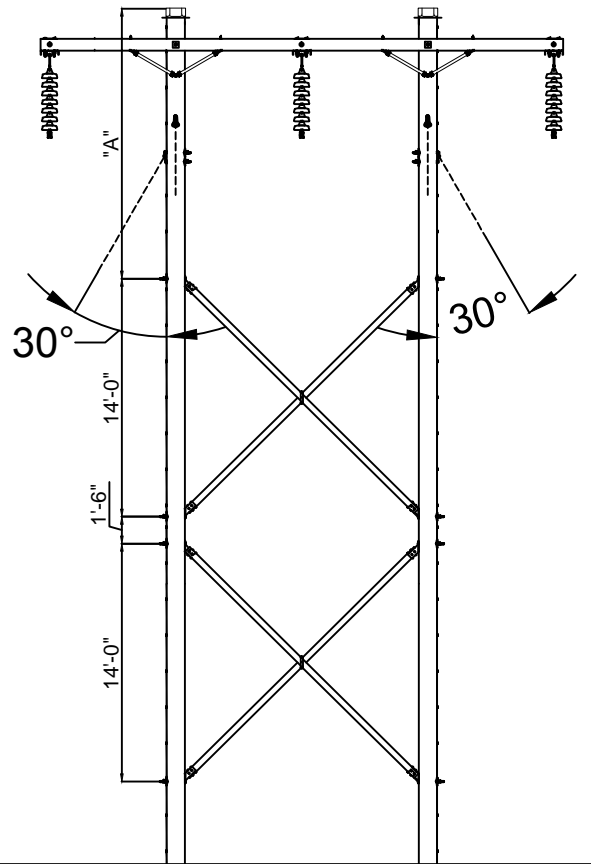
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Contact Engineering Standards - Transmission Section for the creation of new standards and CUs.					
	TRANSMISSION CONSTRUCTION STANDARDS MANUAL	STRUCTURE STANDARDS - LAMINATED WOOD 115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY TANGENT SUSPENSION STRUCTURE - SINGLE ARM CMP TYPE AM		REVISION	00
				DATE	5/21/2015
Drwn. By:	Date Dr.:	Checked By:	Date Ck.:	Approved By:	Date App.:
B. Franklin	1/23/2014	Becken/Hart	3/05/2015	Barry R. Hart	4/16/2015
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USE THE MACRO CUs INSTEAD OF INDIVIDUAL CU COMPONENTS FOR EASE OF WORK ORDER ENTRY.

CU MACRO	CONDUCTOR	STATIC	COND SPECIFY	STATIC SPECIFY
C*M-TV1HHDA-B-L2	(3) - 477 ACSR 18/1	(2) - 3#6 AWLD	TS-S1-B	(2) TP-W-TS-G-L
C*M-TV1HHDA-B-LO	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-B	TP-W-TS-G-L TO-W-TS-G-O
C*M-TV1HHDA-B-LQ	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-B	TP-W-TS-G-L TO-W-TS-G-Q
C*M-TV1HHDA-B-LR	(3) - 477 ACSR 18/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-B	TP-W-TS-G-L TO-W-TS-G-R
C*M-TV1HHDA-W-L2	(3) - 795 ACSR 36/1	(2) - 3#6 AWLD	TS-S1-W	(2) TP-W-TS-G-L
C*M-TV1HHDA-W-LO	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-W	TP-W-TS-G-L TO-W-TS-G-O
C*M-TV1HHDA-W-LQ	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-W	TP-W-TS-G-L TO-W-TS-G-Q
C*M-TV1HHDA-W-LR	(3) - 795 ACSR 36/1	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-W	TP-W-TS-G-L TO-W-TS-G-R
C*M-TV1HHDA-X-L2	(3) - 795 ACSR 26/7	(2) - 3#6 AWLD	TS-S1-X	(2) TP-W-TS-G-L
C*M-TV1HHDA-X-LO	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-X	TP-W-TS-G-L TO-W-TS-G-O
C*M-TV1HHDA-X-LQ	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-X	TP-W-TS-G-L TO-W-TS-G-Q
C*M-TV1HHDA-X-LR	(3) - 795 ACSR 26/7	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-X	TP-W-TS-G-L TO-W-TS-G-R
C*M-TV1HHDA-2-L2	(3) - 1272 AAC	(2) - 3#6 AWLD	TS-S1-2	(2) TP-W-TS-G-L
C*M-TV1HHDA-2-LO	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - 36 FIBER OPGW	TS-S1-2	TP-W-TS-G-L TO-W-TS-G-O
C*M-TV1HHDA-2-LQ	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .472" 36 FIBER OPGW	TS-S1-2	TP-W-TS-G-L TO-W-TS-G-Q
C*M-TV1HHDA-2-LR	(3) - 1272 AAC	(1) - 3#6 AWLD (1) - .602" 36 FIBER OPGW	TS-S1-2	TP-W-TS-G-L TO-W-TS-G-R

X-BRACE INFORMATION

POLE LENGTH (FT.)	"A" DIMENSION	NO. OF X-BRACES
50	11'-0"	1
55	12'-6"	1
60	14'-0"	1
65	15'-6"	1
70	17'-0"	1
75	18'-6"	2
80	20'-0"	2
85	21'-6"	2
90	23'-0"	2
95	24'-6"	2
100	26'-0"	2
105	27'-6"	2
110	29'-0"	2
115	30'-6"	2
120	32'-0"	2
125	33'-6"	2



CU FUNCTION: TL69 FOR 35KV & 46KV, TG69 FOR 69KV THRU 344KV, T345 FOR 345KV & GREATER.

FOR CORRECT CU: SUBSTITUTE 5 FOR NYSEG, 6 FOR CMP OR 9 FOR RG&E IN PLACE OF ASTERISK (C*_).

REFER TO SECTION "TS" FOR CONDUCTOR ASSEMBLIES.

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TRANSMISSION
CONSTRUCTION
STANDARDS
MANUAL

STRUCTURE STANDARDS - WOOD
115KV H-FRAME SINGLE CIRCUIT - MAINTENANCE ONLY
TANGENT SUSPENSION STRUCTURE - DOUBLE ARM
CMP TYPE DM

REVISION
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