

340

THREE-PHASE HEAVY DISTRIBUTION 795MCM AAC & 336 MCM ACSR

1/4/2018

C	D1B	3Ø Single 10' Crossarm - 0° to 5°
C	D2B	3Ø Double 10' Crossarm - 6° to 15°
C	D3B	3Ø Double 10' Crossarm w/ Angle Vise-Tops - 16° to 30°
C	D4B	3Ø Single 10' Crossarm - High Neutral - 0° to 5°
C	D5B	3Ø Double 10' Crossarm - High Neutral - 6° to 15°
C	D6B	3Ø Double 10' Crossarm w/ Angle Vise-Tops - High Neutral, 16° to 30°
C	D7A	3Ø Single 8' Crossarm w/ Pole Top - 0° to 5°
C	D8A	3Ø Double 8' Crossarm w/ Double Pole Top - 6° to 15°
C	D10	3Ø Twiggy - 0° to 5°
C	D11	3Ø Twiggy - 6° to 15°
C	D13	3Ø Vertical w/ Pole Top - 0° to 5°
C	D14	3Ø Vertical w/ Double Pole Top - 6° to 15°
C	D16	3Ø Double Twiggy Circuit - 0° to 5°
C	D17	3Ø Double Twiggy Circuit - 6° to 15°
C	D19B	3Ø Single 10' Crossarm - Double Circuit - 0° to 5°
C	D20B	3Ø Double 10' Crossarm - Double Circuit - 6° to 15°
N	D22	3Ø Twiggy Transmission Underbuild - 0° to 5°
N	D23	3Ø Twiggy Transmission Underbuild - 6° to 15°
C	D48B	10' Pre-assembled Deadend - High Neutral
C	D49B	10' Pre-assembled Double Deadend - High Neutral
C	D50A	8' Pre-assembled Deadend
C	D51A	8' Pre-assembled Double Deadend

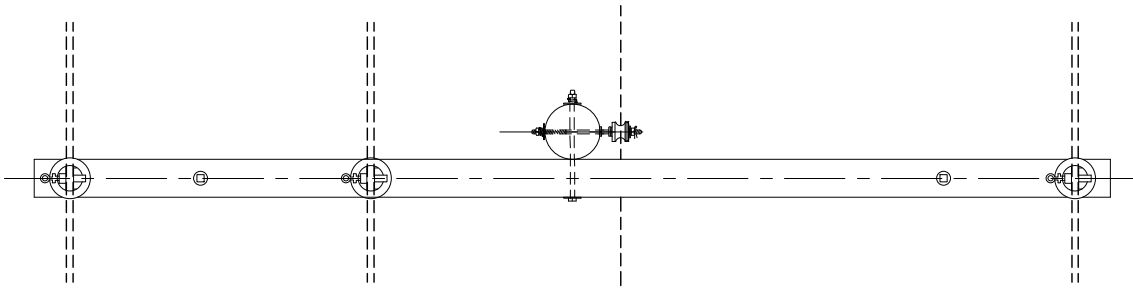
N New Standard
R Redrawn Standard
C Changed Standard
~ No Change

340 (CONTINUED)
THREE-PHASE HEAVY DISTRIBUTION
795MCM AAC & 336 MCM ACSR

1/4/2018

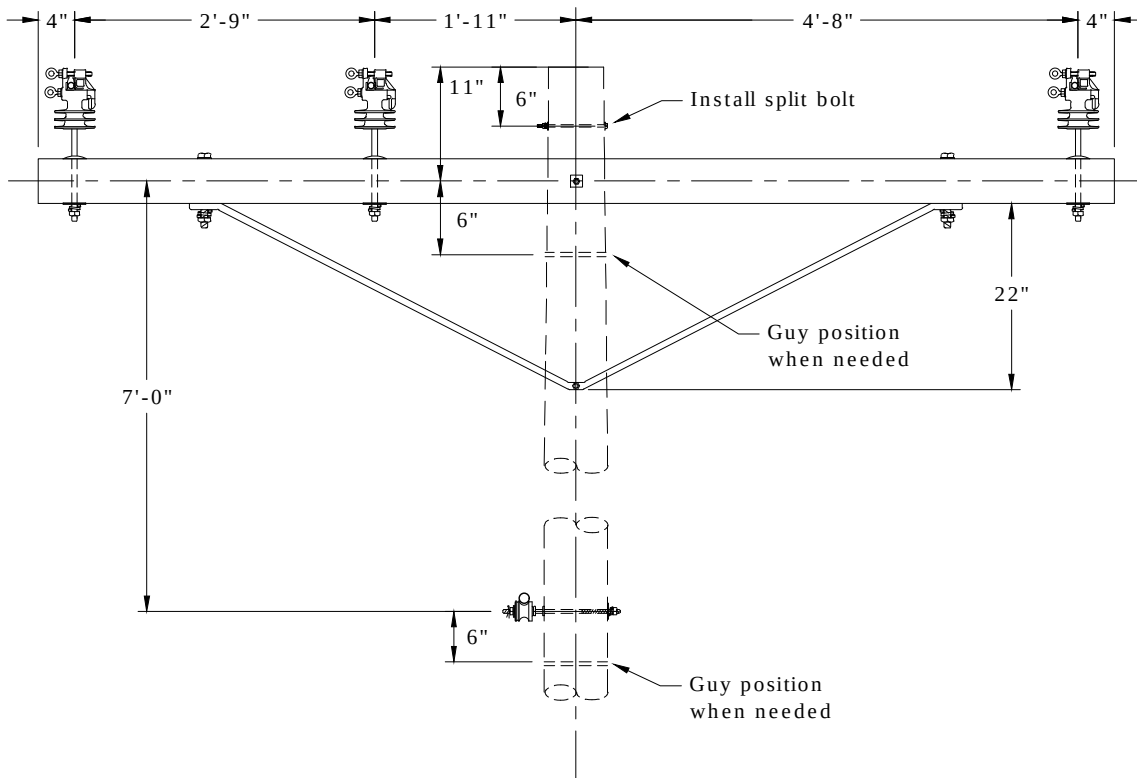
C	D52B	10' Pre-assembled Deadend
C	D53B	10' Pre-assembled Double Deadend

N	New Standard
R	Redrawn Standard
C	Changed Standard
~	No Change



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



- Notes:**
1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
 2. Std D7A is preferred for crossarm construction. Use this standard for underbuild or other special installations.
 3. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase.

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS
 3Ø SINGLE 10' CROSSARM
 0° TO 5°
 795 AAC MAX WIRE

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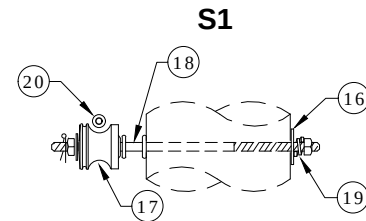
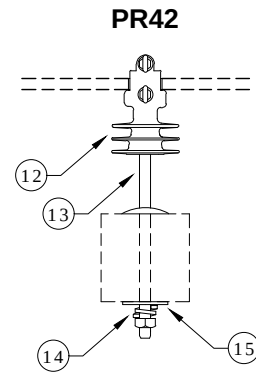
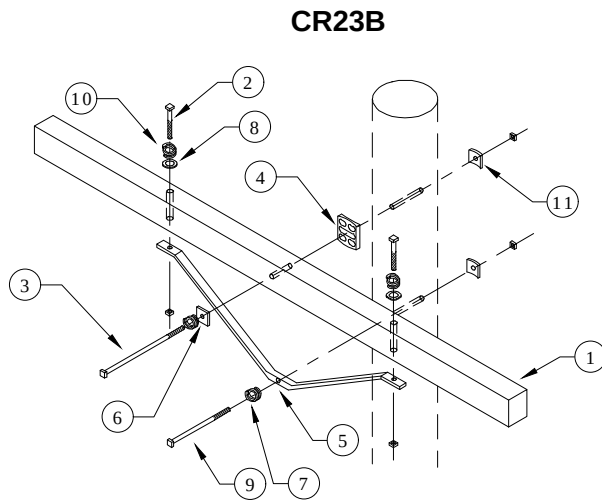
D1B

CAD FILE:
D1B

REVISIONS

△ R	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340



Neutral

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D1B	
		CR23B	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 10'	1	26
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile *	2	143
3	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs Ultimate Tensile *	1	157
4	Gain, Pole Plastic	1	709
5	Brace, Angle, 72"	1	204
6	Washer, Square, Flat 5/8", 2 1/4" x 2 1/4"	1	1412
7	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	2	2217
8	Washer, Flat, Round, Galv., 1/2"	2	1394
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile *	1	155
10	Washer, Lock, Spring, Double Coil, Galv., 1/2" *	2	2216
11	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
ITEM NO.	DESCRIPTION	PR42 (3)	
		QTY.	S/N
12	Insulator, Vise-Top, Polymer *	3	2439
13	Pin, Crossarm *	3	961
14	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	3	2217
15	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	3	1412
ITEM NO.	DESCRIPTION	S1	
		QTY.	S/N
16	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
17	Insulator, Spool, Clevis, Small, ANSI 53-2 Class	1	773
18	Bolt, Double Upset 5/8" x 14" Galv., 12,400 lbs Ultimate Tensile *	1	1580
19	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
20	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø SINGLE 10' CROSSARM
0° TO 5°
795 AAC MAX WIRE

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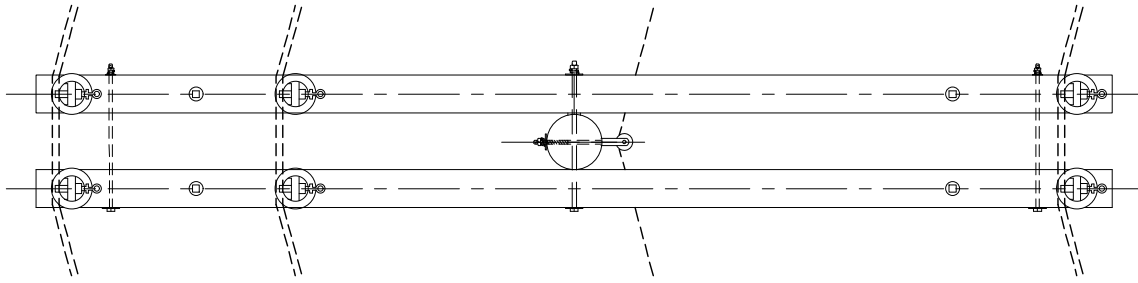
D1B

CAD FILE:
D1B

REVISIONS

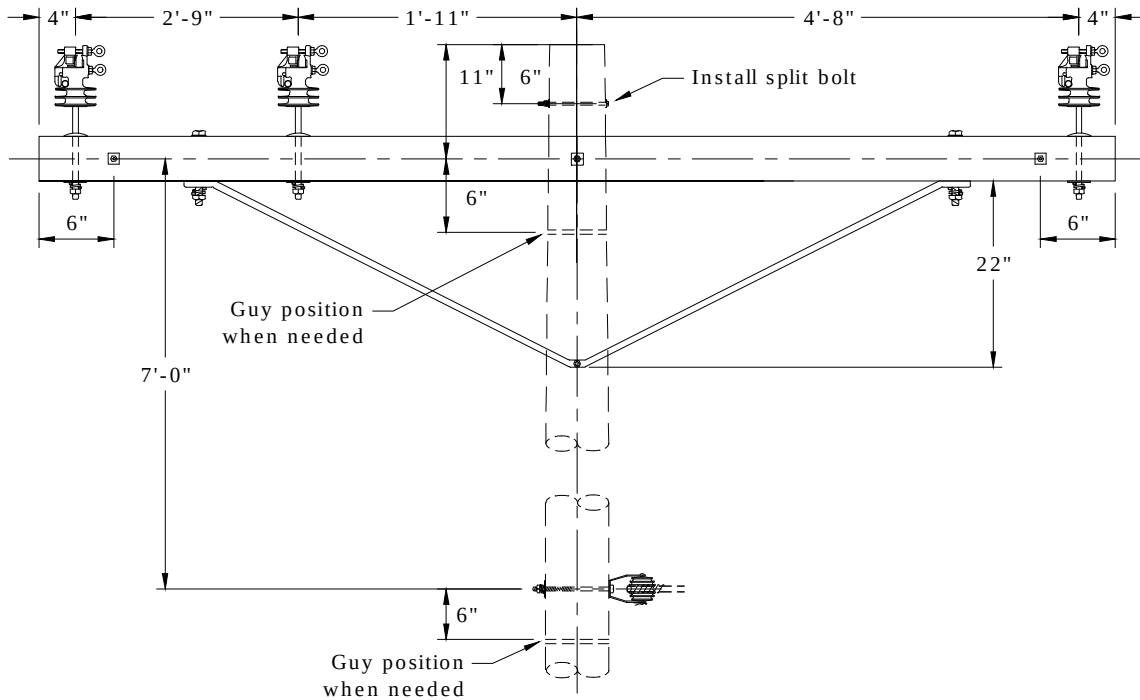
Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



- Notes:**
1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
 2. Std D8A is preferred for crossarm construction. Use this standard for underbuild or other special installations.
 3. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase.

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS
 3Ø DOUBLE 10' CROSSARM
 6° TO 15°
 795 AAC MAX WIRE

PAGE:
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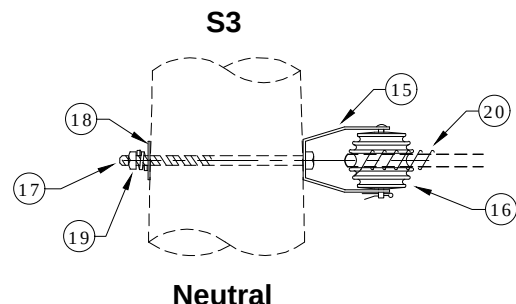
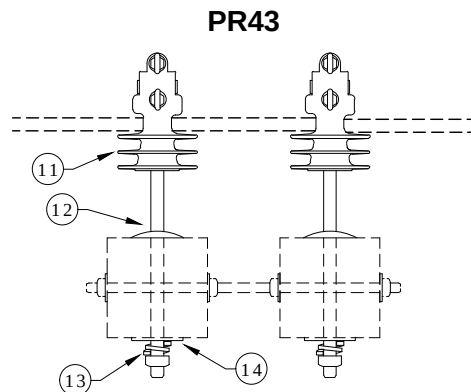
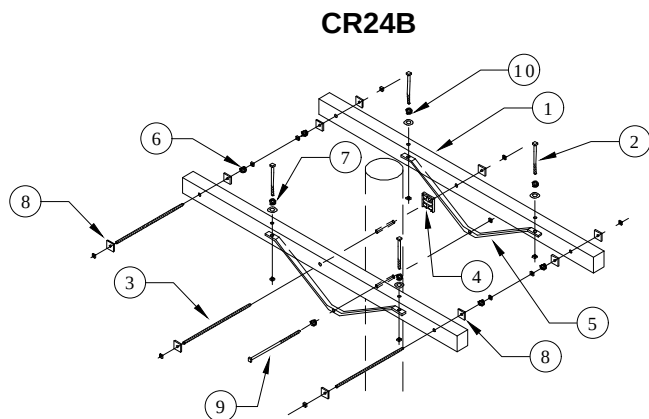
D2B

CAD FILE:
D2B

REVISIONS

△	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340



Neutral

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D2B	
		CR24B	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 10'	2	26
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile *	4	143
3	Bolt, Double Arm, 5/8" x 20", Galv., 12,400 lbs Ultimate Tensile *	3	83
4	Gain, Pole Plastic	1	709
5	Brace, Angle, 72"	2	204
6	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	6	2217
7	Washer, Lock, Spring, Double Coil, Galv., 1/2" *	4	2216
8	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	10	1412
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile *	1	155
10	Washer, Round, Galv., Flat, 1/2"	4	1394
ITEM NO.	DESCRIPTION	PR43 (3)	
		QTY.	S/N
11	Insulator, Vise-Top, Polymer *	6	2439
12	Pin, Crossarm *	6	961
13	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	6	2217
14	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	6	1412
ITEM NO.	DESCRIPTION	S3	
		QTY.	S/N
15	Clevis, DE Insulator 1344	1	336
16	Insulator, Spool Clevis, Large, ANSI 53-5 Class	1	774
17	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile *	1	156
18	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
19	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
20	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø DOUBLE 10' CROSSARM
6° TO 15°
795 AAC MAX WIRE

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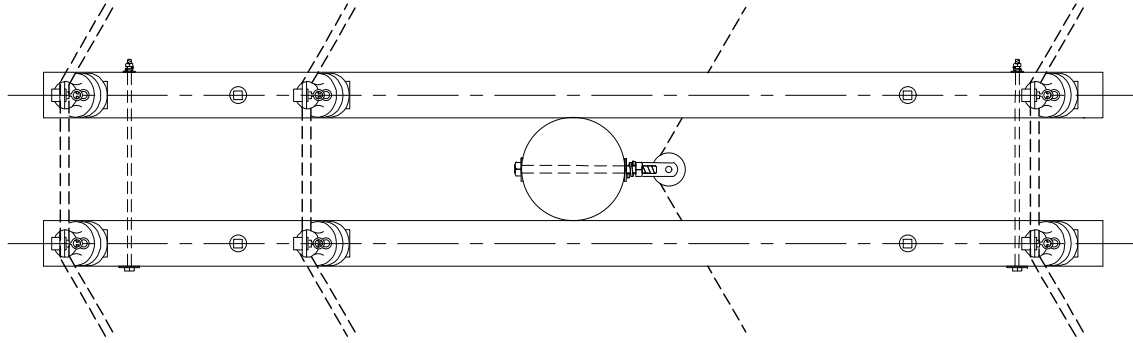
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CAD FILE:
D2B

REVISIONS

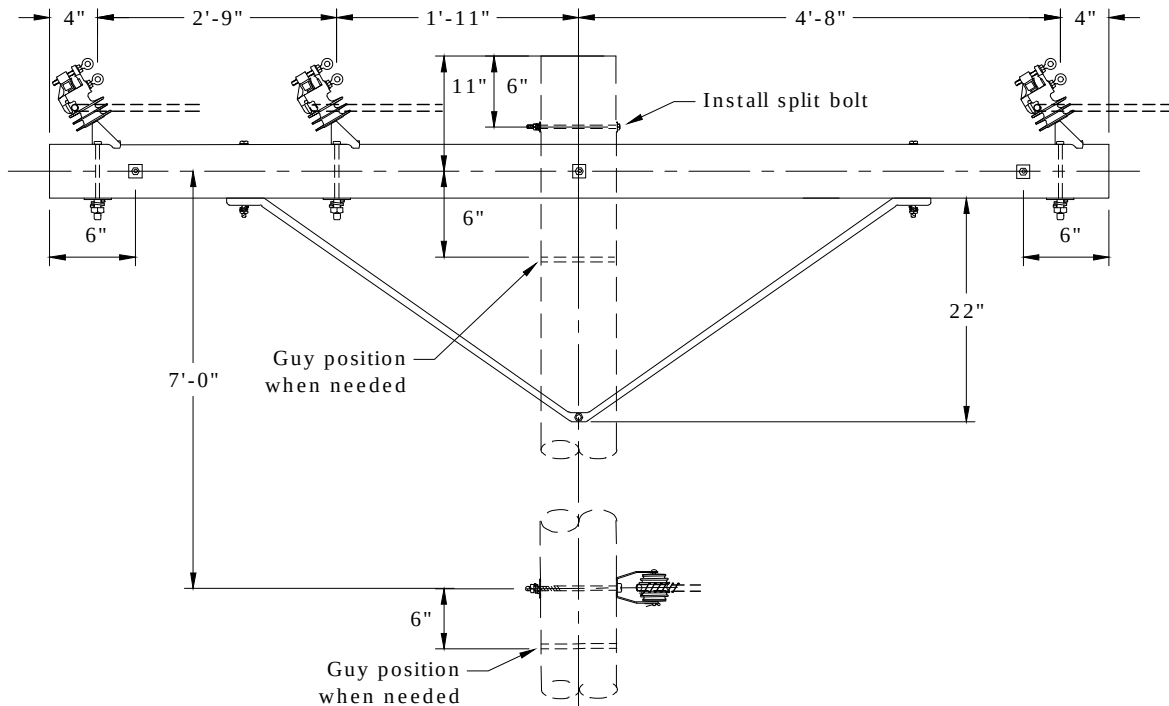
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1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

△	APP:	ELM	SECTION
	DATE:	1/31/80	340



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



- Notes:**
1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
 2. Use this standard for underbuild or other special installations.
 3. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase.

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS
 3Ø DOUBLE 10' CROSSARM W/ ANGLE VISE-TOPS
 16° TO 30°
 795 AAC MAX WIRE

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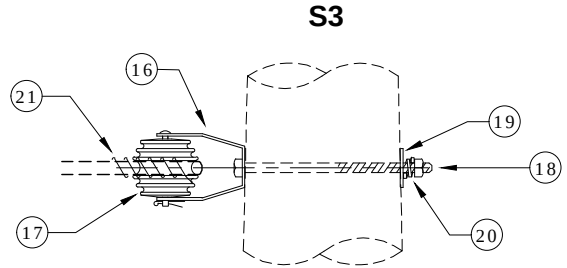
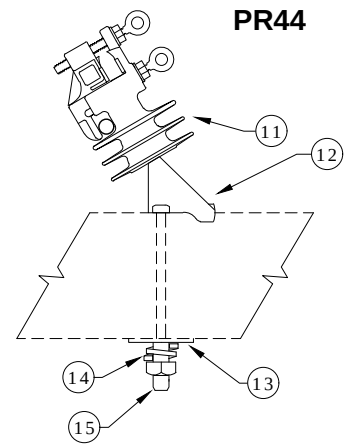
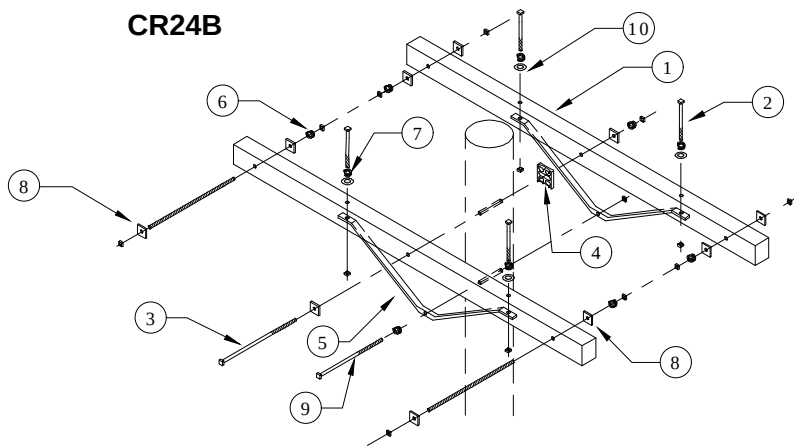
D3B

CAD FILE:
D3B

REVISIONS

DATE	ENGR	OPS
3/02	REDRAWN	IN CAD
6/7/06	LB	AH
1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340



Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D3B	
		CR24B	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 10'	2	26
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile ✱	4	143
3	Bolt, Double Arm, 5/8" x 20", Galv., 12,400 lbs Ultimate Tensile ✱	3	83
4	Gain, Pole Plastic	1	709
5	Brace, Angle, 72"	2	204
6	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	6	2217
7	Washer, Lock, Spring, Double Coil, Galv., 1/2" ✱	4	2216
8	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	10	1412
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile ✱	1	155
10	Washer, Flat, Round, Galv., 1/2"	4	1394
ITEM NO.	DESCRIPTION	PR44 (6)	
		QTY.	S/N
11	Insulator, Vise-Top, Polymer ✱	6	2439
12	Pin, Angle, Crossarm ✱	6	2658
13	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	6	1412
14	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	6	2217
15	Bolt, Machine, 5/8" x 7", Galv., 12,400 lbs Ultimate Tensile ✱	6	2606
ITEM NO.	DESCRIPTION	S3	
		QTY.	S/N
16	Clevis, DE Insulator 1344	1	336
17	Insulator, Spool, Clevis, Large, ANSI 53-5 Class	1	774
18	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile	1	156
19	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
20	Washer, Lock, Spring, Double Coil, Galv., 5/8"	1	2217
21	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø DOUBLE 10' CROSSARM W/ ANGLE VISE-TOPS
16° TO 30°
795 AAC MAX WIRE

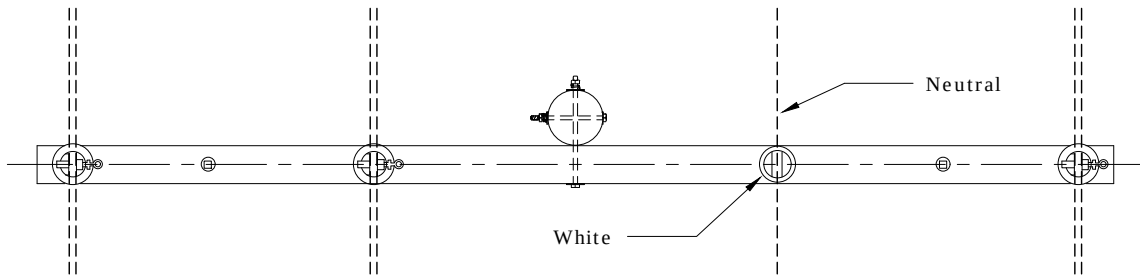
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D3B

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D3B

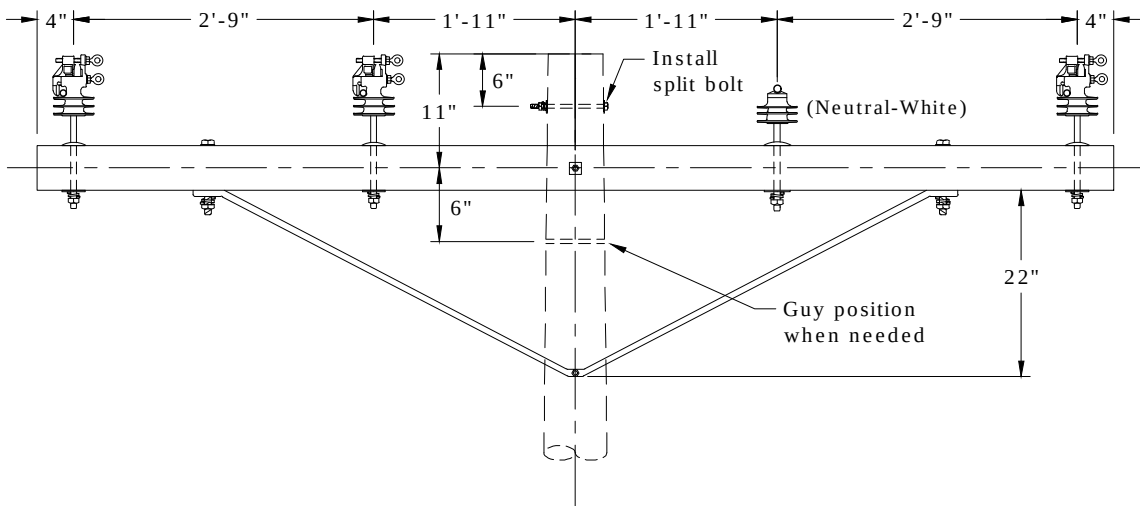
REVISIONS

Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK
Δ			
APP:	ELM	SECTION	
DATE:	1/31/80	340	



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



- Notes:**
1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
 2. This framing is for clearance limited situations only.
 3. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase and neutral.

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS
 3Ø SINGLE 10' CROSSARM-HIGH NEUTRAL
 0° TO 5°
 795 AAC MAX WIRE

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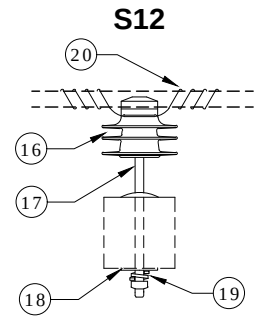
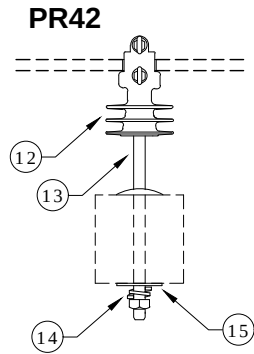
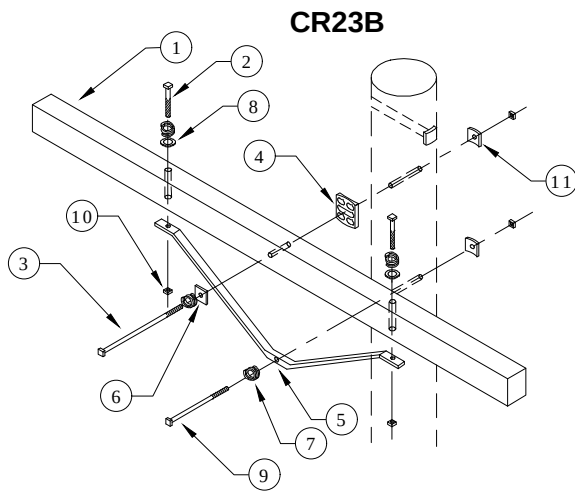
D4B

CAD FILE:
D4B

REVISIONS

△	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340



Neutral

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D4B	
		CR23B	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 10'	1	26
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile *	2	143
3	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs Ultimate Tensile *	1	157
4	Gain, Pole Plastic	1	709
5	Brace, Angle, 72"	1	204
6	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	1	1412
7	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	2	2217
8	Washer, Flat, Round, Galv., 1/2"	2	1394
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile *	1	155
10	Washer, Lock, Spring, Double Coil, Galv., 1/2" *	2	2216
11	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
ITEM NO.	DESCRIPTION	PR42 (3)	
		QTY.	S/N
12	Insulator, Vise-Top, Polymer *	3	2439
13	Pin, Crossarm *	3	961
14	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	3	2217
15	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	3	1412
ITEM NO.	DESCRIPTION	S12	
		QTY.	S/N
16	Insulator, Pin, C Neck, White Polymer *	1	2656
17	Pin, Crossarm	1	961
18	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	1	1412
19	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
20	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS 3Ø SINGLE 10' CROSSARM-HIGH NEUTRAL 0° TO 5° 795 AAC MAX WIRE

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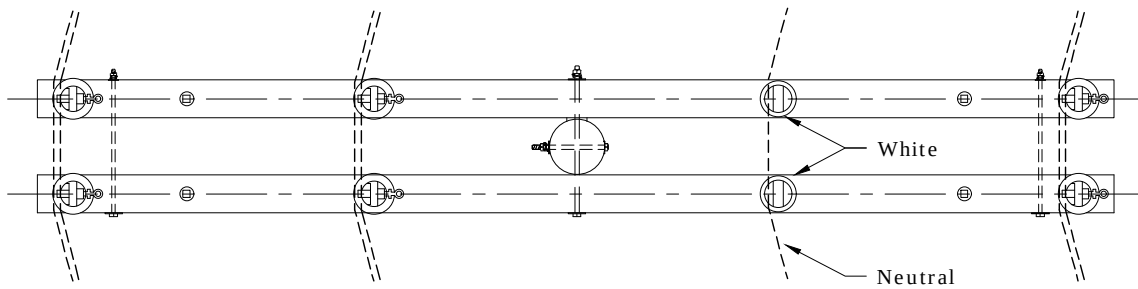
D4B

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D4B

REVISIONS

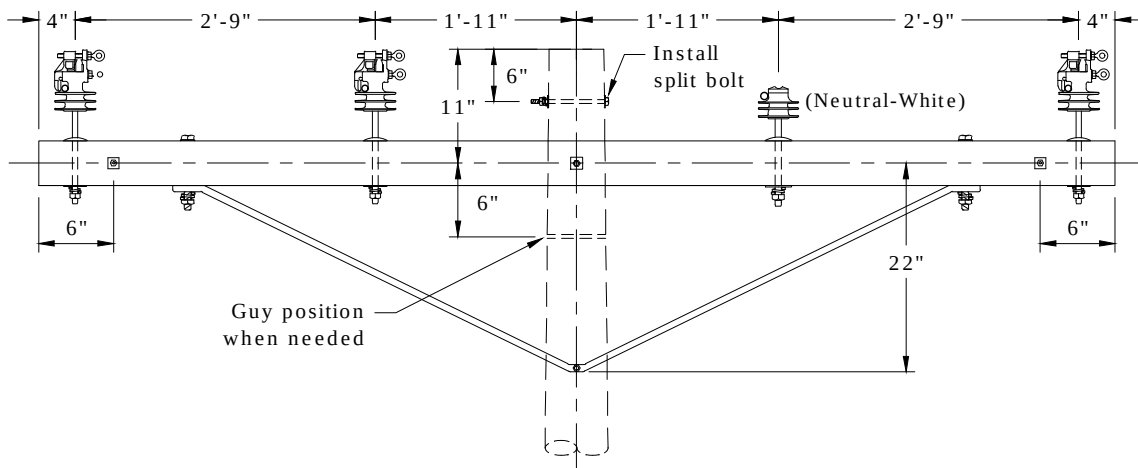
Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. This framing is for clearance limited situations only.
3. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase and neutral.

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS
3Ø DOUBLE 10' CROSSARM-HIGH NEUTRAL
6° TO 15°
795 AAC MAX WIRE

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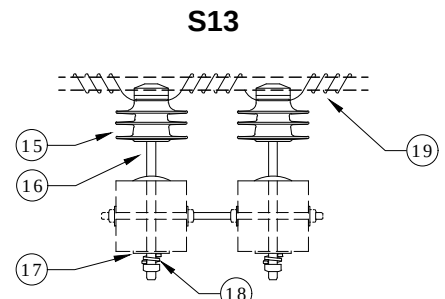
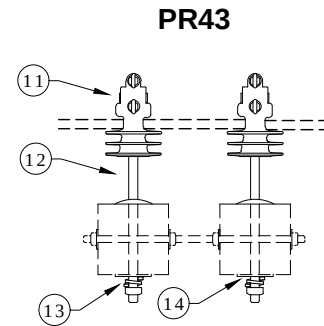
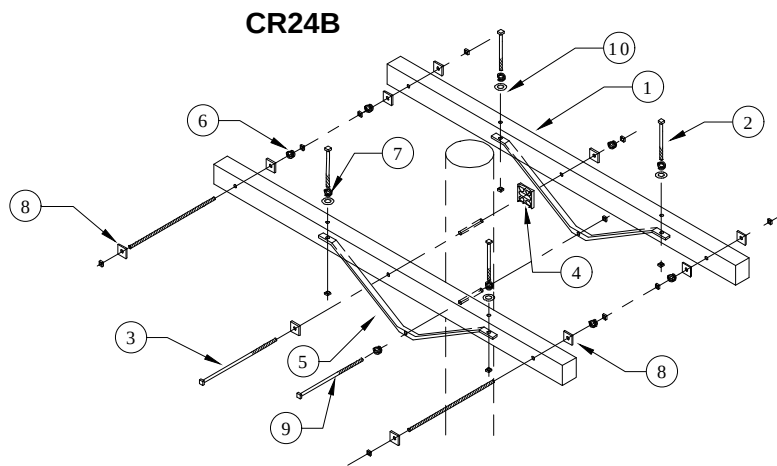
D5B

CAD FILE:
D5B

REVISIONS

Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340



Neutral

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D5B	
		CR24B	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 10'	2	26
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile *	4	143
3	Bolt, Double Arm, 5/8" x 20", Galv., 12,400 lbs Ultimate Tensile	3	83
4	Gain, Pole Plastic	1	709
5	Brace, Angle, 72"	2	204
6	Washer, Lock, Spring, Double Coil, Galv., 5/8"*	6	2217
7	Washer, Lock, Spring, Double Coil, Galv., 1/2"*	4	2216
8	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	10	1412
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile	1	155
10	Washer, Flat, Round, Galv., 1/2"	4	1394
ITEM NO.	DESCRIPTION	PR43 (3)	
		QTY.	S/N
11	Insulator, Vise-Top, Polymer *	6	2439
12	Pin, Crossarm *	6	961
13	Washer, Lock, Spring, Double Coil, Galv., 5/8"*	6	2217
14	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	6	1412
ITEM NO.	DESCRIPTION	S13	
		QTY.	S/N
15	Insulator, Pin, C Neck, White Polymer*	2	2656
16	Pin, Crossarm	2	961
17	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	2	1412
18	Washer, Lock, Spring, Double Coil, Galv., 5/8"*	2	2217
19	Wire, Tie, AL Annealed #4 SD	20	1421



CONSTRUCTION STANDARDS 3Ø DOUBLE 10' CROSSARM-HIGH NEUTRAL 6° TO 15° 795 AAC MAX WIRE

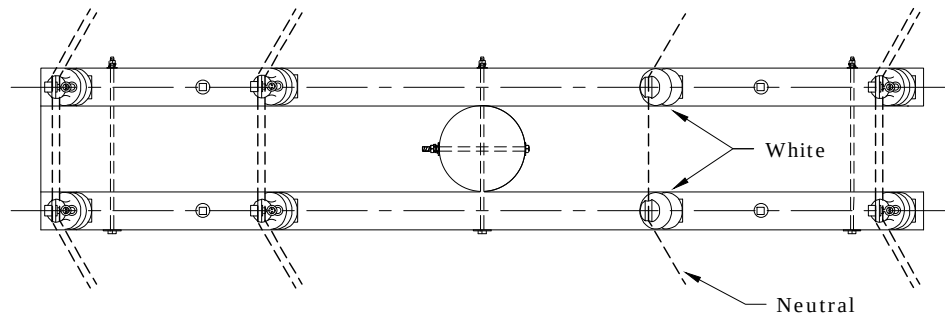
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D5B

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D5B

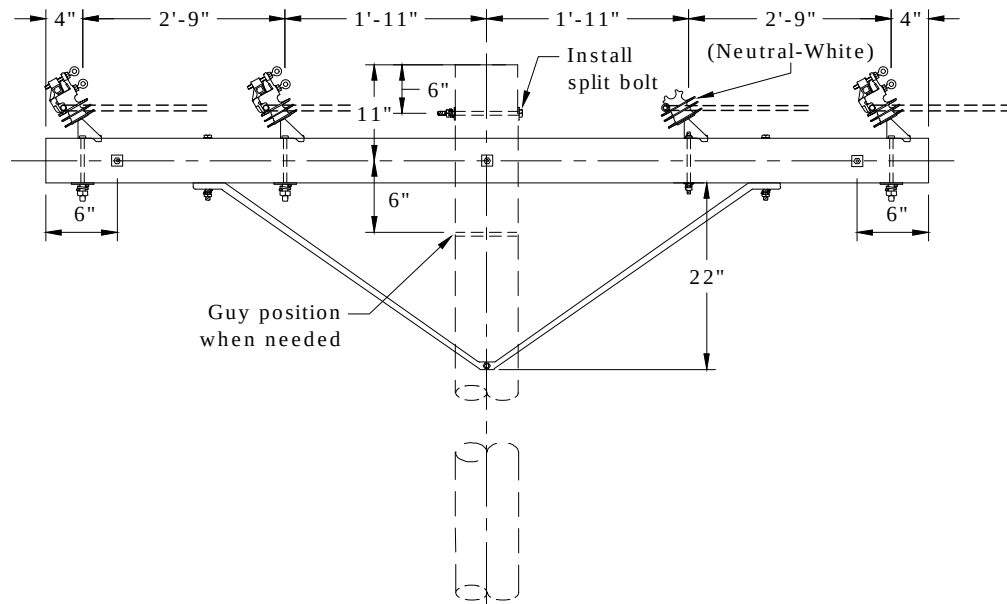
REVISIONS

Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK
Δ			
APP:	ELM	SECTION	
DATE:	1/31/80	340	



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. This framing is for clearance limited situations only.
3. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase and neutral.

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS
 3Ø DOUBLE 10' CROSSARM W/ ANGLE VISE-TOPS
 HIGH NEUTRAL, 16° TO 30°
 795 AAC MAX WIRE

PAGE:
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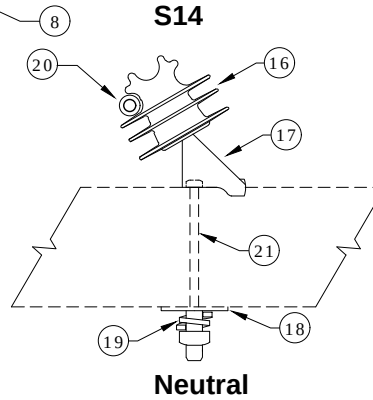
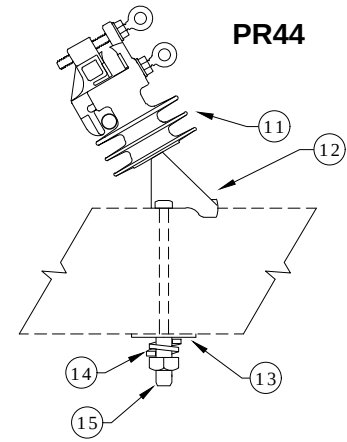
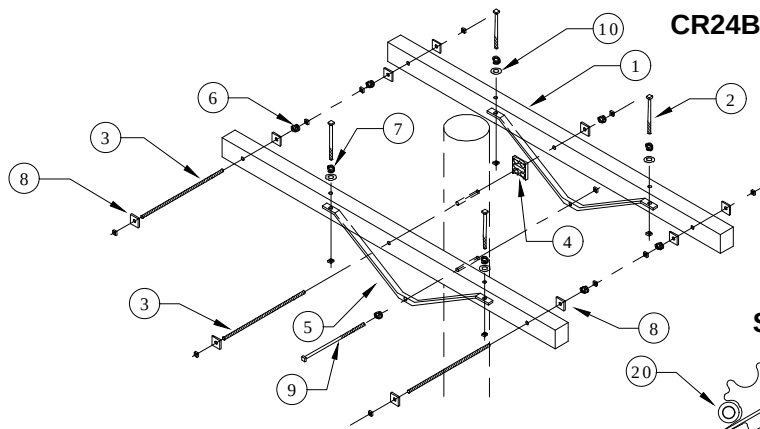
D6B

CAD FILE:
D6B

REVISIONS

△ R	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340



Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D6B	
		CR24B	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 10'	2	26
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile *	4	143
3	Bolt, Double Arm, 5/8" x 20", Galv., 12,400 lbs Ultimate Tensile *	3	83
4	Gain, Pole Plastic	1	709
5	Brace, Angle, 72"	2	204
6	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	6	2217
7	Washer, Lock, Spring, Double Coil, Galv., 1/2" *	4	2216
8	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	10	1412
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile *	1	155
10	Washer, Flat, Round, Galv., 1/2"	4	1394
ITEM NO.	DESCRIPTION	PR44 (6)	
		QTY.	S/N
11	Insulator, Vise-Top, Polymer *	6	2439
12	Pin, Angle, Crossarm *	6	2658
13	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	6	1412
14	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	6	2217
15	Bolt, Machine, 5/8" x 7", Galv., 12,400 lbs Ultimate Tensile *	6	2606
ITEM NO.	DESCRIPTION	S14 (2)	
		QTY.	S/N
16	Insulator, Pin, C Neck, White Polymer	2	2656
17	Pin, Angle, Crossarm	2	2658
18	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	2	1412
19	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	2	2217
20	Wire, Tie, AL Annealed #4 SD	20	1421
21	Bolt, Machine, 5/8" x 7", Galv., 12,400 lbs Ultimate Tensile *	2	2606



CONSTRUCTION STANDARDS

3Ø DOUBLE 10' CROSSARM W/ ANGLE VISE-TOPS
HIGH NEUTRAL, 16° TO 30°
795 AAC MAX WIRE

PAGE:
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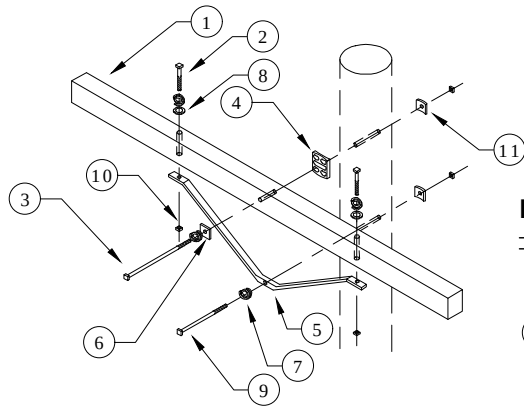
D6B

CAD FILE:
D6B

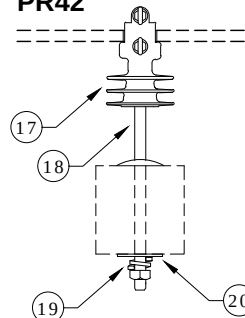
REVISIONS

Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK
Δ			
APP:	ELM	SECTION	
DATE:	1/31/80	340	

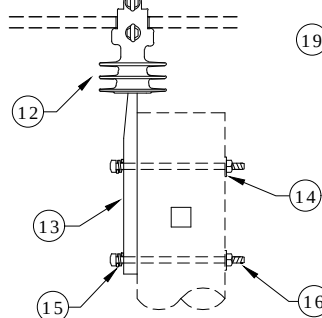
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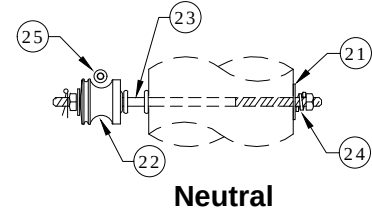
PR42



PR40



S1



Neutral

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D7A	
		CR23A	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 8'	1	25
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile *	2	143
3	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs Ultimate Tensile *	1	157
4	Gain, Pole Plastic	1	709
5	Brace, Angle, 60"	1	203
6	Washer, Square, Flat 5/8", 2 1/4" x 2 1/4"	1	1412
7	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	2	2217
8	Washer, Flat, Round, Galv., 1/2"	2	1394
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile *	1	155
10	Washer, Lock, Spring, Double Coil, Galv., 1/2" *	2	2216
11	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
ITEM NO.	DESCRIPTION	PR40	
		QTY.	S/N
12	Insulator, Vise-Top, Polymer *	1	2439
13	Pin, Pole Top *	1	962
14	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
15	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	2	2217
16	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile *	2	155
ITEM NO.	DESCRIPTION	PR42 (2)	
		QTY.	S/N
17	Insulator, Vise-Top, Polymer *	2	2439
18	Pin, Crossarm *	2	961
19	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	2	2217
20	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	2	1412
ITEM NO.	DESCRIPTION	S1	
		QTY.	S/N
21	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
22	Insulator, Spool, Clevis, Small, ANSI 53-2 Class	1	773
23	Bolt, Double Upset, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile *	1	1580
24	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
25	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø SINGLE 8' CROSSARM W/ POLE TOP
0° TO 5°
795 AAC MAX WIRE

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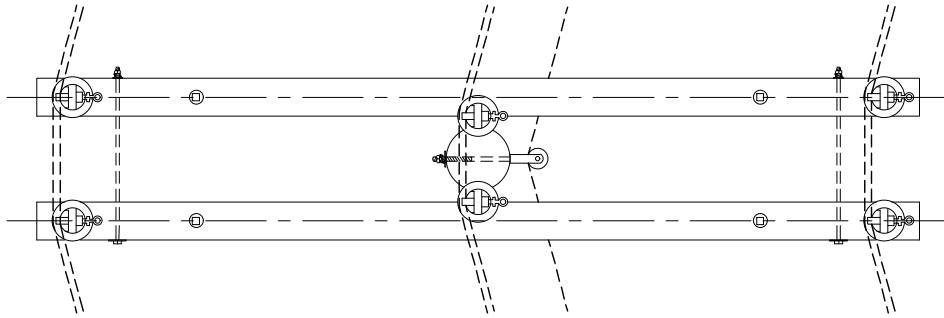
D7A

CAD FILE:
D7A

REVISIONS

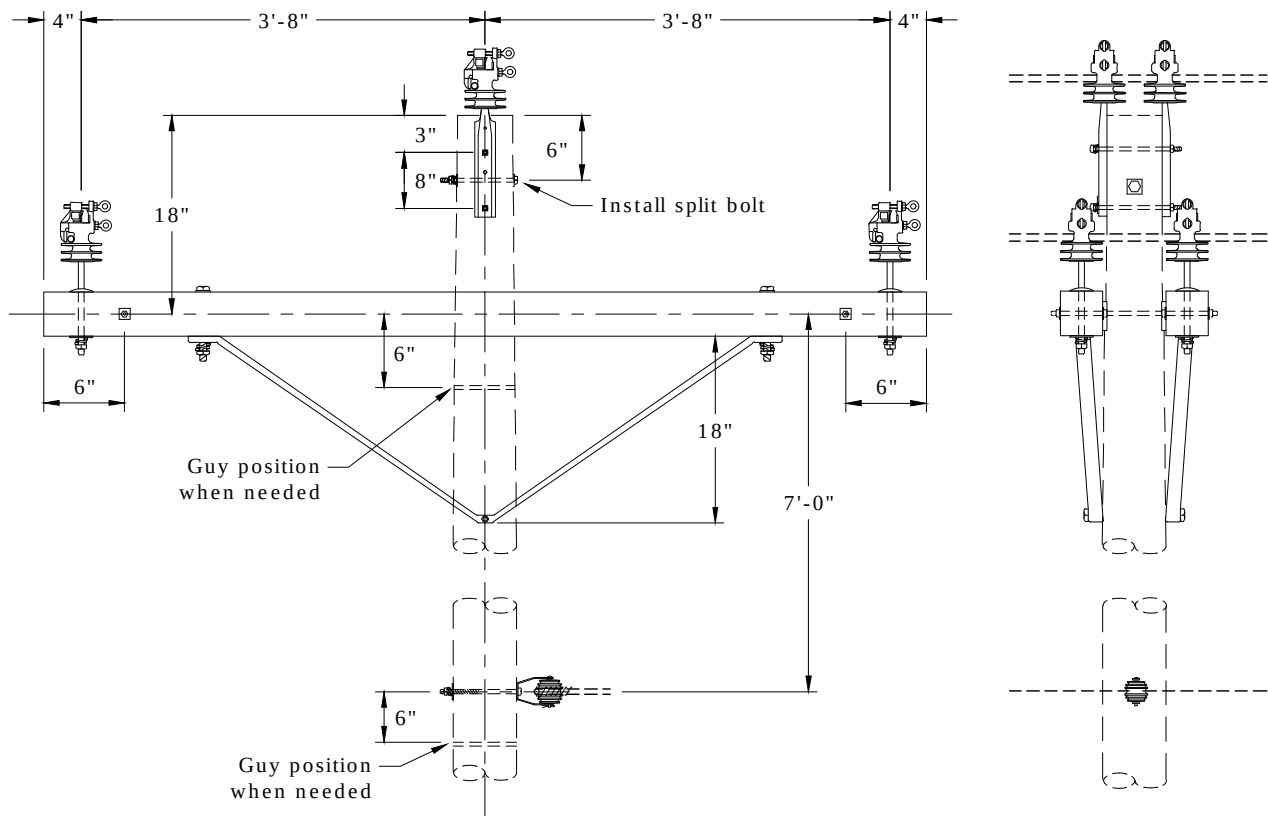
Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase.

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS

3Ø DOUBLE 8' CROSSARM W/ DOUBLE POLE
TOP - 6° TO 15°
795 AAC MAX WIRE

PAGE:
1 of 2

D8A

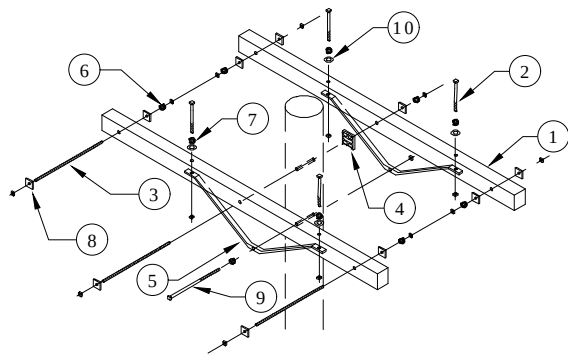
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D8A

REVISIONS

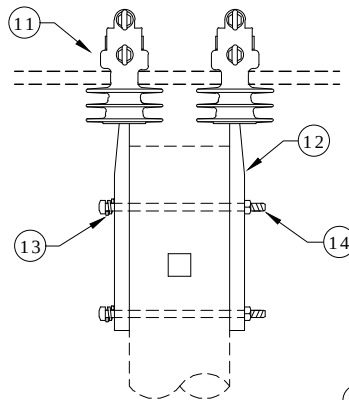
△ R	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340

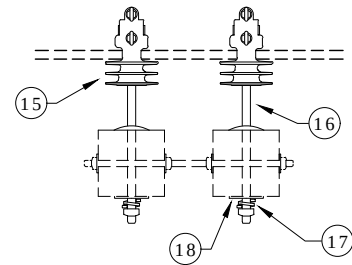
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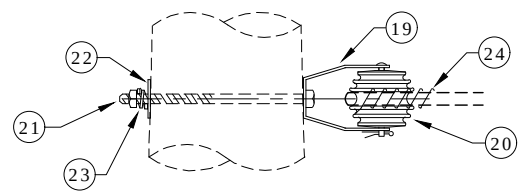
PR41



PR43



S3



Neutral

Rev. 3 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D8A	
		CR24A	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 8'	2	25
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile	4	143
3	Bolt, Double Arm, 5/8" x 20", Galv., 12,400 lbs Ultimate Tensile	3	83
4	Gain, Pole Plastic	1	709
5	Brace, Angle, 60"	2	203
6	Washer, Spring, Lock, Double Coil, Galv., 5/8"	6	2217
7	Washer, Spring, Lock, Double Coil, Galv., 1/2"	4	2216
8	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	10	1412
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile	1	155
10	Washer, Flat, Round, Galv., 1/2"	4	1394
ITEM NO.	DESCRIPTION	PR41	
		QTY.	S/N
11	Insulator, Vise-Top, Polymer ✱	2	2439
12	Pin, Pole Top ✱	2	962
13	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	2	2217
14	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	2	156
ITEM NO.	DESCRIPTION	PR43 (2)	
		QTY.	S/N
15	Insulator, Vise-Top, Polymer ✱	4	2439
16	Pin, Crossarm ✱	4	961
17	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	4	2217
18	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	4	1412
ITEM NO.	DESCRIPTION	S3	
		QTY.	S/N
19	Clevis, DE Insulator 1344	1	336
20	Insulator, Spool, Large, ANSI 53-5 Class	1	774
21	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile	1	156
22	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
23	Washer, Lock, Spring, Double Coil, Galv., 5/8"	1	2217
24	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø DOUBLE 8' CROSSARM W/ DOUBLE POLE
TOP - 6° TO 15°
795 AAC MAX WIRE

PAGE:
2 of 2

D8A

CAD FILE:
D8A

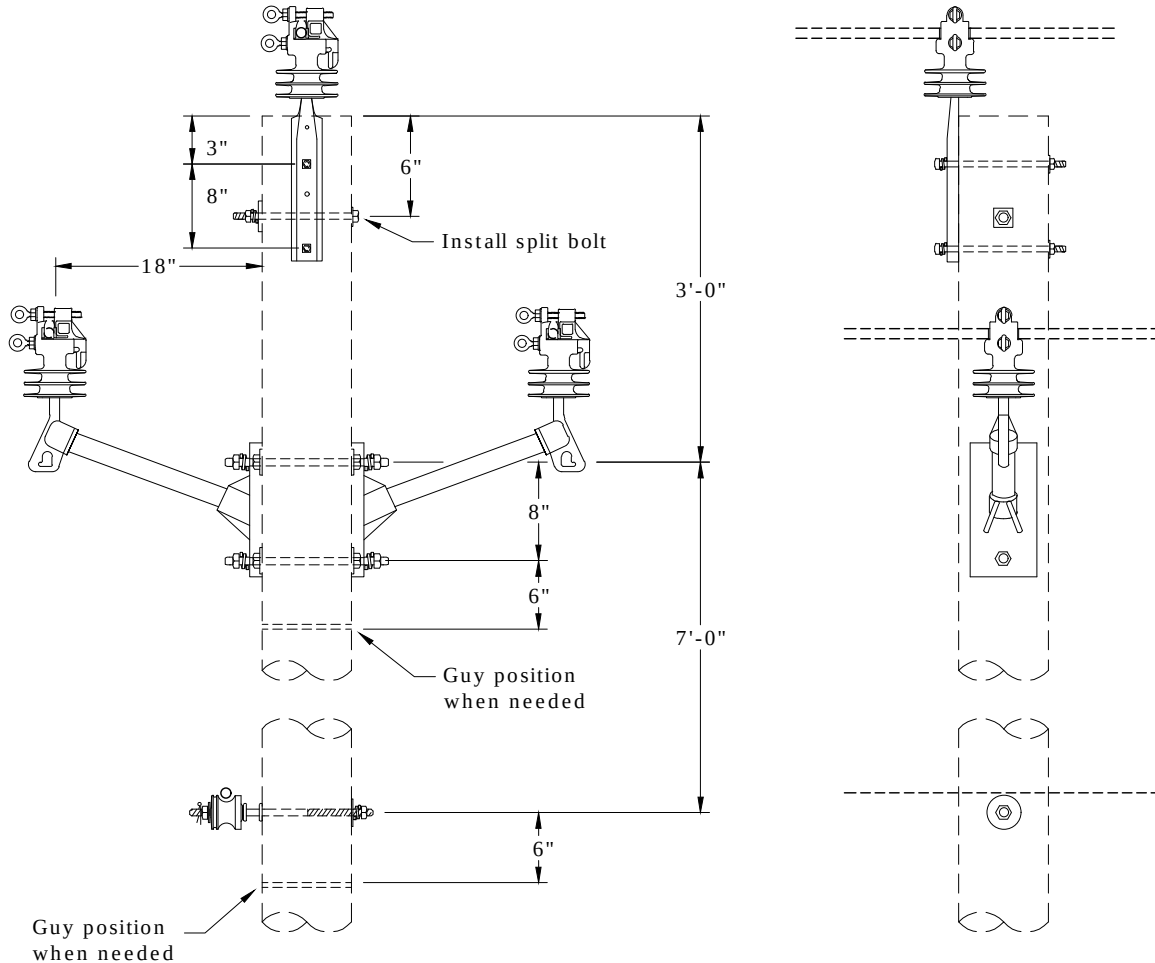
REVISIONS

Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	6/7/06	LB	AH
3	1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340

Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase and one of the outside phases.

Rev. 3 - Changed all insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS

3Ø TWIGGY
0° TO 5°
795 AAC MAX WIRE

PAGE:
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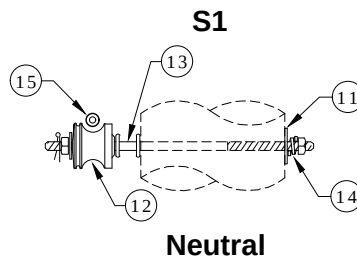
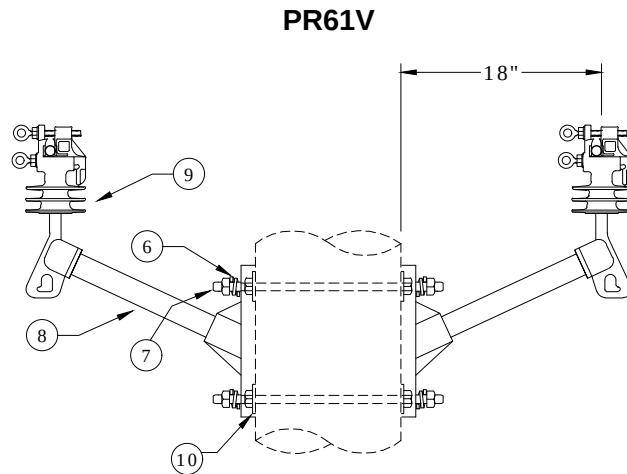
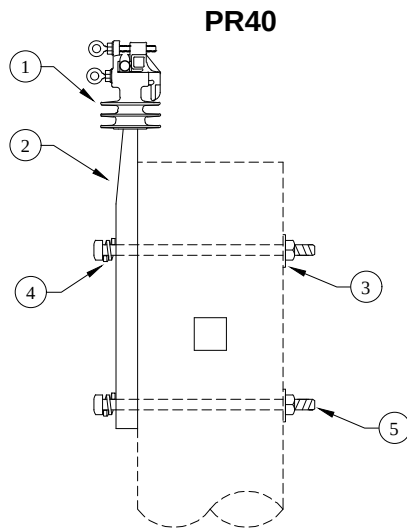
D10

CAD FILE:
D10

REVISIONS

△	DATE	ENGR	OPS
1	3/28/02	HWH	DLK
2	8/10/06	LB	AH
3	1/4/18	CM	DK

△	APP:	SECTION
DATE:		340



Rev. 3 - Changed all insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D10	
		PR40	
		QTY.	S/N
1	Insulator, Vise-Top, Polymer ✱	1	2439
2	Pin, Pole Top ✱	1	962
3	Washer, Curved, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
4	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	2	2217
5	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile ✱	2	155
ITEM NO.	DESCRIPTION	PR61V	
		QTY.	S/N
6	Washer, Lock, Spring, Double Coil, Galv., 5/8"	4	2217
7	Bolt, Double Arm, 5/8" x 18", Galv., 12,400 lbs Ultimate Tensile	2	82
8	Arm, Epoxy 18" 2500 lbs	2	2504
9	Insulator, Vise-Top, Polymer	2	2439
10	Washer, Flat, Round, Galv., 5/8"	4	1395
ITEM NO.	DESCRIPTION	S1	
		QTY.	S/N
11	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
12	Insulator, Spool, Clevis, Small, ANSI 53-2 Class	1	773
13	Bolt, Double Upset, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	1	1580
14	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	1	2217
15	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø TWIGGY
0° TO 5°
795 AAC MAX WIRE

PAGE:
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D10

CAD FILE:
D10

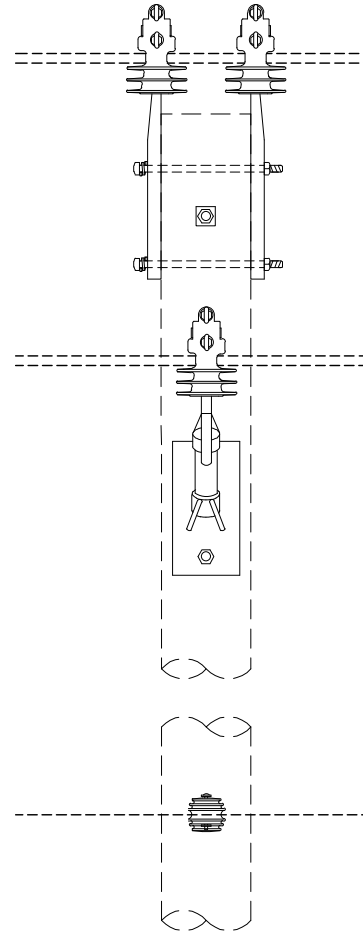
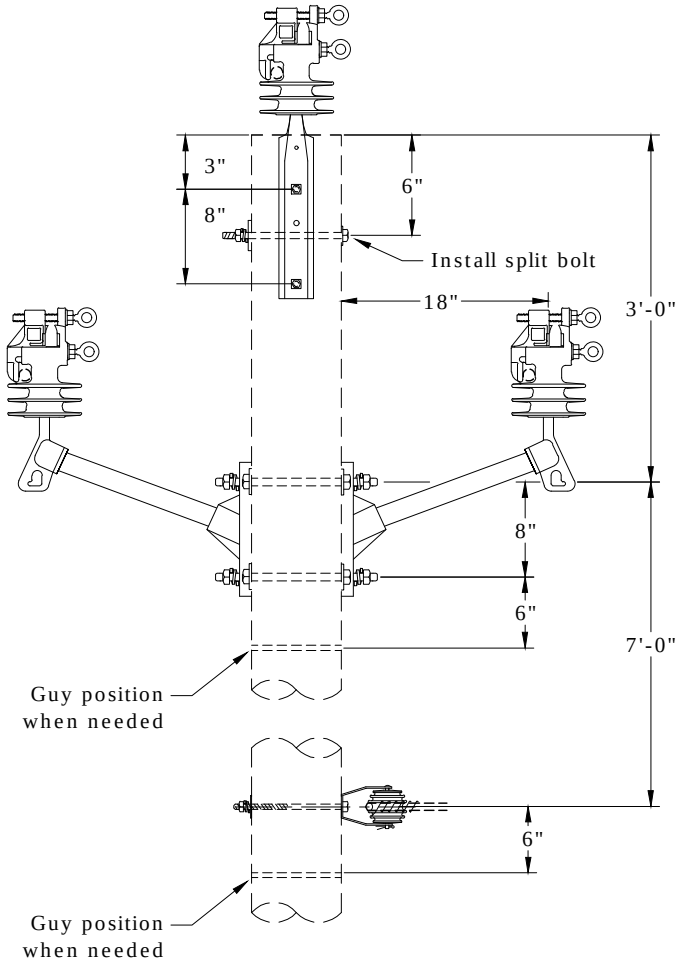
REVISIONS

△	DATE	ENGR	OPS
1	3/28/02	HWH	DLK
2	8/10/06	LB	AH
3	1/4/18	CM	DK

△	APP:	SECTION
	DATE:	340

Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase and one of the outside phases.

Rev. 3 - Changed all insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS

3Ø TWIGGY
6° TO 15°
795 AAC MAX WIRE

PAGE:
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D11

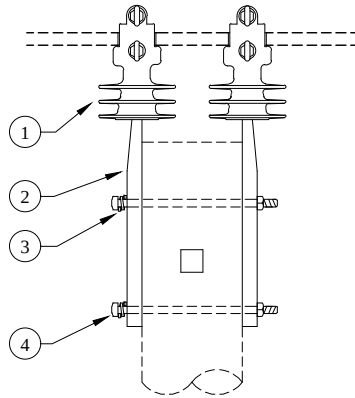
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D11

REVISIONS

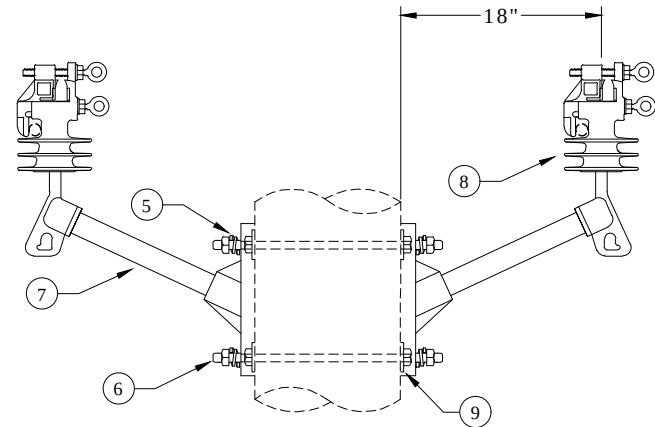
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1	3/28/02	HWH	DLK
2	8/10/06	LB	AH
3	1/4/18	CM	DK

△	APP:	SECTION
DATE:		340

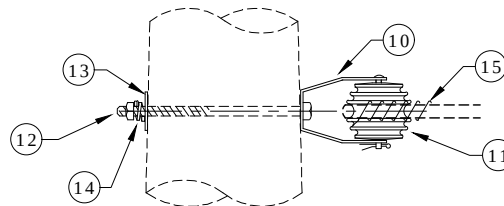
PR41



PR61V



S3



Neutral

Rev. 3 - Changed all insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D11	
		PR41	
		QTY.	S/N
1	Insulator, Vise-Top, Polymer ✱	2	2439
2	Pin, Pole Top ✱	2	962
3	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	2	2217
4	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	2	156
ITEM NO.	DESCRIPTION	PR61V	
		QTY.	S/N
5	Washer, Lock, Spring, Double Coil, Galv., 5/8"	4	2217
6	Bolt, Double Arm, 5/8" x 18", Galv., 12,400 lbs Ultimate Tensile	2	82
7	Arm, Epoxy 18" 2500 lb	2	2504
8	Insulator, Vise-Top, Polymer	2	2439
9	Washer, Flat, Round, Galv., 5/8"	4	1395
ITEM NO.	DESCRIPTION	S3	
		QTY.	S/N
10	Clevis, DE Insulator 1344	1	336
11	Insulator, Spool, Clevis, Large, ANSI 53-5 Class	1	774
12	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	1	156
13	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
14	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	1	2217
15	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø TWIGGY
6° TO 15°
795 AAC MAX WIRE

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D11

CAD FILE:
D11

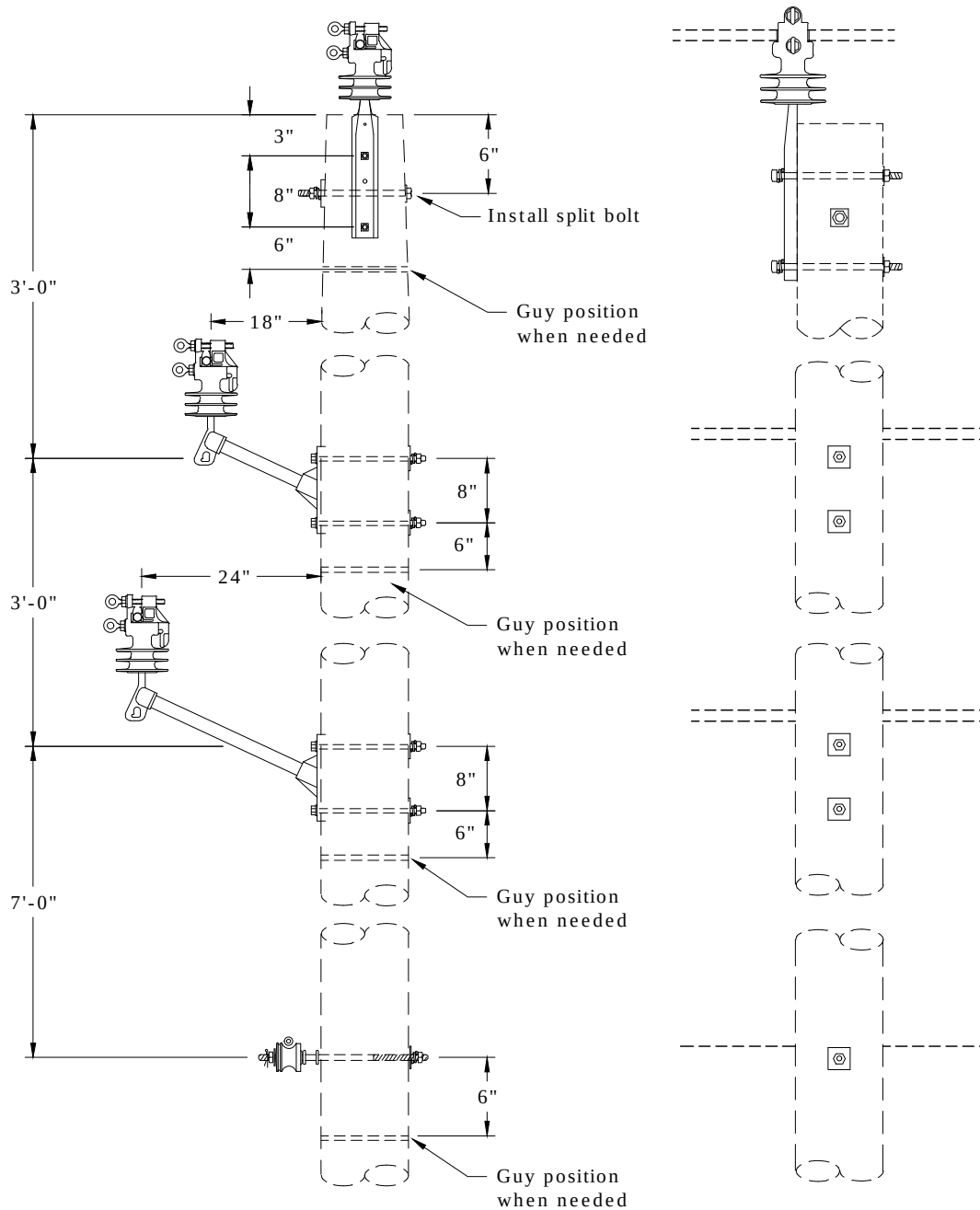
REVISIONS

△	DATE	ENGR	OPS
1	3/28/02	HWH	DLK
2	8/10/06	LB	AH
3	1/4/18	CM	DK

△	APP:	SECTION
	DATE:	340

Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase.

Rev. 3 - Changed all insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS

3Ø VERTICAL W/ POLE TOP
0° TO 5°
795 AAC MAX WIRE

PAGE:
1 of 2

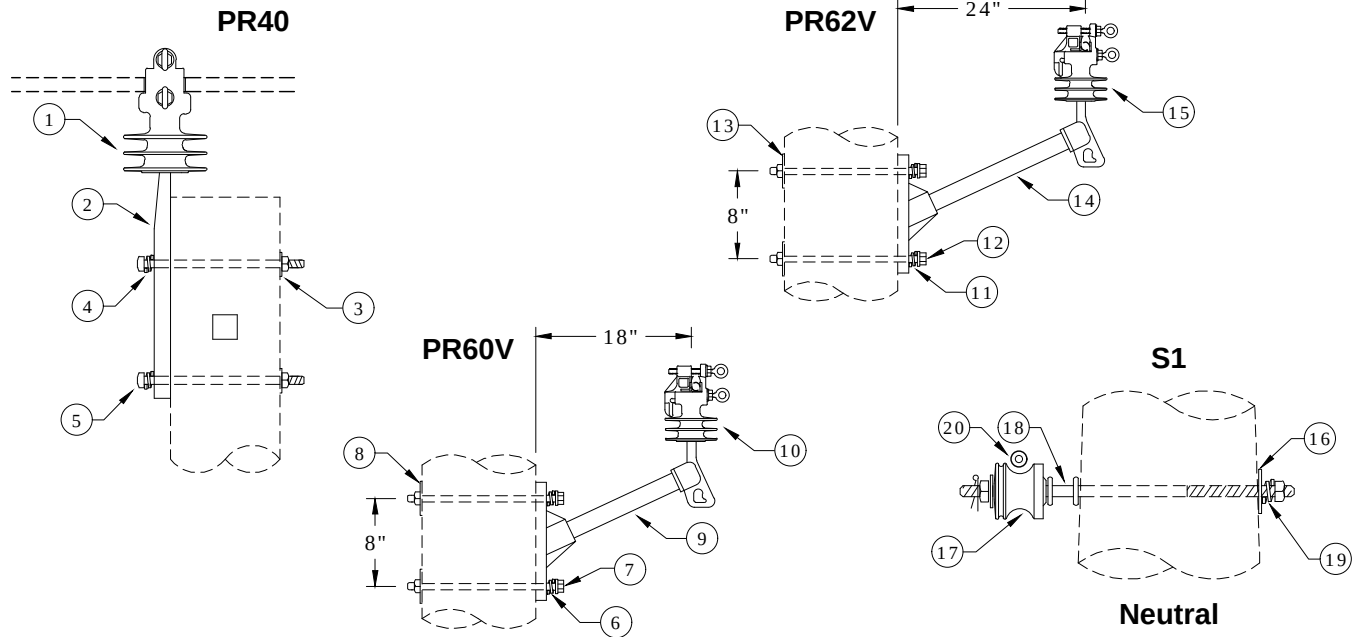
D13

CAD FILE:
D13

REVISIONS

△	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	8/10/06	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340



Rev. 3 - Changed all insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D13	
		PR40	
		QTY.	S/N
1	Insulator, Vise-Top, Polymer ✱	1	2439
2	Pin, Pole Top ✱	1	962
3	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
4	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	2	2217
5	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile ✱	2	155
ITEM NO.	DESCRIPTION	PR60V	
		QTY.	S/N
6	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
7	Bolt, Machine, 5/8" x 16" Galv., 12,400 lbs Ultimate Tensile	2	157
8	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
9	Arm, Epoxy 18" 2500 lbs	1	2504
10	Insulator, Vise-Top, Polymer	1	2439
ITEM NO.	DESCRIPTION	PR62V	
		QTY.	S/N
11	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
12	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs Ultimate Tensile	2	157
13	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
14	Arm, Epoxy 24" 2500 lbs	1	2605
15	Insulator, Vise-Top, Polymer	1	2439
ITEM NO.	DESCRIPTION	S1	
		QTY.	S/N
16	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
17	Insulator, Spool, Clevis, Small, ANSI 53-2 Class	1	773
18	Bolt, Double Upset, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	1	1580
19	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	1	2217
20	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø VERTICAL W/ POLE TOP
0° TO 5°
795 AAC MAX WIRE

PAGE:
2 of 2

D13

CAD FILE:
D13

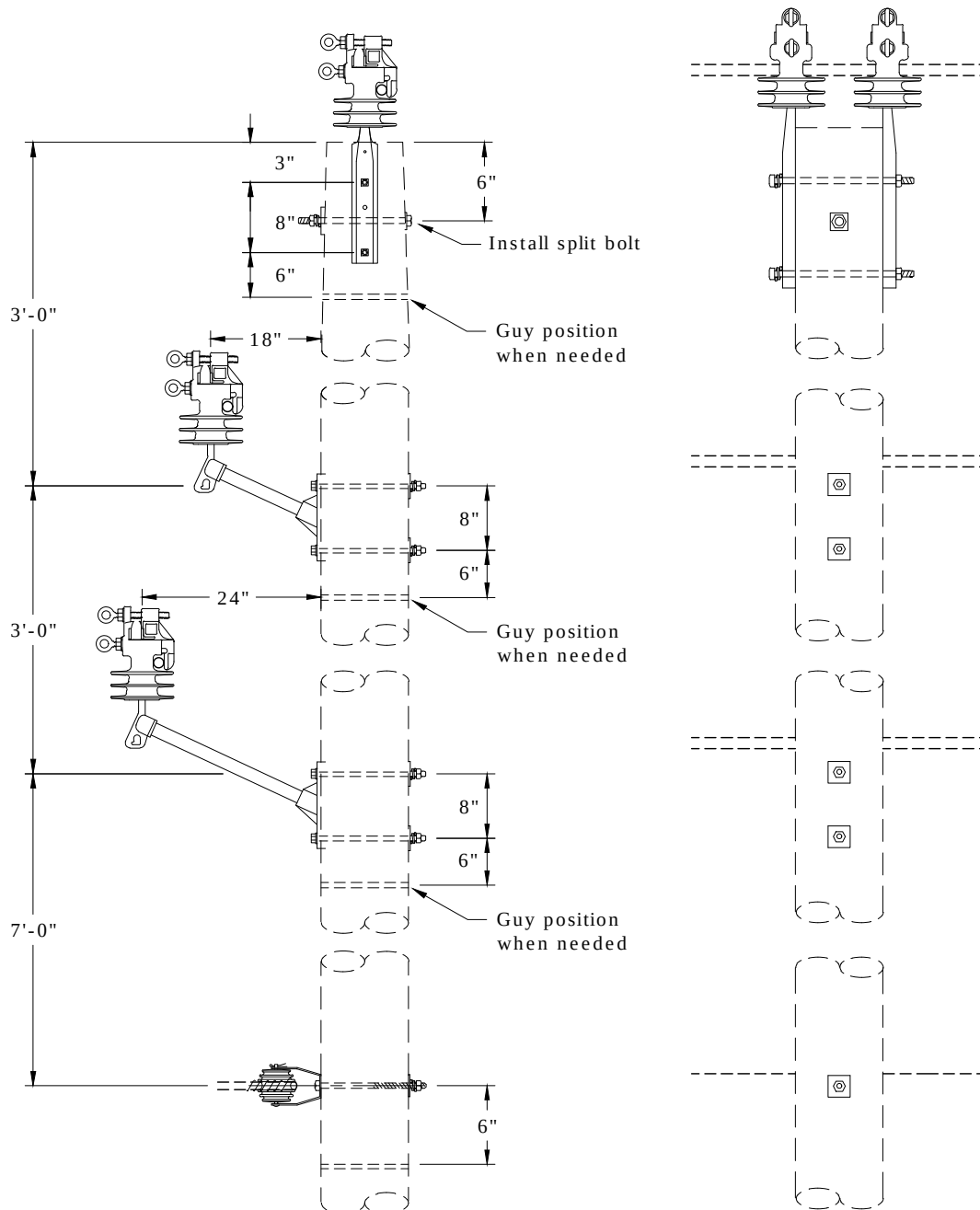
REVISIONS

△	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	8/10/06	LB	AH
3	1/4/18	CM	DK

△	APP:	ELM	SECTION
	DATE:	1/31/80	340

Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase.

Rev. 3 - Changed all insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS
3Ø VERTICAL W/ DOUBLE POLE TOP
6° TO 15°
795 AAC MAX WIRE

PAGE:
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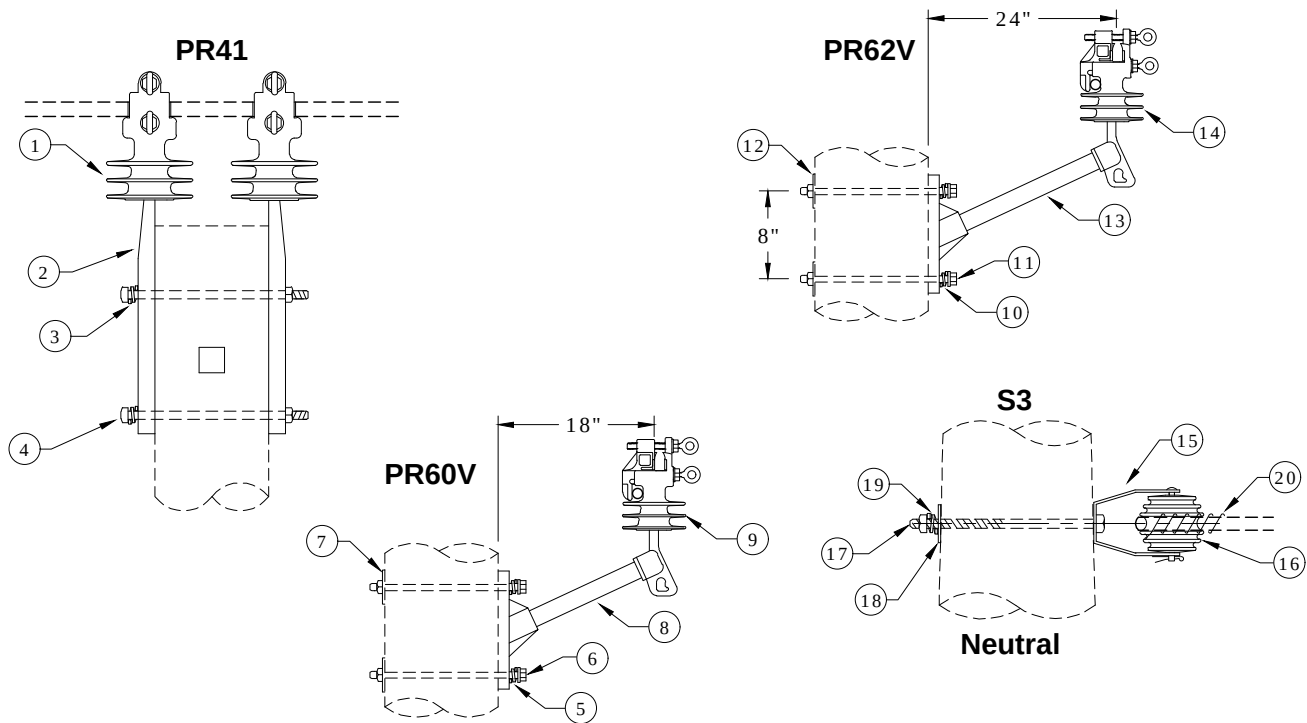
D14

CAD FILE:
D14

REVISIONS

△	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	8/10/06	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340



Rev. 3 - Changed all insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D14	
		PR41	
		QTY.	S/N
1	Insulator, Vise-Top, Polymer ✱	2	2439
2	Pin, Pole Top ✱	2	962
3	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	2	2217
4	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	2	156
ITEM NO.	DESCRIPTION	PR60V	
		QTY.	S/N
5	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
6	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs Ultimate Tensile	2	157
7	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
8	Arm, Epoxy 18" 2500 lbs	1	2504
9	Insulator, Vise-Top, Polymer	1	2439
ITEM NO.	DESCRIPTION	PR62V	
		QTY.	S/N
10	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
11	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs Ultimate Tensile	2	157
12	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
13	Arm, Epoxy 24" 2500 lbs	1	2605
14	Insulator, Vise-Top, Polymer	1	2439
ITEM NO.	DESCRIPTION	S3	
		QTY.	S/N
15	Clevis, DE Insulator 1344	1	336
16	Insulator, Spool, Clevis, Large, ANSI 53-5 Class	1	774
17	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	1	156
18	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
19	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	1	2217
20	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS 3Ø VERTICAL W/ DOUBLE POLE TOP 6° TO 15° 795 AAC MAX WIRE

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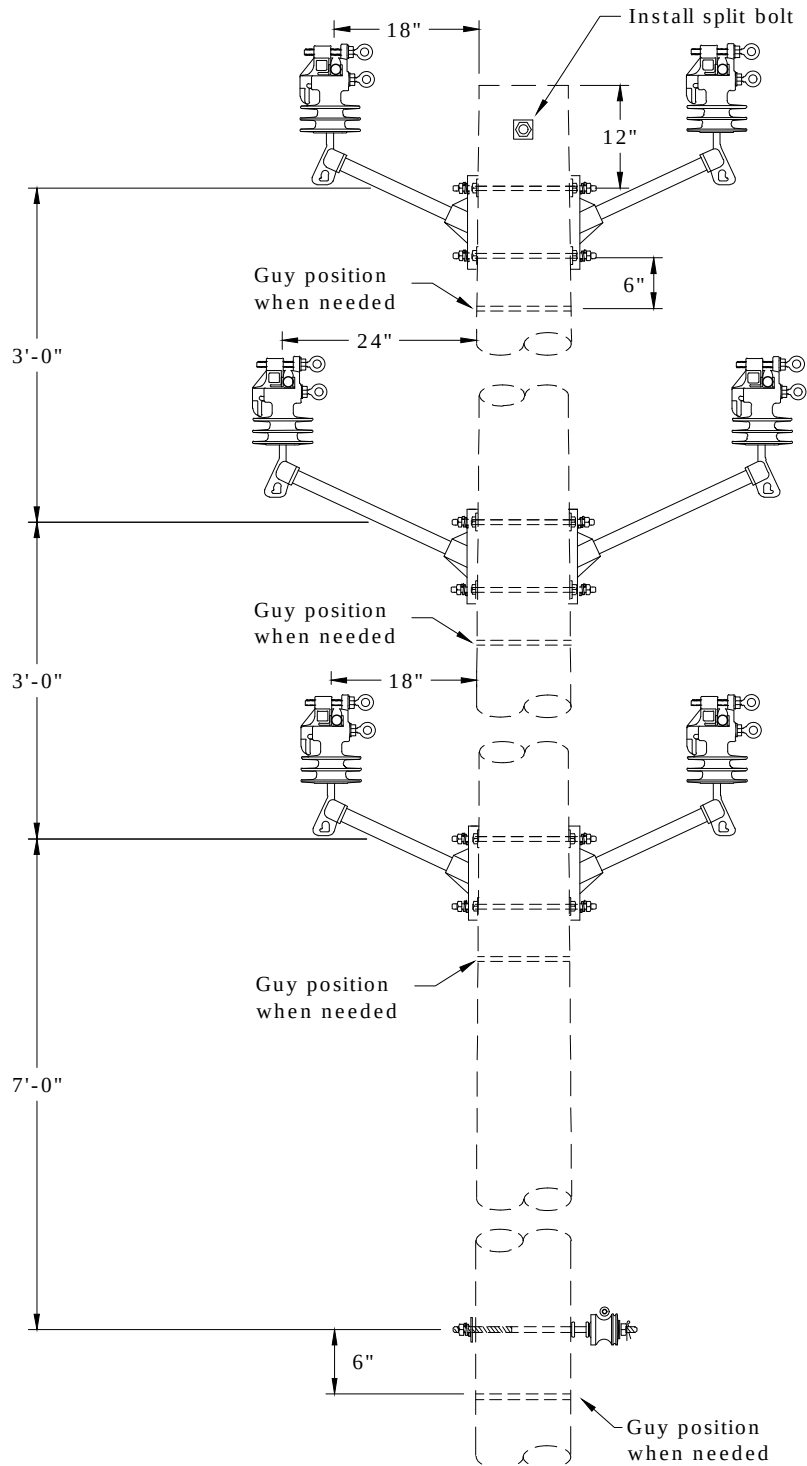
D14

CAD FILE:
D14

REVISIONS

Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	8/10/06	LB	AH
3	1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off

Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers required on all three phases on one side of pole and center phase on opposite side.

Rev. 3 - Added avian note and changed to vise-top insulators on twiggy arms.



CONSTRUCTION STANDARDS

3Ø DOUBLE TWIGGY CIRCUIT

0° TO 5°

795 AAC MAX WIRE

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D16

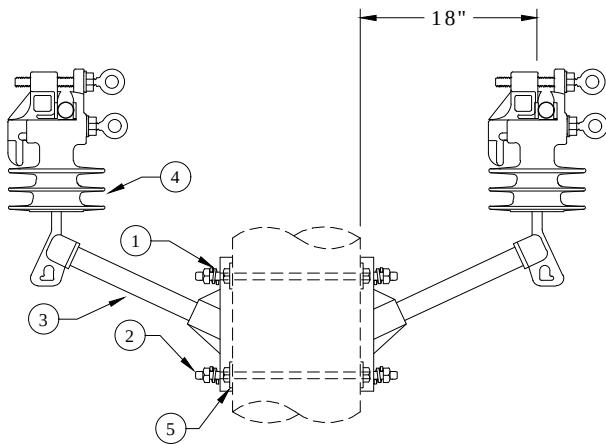
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REVISIONS

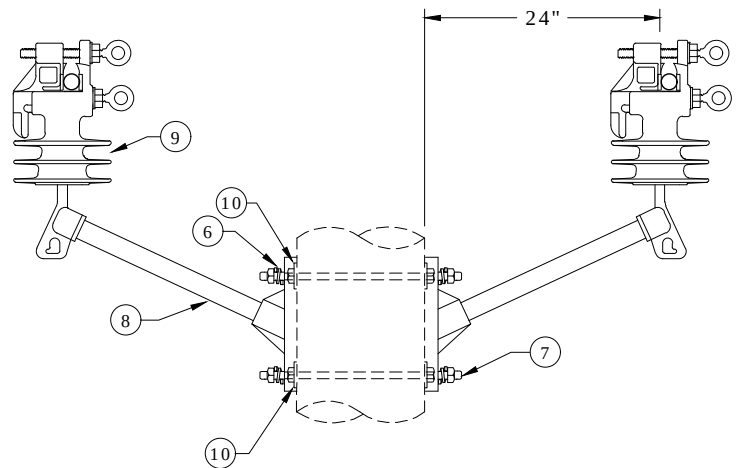
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1	3/02	REDRAWN	IN CAD
2	12/11/07	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340

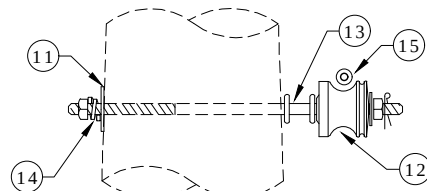
PR61V



PR63V



S1



Neutral

Rev. 3 - Added avian note and changed to vise-top insulators on twiggy arms.

ITEM NO.	DESCRIPTION	D16	
		PR61V (2)	
		QTY.	S/N
1	Washer, Lock, Spring, Double Coil, Galv., 5/8"	8	2217
2	Bolt, Double Arm, 5/8" x 18", Galv., 12,400 lbs Ultimate Tensile	4	82
3	Arm, Epoxy 18" 2500 lbs	4	2504
4	Insulator, Vise-Top, Polymer	4	2439
5	Washer, Flat, Round, Galv., 5/8"	8	1395
ITEM NO.	DESCRIPTION	PR63V	
		QTY.	S/N
6	Washer, Lock, Spring, Double Coil, Galv., 5/8"	4	2217
7	Bolt, Double Arm, 5/8" x 18", Galv., 12,400 lbs Ultimate Tensile	2	82
8	Arm, Epoxy 24" 2500 lbs	2	2605
9	Insulator, Vise-Top, Polymer	2	2439
10	Washer, Flat, Round, Galv., 5/8"	4	1395
ITEM NO.	DESCRIPTION	S1	
		QTY.	S/N
11	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
12	Insulator, Spool, Clevis, Small, ANSI 53-2 Class	1	773
13	Bolt, Double Upset, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile *	1	1580
14	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
15	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø DOUBLE TWIGGY CIRCUIT
0° TO 5°
795 AAC MAX WIRE

PAGE:
2 of 2

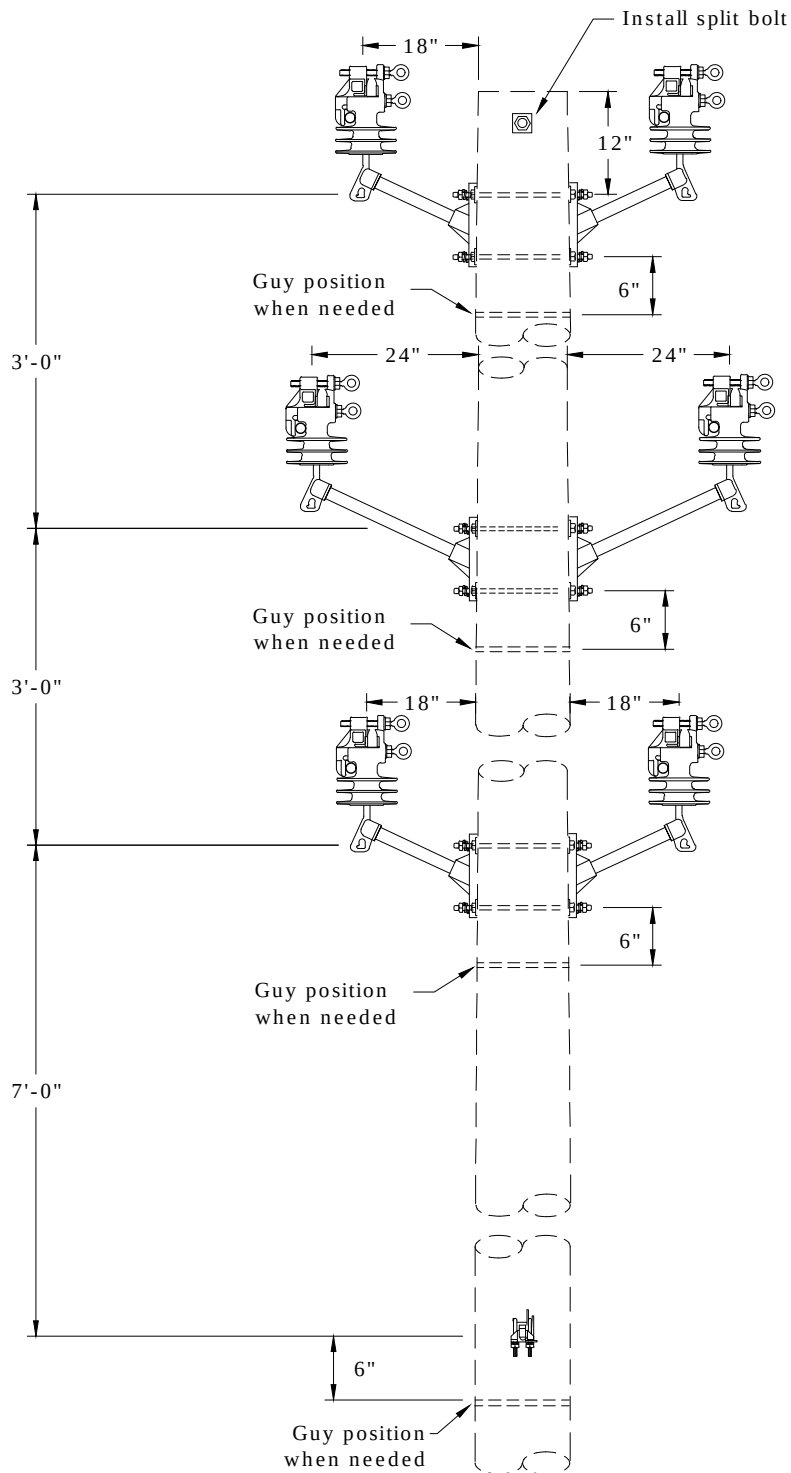
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CAD FILE:
D16

REVISIONS

Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	12/11/07	LB	AH
3	1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340



Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off

Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers required on all three phases on one side of pole and center phase on opposite side of pole.

Rev. 3 - Added avian note and changed to vise-top insulators on twiggy arms.



CONSTRUCTION STANDARDS

3Ø DOUBLE TWIGGY CIRCUIT
6° TO 15°
795 AAC MAX WIRE

PAGE:
1 of 2

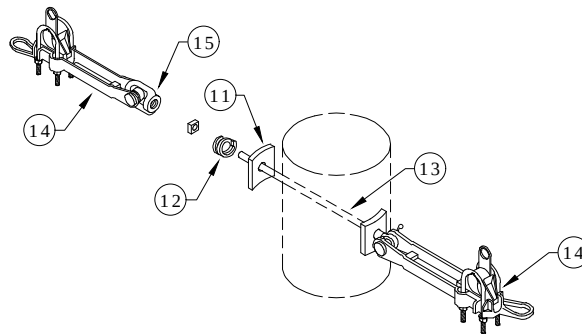
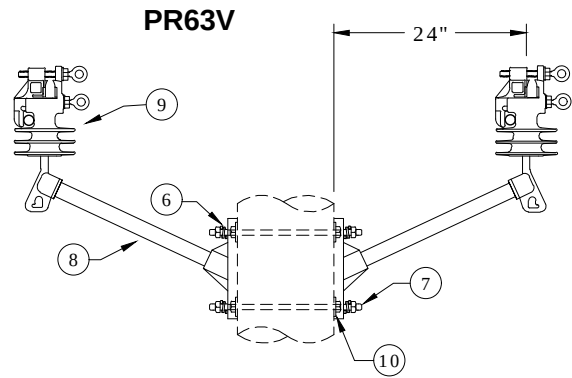
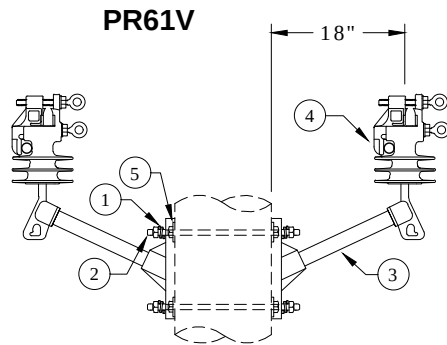
D17

CAD FILE:
D17

REVISIONS

△	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	8/10/06	LB	AH
3	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340



Neutral

Rev. 3 - Added avian note and changed to vise-top insulators on twiggy arms.

ITEM NO.	DESCRIPTION	D17	
		QTY.	S/N
1	Washer, Lock, Spring, Double Coil, Galv., 5/8"	8	2217
2	Bolt, Double Arm, 5/8" x 18", Galv., 12,400 lbs Ultimate Tensile	4	82
3	Arm, Epoxy 18" 2500 lbs	4	2504
4	Insulator, Vise-Top, Polymer	4	2439
5	Washer, Flat, Round, Galv., 5/8"	8	1395
ITEM NO.	DESCRIPTION	PR63V	
		QTY.	S/N
6	Washer, Lock, Spring, Double Coil, Galv., 5/8"	4	2217
7	Bolt, Double Arm, 5/8" x 18", Galv., 12,400 lbs Ultimate Tensile	2	82
8	Arm, Epoxy 24" 2500 lbs	2	2605
9	Insulator, Vise-Top, Polymer	2	2439
10	Washer, Flat, Round, Galv., 5/8"	4	1395
ITEM NO.	DESCRIPTION	Additional Material	
		QTY.	S/N
11	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
12	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
13	Bolt, Eye, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile *	1	108
14	Clamp, Strain, Distribution, 795	2	303
15	Nut, Eye, Oval, Galv., 5/8" *	1	913



CONSTRUCTION STANDARDS 3Ø DOUBLE TWIGGY CIRCUIT 6° TO 15° 795 AAC MAX WIRE

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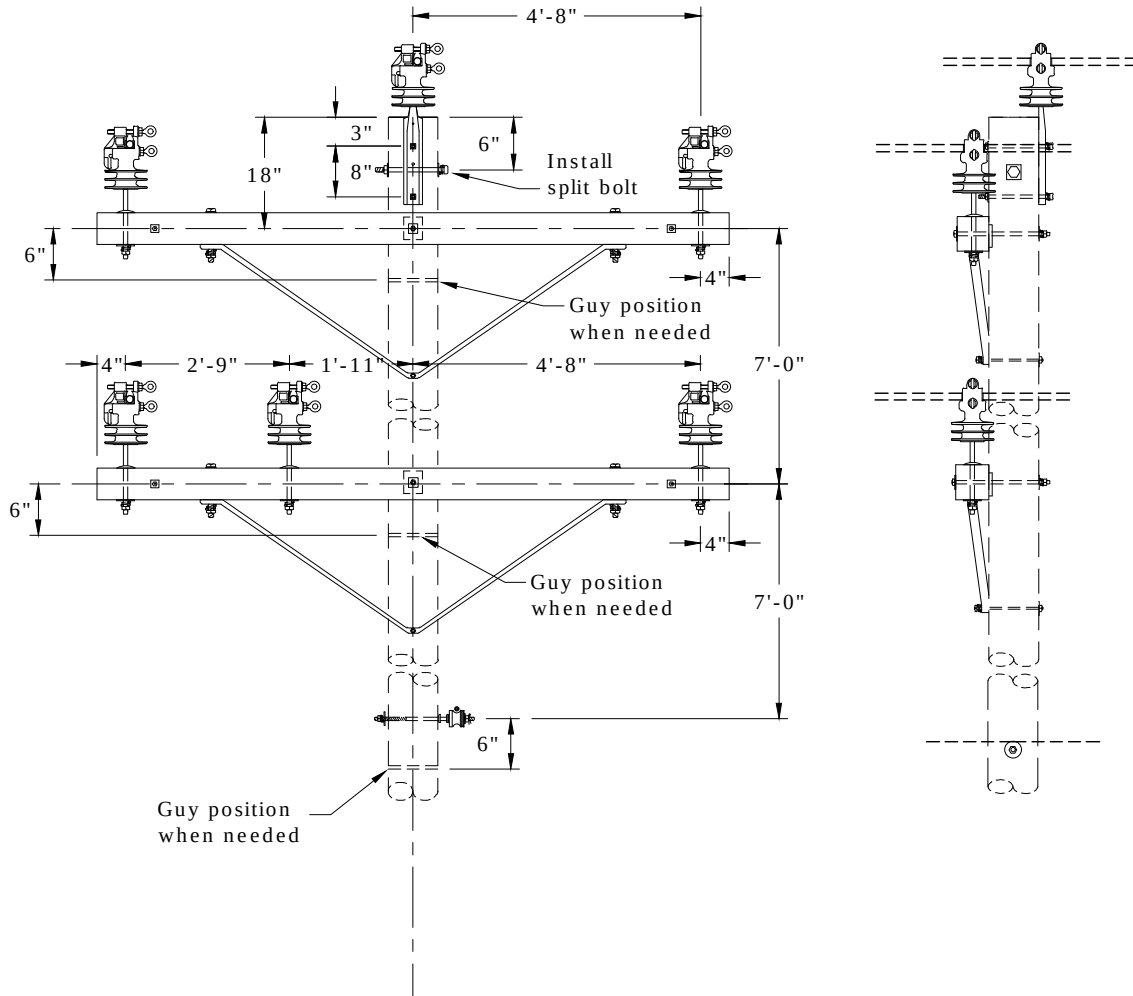
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CAD FILE:
D17

REVISIONS			
Δ	DATE	ENGR	OPS
1	3/02	REDRAWN	IN CAD
2	8/10/06	LB	AH
3	1/4/18	CM	DK
Δ			
APP:	ELM	SECTION	
DATE:	1/31/80	340	

Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phases.

Rev. 4 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS

3Ø SINGLE 10' CROSSARM
DOUBLE CIRCUIT- 0° TO 5°
795 AAC MAX WIRE

PAGE:
1 of 2

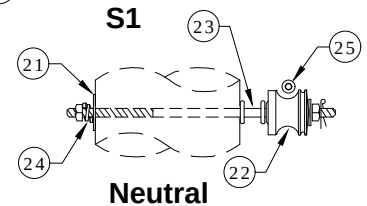
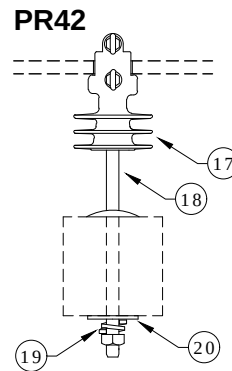
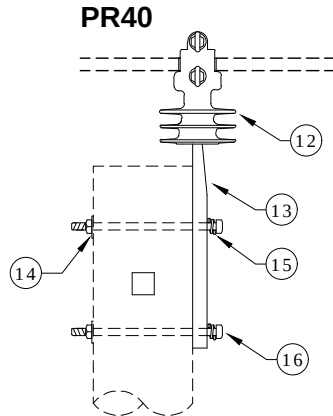
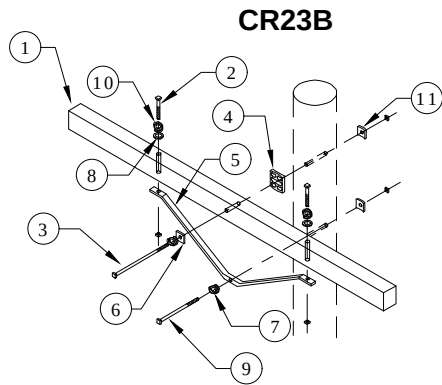
D19B

CAD FILE:
D19B

REVISIONS

△	DATE	ENGR	OPS
1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

△	APP:	ELM	SECTION
	DATE:	1/31/80	340



Rev. 4 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D19B	
		CR23B (2)	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 10'	2	26
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile *	4	143
3	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs Ultimate Tensile *	2	157
4	Gain, Pole Plastic	2	709
5	Brace, Angle, 72"	2	204
6	Washer, Square, Cast, Flat, 5/8", 2 1/4" x 2 1/4"	2	1412
7	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	4	2217
8	Washer, Flat, Round, Galv., 1/2"	4	1394
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile *	2	155
10	Washer, Lock, Spring, Double Coil, Galv., 1/2" *	4	2216
11	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	4	1392
ITEM NO.	DESCRIPTION	PR40	
		QTY.	S/N
12	Insulator, Vise-Top, Polymer *	1	2439
13	Pin, Pole Top *	1	962
14	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
15	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	2	2217
16	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs. Ultimate Tensile *	2	155
ITEM NO.	DESCRIPTION	PR42 (5)	
		QTY.	S/N
17	Insulator, Vise-Top, Polymer *	5	2439
18	Pin, Crossarm *	5	961
19	Washer, Lock, Spring, Double Coil, Galv., 5/8"	5	2217
20	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4" *	5	1412
ITEM NO.	DESCRIPTION	S1	
		QTY.	S/N
21	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
22	Insulator, Spool, Clevis, Small, ANSI 53-2 Class	1	773
23	Bolt, Double Upset, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile *	1	1580
24	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
25	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø SINGLE 10' CROSSARM
DOUBLE CIRCUIT- 0° TO 5°
795 AAC MAX WIRE

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D19B

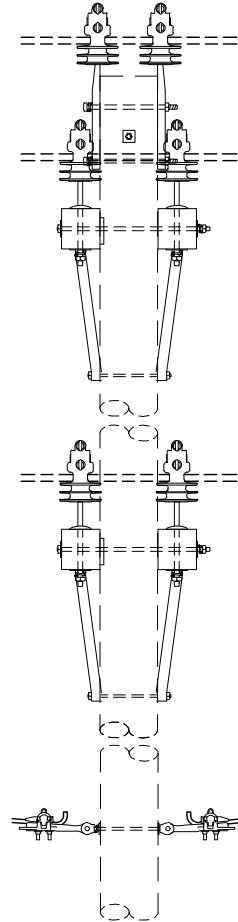
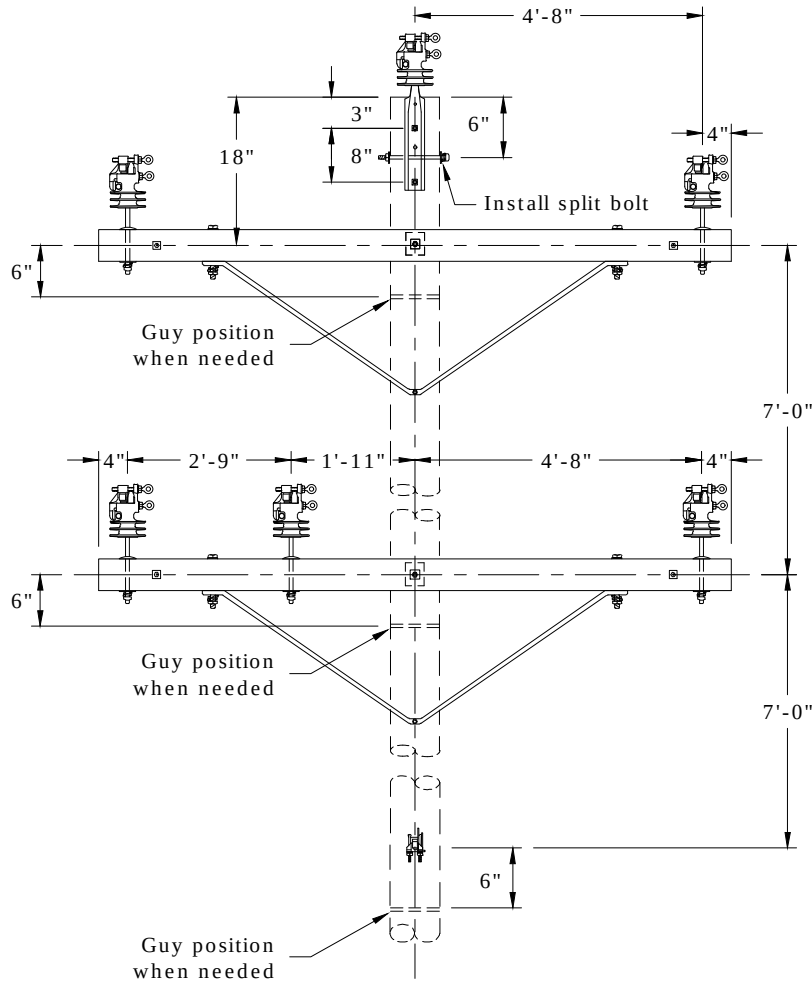
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REVISIONS

△	DATE	ENGR	OPS
1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK
△			
APP:	ELM	SECTION	
DATE:	1/31/80	340	

Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do not reuse bolts after rings have broken off



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phases.

Rev. 4 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS

3Ø DOUBLE 10' CROSSARM
DOUBLE CIRCUIT- 6° TO 15°
795 AAC MAX WIRE

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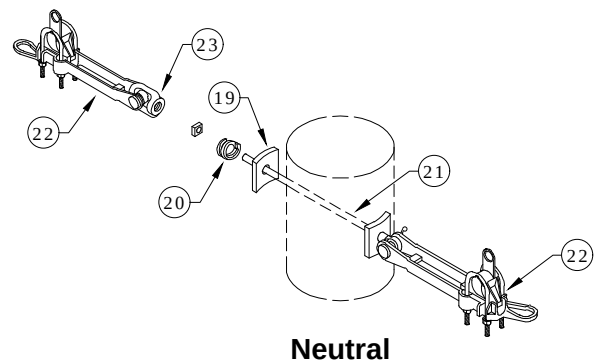
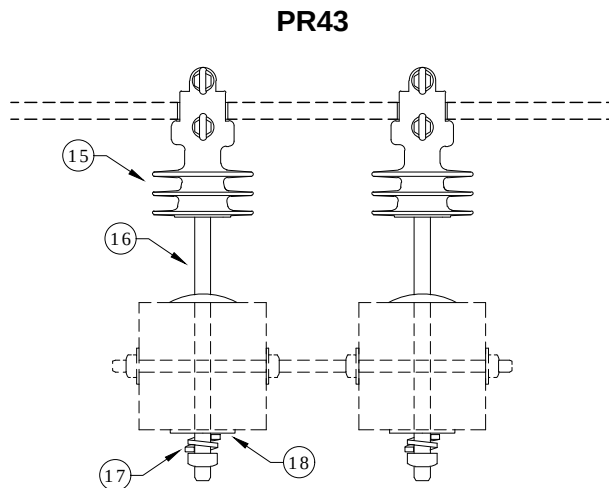
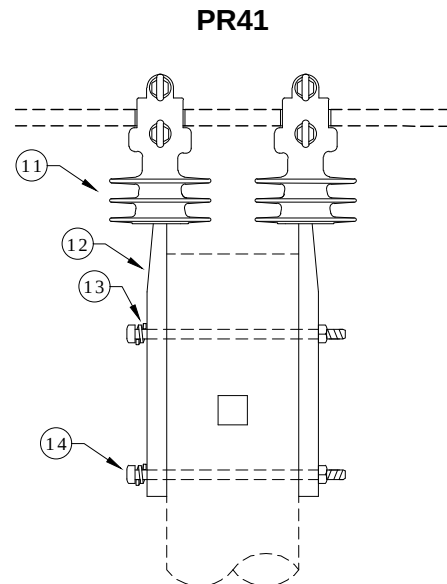
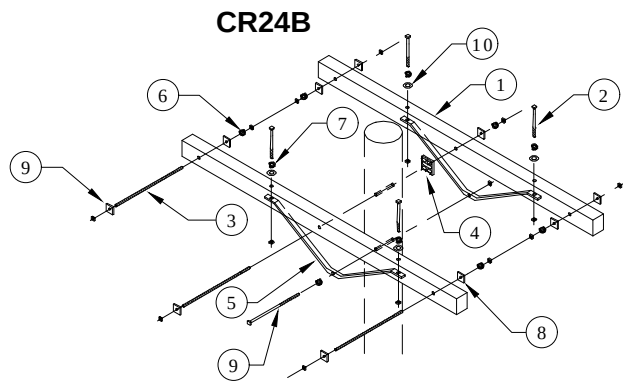
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REVISIONS

△	DATE	ENGR	OPS
1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

△	APP:	ELM	SECTION
	DATE:	1/31/80	340



Rev. 4 - Changed post insulators to vise-top, added avian note, and updated material list.



CONSTRUCTION STANDARDS

3Ø DOUBLE 10' CROSSARM
DOUBLE CIRCUIT- 6° TO 15°
795 AAC MAX WIRE

PAGE:
2 of 3

D20B

CAD FILE:
D20B

REVISIONS

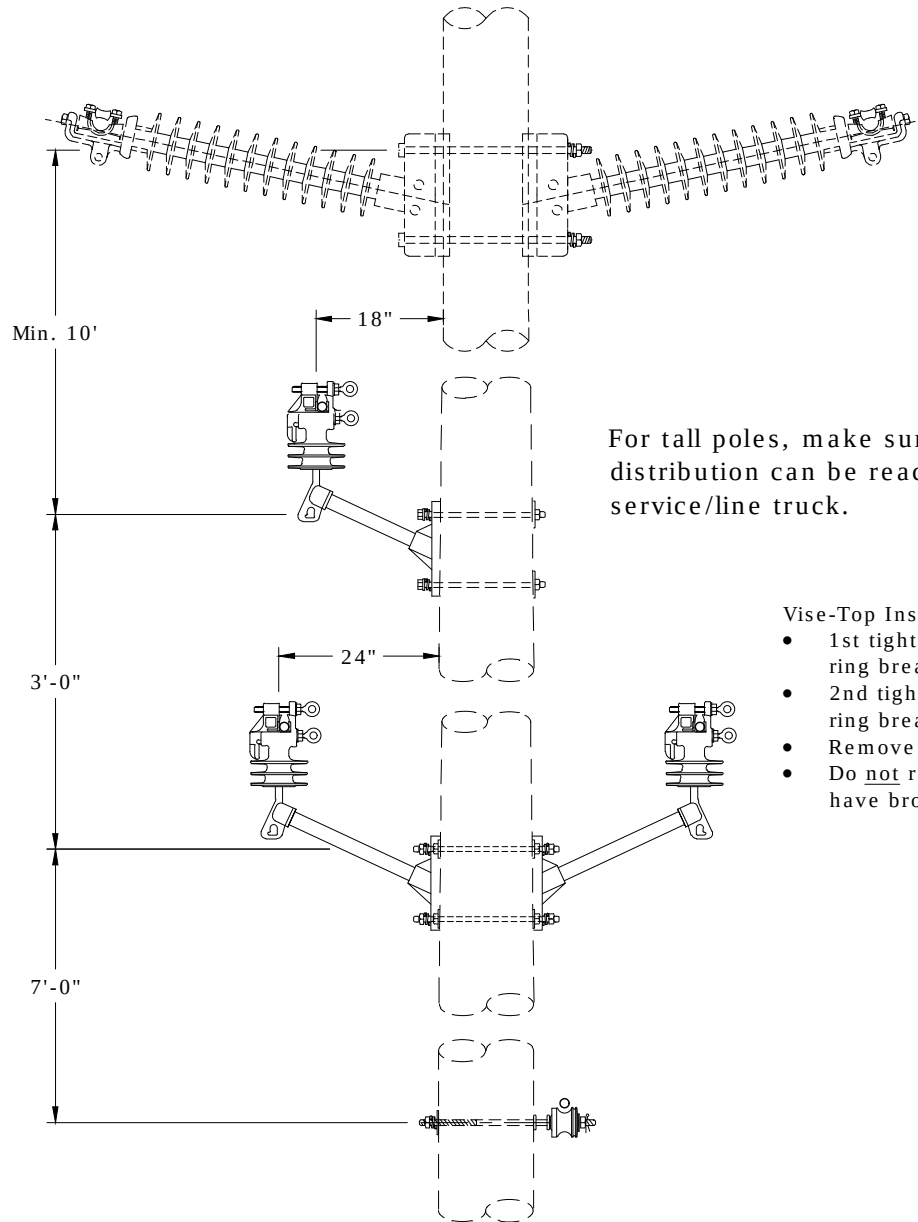
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1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

△	APP: ELM	SECTION
DATE: 1/31/80		340

Rev. 4 - Changed post insulators to vise-top, added avian note, and updated material list.

ITEM NO.	DESCRIPTION	D20B	
		CR24B (2)	
		QTY.	S/N
1	Arm, Cross (Distr.), 3 3/4" x 4 3/4" x 10'	4	26
2	Bolt, Machine, 1/2" x 7", Galv., 7800 lbs Ultimate Tensile ✱	8	143
3	Bolt, Double, Arm, 5/8" x 20", Galv., 12,400 lbs Ultimate Tensile ✱	6	83
4	Gain, Pole Plastic	2	709
5	Brace, Angle, 72"	4	204
6	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	12	2217
7	Washer, Lock, Spring, Double Coil, Galv., 1/2" ✱	8	2216
8	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	20	1412
9	Bolt, Machine, 5/8" x 12", Galv., 12,400 lbs Ultimate Tensile ✱	2	155
10	Washer, Flat, Round, Galv., 1/2"	8	1394
ITEM NO.	DESCRIPTION	PR41	
		QTY.	S/N
11	Insulator, Vise-Top, Polymer ✱	2	2439
12	Pin, Pole Top ✱	2	962
13	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	2	2217
14	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	2	156
ITEM NO.	DESCRIPTION	PR43 (5)	
		QTY.	S/N
15	Insulator, Vise-Top, Polymer ✱	10	2439
16	Pin, Crossarm ✱	10	961
17	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	10	2217
18	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	10	1412
ITEM NO.	DESCRIPTION	Additional Material	
		QTY.	S/N
19	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
20	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	1	2217
21	Bolt, Eye, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	1	108
22	Clamp, Strain Distribution, 795	2	303
23	Nut, Eye Oval 5/8" Galv. ✱	1	913

	CONSTRUCTION STANDARDS 3Ø DOUBLE 10' CROSSARM DOUBLE CIRCUIT- 6° TO 15° 795 AAC MAX WIRE	REVISIONS <table> <tr> <th>△</th> <th>DATE</th> <th>ENGR</th> <th>OPS</th> </tr> <tr> <td>1</td> <td>2/11/81</td> <td>GGW</td> <td></td> </tr> <tr> <td>2</td> <td>3/02</td> <td>REDRAWN</td> <td>IN CAD</td> </tr> <tr> <td>3</td> <td>12/11/07</td> <td>LB</td> <td>AH</td> </tr> <tr> <td>4</td> <td>1/4/18</td> <td>CM</td> <td>DK</td> </tr> </table>	△	DATE	ENGR	OPS	1	2/11/81	GGW		2	3/02	REDRAWN	IN CAD	3	12/11/07	LB	AH	4	1/4/18	CM	DK
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2	3/02	REDRAWN	IN CAD																			
3	12/11/07	LB	AH																			
4	1/4/18	CM	DK																			
PAGE: 3 of 3	D20B	CAD FILE: D20B	APP: ELM DATE: 1/31/80	SECTION 340																		



Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on top phase and one of the bottom phases of the distribution.



CONSTRUCTION STANDARDS
3Ø TWIGGY TRANSMISSION UNDERBUILD
0° TO 5°
795 AAC MAX WIRE

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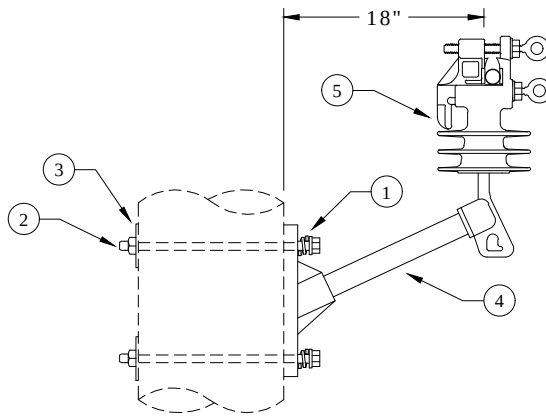
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REVISIONS

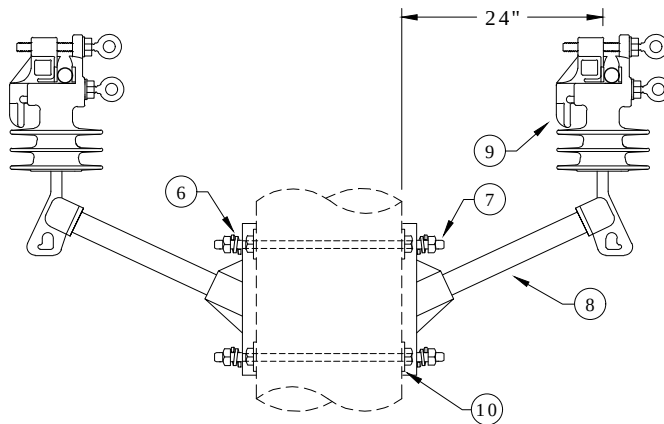
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△	APP:	CM/DK	SECTION
DATE:	1/4/18	340	

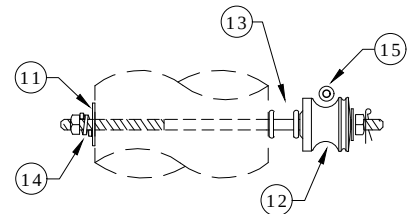
PR60V



PR63V



S1



ITEM NO.	DESCRIPTION	D22	
		PR60V	
		QTY.	S/N
1	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
2	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs. Ultimate Tensile	2	157
3	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
4	Arm, Epoxy 18" 2500 lbs	1	2504
5	Insulator, Vise-Top, Polymer	1	2439
ITEM NO.	DESCRIPTION	PR63V	
		QTY.	S/N
6	Washer, Lock, Spring, Double Coil, Galv., 5/8"	4	2217
7	Bolt, Double Arm, 5/8" x 18," Galv., 12,400 lbs Ultimate Tensile	2	82
8	Arm, Epoxy 24" 2500 lbs	2	2605
9	Insulator, Vise-Top, Polymer	2	2439
10	Washer, Flat, Round, Galv., 5/8"	4	1395
ITEM NO.	DESCRIPTION	S1	
		QTY.	S/N
11	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
12	Insulator, Spool, Clevis, Small, ANSI 53-2 Class	1	773
13	Bolt, Double Upset, 5/8" x 14", Galv., 12,400 lbs. Ultimate Tensile	1	1580
14	Washer, Lock, Spring, Double Coil, 5/8"	1	2217
15	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS

3Ø TWIGGY TRANSMISSION UNDERBUILD

0° TO 5°

795 AAC MAX WIRE

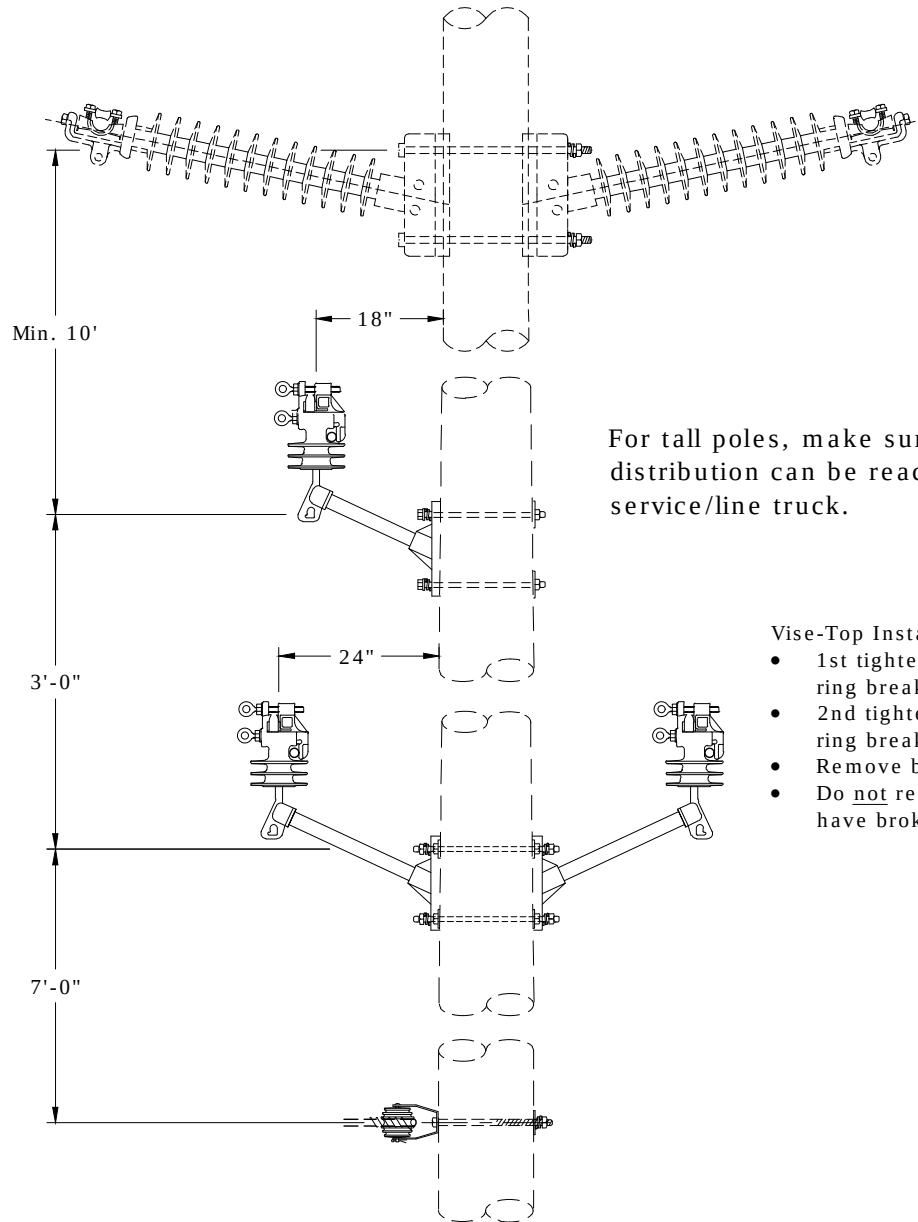
PAGE:
2 of 2

D22

CAD FILE:
D22

REVISIONS

△	DATE	ENGR	OPS
△			
APP:	CM/DK	SECTION	
DATE:	1/4/18	340	



For tall poles, make sure the distribution can be reached by a service/line truck.

Vise-Top Installation:

- 1st tighten the bottom bolt until ring breaks off
- 2nd tighten the top bolt until ring breaks off
- Remove bolts with socket stick
- Do **not** reuse bolts after rings have broken off

Notes:

1. Maximum line angle calculated for 5,000 lbs. MWT and 250-ft ruling span.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on top phase and one of the bottom phases of the distribution.



CONSTRUCTION STANDARDS
 3Ø TWIGGY TRANSMISSION UNDERBUILD
 6° TO 15°
 795 AAC MAX WIRE

PAGE:
1 of 2

D23

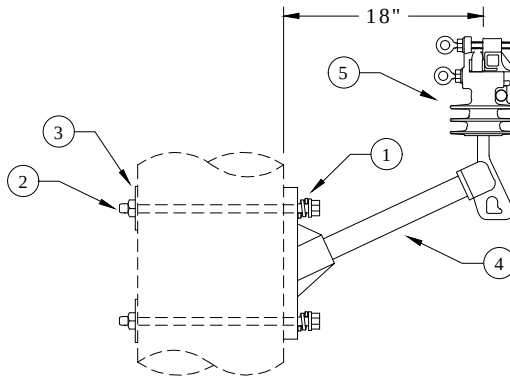
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D23

REVISIONS

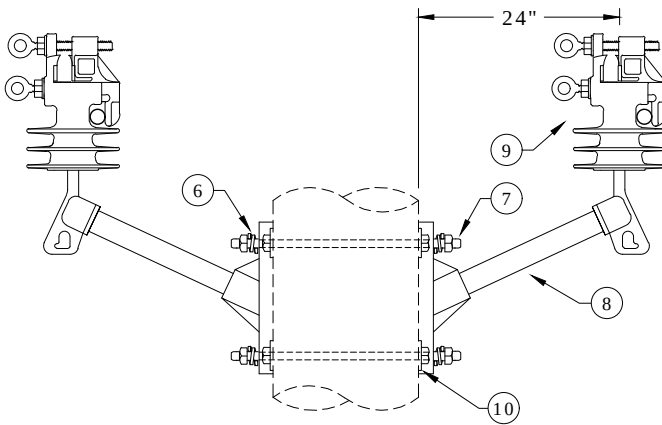
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△	APP:	CM/DK	SECTION
	DATE:	1/4/18	340

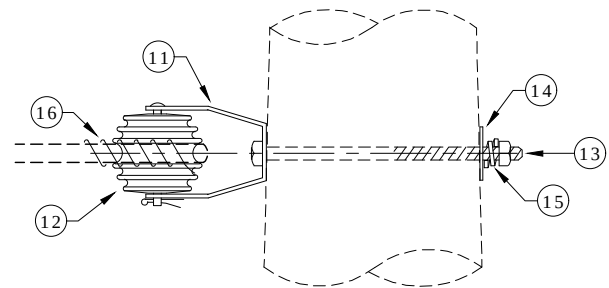
PR60V



PR63V



S3



ITEM NO.	DESCRIPTION	D23	
		PR60V	
		QTY.	S/N
1	Washer, Lock, Spring, Double Coil, Galv., 5/8"	2	2217
2	Bolt, Machine, 5/8" x 16", Galv., 12,400 lbs. Ultimate Tensile	2	157
3	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
4	Arm, Epoxy 18" 2500 lbs	1	2504
5	Insulator, Vise-Top, Polymer	1	2439
ITEM NO.	DESCRIPTION	PR63V	
		QTY.	S/N
6	Washer, Lock, Spring, Double Coil, Galv., 5/8"	4	2217
7	Bolt, Double Arm, 5/8" x 18", Galv., 12,400 lbs Ultimate Tensile	2	82
8	Arm, Epoxy 24" 2500 lbs	2	2605
9	Insulator, Vise-Top, Polymer	2	2439
10	Washer, Flat, Round, Galv., 5/8"	4	1395
ITEM NO.	DESCRIPTION	S3	
		QTY.	S/N
11	Clevis, DE Insulator 1344	1	336
12	Insulator, Spool, Clevis, Large, ANSI 53-5 Class	1	774
13	Bolt, Machine, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile *	1	156
14	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	1	1392
15	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
16	Wire, Tie, AL Annealed #4 SD	10	1421



CONSTRUCTION STANDARDS
 3Ø TWIGGY TRANSMISSION UNDERBUILD
 6° TO 15°
 795 AAC MAX WIRE

PAGE:
2 of 2

D23

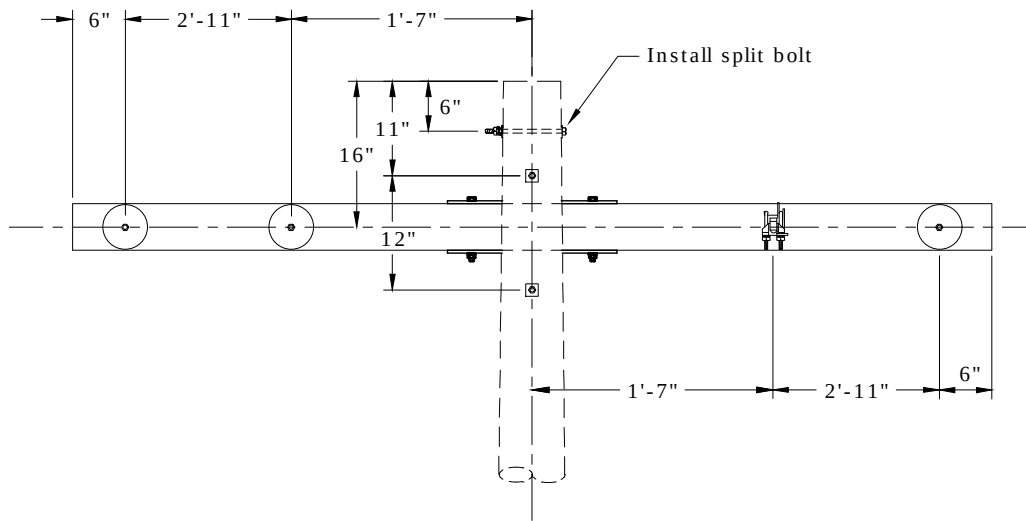
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D23

REVISIONS

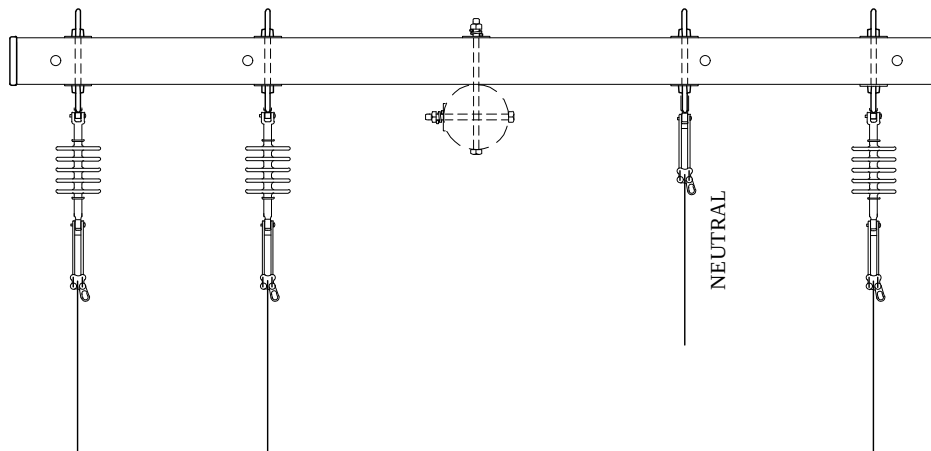
DATE	ENGR	OPS

APP:	CM/DK	SECTION
DATE:	1/4/18	340

FRONT VIEW



TOP VIEW



Notes:

1. This framing is for clearance limited situations only.
2. See Std AC - Avian Covers - Section 400 if needed. Covers only required on center phase and phase on neutral side.

Rev. 1 - Added avian note and updated material list.



CONSTRUCTION STANDARDS

10' PRE-ASSEMBLED DEADEND
HIGH NEUTRAL
795 AAC MAX WIRE

PAGE:
1 of 2

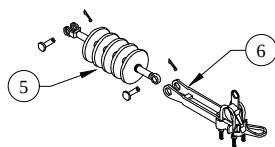
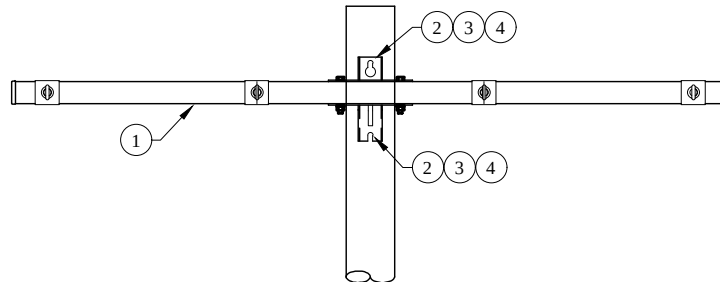
D48B

CAD FILE:
D48B

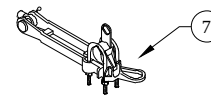
REVISIONS

△ R	DATE	ENGR	OPS
1	1/4/18	CM	DK
△			
APP:	LB/AH	SECTION	
DATE:	12/11/07	340	

CR29B



Phases



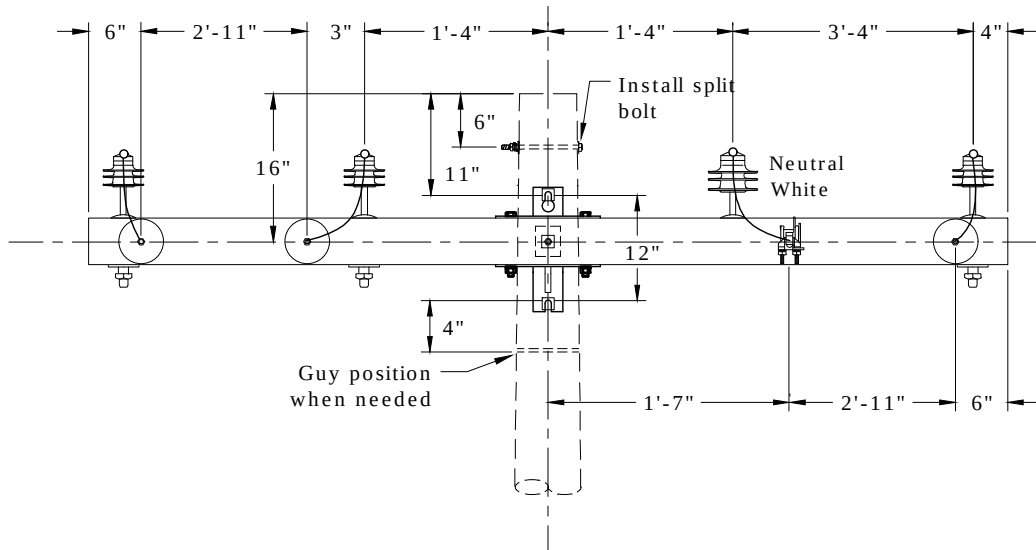
Neutral

Rev. 1 - Added avian note and updated material list.

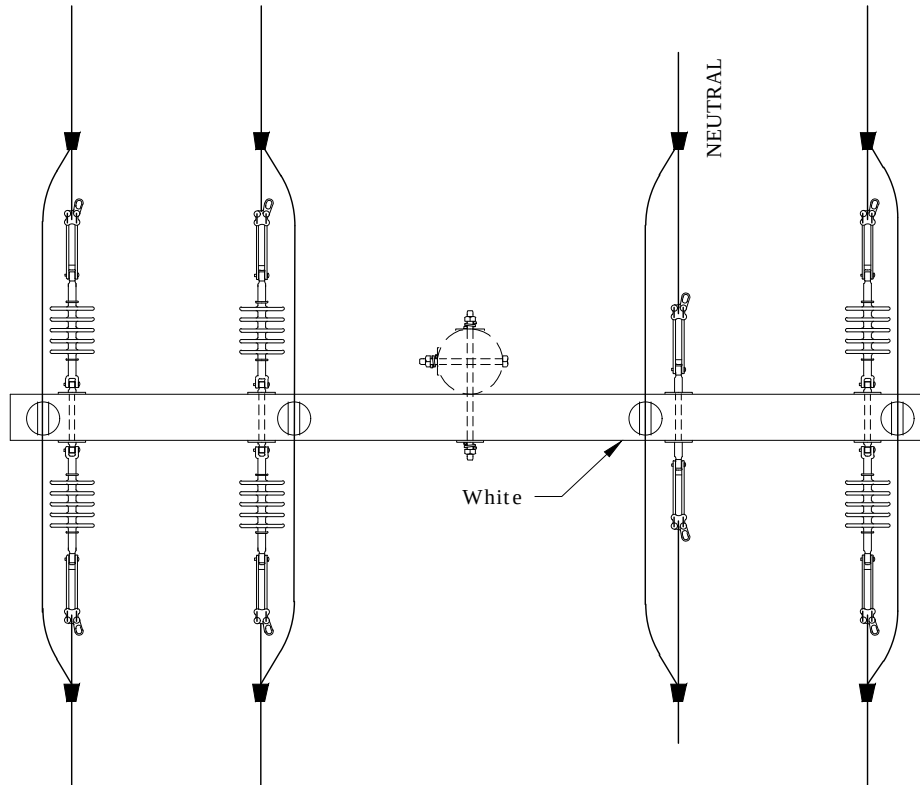
ITEM NO.	DESCRIPTION	D48B	
		CR29B	
		QTY.	S/N
1	Arm, Deadend Assembly, 10', 4-position, 336 & 795	1	2668
2	Bolt, Machine, 3/4" x 14", Galv., 18,350 lbs Ultimate Tensile ✱	2	174
3	Washer, Lock, Spring, Double Coil, Galv., 3/4" ✱	2	2218
4	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
ITEM NO.	DESCRIPTION	Additional Material	
		QTY.	S/N
5	Insulator, Suspension, 15 kV Clevis-Tongue, Polymer ✱	3	1967
6	Clamp, Strain, Distribution 795 AAC	3	303
7	Clamp, Strain, Distribution #2 - 397.5	1	302

		CONSTRUCTION STANDARDS 10' PRE-ASSEMBLED DEADEND HIGH NEUTRAL 795 AAC MAX WIRE		REVISIONS			
				DATE	ENGR	OPS	
PAGE: 2 of 2		D48B		1/4/18	CM	DK	
		CAD FILE: D48B					
				APP: LB/AH	SECTION		
				DATE: 12/11/07	340		

FRONT VIEW



TOP VIEW



Notes:

1. This framing is for clearance limited situations only.
2. See Std AC - Avian Covers - Section 400 if needed. Covers and tree wire jumpers required on center phase and phase on neutral side.

Rev. 1 - Added avian note, changed from porcelain to polymer insulators, and updated material list.



CONSTRUCTION STANDARDS

10' PRE-ASSEMBLED DOUBLE DEADEND
HIGH NEUTRAL
795 AAC MAX WIRE

PAGE:
1 of 3

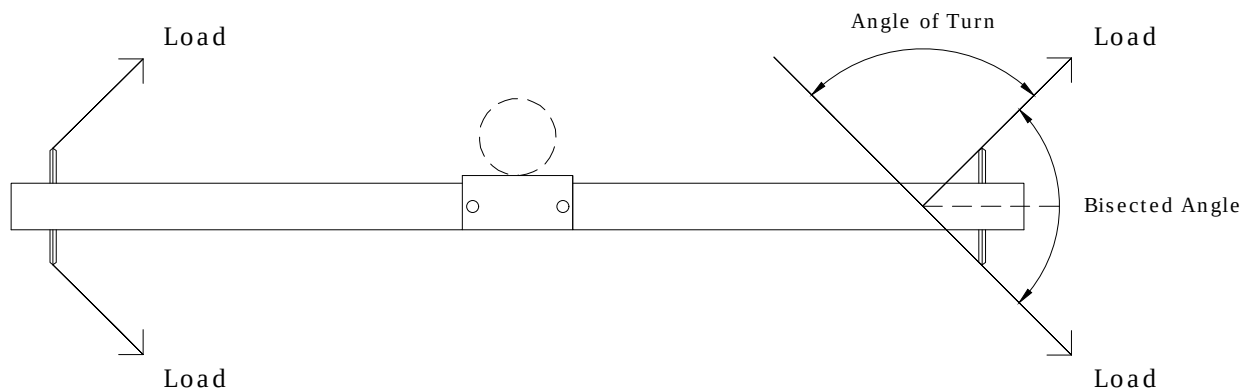
D49B

CAD FILE:
D49B

REVISIONS

△ R	DATE	ENGR	OPS
1	1/4/18	CM	DK
△			
APP:	LB/AH	SECTION	
DATE:	12/11/07	340	

DEADEND FOR ANGLED SPANS



Notes:

1. Maximum angle with 795 is 30°, limited by the 3/4" machine bolt.
2. Angle must be bisected so that each eye-nut has half the angle.



CONSTRUCTION STANDARDS

10' PRE-ASSEMBLED DOUBLE DEADEND
HIGH NEUTRAL
795 AAC MAX WIRE

PAGE:
2 of 3

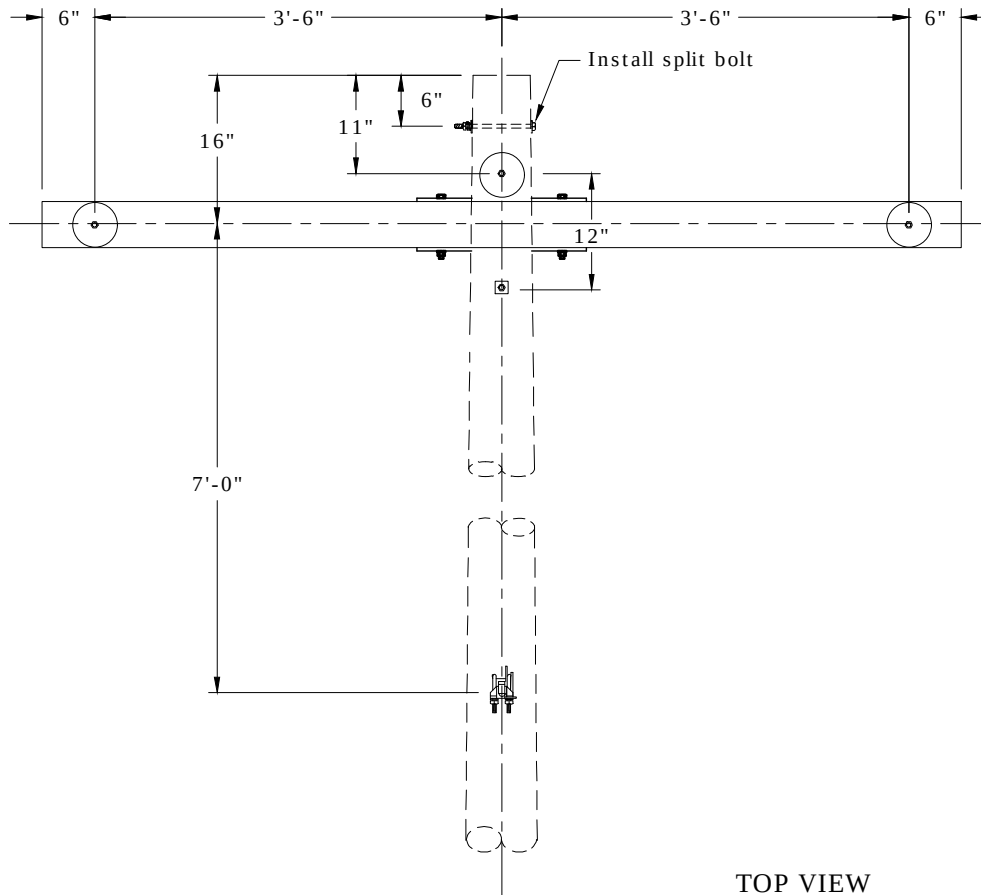
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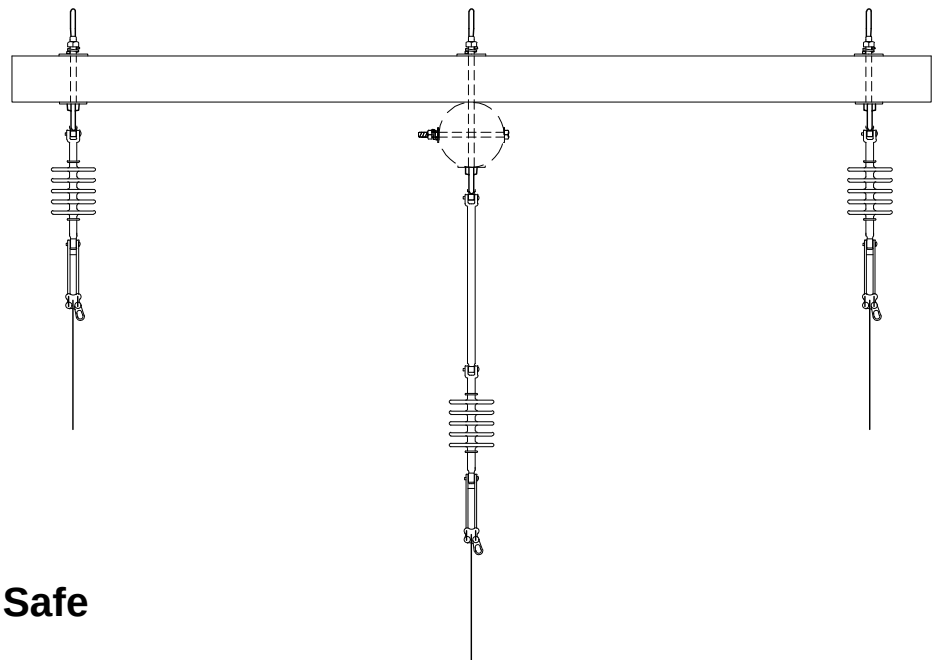
REVISIONS

△ R	DATE	ENGR	OPS
1	1/4/18	CM	DK
△			
APP:	LB/AH	SECTION	
DATE:	12/11/07	340	

FRONT VIEW



TOP VIEW



Avian Safe

Rev. 4 - Added avian note and updated material list.



CONSTRUCTION STANDARDS

8' PRE-ASSEMBLED DEADEND
795 AAC MAX WIRE

PAGE:
1 of 2

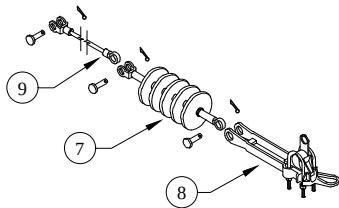
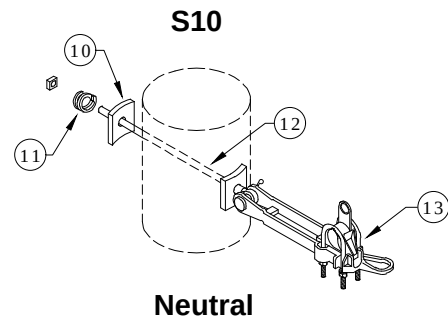
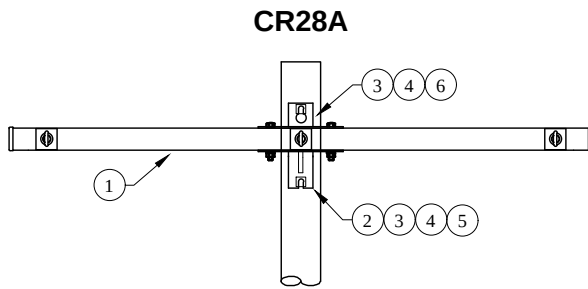
D50A

CAD FILE:
D50A

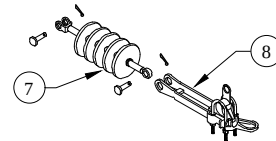
REVISIONS

△	DATE	ENGR	OPS
1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

△	APP:	ELM	SECTION
	DATE:	1/31/80	340



Middle Phase



Outside Phases

Rev. 4 - Added avian note and updated material list.

ITEM NO.	DESCRIPTION	D50A	
		CR28A	
		QTY.	S/N
1	Arm, Deadend Assembly, 3-position, 336 & 795	1	2509
2	Bolt, Machine, 3/4" x 14", Galv., 18,350 lbs Ultimate Tensile *	1	174
3	Washer, Lock, Spring, Double Coil, Galv., 3/4" *	2	2218
4	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
5	Nut, Eye Oval 3/4", Galv.	1	914
6	Bolt, Machine, 3/4" x 16", Galv., 18,350 lbs Ultimate Tensile *	1	175
ITEM NO.	DESCRIPTION	Additional Material	
		QTY.	S/N
7	Insulator, Suspension, 15 KV Clevis-Tongue, Polymer *	3	1967
8	Clamp, Strain, Distribution, 795 AAC	3	303
9	Insulator, Guy Strain, Fiberglass, 20" *	1	2909 *
ITEM NO.	DESCRIPTION	S10	
		QTY.	S/N
10	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
11	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
12	Bolt, Eye, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile *	1	108
13	Clamp, Strain, Distribution, #2 - 397.5	1	302



CONSTRUCTION STANDARDS

8' PRE-ASSEMBLED DEADEND
795 AAC MAX WIRE

PAGE:
2 of 2

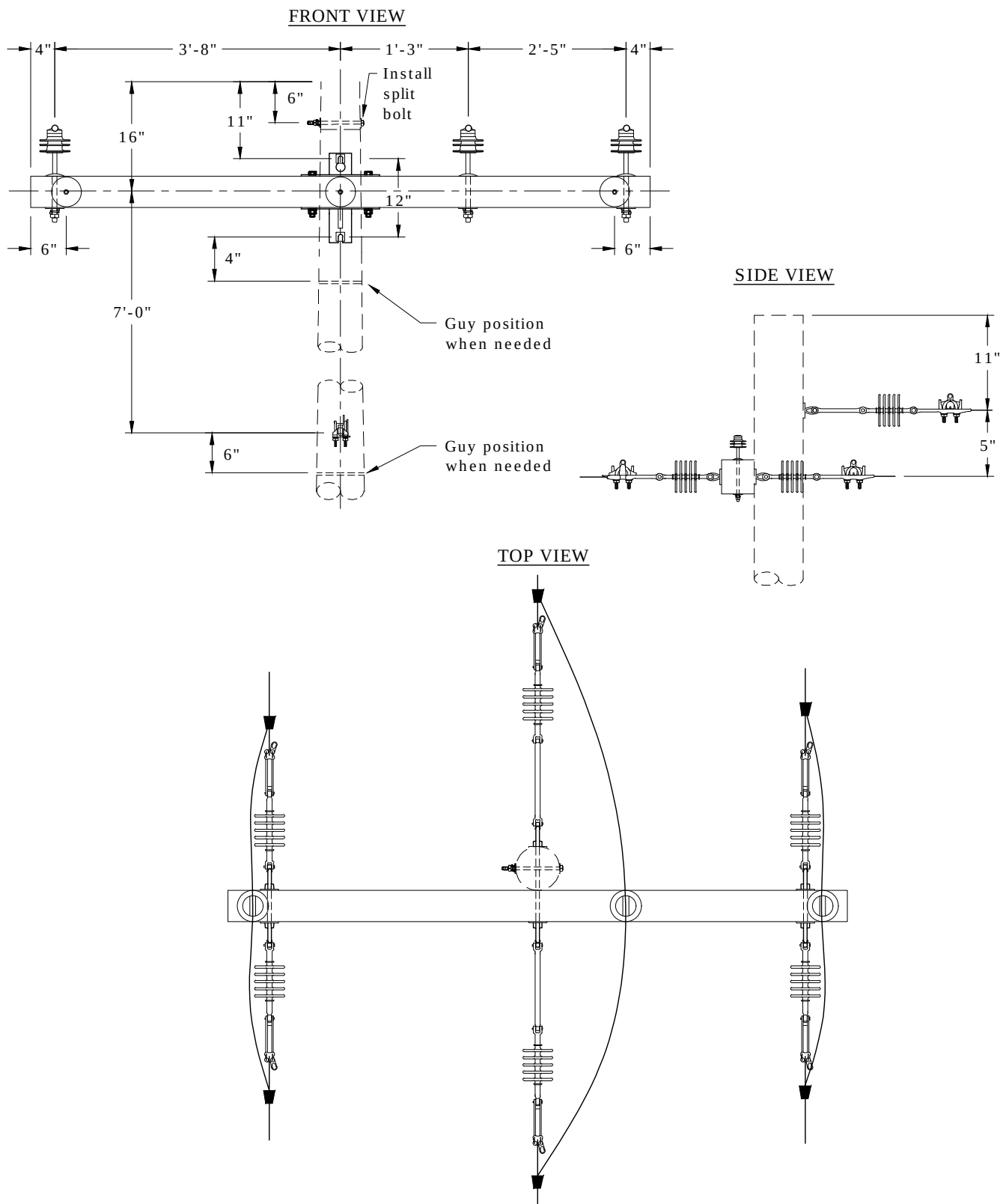
D50A

CAD FILE:
D50A

REVISIONS

△	DATE	ENGR	OPS
1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

△	APP:	ELM	SECTION
	DATE:	1/31/80	340



Note: See Std AC - Avian Covers - Section 400 if needed. Covers and tree wire jumper only required on center phase.

Rev. 4 - Added avian note, changed from porcelain to polymer insulators, and updated material list.



CONSTRUCTION STANDARDS

8' PRE-ASSEMBLED DOUBLE DEADEND 795 AAC MAX WIRE

PAGE:
1 of 4

D51A

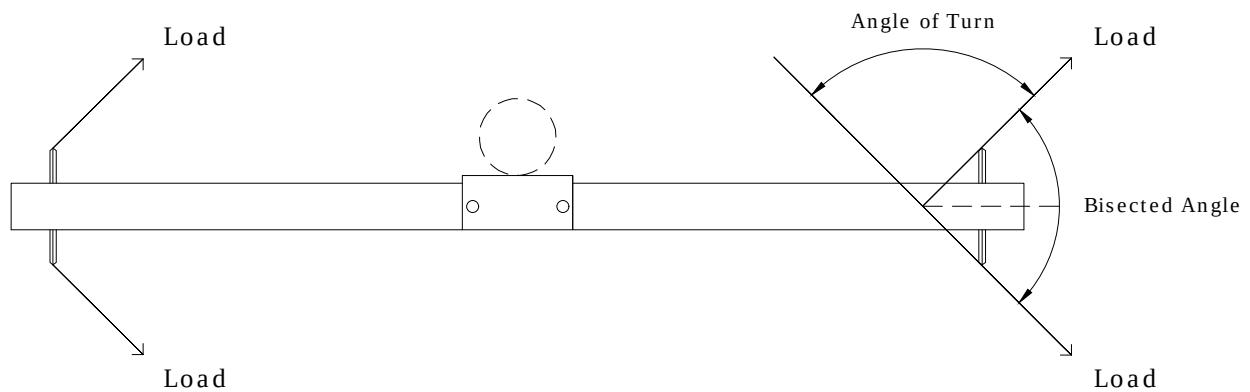
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D51A

REVISIONS

	DATE	ENGR	OPS
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2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

	APP: ELM	SECTION
DATE: 1/31/80		340

DEADEND FOR ANGLED SPANS



Notes:

1. Maximum angle with 795 is 30°, limited by the 3/4" machine bolt.
2. Angle must be bisected so that each eye-nut has half the angle.
3. Phase separation may limit the angle. Use shackle clevises (S/N 1625) for angles.

Rev. 4 - Added avian note, changed from porcelain to polymer insulators, and updated material list.



CONSTRUCTION STANDARDS

8' PRE-ASSEMBLED DOUBLE DEADEND
795 AAC MAX WIRE

PAGE:
2 of 4

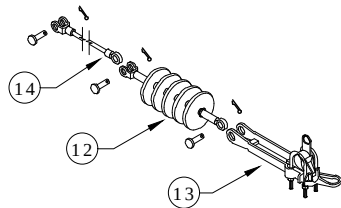
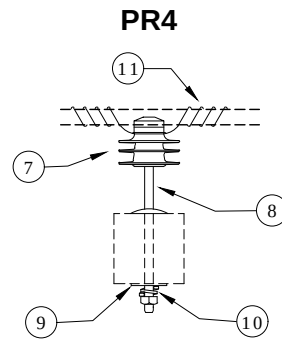
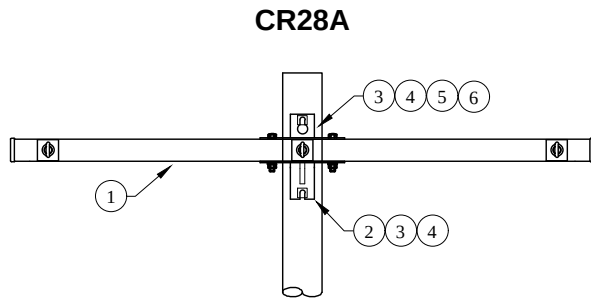
D51A

CAD FILE:
D51A

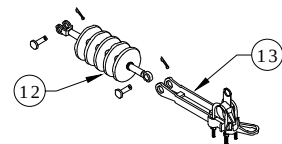
REVISIONS

△ R	DATE	ENGR	OPS
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2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

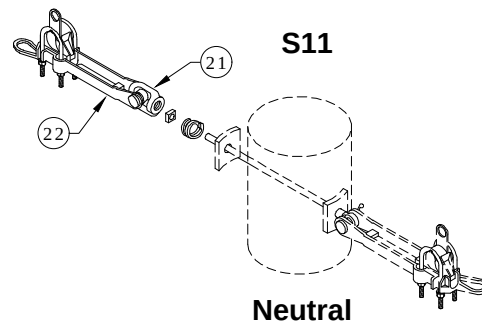
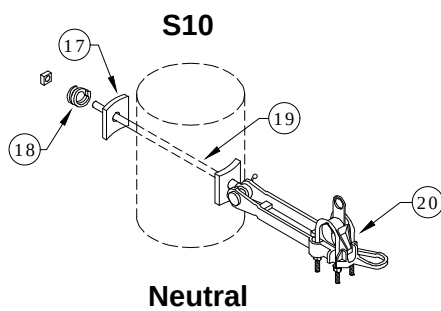
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DATE: 1/31/80		340



Middle Phase



Outside Phases



Rev. 4 - Added avian note, changed from porcelain to polymer insulators, and updated material list.

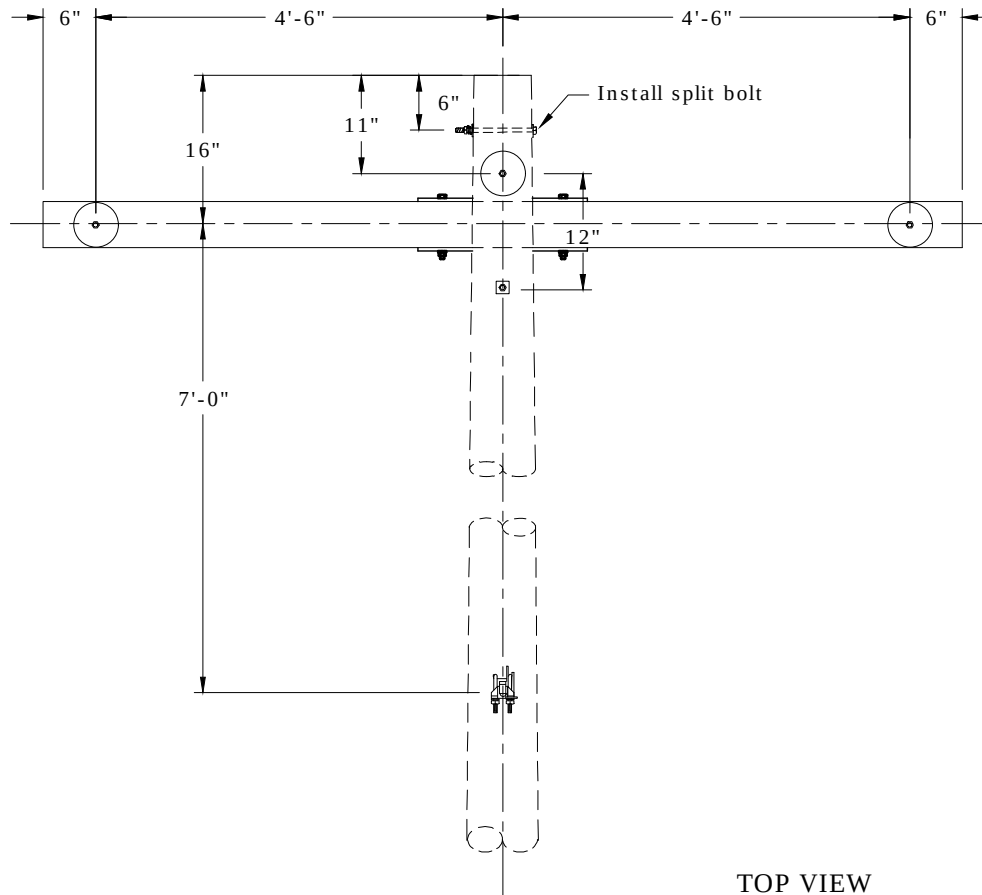
Clark Public Utilities	CONSTRUCTION STANDARDS 8' PRE-ASSEMBLED DOUBLE DEADEND 795 AAC MAX WIRE			REVISIONS			
				R	DATE	ENGR	OPS
				1	2/11/81	GGW	
				2	3/02	REDRAWN	IN CAD
				3	12/11/07	LB	AH
	4	1/4/18	CM	DK			
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	APP:	ELM	SECTION				
DATE:	1/31/80	340					

Rev. 4 - Added avian note, changed from porcelain to polymer insulators, and updated material list.

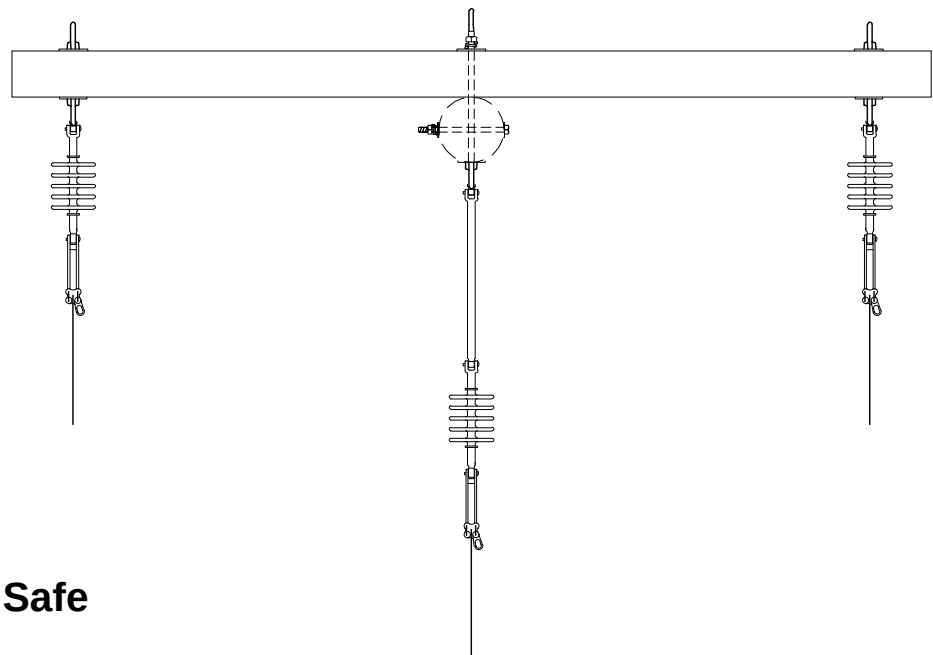
ITEM NO.	DESCRIPTION	D51A	
		QTY.	S/N
1	Arm, Deadend Assembly, 3-position, 336 & 795	1	2509
2	Bolt, Machine, 3/4" x 14", Galv., 18,350 lbs Ultimate Tensile ✱	1	174
3	Washer, Lock, Spring, Double Coil, Galv., 3/4" ✱	2	2218
4	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
5	Nut, Eye Oval 3/4", Galv.	1	914
6	Bolt, Machine, 3/4" x 16", Galv., 18,350 lbs Ultimate Tensile ✱	1	175
ITEM NO.	DESCRIPTION	PR4 (3)	
		QTY.	S/N
7	Insulator, Pin, C Neck, Polymer ✱	3	1968
8	Pin, Crossarm	3	961
9	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	3	1412
10	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	3	2217
11	Wire, Tie, AL Annealed #4 SD	30	1421
ITEM NO.	DESCRIPTION	Additional Material	
		QTY.	S/N
12	Insulator, Suspension, 15 kV Clevis-Tongue, Polymer ✱	6	1967
13	Clamp, Strain, Distribution, 795	6	303
14	Insulator, Guy Strain, Fiberglass, 20" ✱	2	2909 ✱
15	Connector, Tap, Wedge, 795 to 795 ✱	6	2477
16	Connector, Tap, Wedge, 397 to 397 ✱	2	2501
ITEM NO.	DESCRIPTION	S10	
		QTY.	S/N
17	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
18	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	1	2217
19	Bolt, Eye, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	1	108
20	Clamp, Strain, Distribution, #2 - 397.5	1	302
	DESCRIPTION	S11	
		QTY.	S/N
21	Nut, Eye Oval 5/8", Galv.	1	913
22	Clamp, Strain, Distribution, #2 - 397.5	1	302

	CONSTRUCTION STANDARDS 8' PRE-ASSEMBLED DOUBLE DEADEND 795 AAC MAX WIRE	REVISIONS				
			DATE	ENGR	OPS	
		1	2/11/81	GGW		
		2	3/02	REDRAWN	IN CAD	
		3	12/11/07	LB	AH	
		4	1/4/18	CM	DK	
						
PAGE: 4 of 4		D51A		CAD FILE: D51A	APP: ELM DATE: 1/31/80	
				SECTION 340		

FRONT VIEW



TOP VIEW



Avian Safe

Rev. 4 - Added avian note and updated material list.



CONSTRUCTION STANDARDS 10' PRE-ASSEMBLED DEADEND 795 AAC MAX WIRE

PAGE:
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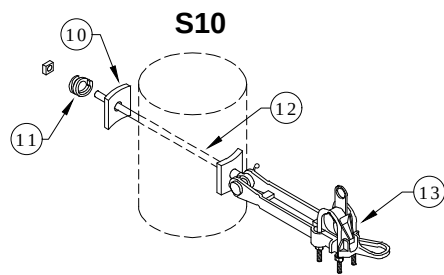
D52B

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D52B

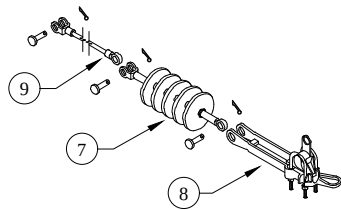
REVISIONS

	DATE	ENGR	OPS
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2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

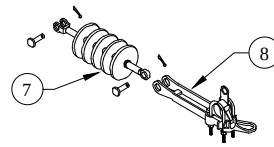
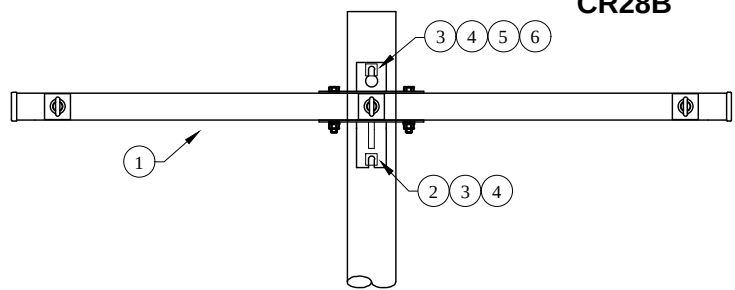
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	DATE:	1/31/80	340



Neutral



Center Phase



Road & Field Phases

Rev. 4 - Added avian note and updated material list.

ITEM NO.	DESCRIPTION	D52B	
		CR28B	
ITEM NO.	DESCRIPTION	QTY.	S/N
		QTY.	S/N
1	Arm, Deadend Assembly, 3-position, 336 & 795	1	2681
2	Bolt, Machine, 3/4" x 14", Galv., 18,350 lbs Ultimate Tensile *	1	174
3	Washer, Lock, Spring, Double Coil, Galv., 3/4" *	2	2218
4	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
5	Nut, Eye Oval 3/4", Galv.	1	914
6	Bolt, Machine, 3/4" x 16", Galv., 18,350 lbs Ultimate Tensile *	1	175
		Additional Material	
7	Insulator, Suspension, 15 kV Clevis-Tongue, Polymer *	3	1967
8	Clamp, Strain, Distribution, 795	3	303
9	Insulator, Guy Strain, Fiberglass, 20" *	1	2909 *
		S10	
10	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
11	Washer, Lock, Spring, Double Coil, Galv., 5/8" *	1	2217
12	Bolt, Eye, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile *	1	108
13	Clamp, Strain, Distribution, #2 - 397.5	1	302



CONSTRUCTION STANDARDS

10' PRE-ASSEMBLED DEADEND
795 AAC MAX WIRE

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2 of 2

D52B

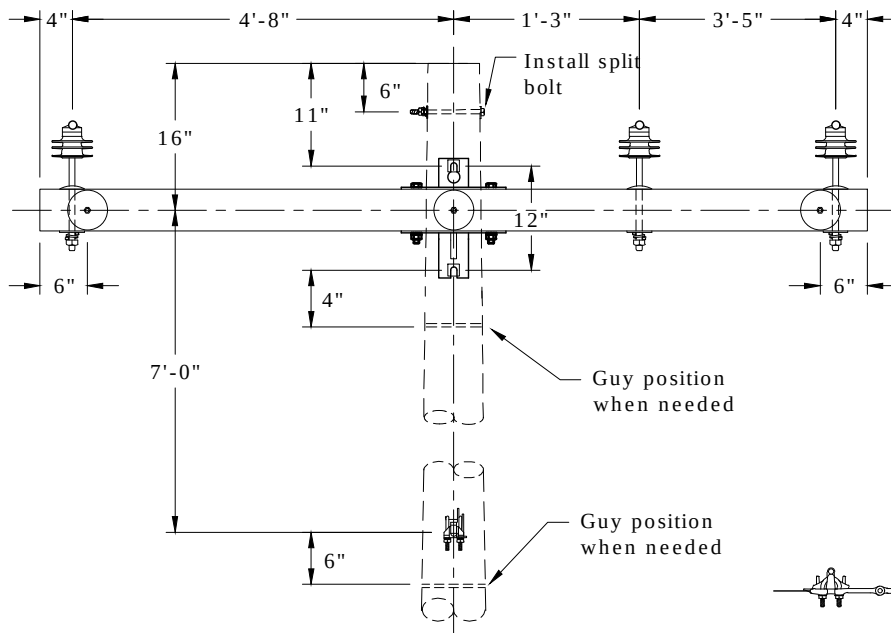
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D52B

REVISIONS

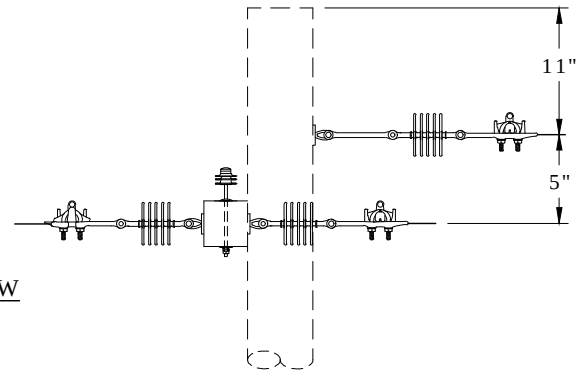
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1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

APP:	ELM	SECTION
DATE:	1/31/80	340

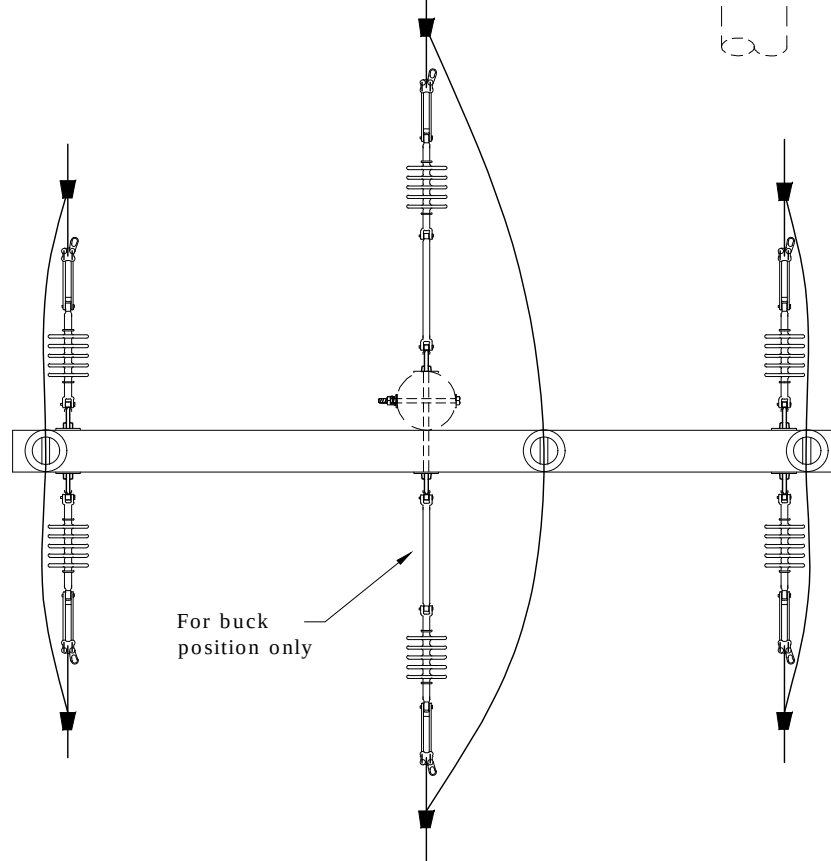
FRONT VIEW



SIDE VIEW



TOP VIEW



Note: See Std AC - Avian Covers - Section 400 if needed. Covers and tree wire jumper only required on center phase.

Rev. 4 - Added avian note and updated material list.



CONSTRUCTION STANDARDS

10' PRE-ASSEMBLED DOUBLE DEADEND
795 AAC MAX WIRE

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D53B

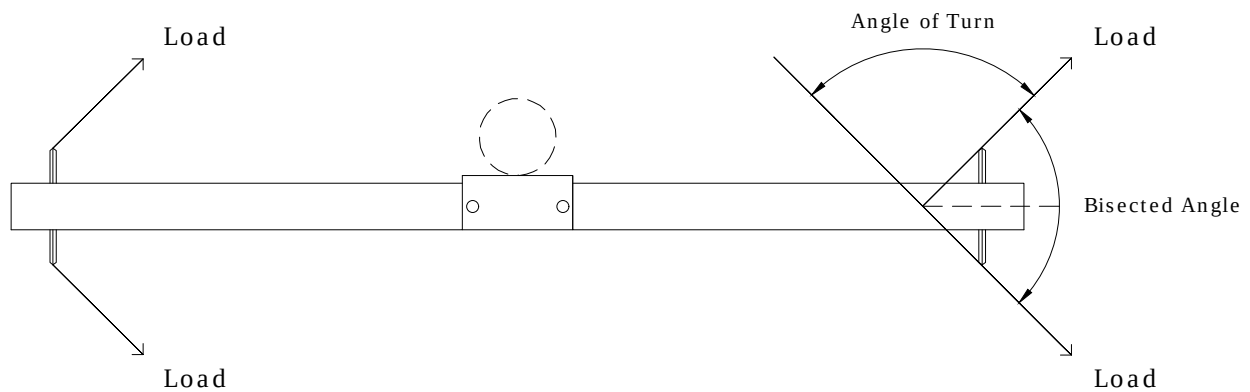
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REVISIONS

△	DATE	ENGR	OPS
1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

△	APP:	ELM	SECTION
	DATE:	1/31/80	340

DEADEND FOR ANGLED SPANS



Notes:

1. Maximum angle with 795 is 30°, limited by the 3/4" machine bolt.
2. Angle must be bisected so that each eye-nut has half the angle.
3. Phase separation may limit the angle. Use shackle clevises (S/N 1625) for angles.

Rev. 4 - Added avian note and updated material list.



CONSTRUCTION STANDARDS

10' PRE-ASSEMBLED DOUBLE DEADEND
795 AAC MAX WIRE

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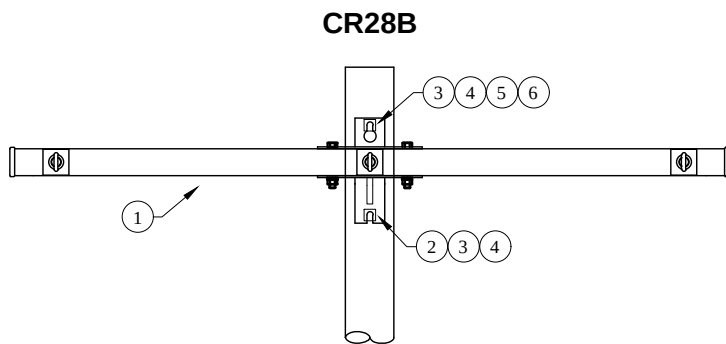
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CAD FILE:
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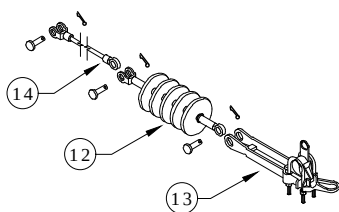
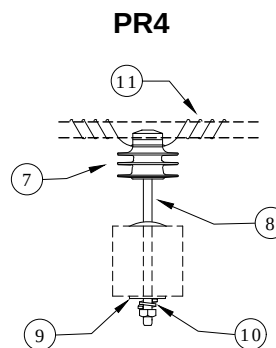
REVISIONS

△ R	DATE	ENGR	OPS
1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

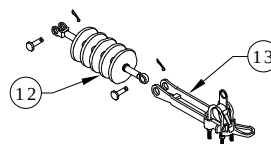
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DATE: 1/31/80		340



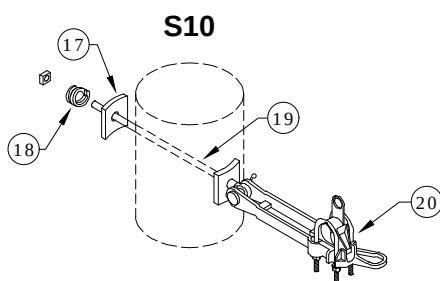
Front View



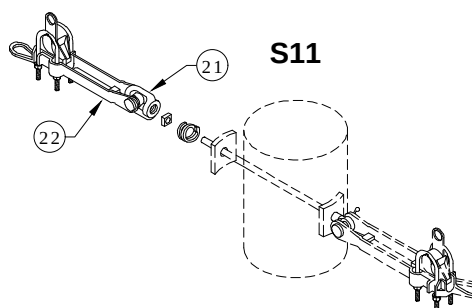
Center Phase



Road & Field Phases



Neutral



Neutral

Rev. 4 - Added avian note and updated material list.



CONSTRUCTION STANDARDS

10' PRE-ASSEMBLED DOUBLE DEADEND
795 AAC MAX WIRE

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CAD FILE:
D53B

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△ R	DATE	ENGR	OPS
1	2/11/81	GGW	
2	3/02	REDRAWN	IN CAD
3	12/11/07	LB	AH
4	1/4/18	CM	DK

APP: ELM	SECTION
DATE: 1/31/80	340

Rev. 4 - Added avian note and updated material list.

ITEM NO.	DESCRIPTION	D53B	
		QTY.	S/N
1	Arm, Deadend Assembly, 3-position, 336 & 795	1	2681
2	Bolt, Machine, 3/4" x 14", Galv., 18,350 lbs Ultimate Tensile ✱	1	174
3	Washer, Lock, Spring, Double Coil, Galv., 3/4"	2	2218
4	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
5	Nut, Eye Oval 3/4", Galv.	1	914
6	Bolt, Machine, 3/4" x 16", Galv., 18,350 lbs Ultimate Tensile ✱	1	175
ITEM NO.	DESCRIPTION	PR4 (3)	
		QTY.	S/N
7	Insulator, Pin, C Neck, Polymer	1	1968
8	Pin, Crossarm	1	961
9	Washer, Square, Flat, 5/8", 2 1/4" x 2 1/4"	1	1412
10	Washer, Lock, Spring, Double Coil, Galv., 5/8"	1	2217
11	Wire, Tie, AL Annealed #4 SD	10	1421
ITEM NO.	DESCRIPTION	Additional Material	
		QTY.	S/N
12	Insulator, Suspension, 15 kV Clevis-Tongue, Polymer Type ✱	6	1967
13	Clamp, Strain, Distribution, 795	6	303
14	Insulator, Guy Strain, Fiberglass, 20" ✱	2	2909 ✱
15	Connector, Tap, Wedge, 795 to 795 ✱	6	2477
16	Connector, Tap, Wedge, 397 to 397 ✱	2	2501
ITEM NO.	DESCRIPTION	S10	
		QTY.	S/N
17	Washer, Curved, Square, Cast, 3" x 3" x 3/8" Thick x 13/16" Hole	2	1392
18	Washer, Lock, Spring, Double Coil, Galv., 5/8" ✱	1	2217
19	Bolt, Eye, 5/8" x 14", Galv., 12,400 lbs Ultimate Tensile ✱	1	108
20	Clamp, Strain, Distribution, #2 - 397.5	1	302
ITEM NO.	DESCRIPTION	S11	
		QTY.	S/N
21	Nut, Eye Oval 5/8", Galv.	1	913
22	Clamp, Strain, Distribution, #2 - 397.5	1	302

	CONSTRUCTION STANDARDS 10' PRE-ASSEMBLED DOUBLE DEADEND 795 AAC MAX WIRE	REVISIONS			
			DATE	ENGR	OPS
			1 2/11/81	GGW	
			2 3/02	REDRAWN	IN CAD
			3 12/11/07	LB	AH
			4 1/4/18	CM	DK
PAGE: 4 of 4	D53B	CAD FILE: D53B	APP: ELM DATE: 1/31/80	SECTION 340	