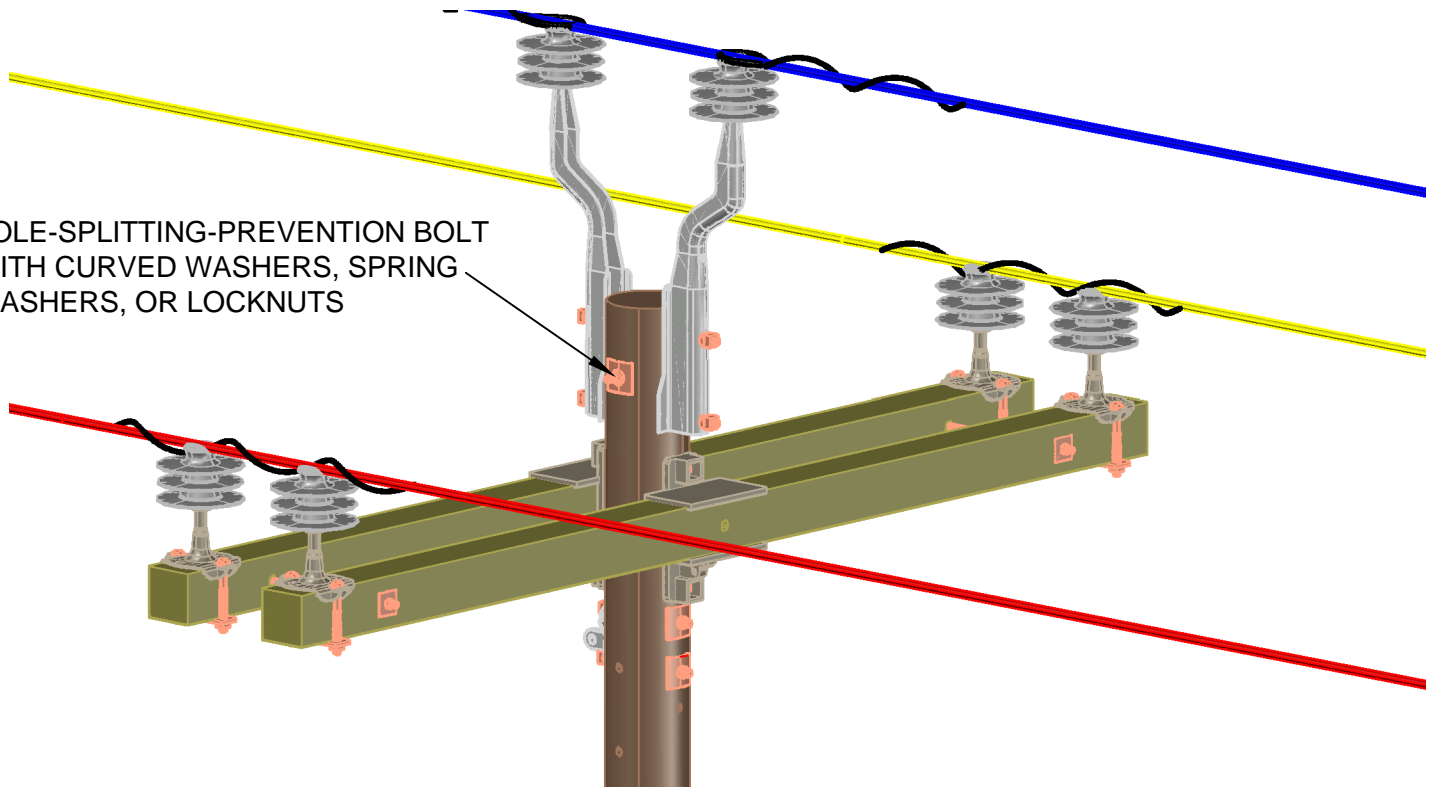
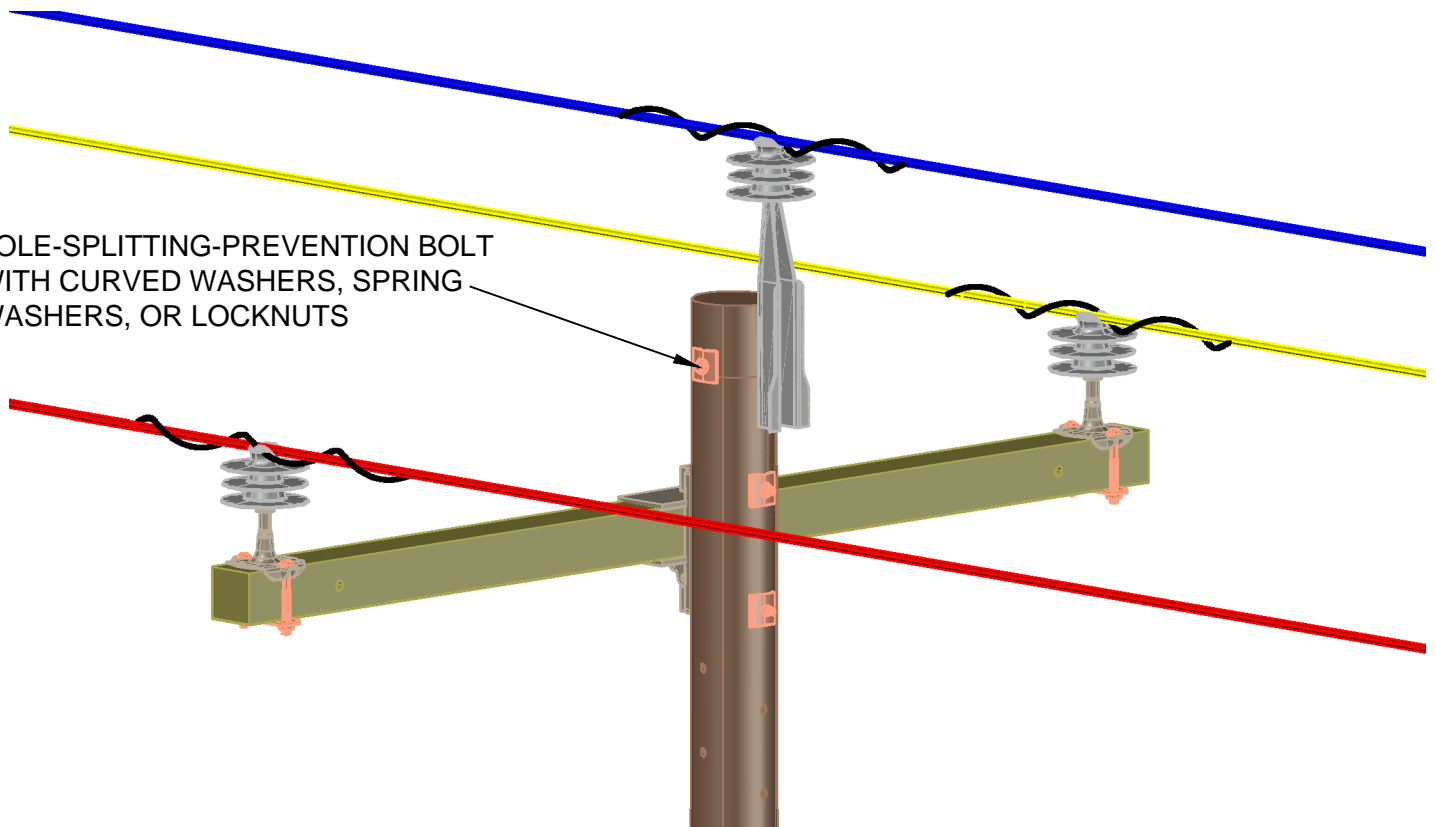


POLE-SPLITTING-PREVENTION BOLT WITH CURVED WASHERS, SPRING WASHERS, OR LOCKNUTS



POLE-SPLITTING-PREVENTION BOLT WITH CURVED WASHERS, SPRING WASHERS, OR LOCKNUTS



IN ACCORDANCE WITH THE STANDARDS COMMITTEE DECISION MADE AT THE AUGUST 8, 2019, QUARTERLY MEETING, A POLE-SPLITTING-PREVENTION BOLT SHALL BE INSTALLED 6" FROM THE TOP OF THE POLE ON ALL CONSTRUCTION WOOD POLE ASSEMBLIES. BOLT LENGTHS WILL BE DEPENDENT ON POLE CLASS.

REV | B | DATE | 12/13/2022 | REVISION | OR LOCKNUTS WAS AND LOCKNUTS, REMOVED QUOTES | BY | RWC | CHK | SSS | APR | MMG



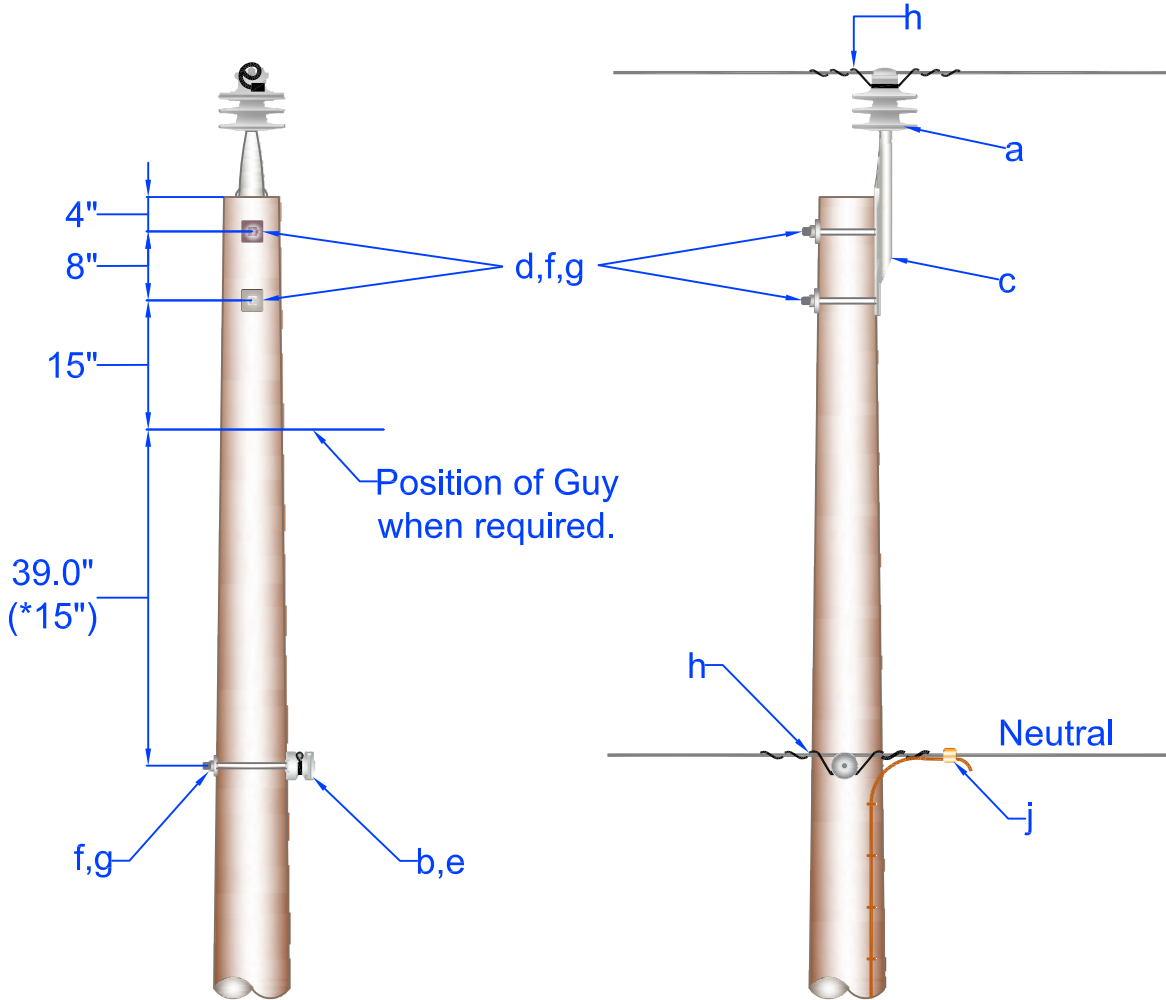
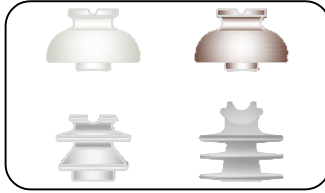
CONSTRUCTION  
ASSEMBLY UNIT

SPLIT-PREVENTION BOLTS FOR WOOD POLES

|        |           |            |                     |
|--------|-----------|------------|---------------------|
| drawn: | approved: | date:      | SPLIT<br>PREVENTION |
| RWC    | MMG       | 12/13/2022 |                     |

\*Use this dimension when installing in existing line with the old 4' neutral spacing to prevent down strain on the adjacent poles neutral attachment.

Possible varieties of Primary Insulators (Stock #2000541)



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description              | Item | Material Number | Item Quantity | Item Description         |
|------|-----------------|---------------|-------------------------------|------|-----------------|---------------|--------------------------|
| a    | 2000541         | 1             | Insulator Pin Type CI 55-7    | f    | *3000153        | 3 (2)         | Locknut 5/8" M F         |
| b    | 2000544         | 1 (0)         | Insulator Spool CI 53-2       | g    | *3000240        | 3 (2)         | Washer Sq F 2 1/4        |
| c    | 2000621         | 1             | Pin Pole Top 20" - 1 3/8" Thd | h    | *               | As Req'd.     | Primary and Neutral ties |
| d    | *               | 2             | Bolt Machine 5/8"             | j    | *               | As Req'd.     | Connectors               |
| e    | *               | 1 (0)         | Bolt Upset Sgl 5/8"           |      |                 |               |                          |

Specify A1N for unit A1 less neutral material Quantities shown in parenthesis are for A1N.

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.



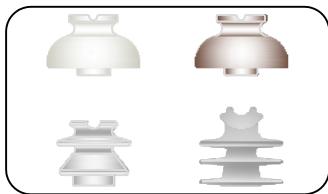
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

**1Φ Tangent to Small Angle, Single  
Primary Support, NESC Grade C  
Construction Only**

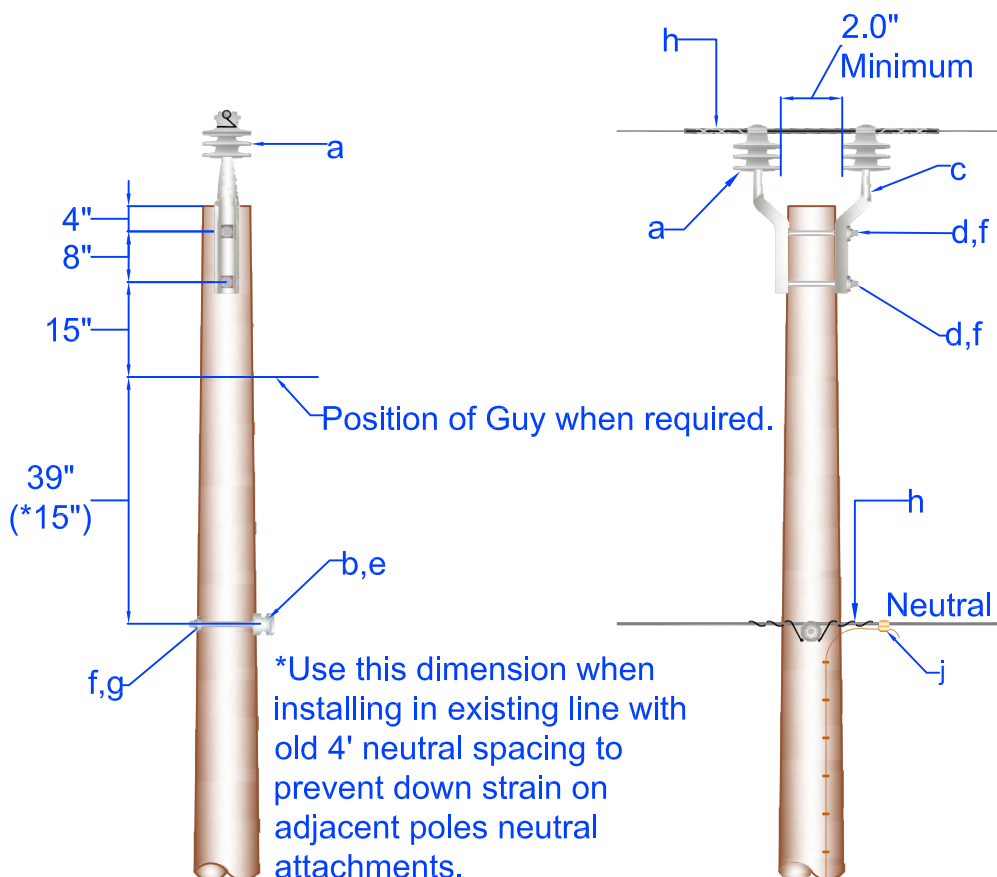
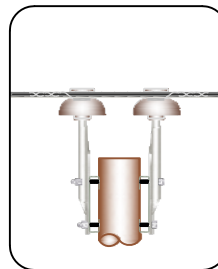
|                      |                        |                            |
|----------------------|------------------------|----------------------------|
| drawn:<br><b>JBS</b> | approved<br><b>MJB</b> | date:<br>December 12, 2011 |
|----------------------|------------------------|----------------------------|

**A1/A1N**

Possible varieties  
of Primary Insulators  
(Stock #200541)



Alternate  
Pin Types



\*Use this dimension when installing in existing line with old 4' neutral spacing to prevent down strain on adjacent poles neutral attachments.

Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description               | Item | Material Number | Item Quantity | Item Description         |
|------|-----------------|---------------|--------------------------------|------|-----------------|---------------|--------------------------|
| a    | 2000541         | 2             | Insulator Pin Type CI 55-7     | f    | *3000153        | 3 (2)         | Locknut 5/8" M F         |
| b    | 2000544         | 1 (0)         | Insulator Spool CI 53-2        | g    | *3000240        | 1 (0)         | Washer Sq F 2 1/4        |
| c    | 2000624         | 2             | Pin Pole Top Offset 20"-1 3/8" | h    | *               | As Req'd.     | Primary and Neutral ties |
| d    | *               | 2             | Bolt Machine 5/8"              | j    | *               | As Req'd.     | Connectors               |
| e    | *               | 1 (0)         | Bolt Upset Sgl 5/8"            |      |                 |               |                          |

Specify A1-1N for unit A1-1 less neutral material. Quantities shown in parenthesis are for A1-1N

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.



PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

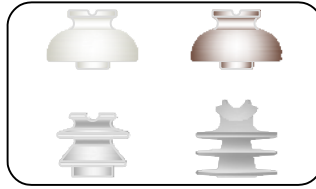
**1Φ Tangent to Small angle,  
Double Primary Support  
Any Grade of Construction**

|        |          |                   |
|--------|----------|-------------------|
| drawn: | approved | date:             |
| JBS    | MJB      | December 12, 2011 |

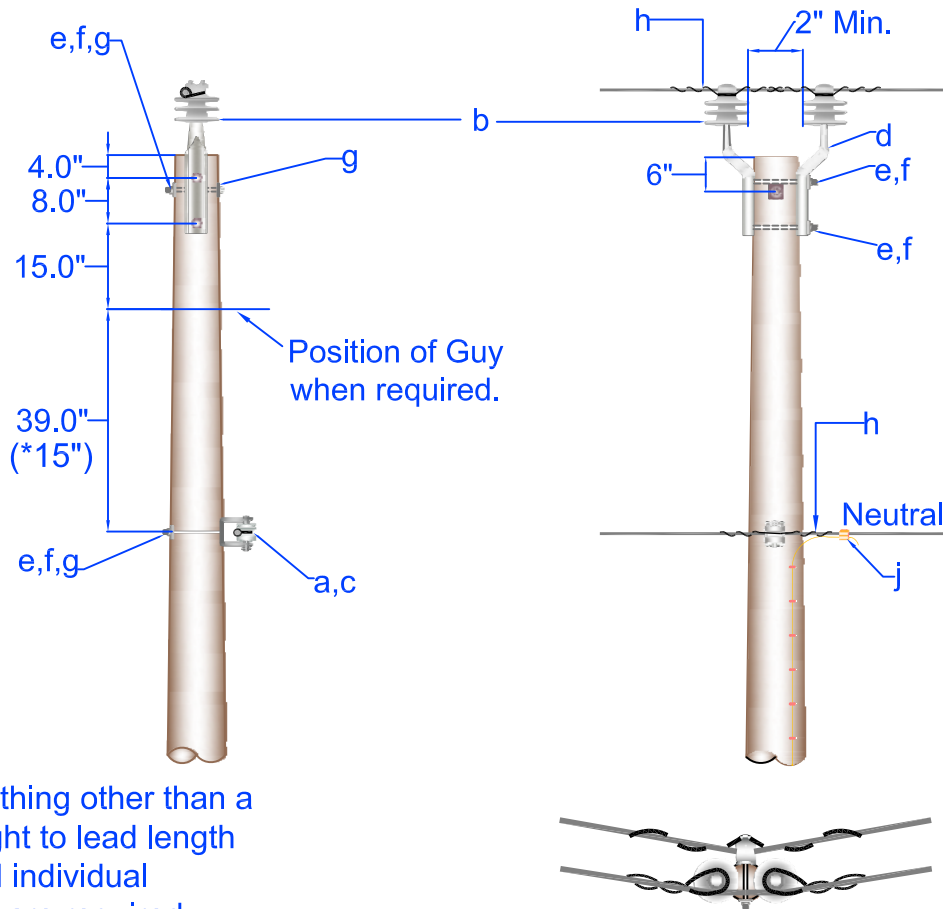
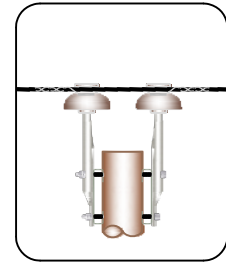
**A1-1/A1-1N**

\*Use this dimension when installing in existing line with old 4' neutral spacing to prevent down strain on adjacent poles neutral attachments.

Possible varieties of Primary Insulators (Stock #2000541)



Alternate Pin Types



Note: If anything other than a 1:1 guy height to lead length ratio is used individual calculations are required.

Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description               | Item | Material Number | Item Quantity | Item Description         |
|------|-----------------|---------------|--------------------------------|------|-----------------|---------------|--------------------------|
| a    | 2000148         | 1 (0)         | Bracket DA Clevis              | f    | *3000153        | 4 (3)         | Locknut 5/8" M F         |
| b    | 2000541         | 2             | Insulator Pin Type CI 55-7     | g    | *3000240        | 3 (2)         | Washer Sq F 2 1/4        |
| c    | 2000544         | 1 (0)         | Insulator Spool CI 53-2        | h    | *               | As Req'd.     | Primary and Neutral ties |
| d    | 2000624         | 2             | Pin Pole Top Offset 20"-1 3/8" | j    | *               | As Req'd.     | Connectors               |
| e    | *               | 4 (3)         | Bolt Machine 5/8"              |      |                 |               |                          |

Specify A2N for unit A2 less neutral material. Quantities shown in parenthesis are for A2N.

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.

For guying use an E1-2 attached to an F1-3 for everything except #336 AAC NESC Grade B Construction use an E1-3 attached to an F1-4.



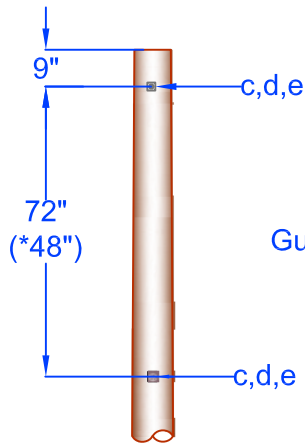
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

1Φ Small angle, Double Primary Support,  
Any Grade of Construction

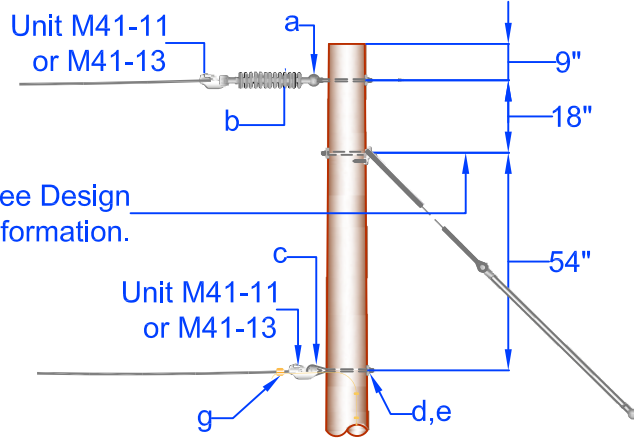
|               |                 |                            |
|---------------|-----------------|----------------------------|
| drawn:<br>JBS | approved<br>MJB | date:<br>December 12, 2011 |
|---------------|-----------------|----------------------------|

**A2/A2N**

REAR VIEW



SIDE VIEW

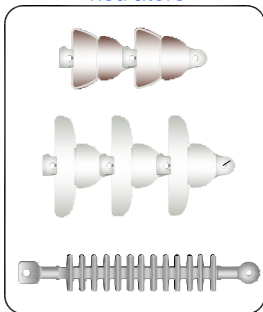


Position of Guy See Design Guidelines for further information.

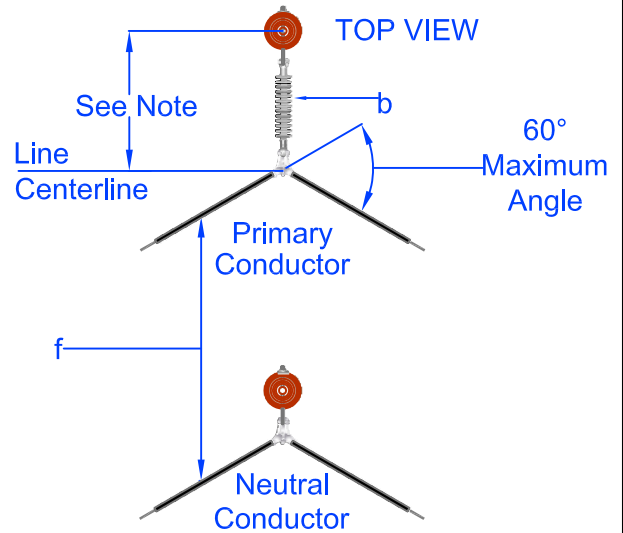
\*Use this dimension when installing in existing line with old 4' neutral spacing to prevent down strain on adjacent poles neutral attachments.

Note: If anything other than a 1:1 guy height to lead length ratio is used individual calculations are required.

Possible varieties of Suspension Insulators



Note: When staking a pole with the assembly unit A3, off-set pole stake two feet in the direction of the anchor.



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description            | Item | Material Number | Item Quantity | Item Description  |
|------|-----------------|---------------|-----------------------------|------|-----------------|---------------|-------------------|
| a    | 2000262         | 2(1)          | Clevis Anchor Shackle Sml   | e    | *3000240        | 2 (1)         | Washer Sq F 2 1/4 |
| b    | 2000551         | 1             | Insulator Susp Poly 35KV CI | f    | *               | As Req'd.     | Armor Rods        |
| c    | *               | 2 (1)         | Bolt Eye 5/8"               | g    | *               | As Req'd.     | Connectors        |
| d    | *3000153        | 2 (1)         | Locknut 5/8" M F            |      |                 |               |                   |

Specify A3N for unit A3 less neutral material. Quantities shown in parenthesis are for A3N.

Install Units M41-11 or M41-13 as needed. \* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.

For guying use an E1-2 attached to an F1-3 for everything except #336 AAC NESC Grade B Construction use an E1-3 attached to an F1-4.

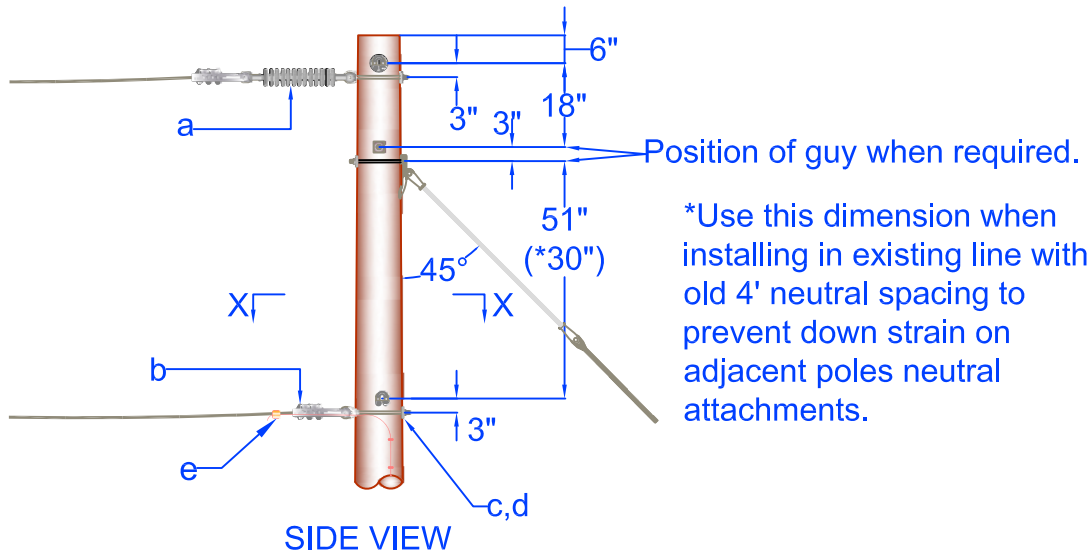


PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

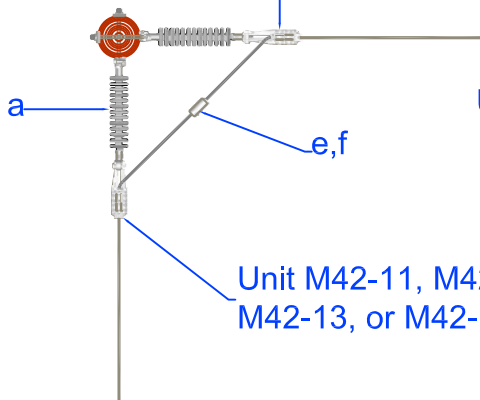
1Φ Medium angle, Any Grade of  
Construction. Maximum of 60° angle

|        |          |                   |
|--------|----------|-------------------|
| drawn: | approved | date:             |
| JBS    | MJB      | December 12, 2011 |

**A3/A3N**

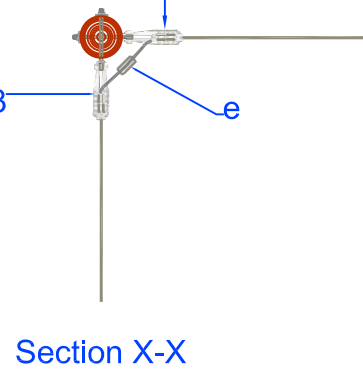


Unit M42-11, M42-11.1,  
M42-13, or M42-13.1



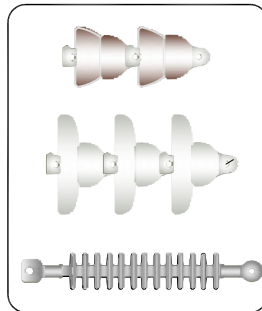
Unit M42-11 or M42-13

Unit M42-11 or M42-13



Unit M42-11, M42-11.1,  
M42-13, or M42-13.1

Possible varieties  
of Suspension  
Insulators



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description            | Item | Material Number | Item Quantity | Item Description  |
|------|-----------------|---------------|-----------------------------|------|-----------------|---------------|-------------------|
| a    | 2000551         | 2             | Insulator Susp Poly 35KV Cl | d    | *3000240        | 4 (2)         | Washer Sq F 2 1/4 |
| b    | *               | 4 (2)         | Bolt Eye 5/8"               | e    | *               | As Req'd.     | Connectors        |
| c    | *3000153        | 4 (2)         | Locknut 5/8" M F            | f    | *               | As Req'd.     | Jumpers           |

Specify A4N for unit A4 less neutral material. Quantities shown in parenthesis are for A4N.

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.

For guying use an E1-2 attached to an F1-3 for everything except #336 AAC NESC Grade B Construction use an E1-3 attached to an F1-4 as needed.



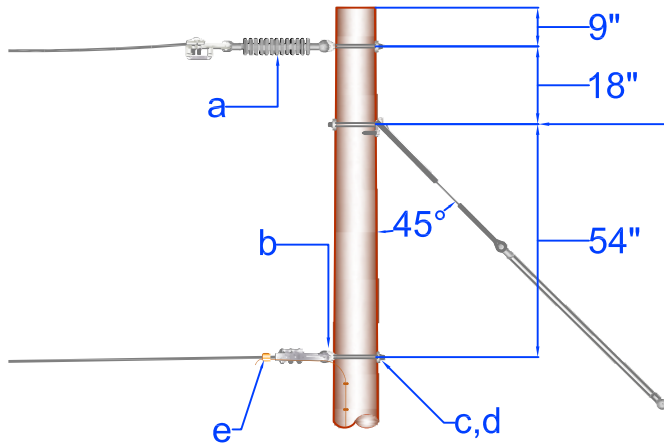
**PEDERNALES ELECTRIC  
COOPERATIVE, INC.**  
CONSTRUCTION ASSEMBLY UNIT

**1Φ Large angle, Any Grade of  
Construction**

|                      |                        |                            |
|----------------------|------------------------|----------------------------|
| drawn:<br><b>JBS</b> | approved<br><b>MJB</b> | date:<br>December 12, 2011 |
|----------------------|------------------------|----------------------------|

**A4/A4N**

**SIDE VIEW**



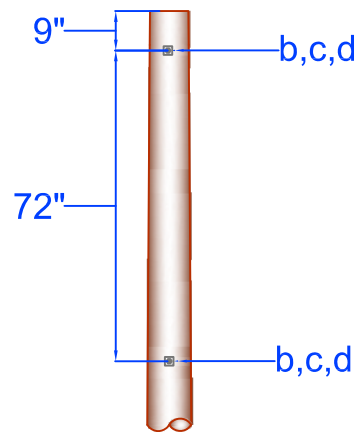
Position of guy when required.  
See Design Guidelines for further information.

**TOP VIEW**

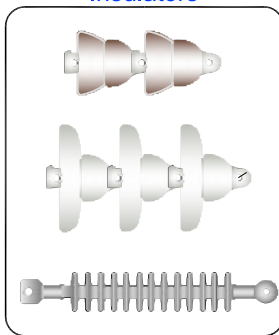


See Assembly Units  
M42-11, M42-11.1,  
M42-13, or M42-13.1

**REAR VIEW**



Possible varieties of Suspension Insulators



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description            | Item | Material Number | Item Quantity | Item Description  |
|------|-----------------|---------------|-----------------------------|------|-----------------|---------------|-------------------|
| a    | 2000551         | 1             | Insulator Susp Poly 35KV CI | d    | *3000240        | 2 (1)         | Washer Sq F 2 1/4 |
| b    | *               | 2 (1)         | Bolt Eye 5/8"               | e    | *               | As Req'd      | Connectors        |
| c    | *3000153        | 2 (1)         | Locknut 5/8" M F            |      |                 |               |                   |

Specify A5N for unit A5 less neutral material. Quantities shown in parenthesis are for A5N.

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.

Install Units M42-11, M42-11.1, M42-13, or M42-13.1 as needed.

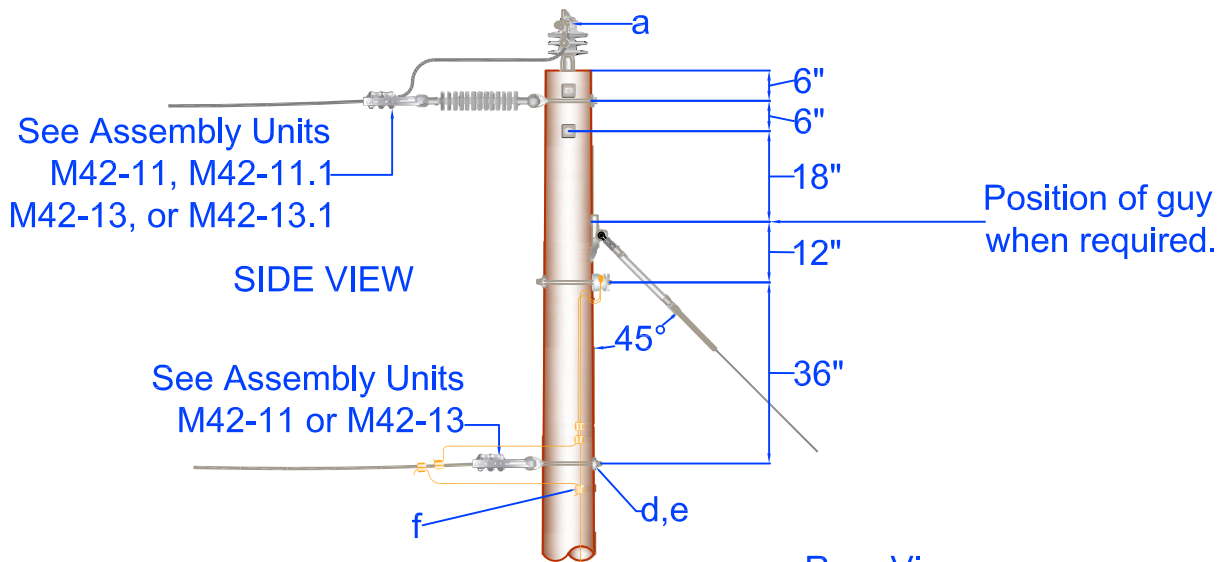


PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

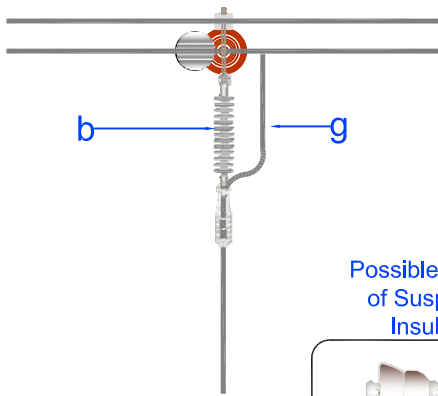
**1Φ Deadend (Single)**

|        |          |                   |
|--------|----------|-------------------|
| drawn: | approved | date:             |
| JBS    | MJB      | December 12, 2011 |

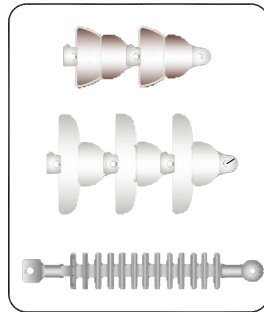
**A5/A5N**



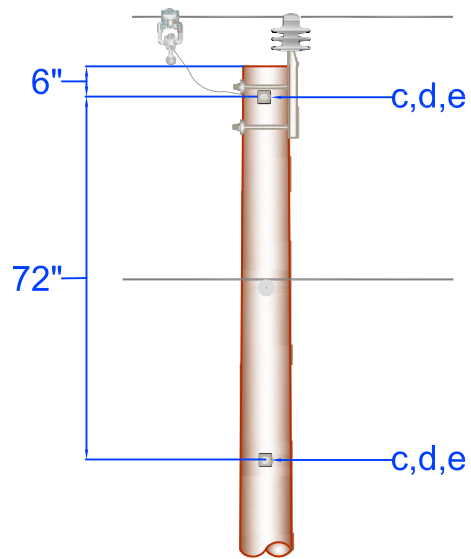
TOP VIEW



Possible varieties of Suspension Insulators



Rear View



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description            | Item | Material Number | Item Quantity | Item Description  |
|------|-----------------|---------------|-----------------------------|------|-----------------|---------------|-------------------|
| a    | 2000278         | 1             | Conn HL Gp 8-2/0-8-1/0      | e    | *3000240        | 2 (1)         | Washer Sq F 2 1/4 |
| b    | 2000551         | 1             | Insulator Susp Poly 35KV CI | f    | *               | As Req'd.     | Connectors, wedge |
| c    | *               | 2 (1)         | Bolt Eye 5/8"               | g    | *               | As Req'd.     | Jumpers           |
| d    | *3000153        | 2 (1)         | Locknut 5/8" M F            |      |                 |               |                   |

Specify A5-1N for unit A5-1 less neutral material. Quantities shown in parenthesis are for A5-1N.

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.

For guying use an E1-2 attached to an F1-3 for everything except #336 AAC NESC Grade B Construction use an E1-3 attached to an F1-4 as needed.

Install Units M42-11, M42-11.1, M42-13, M42-13.1, or M42-17 as needed.



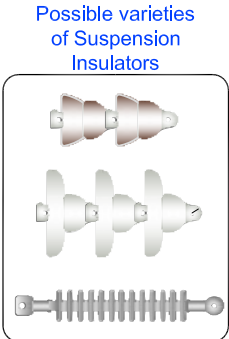
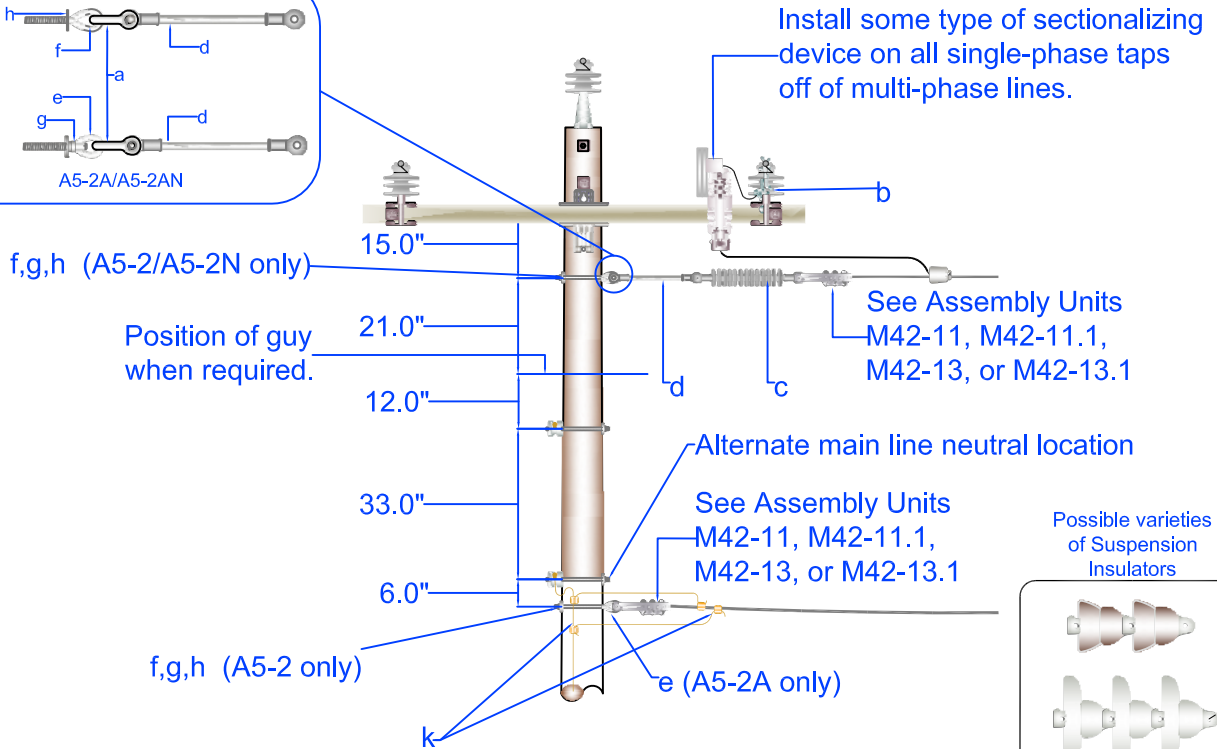
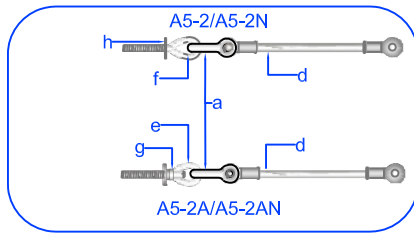
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

**1Φ Tap off of a 1Φ pole.**

|        |          |                   |
|--------|----------|-------------------|
| drawn: | approved | date:             |
| JBS    | MJB      | December 12, 2011 |

**A5-1/A5-1N**





**Notes:**

- 1) See design guidelines for additional information.
- 2) If main line neutral is moved to the alternate location be sure not to cause downstrain on adjacent poles.

| Item | Material Number | Item Description                   | A5-2          | A5-2A         |
|------|-----------------|------------------------------------|---------------|---------------|
|      |                 |                                    | Item Quantity | Item Quantity |
| a    | 2000262         | Clevis Anchor Shackle Sml          | 1             | 1             |
| b    | 2000278         | Conn HL Gp 8-2/0-8-1/0             | 1             | 1             |
| c    | 2000551         | Insulator Susp Poly 35KV CI        | 1             | 1             |
| d    | 2000539         | 12" Fiberglass Extension Link C-TE | 1             | 1             |
| e    | *2000610        | Nut Eye 5/8"                       | 0             | 2 (1)         |
| f    | *               | Bolt Eye 5/8"                      | 2 (1)         | 0             |
| g    | *3000153        | Locknut 5/8" M F                   | 2 (1)         | 2 (1)         |
| h    | *3000240        | Washer Sq F 2 1/4                  | 2 (1)         | 0             |
| j    | *               | Jumpers                            | As req'd.     | As req'd.     |
| k    | *               | Connectors                         | As req'd.     | As req'd.     |

Specify A5-2N or A5-2AN for unit A5-2 or A5-2A less neutral material.

Quantities shown in parenthesis are for A5-2N or A5-2AN.

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.

For guying use an E1-2 attached to an F1-3 for everything except #336 AAC NESC Grade B Construction use an E1-3 attached to an F1-4 as needed.

Install Units M42-11, M42-11.1, M42-13, M42-13.1, or M42-17 as needed.

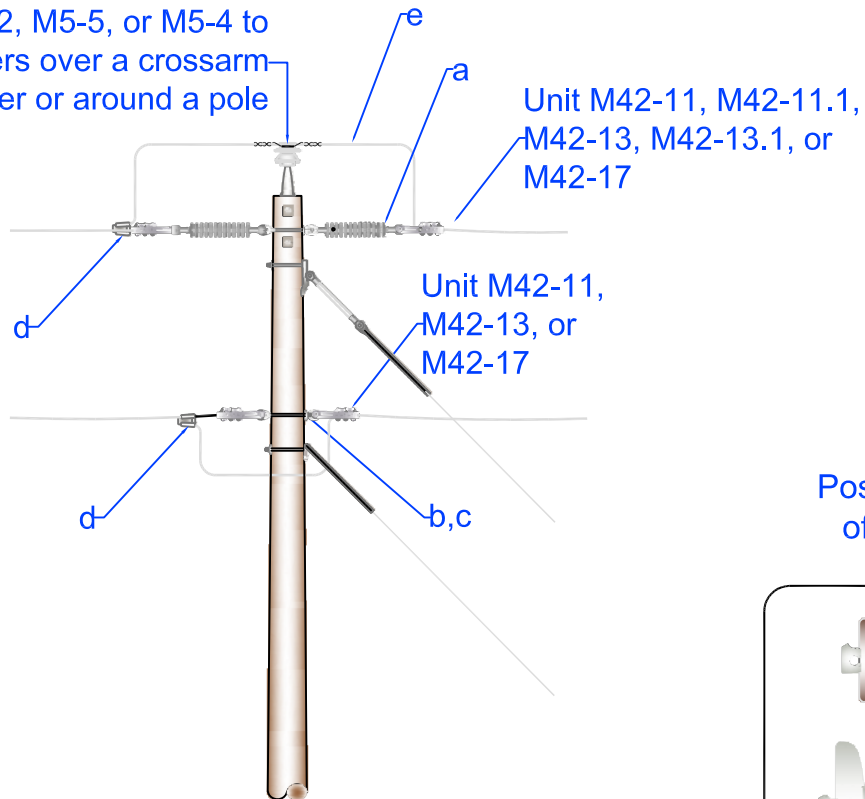


PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

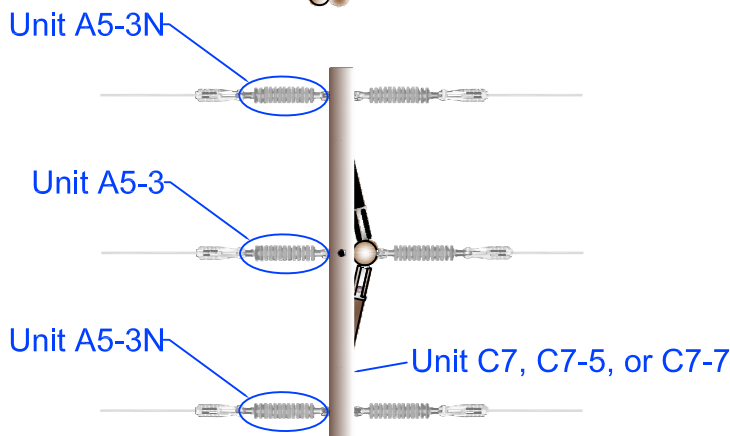
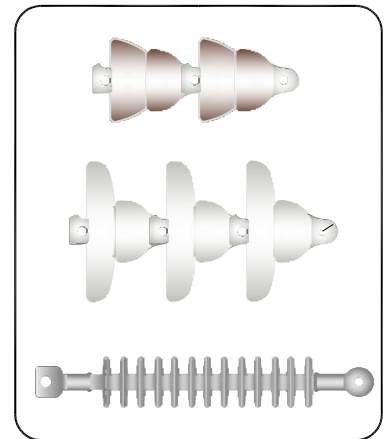
**1Φ Tap off of a 3Φ pole.**

|                      |                        |                            |  |
|----------------------|------------------------|----------------------------|--|
| drawn:<br><b>JBS</b> | approved<br><b>MJB</b> | date:<br>December 12, 2011 | <b>A5-2/A5-2N</b><br><b>A5-2A/A5-2AN</b> |
|----------------------|------------------------|----------------------------|--|

Use a M5-2, M5-5, or M5-4 to route jumpers over a crossarm and over or around a pole



Possible varieties of Suspension Insulators



Units A5-3 and (2) A5-3N as installed on a C7, C7-5, or C7-7. C7's should not be used on full tension lines of larger than #4 ACSR.

Typical Application of Units A5-3, and (2) A5-3N used at a line opening with no primary jumpers. If using jumpers specify a M5-2 and (2) M5-5's, or (3) M5-5's. Or an A5-4 can be installed in the center phase which includes a M5-2

Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description            | Item | Material Number | Item Quantity | Item Description |
|------|-----------------|---------------|-----------------------------|------|-----------------|---------------|------------------|
| a    | 2000551         | 1             | Insulator Susp Poly 35KV CI | d    | *               | As Req'd.     | Connectors       |
| b    | *2000610        | 2 (1)         | Nut Eye 5/8"                | e    | *               | As Req'd.     | Jumpers          |
| c    | *3000153        | 2 (1)         | Locknut 5/8" M F            |      |                 |               |                  |

Specify A5-3 for unit A5-3N less neutral material. Quantities in parenthesis are for A5-3N.

Specify units M42-11, M42-11.1, M42-13, M42-13.1, or M42-17 as needed.

\* Denotes "Grab Bag" item.



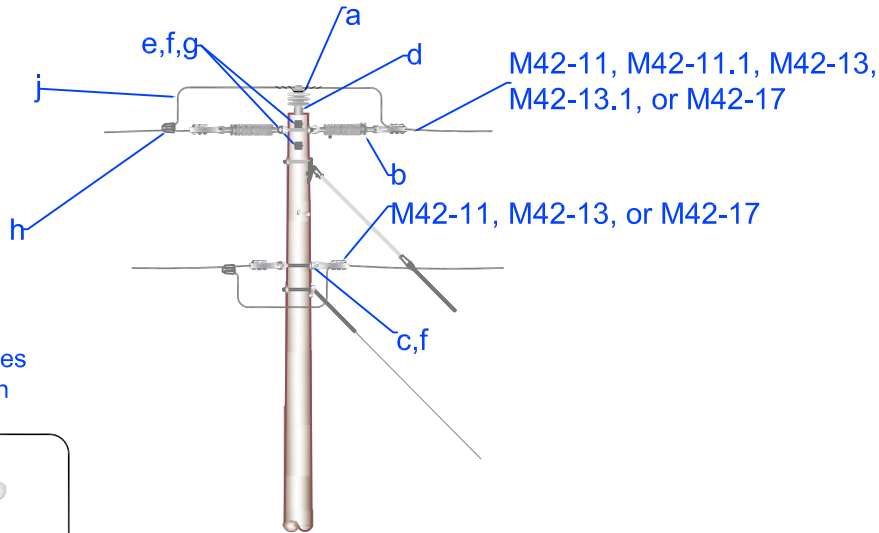
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

**1Φ Tap off of an Existing Bolt**

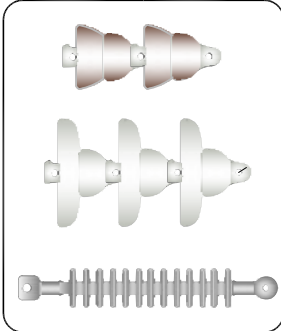
|        |          |                   |
|--------|----------|-------------------|
| drawn: | approved | date:             |
| JBS    | MJB      | December 12, 2011 |

**A5-3/A5-3N**

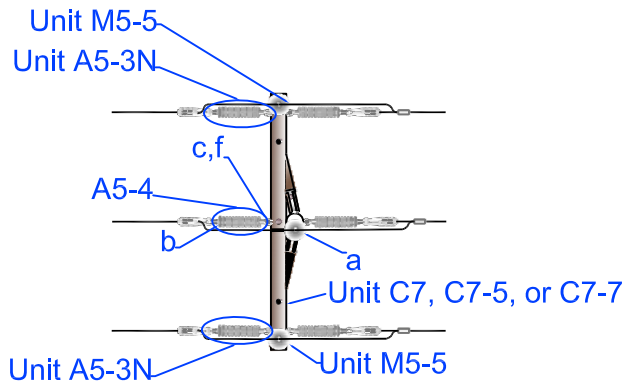
SIDE VIEW



Possible varieties of Suspension Insulators



Typical Application of Units A5-4, and (2) A5-3N.



TOP VIEW



Units A5-4 and (2) A5-3N as installed on a C7, C7-5, or C7-7. C7's should not be used on full tension lines of larger than #4 ACSR.

Typical Application of Units A5-3, and (2) A5-3N used at a line opening with no primary jumpers. If using jumpers specify a M5-2 and (2) M5-5's, or (3) M5-5's. Or an A5-4 can be installed in the center phase which includes a M5-2.

Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description             | Item | Material Number | Item Quantity | Item Description  |
|------|-----------------|---------------|------------------------------|------|-----------------|---------------|-------------------|
| a    | 2000541         | 1             | Insulator Pin Type CI 55-7   | f    | *3000153        | 4 (3)         | Locknut 5/8" M F  |
| b    | 2000551         | 1             | Insulator Susp Poly 35KV CI  | g    | *3000240        | 2             | Washer Sq F 2 1/4 |
| c    | *2000610        | 2 (1)         | Nut Eye 5/8"                 | h    | *               | As Req'd.     | Connectors        |
| d    | 2000621         | 1             | Pin Pole Top 20"- 1 3/8" Thd | j    | *               | As Req'd.     | Jumpers           |
| e    | *               | 2             | Bolt Machine 5/8"            |      |                 |               |                   |

Specify A5-4N for unit VA5-4 less neutral material. Quantities in parenthesis are for A5-4N.

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.



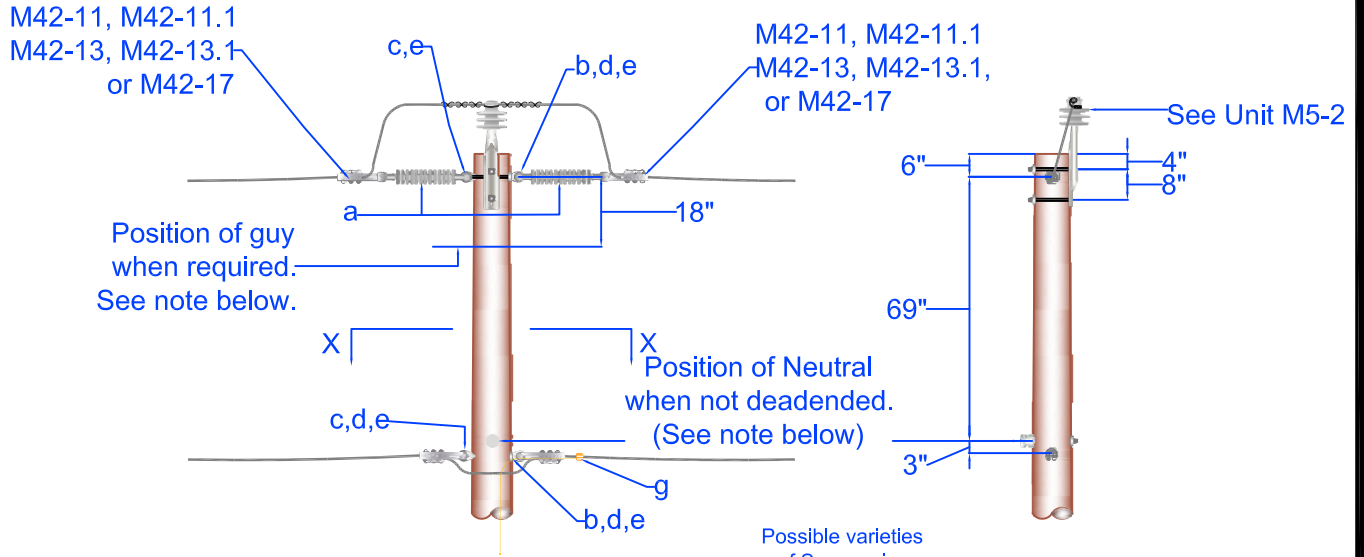
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

**1Φ Tap off of an Existing Bolt  
With Pole Top Pin Insulator  
for Jumper**

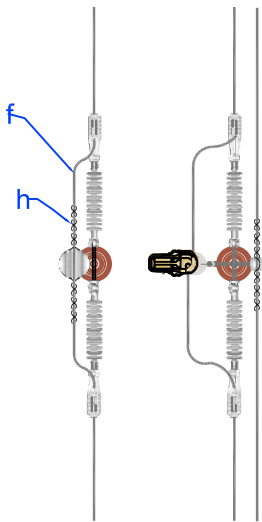
|        |          |                   |
|--------|----------|-------------------|
| drawn: | approved | date:             |
| JBS    | MJB      | December 12, 2011 |

**A5-4/A5-4N**

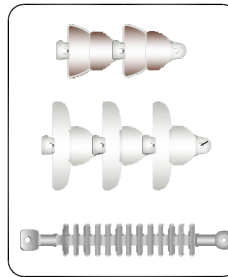
SIDE VIEW



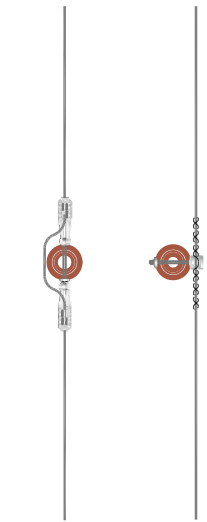
Top view showing an A6N, M3-1, A6 and M5-2 and J8.



Possible varieties of Suspension Insulators



Section X-X showing an A6. Section X-X showing an A6N and J8.



Notes:

Assembly units A6 or A6N should be used with assembly units M5-2 (as shown) or M5-4 if a jumper is used. When used with assembly units M3-10, M3-1, M3-1.1, M3-3.24, M3-3.40, M3-3.56, M3-3.80, M3-2, or M3-2.1 the neutral does not need to be deadended, if so specify an A6N and a J8. If a guy is required and less than a 1:1 guy lead to height ratio is used, individual calculations must be made or consult the reduced guy lead chart in the "Spec-Book".

Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description            | Item | Material Number | Item Quantity | Item Description         |
|------|-----------------|---------------|-----------------------------|------|-----------------|---------------|--------------------------|
| a    | 2000551         | 2             | Insulator Susp Poly 35KV Cl | e    | *3000240        | 4 (2)         | Washer Sq F 2 1/4        |
| b    | *2000610        | 2 (1)         | Nut Eye 5/8"                | f    | *               | As Req'd.     | Jumpers                  |
| c    | *               | 2 (1)         | Bolt Eye 5/8"               | g    | *               | As Req'd.     | Connectors               |
| d    | *3000153        | 2 (1)         | Locknut 5/8" M F            | h    | *               | As Req'd.     | Primary and Neutral Ties |

Specify A6N for A6 less the neutral material. Quantities in parenthesis are for A6N.

Specify units M42-11, M42-11.1, M42-13, M42-13.1, or M42-17 as needed. \* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.



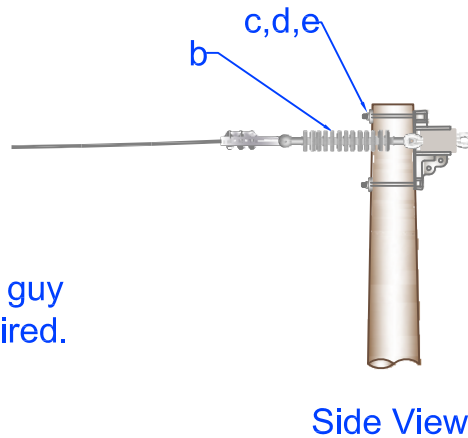
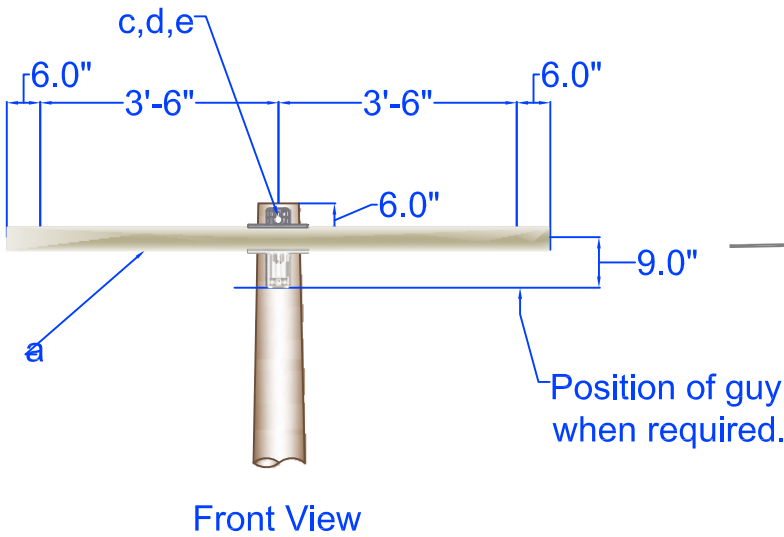
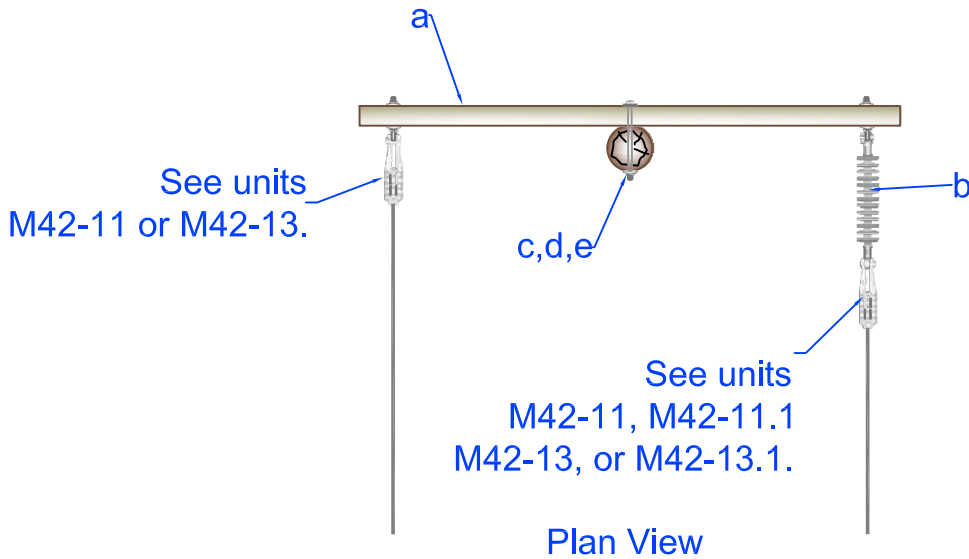
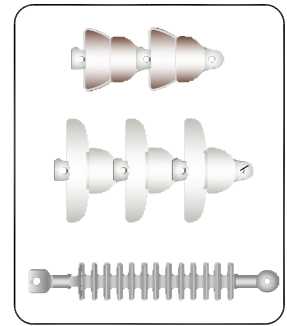
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

1Φ Vertical Double Deadend

|               |                 |                            |
|---------------|-----------------|----------------------------|
| drawn:<br>JBS | approved<br>MJB | date:<br>December 12, 2011 |
|---------------|-----------------|----------------------------|

**A6/A6N**

Possible varieties of Suspension Insulators



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description             | Item | Material Number | Item Quantity | Item Description             |
|------|-----------------|---------------|------------------------------|------|-----------------|---------------|------------------------------|
| a    | 2001317         | 1             | Xarm DE Fiberglass 8' 3 Wire | d    | *3000151        | 2             | Locknut 3/4" M F             |
| b    | 2000551         | 1             | Insulator Susp Poly 35KV Cl  | e    | *3000230        | 2             | Washer SQ F 21/2x21/2 13/16H |
| c    | *               | 2             | Bolt Machine 3/4"            |      |                 |               |                              |

There is no Assembly Unit A7N. Install Units M42-11, M42-11.1, M42-13, or M42-13.1 as needed.

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.



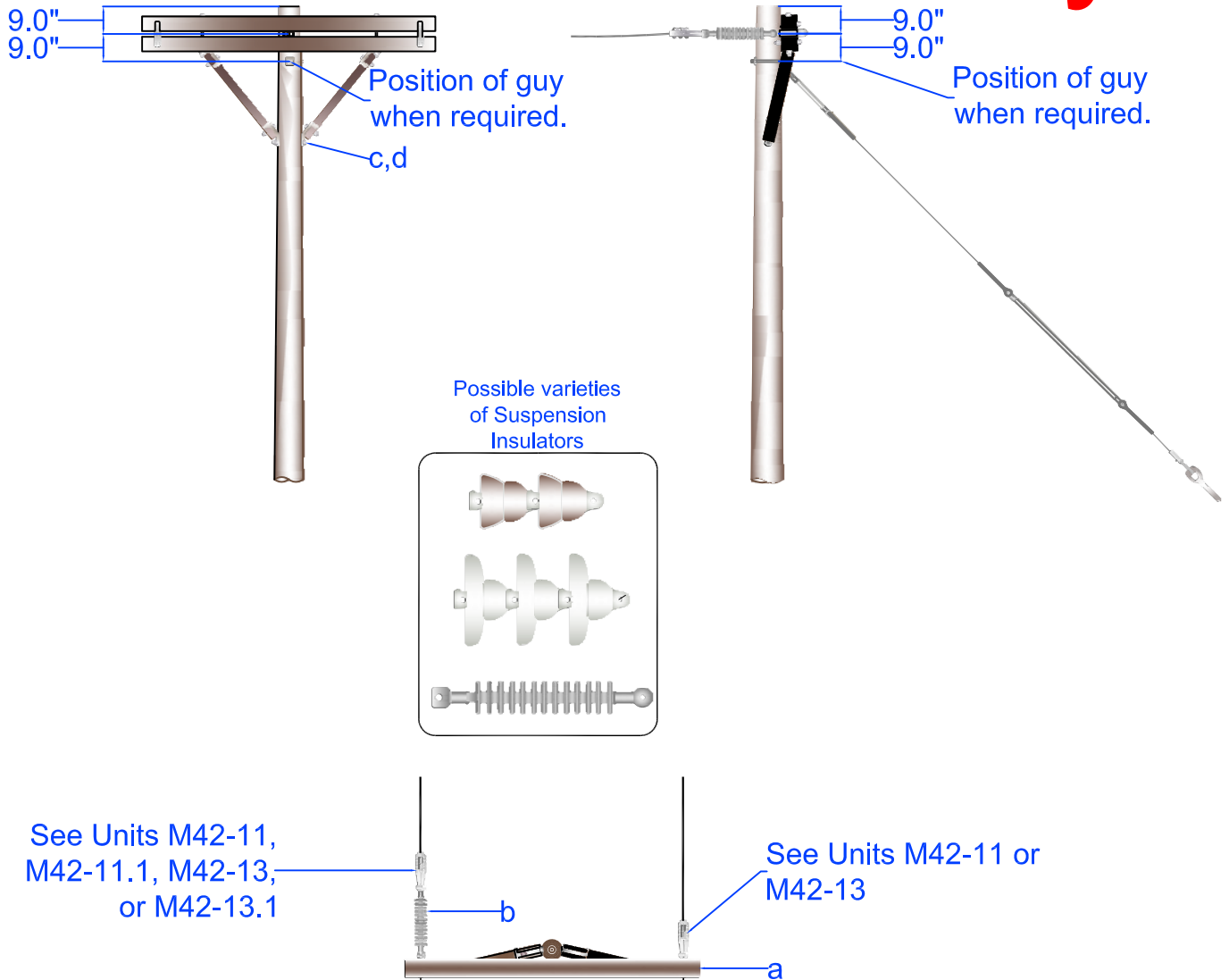
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

### 1Φ Crossarm Construction, Single Deadend

|        |          |                  |
|--------|----------|------------------|
| drawn: | approved | date:            |
| REB    | MJB      | October 23, 2015 |

**A7**

# Removal Only



Note: See design guidelines for additional information.

| Item | Item Number | Item Quantity | Item Description               | Item | Item Number | Item Quantity | Item Description  |
|------|-------------|---------------|--------------------------------|------|-------------|---------------|-------------------|
| a    | 2001312     | 1             | Xarm DE 3 3/4" x 5 3/4" x 8'3W | c    | *           | 1             | Bolt Machine 5/8" |
| b    | 2000551     | 1             | Insulator Susp Poly 35KV CI    | d    | *3000153    | 1             | Locknut 5/8" M F  |

There is no Assembly Unit A7-5N

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.

Install Units M42-11, M42-11.1, M42-13, or M42-13.1 as needed.

For Full Tension #1/0 ACSR or #336 AAC deadends.



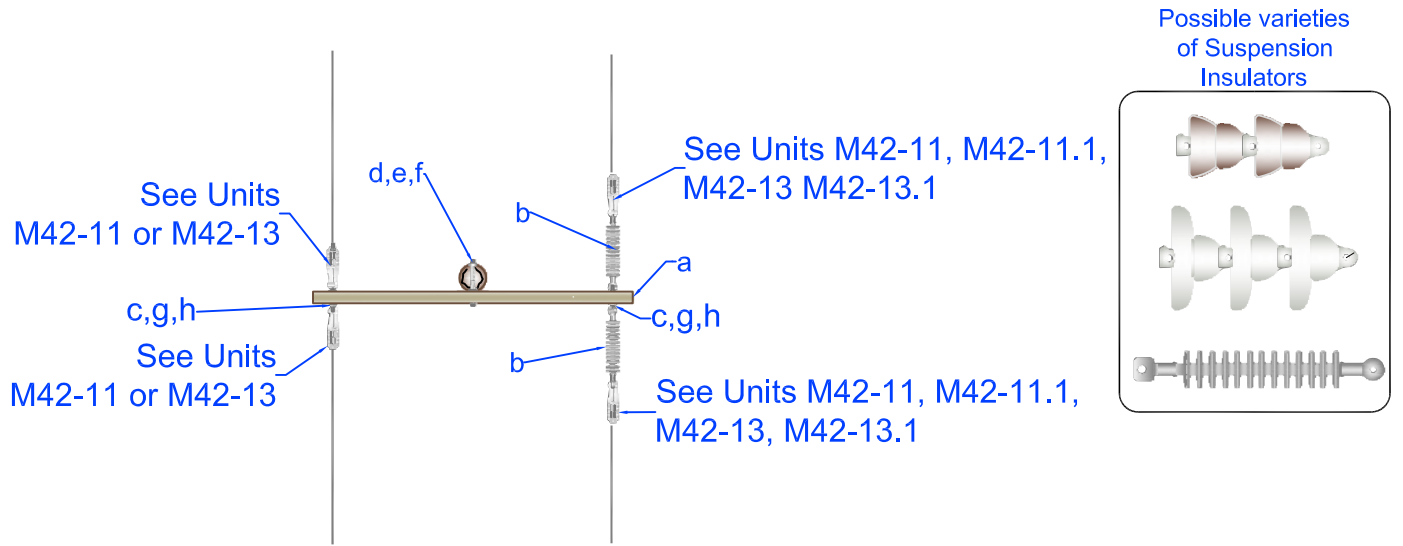
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

**1Φ #1/0 ACSR or #336 AAC Crossarm  
Construction (Pre-assembled deadend)**

|        |          |               |
|--------|----------|---------------|
| drawn: | approved | date:         |
| JBS    | MJB      | July 25, 2014 |

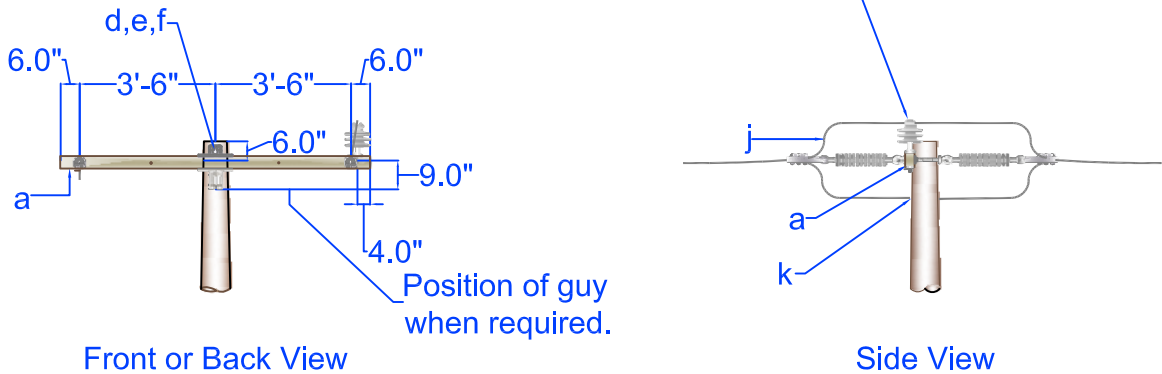
**A7-5**

Top View



If unit A8 is used as an angle assembly install a "split bolt" (unit M5-18) installed in the pre-drilled hole 4" from the pole top and perpendicular to the bolts attaching the crossarm to the pole.

When jumpers are used install a M5-5, on the primary side of the crossarms, and route the primary jumper over the cross arms. Route the neutral jumper under the crossarms.



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description             | Item | Material Number | Item Quantity | Item Description             |
|------|-----------------|---------------|------------------------------|------|-----------------|---------------|------------------------------|
| a    | 2001317         | 1             | Xarm DE Fiberglass 8' 3 Wire | f    | *3000230        | 2             | Washer SQ F 21/2x21/2 13/16H |
| b    | 2000551         | 2             | Insulator Susp Poly 25KV Cl  | g    | *3000151        | 2             | Locknut 5/8" M F             |
| c    | *2000610        | 2             | Nut Eye 5/8"                 | h    | *3000240        | 2             | Washer Sq F 2 1/4            |
| d    | *               | 2             | Bolt Machine 3/4"            | j    | *               | As Req'd.     | Jumpers                      |
| e    | *3000153        | 2             | Locknut 3/4" M F             | k    | *               | As Req'd.     | Connectors                   |

There is no Assembly Unit A8N. Install Units M42-11, M42-11.1, M42-13, or M42-13.1 as needed.



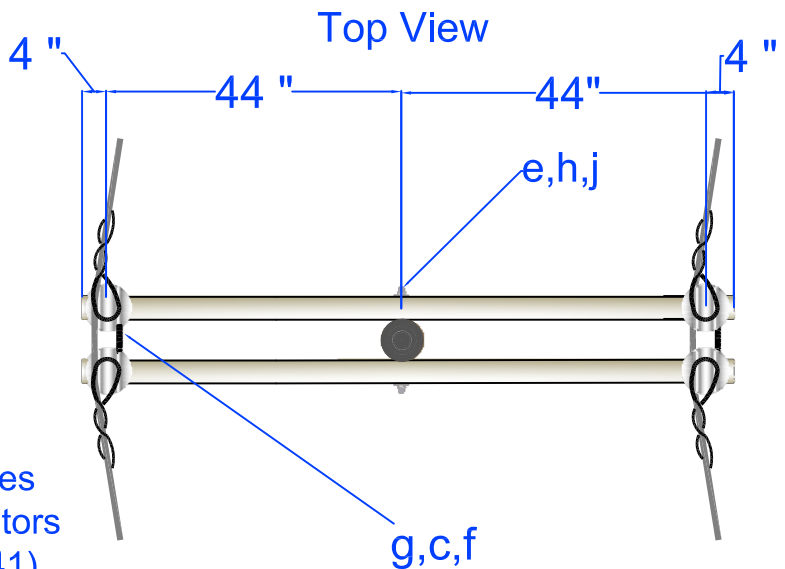
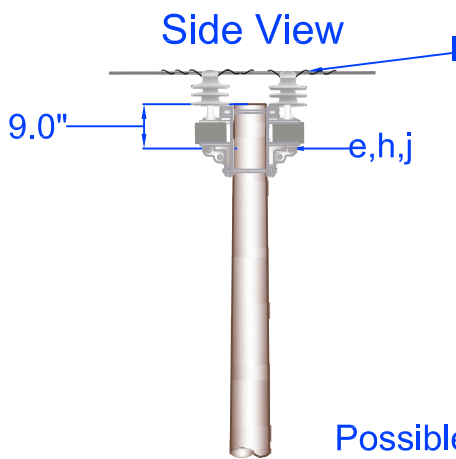
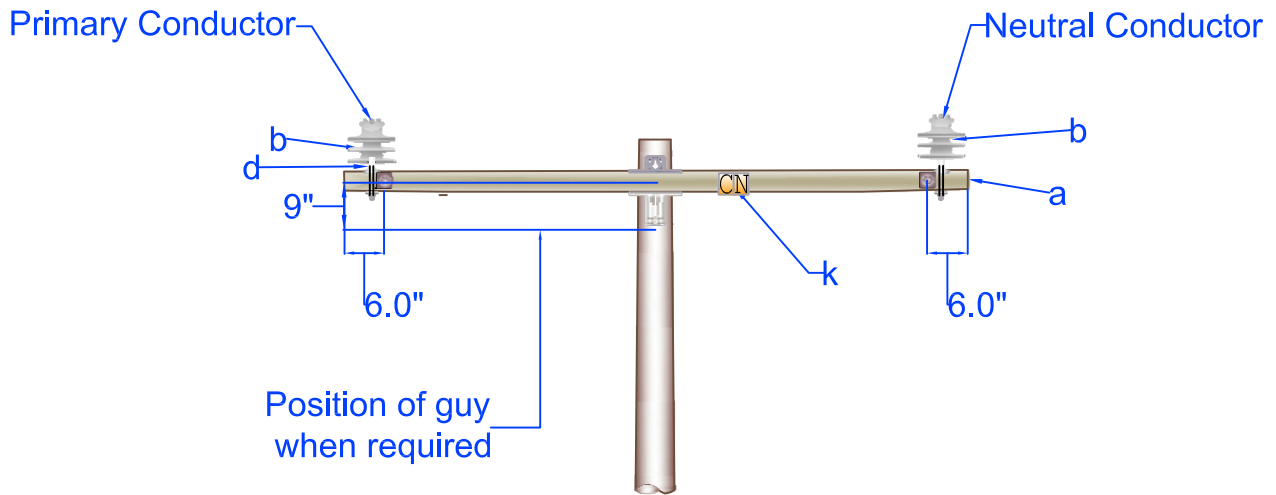
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

**1Φ Crossarm Construction  
Double Deadend**

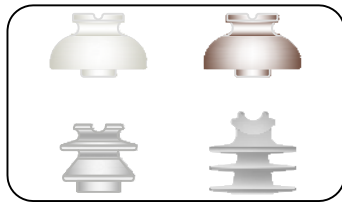
|        |          |                  |
|--------|----------|------------------|
| drawn: | approved | date:            |
| REB    | MJB      | October 23, 2015 |

**A8**

## Front or Back View



Possible varieties of Primary Insulators (Stock #2000541)



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description           | Item | Material Number | Item Quantity | Item Description             |
|------|-----------------|---------------|----------------------------|------|-----------------|---------------|------------------------------|
| a    | 2001328         | 2             | Xarm Fbgls 8'              | g    | *               | 2             | Bolt Dbl Arming 5/8"         |
| b    | 2000541         | 4             | Insulator Pin Type CI 55-7 | h    | *3000151        | 4             | Locknut 3/4" M F             |
| c    | *3000153        | 8             | Locknut 5/8" M F           | j    | *3000230        | 4             | Washer SQ F 21/2x21/2 13/16H |
| d    | 2000626         | 4             | Pin Xarm 1 3/8" Thd Reg    | k    | *               | 2             | Letters C and N              |
| e    | *               | 2             | Bolt Dbl Arming 3/4"       | l    | *               | As Req'd.     | Primary and Neutral ties     |
| f    | *3000240        | 8             | Washer Sq F 2 1/4          |      |                 |               |                              |

There is no Assembly Unit A9N

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.



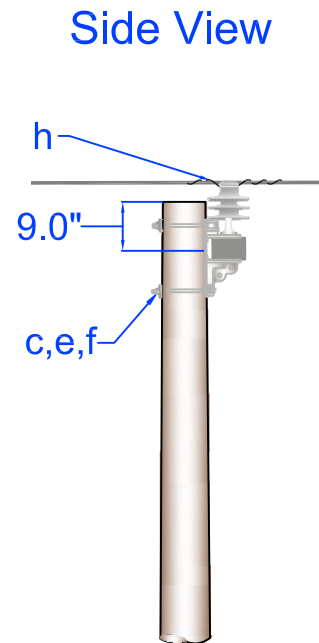
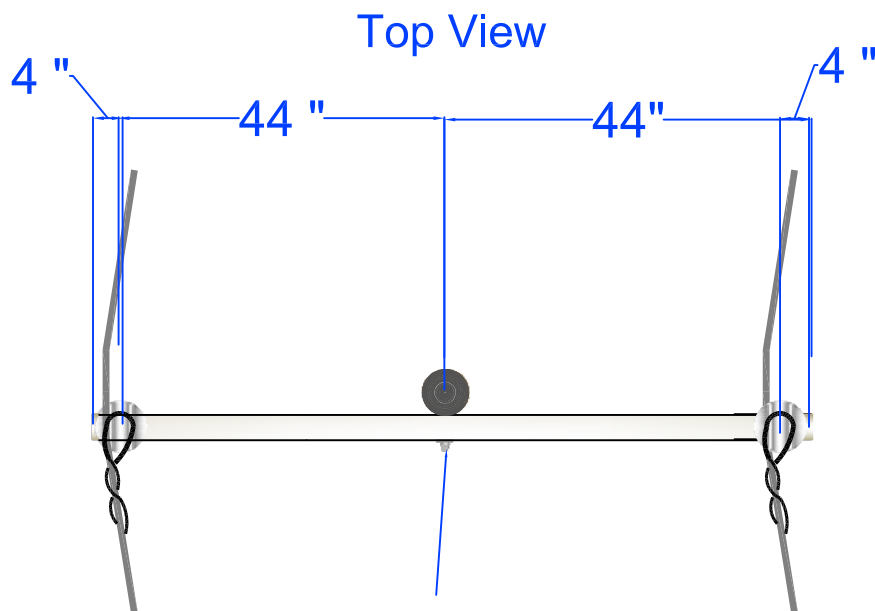
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

## 1φ Double Crossarm Construction

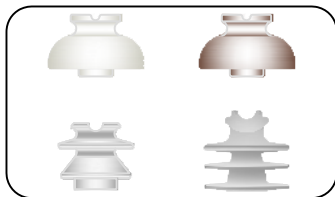
|        |          |                  |
|--------|----------|------------------|
| drawn: | approved | date:            |
| REB    | MJB      | October 23, 2015 |

# A9

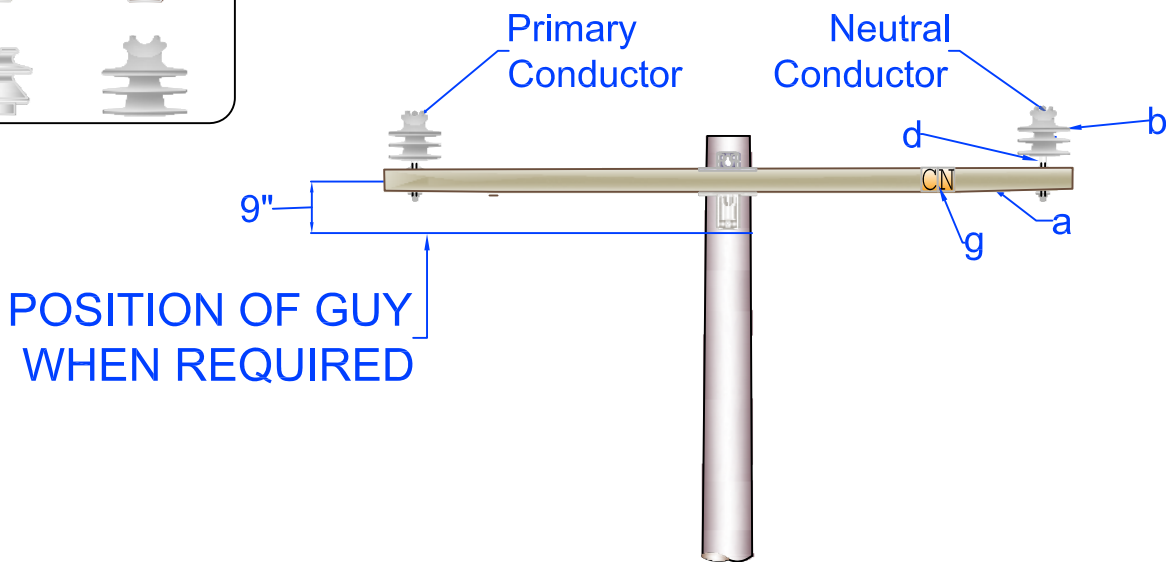




Possible varieties  
of Primary Insulators  
(Stock #2000541)



### Front View



POSITION OF GUY  
WHEN REQUIRED

Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description           | Item | Material Number | Item Quantity | Item Description             |
|------|-----------------|---------------|----------------------------|------|-----------------|---------------|------------------------------|
| a    | 2001328         | 1             | Xarm Fbgl 8'               | e    | *3000243        | 2             | Washer SQ F 21/2x21/2 13/16H |
| b    | 2000541         | 2             | Insulator Pin Type CI 55-7 | f    | *               | 2             | Bolt Machine 3/4"            |
| c    | *3000151        | 2             | Locknut 3/4" M F           | g    | *               | 1             | Letters C and N              |
| d    | 2000626         | 2             | Pin Xarm 1 3/8" Thd Reg    | h    | *               | As Req'd.     | Primary and Neutral ties     |

There is no Assembly Unit A9-1N

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.

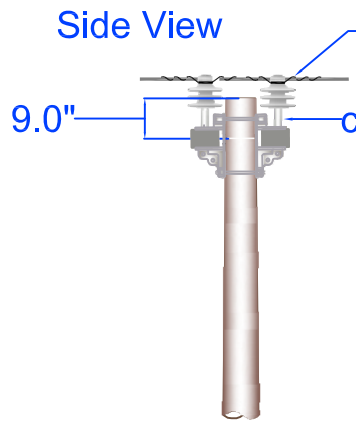
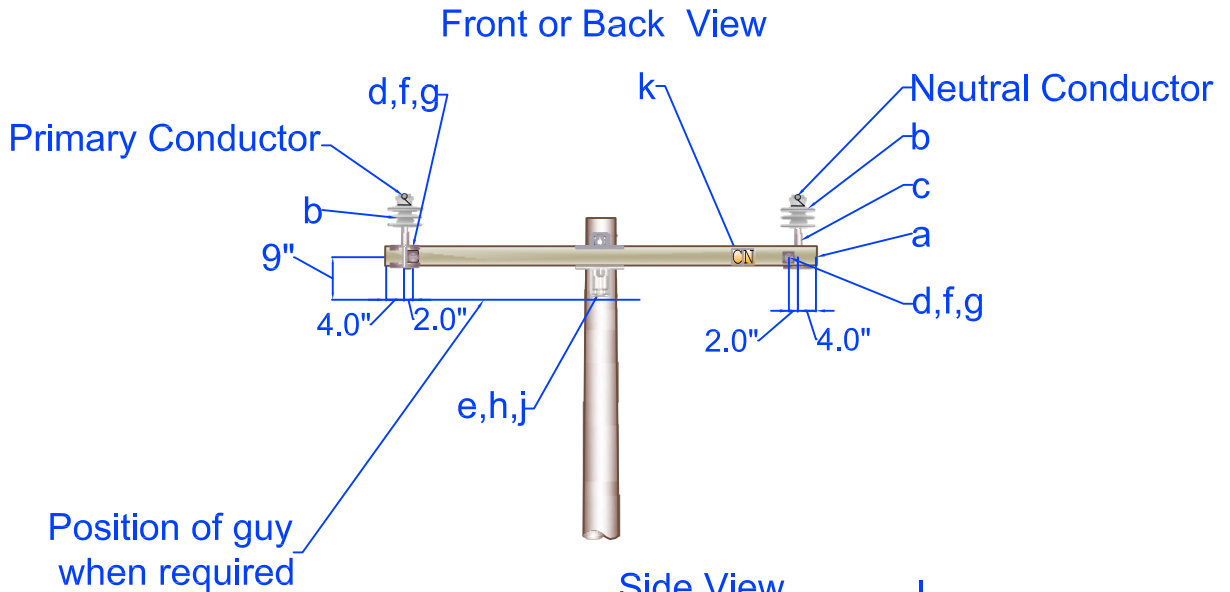


PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

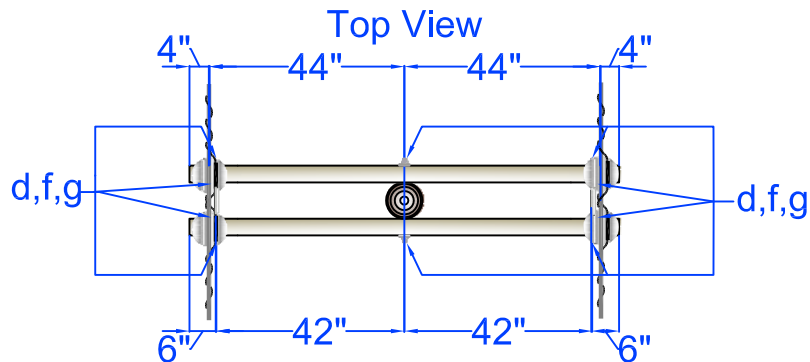
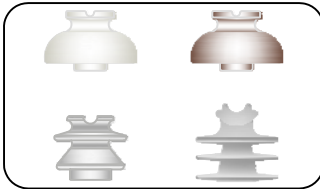
## 1Φ Single Crossarm Construction

|        |          |                  |
|--------|----------|------------------|
| drawn: | approved | date:            |
| REB    | MJB      | October 23, 2015 |

**A9-1**



Possible varieties of Primary Insulators (Stock #2000541)



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description               | Item | Material Number | Item Quantity | Item Description             |
|------|-----------------|---------------|--------------------------------|------|-----------------|---------------|------------------------------|
| a    | 2001328         | 2             | Xarm Fbgl 8'                   | g    | *3000240        | 8             | Washer Sq F 2 1/4            |
| b    | 2000541         | 4             | Insulator Pin Type CI 55-7     | h    | *3000151        | 4             | Locknut 3/4" M F             |
| c    | 2000625         | 4             | Pin Xarm 1 3/8" Thd Clamp Type | j    | *3000230        | 4             | Washer SQ F 21/2x21/2 13/16H |
| d    | *               | 2             | Bolt Dbl Arming 5/8"           | k    | *               | 2             | Letters C and N              |
| e    | *               | 2             | Bolt Dbl Arming 3/4"           | l    | *               | As Req'd.     | Primary and Neutral ties     |
| f    | *3000153        | 8             | Locknut 5/8" M F               |      |                 |               |                              |

There is no Assembly Unit A9-2N

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.



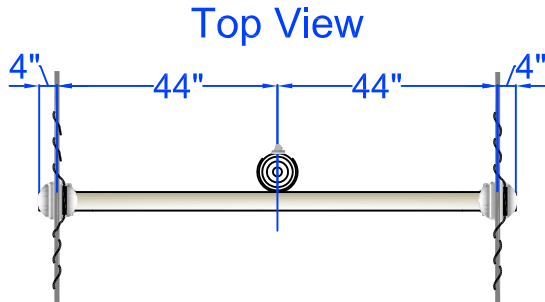
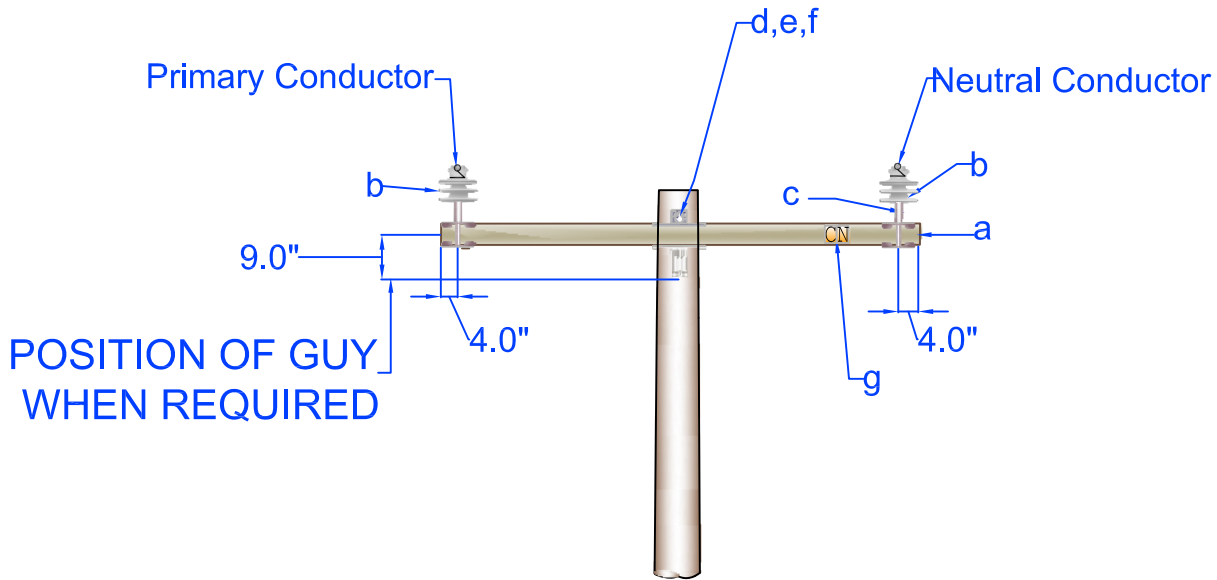
PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

**1Φ Double Crossarm Construction  
with "Saddle Pins" for 1Φ**

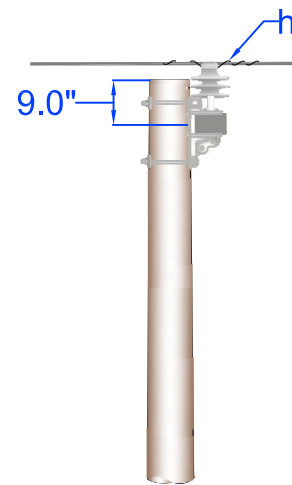
|                      |                        |                           |
|----------------------|------------------------|---------------------------|
| drawn:<br><b>REB</b> | approved<br><b>MJB</b> | date:<br>October 23, 2015 |
|----------------------|------------------------|---------------------------|

**A9-2**

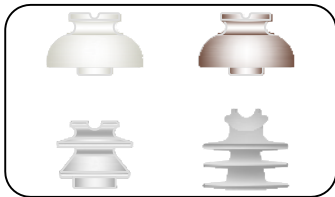
## Front or Back View



## Side View



Possible varieties  
of Primary Insulators  
(Stock #2000541)



Note: See design guidelines for additional information.

| Item | Material Number | Item Quantity | Item Description               | Item | Material Number | Item Quantity | Item Description             |
|------|-----------------|---------------|--------------------------------|------|-----------------|---------------|------------------------------|
| a    | 2001328         | 1             | Xarm Fbgl 8'                   | e    | *3000151        | 2             | Locknut 3/4" M F             |
| b    | 2000541         | 2             | Insulator Pin Type CI 55-7     | f    | *3000230        | 2             | Washer SQ F 21/2x21/2 13/16H |
| c    | 2000625         | 2             | Pin Xarm 1 3/8" Thd Clamp Type | g    | *               | 1             | Letters C and N              |
| d    | *               | 2             | Bolt Machine 3/4"              | h    | *               | As Req'd.     | Primary and Neutral ties     |

There is no Assembly Unit A9-3N

\* Denotes "Grab Bag" item. All bolt lengths are dependent on pole class.



PEDERNALES ELECTRIC  
COOPERATIVE, INC.  
CONSTRUCTION ASSEMBLY UNIT

## 1Φ Single Crossarm Construction with "Saddle Pins"

|            |            |                  |
|------------|------------|------------------|
| drawn:     | approved   | date:            |
| <b>REB</b> | <b>MJB</b> | October 23, 2015 |

# A9-3