

FIGURE 1: 40' POLE

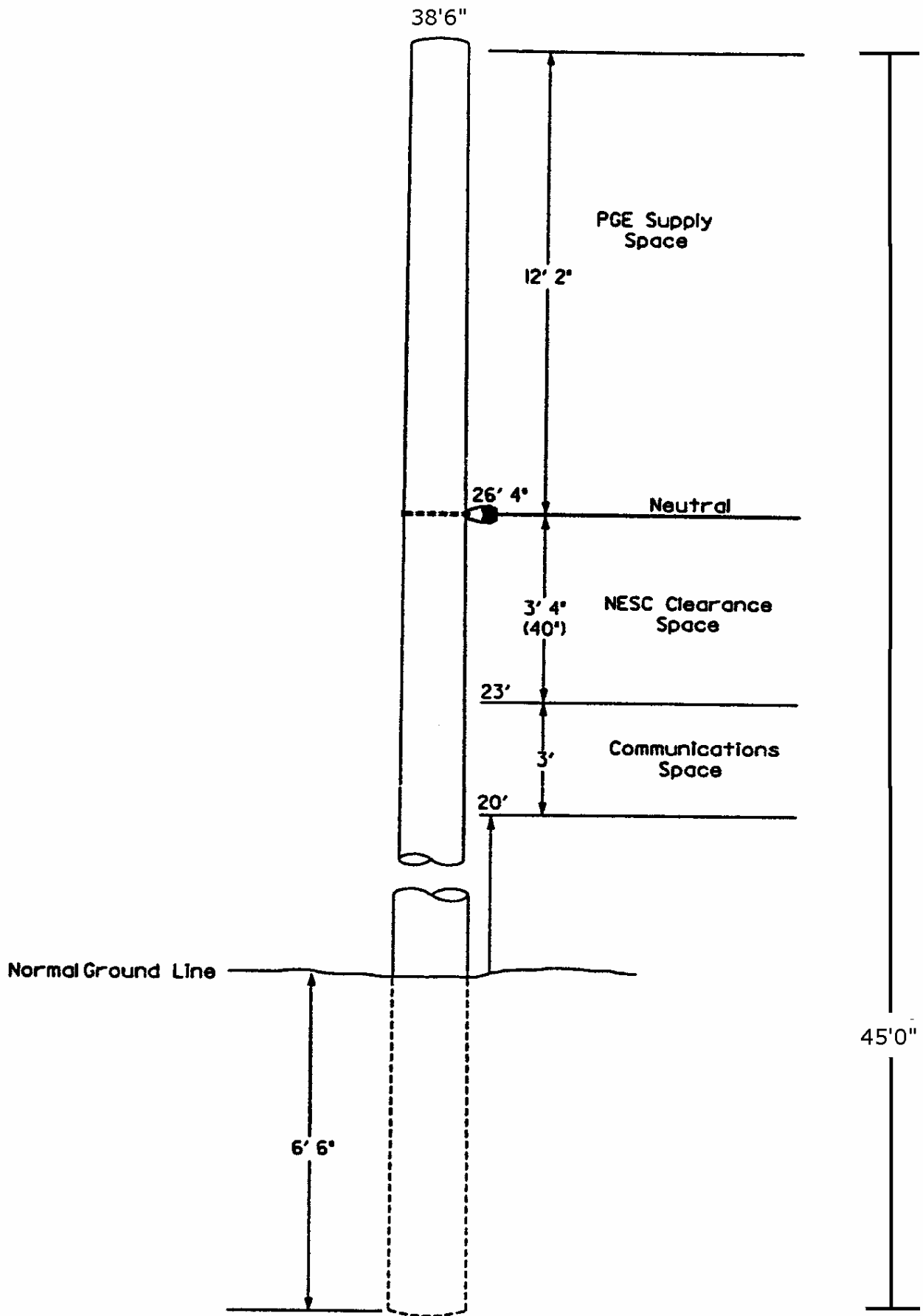


FIGURE 2: 45' POLE

**TABLE 1: ATTACHMENT HEIGHTS**

LOAD OR ATTACHMENT	HEIGHT OF ATTACHMENT FOR DISTRIBUTION POLES, IN FEET (METERS)			
	40 FT. POLE (12.2 meters)	45 FT. POLE (13.7 m)	50 FT. POLE (15.2 m)	55 FT. POLE (16.8 m)
TOP DEADEND ARM	33.0 (10.1)	37.5 (11.4)	42.0 (12.8)	46.5 (14.2)
TOP DEADEND GUY	32.5 (9.91)	37.0 (11.3)	41.5 (12.6)	46.0 (14.0)
SECOND DEADEND (BUCK) ARM	32.0 (9.75)	36.5 (11.1)	41.0 (12.5)	45.5 (13.9)
SECOND DEADEND GUY	31.5 (9.60)	36.0 (11.0)	40.5 (12.3)	45.0 (13.7)
NEUTRAL/SECONDARY	26.7 (8.14)	26.9 (8.2)	26.9 (8.20)	26.9 (8.20)
NEUTRAL/SECONDARY GUY	26.4 (8.05)	26.4 (8.05)	26.4 (8.05)	26.4 (8.05)
TELCO/CABLE	23.0 (7.01)	23.0 (7.01)	23.0 (7.01)	23.0 (7.01)
TELCO/CABLE GUY	22.5 (6.86)	22.5 (6.86)	22.5 (6.86)	22.5 (6.86)
<b>ALTERNATE ATTACHMENT HEIGHTS FOR INCREASED GROUND CLEARANCE</b>				
NEUTRAL/SECONDARY	N/A	30.0 (9.14)	34.5 (10.5)	39.0 (11.9)
NEUTRAL/SECONDARY GUY	N/A	29.5 (8.99)	34.0 (10.4)	38.5 (11.7)
TELCO/CABLE	N/A	26.1 (7.96)	30.6 (9.33)	35.1 (10.7)
TELCO/CABLE GUY	N/A	25.6 (7.80)	30.1 (9.17)	34.6 (10.5)

**NOTE: Alternate attachment heights must be approved by PGE.**

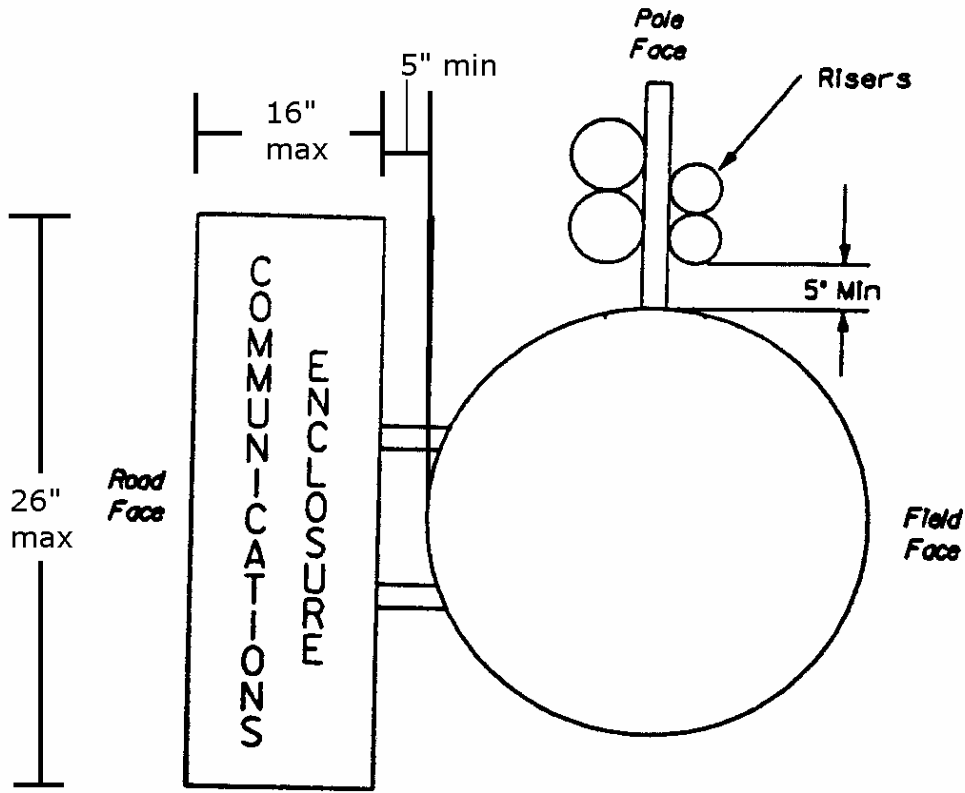


FIGURE 3: COMMUNICATIONS RISER

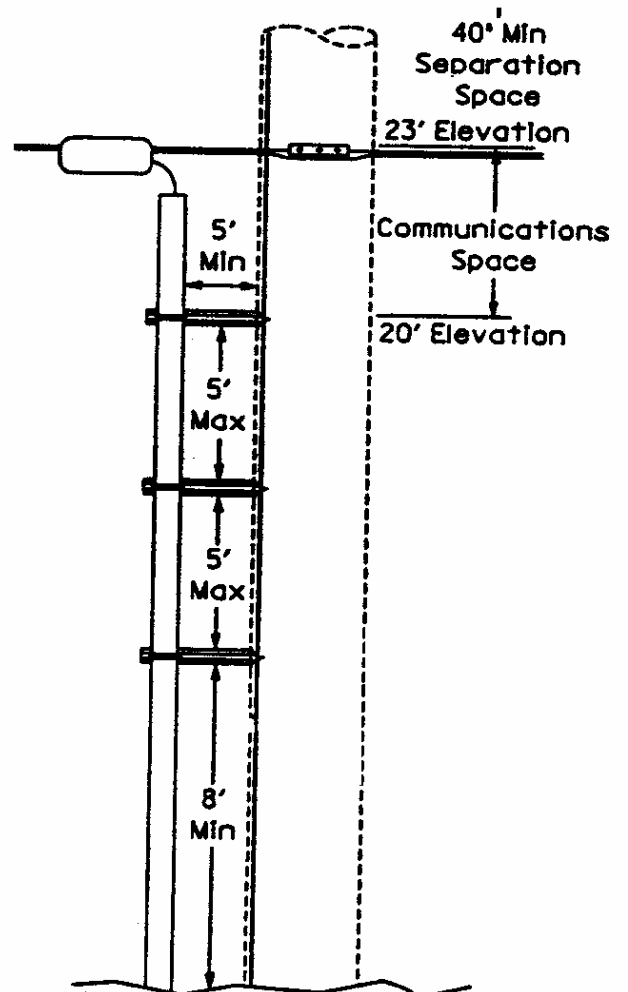


FIGURE 4: BRACKETS FOR RISER

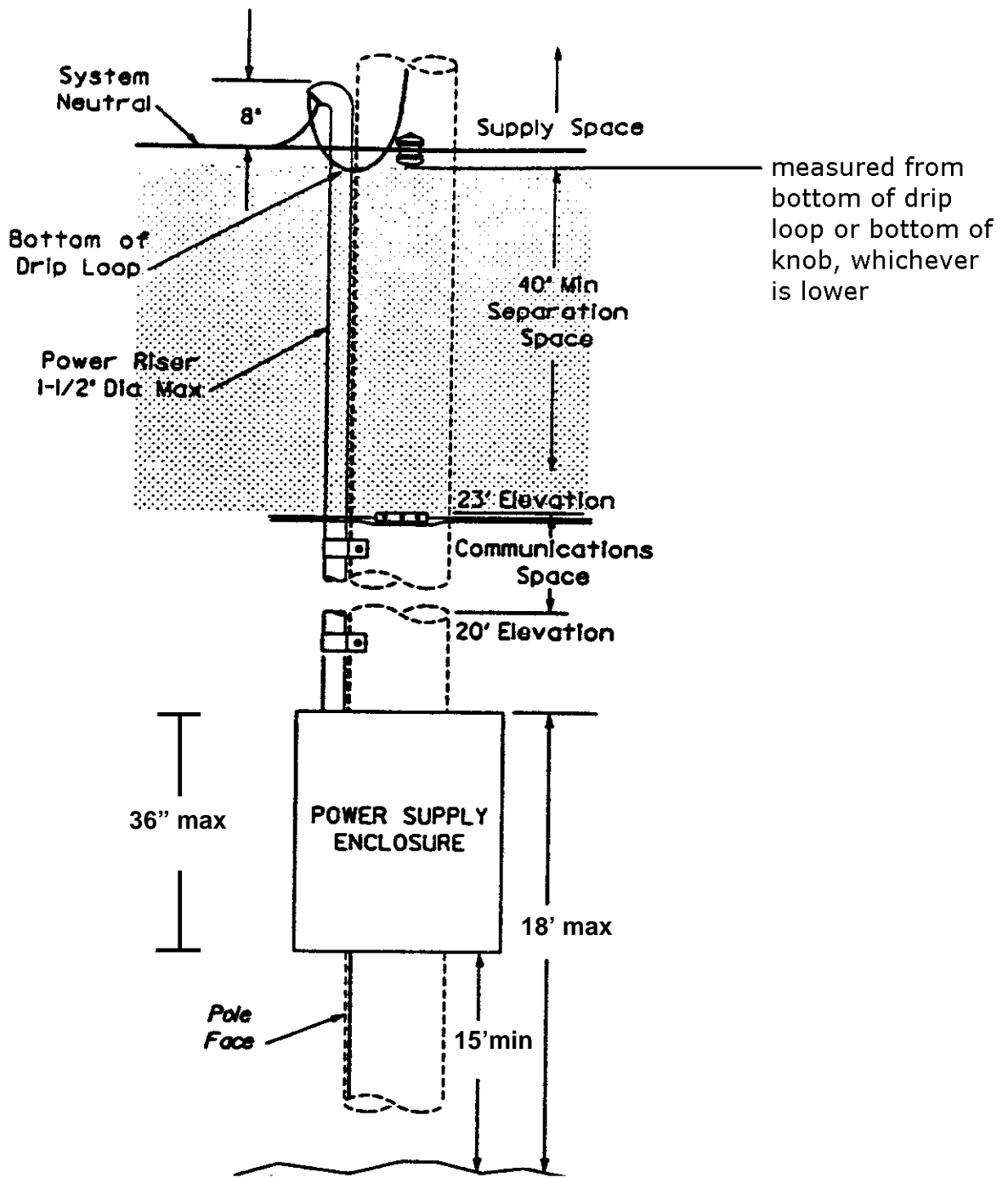


FIGURE 5: POWER SUPPLY ENCLOSURES

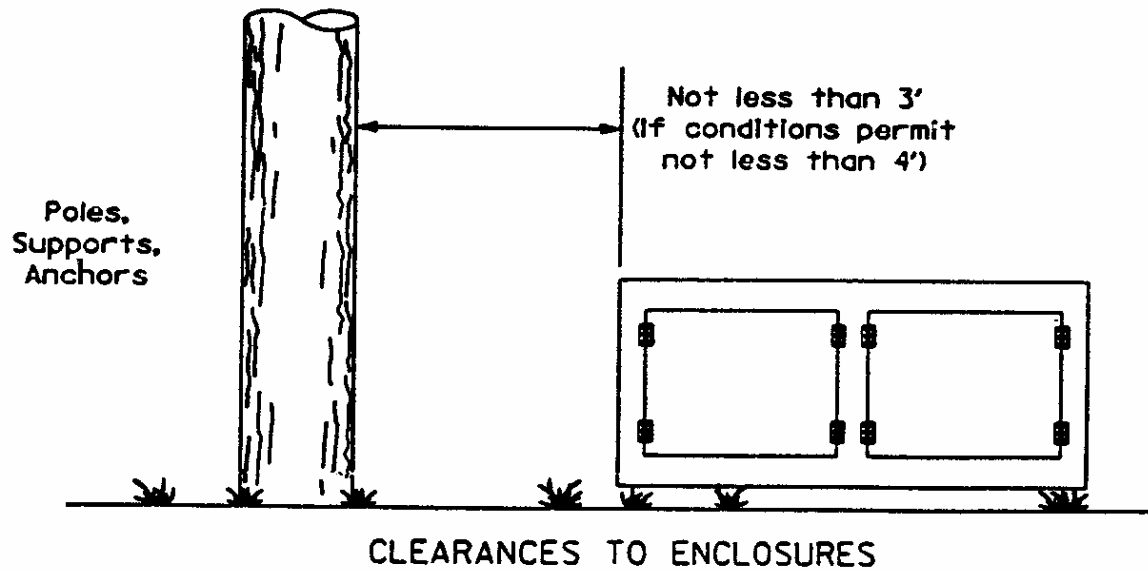
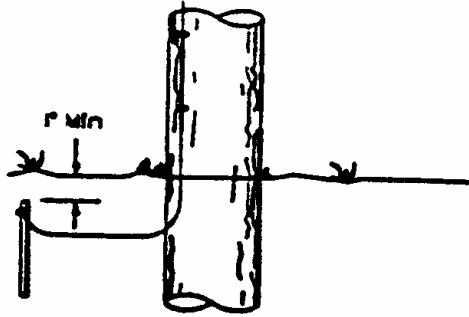


FIGURE 6: PEDESTAL-MOUNTED  
COMMUNICATIONS ENCLOSURE

To System Neutral and Secondary Neutral

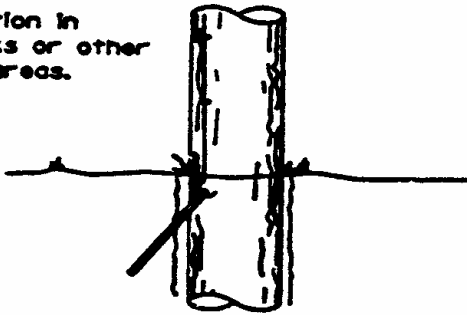
To Transformer

Do Not Tape This Connection

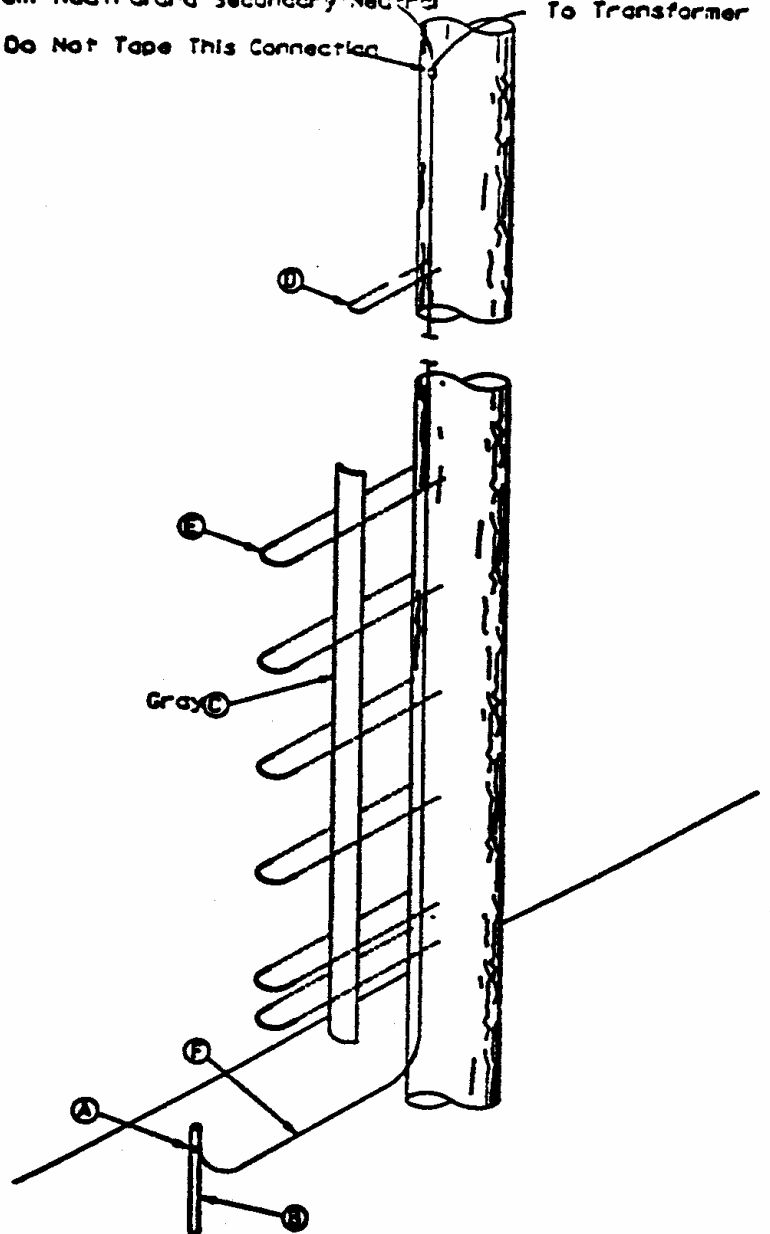


Ground rod must be driven in undisturbed soil and below ground level. The grounding conductor also must be below ground level from the pole to the ground rod.

Installation in sidewalks or other paved areas.



It may be necessary to install the ground rod at a slight angle to properly secure the rod in undisturbed soil.



NOTE: Communication utilities often attach bonds to PGE pole ground wires to enable compliance with NESC 215 C 3.

ITEM	STORES CODE	DESCRIPTION	QUANTITY
A	1-16-525	Ground Rod Clamp	1
B	1-46-221	3/8" x 8' Galv. Ground Rod	1
C	1-65-500	8" Plastic Molding	1
D	5-45-555	1 1/2" Long Staple	18
E	5-45-663	3" Long Staple - 1/4" Opening	5
F	6-07-230	No. 4 Bare Copper - Soft Drawn	30'

FIGURE 7: GROUNDING

NOTE: Banners and decorative attachments are subject to a separate PGE Policy & Application for Banners and Decorative Attachments. Contact PGE Utility Asset Management for assistance.

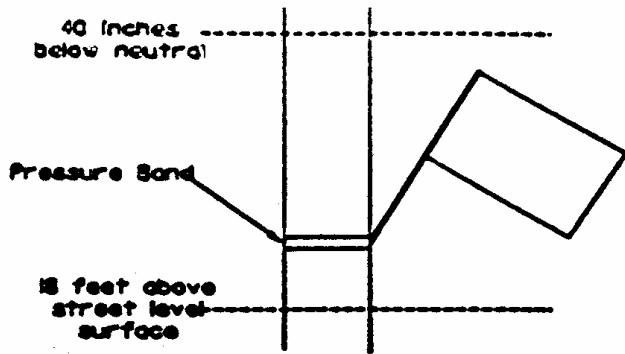


FIGURE 8: SINGLE POLE FLAG

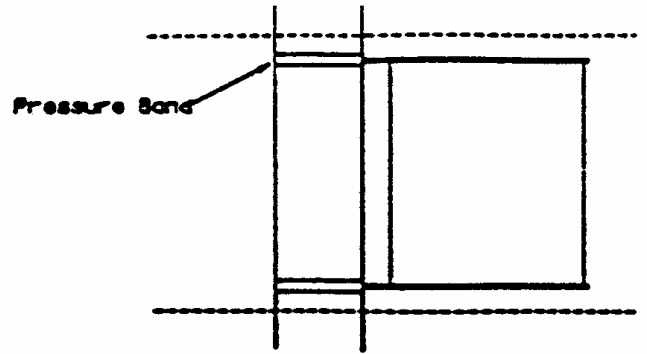


FIGURE 9: SINGLE TOP/BOTTOM HANGER BANNER

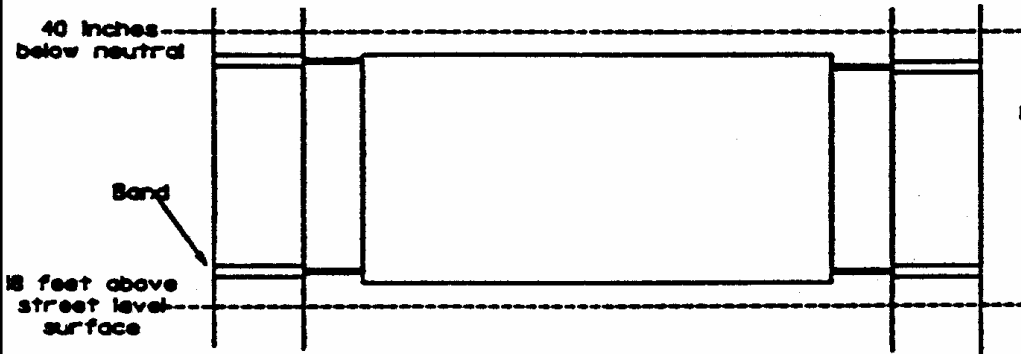


FIGURE 10: CROSS STREET BANNER

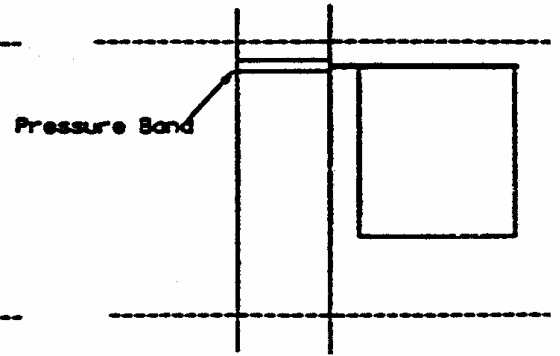


FIGURE 11: SINGLE TOP HANGER BANNER

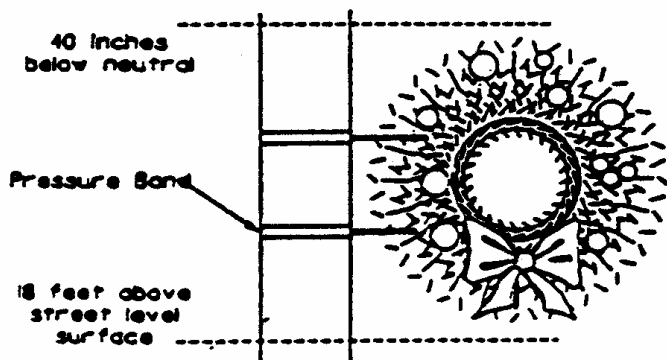


FIGURE 12: HOLIDAY DECORATION

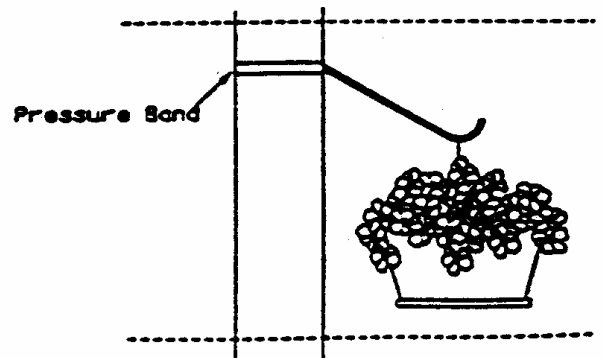


FIGURE 13: FLORAL BASKET

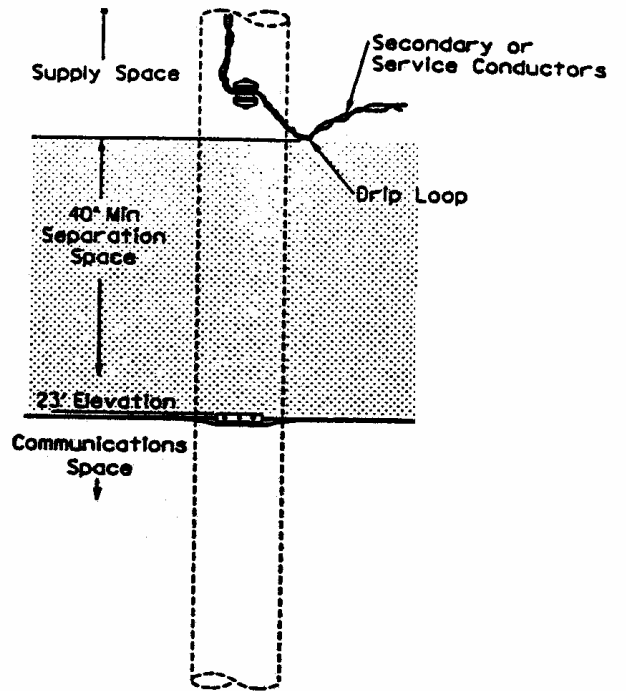
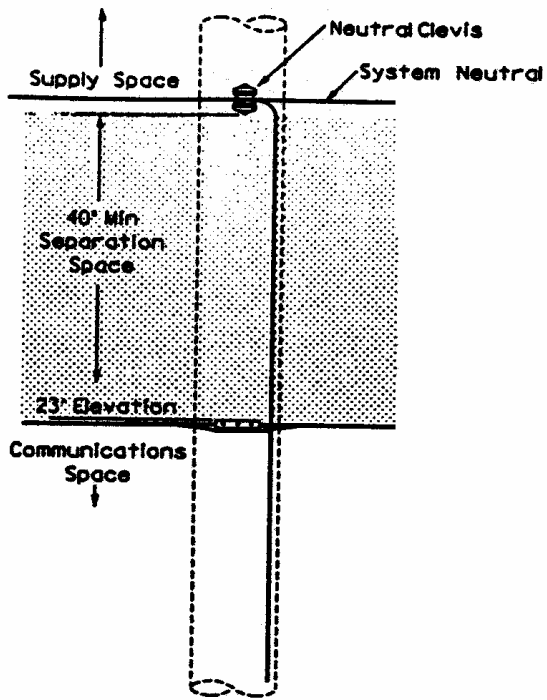


FIGURE 14

DISTRIBUTION CLEARANCES  
(AT SUPPORTS)

FIGURE 15

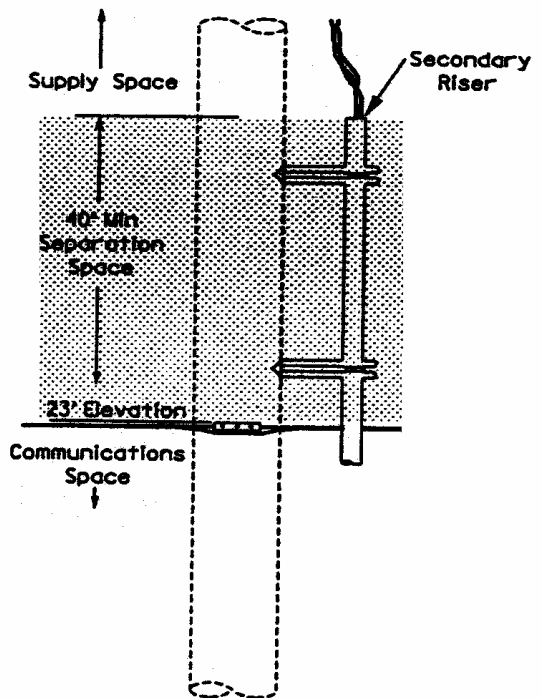
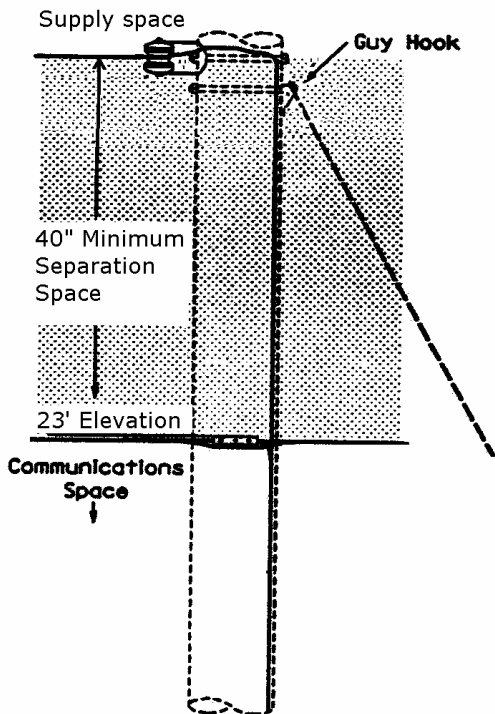


FIGURE 16

FIGURE 17

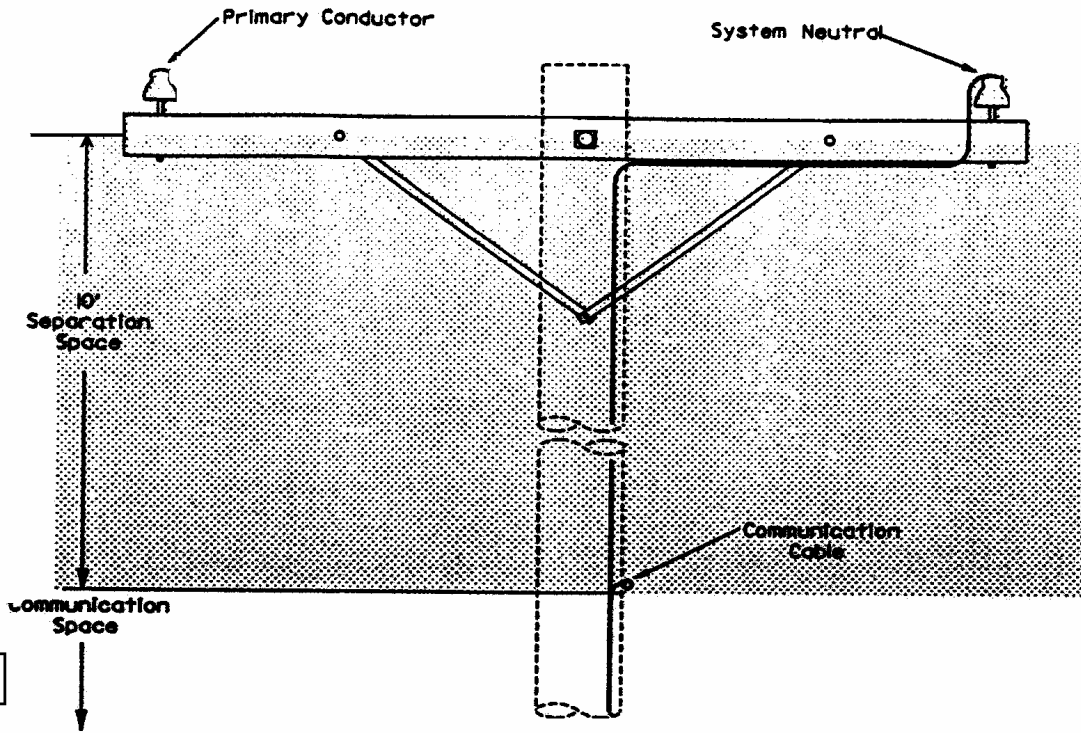


FIGURE 18

DISTRIBUTION CLEARANCES  
(AT SUPPORT AND AT MIDSPAN)

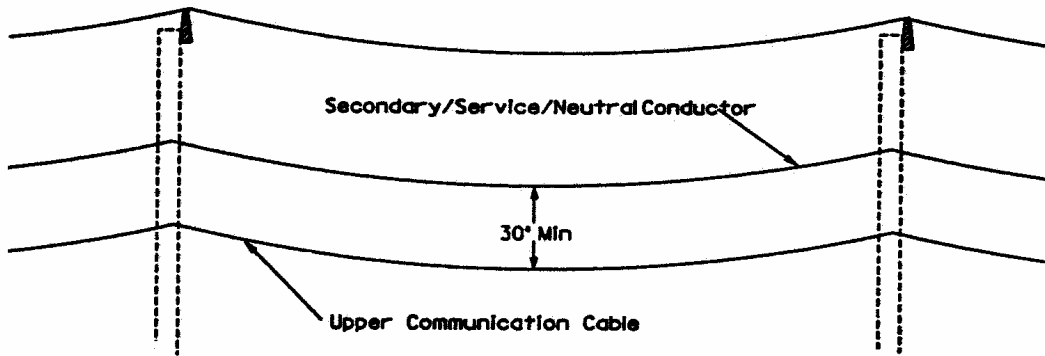


FIGURE 19

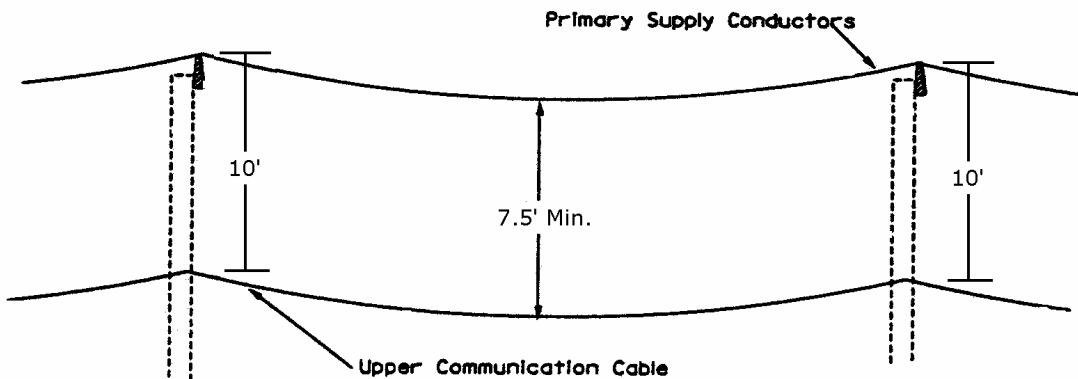


FIGURE 20

For voltages less than 50KV, clearance is 7.5' at midspan. For voltages between 50KV and 814KV, the clearance shall be increased 0.4" per KV at support end and 75% of that at mid-span.

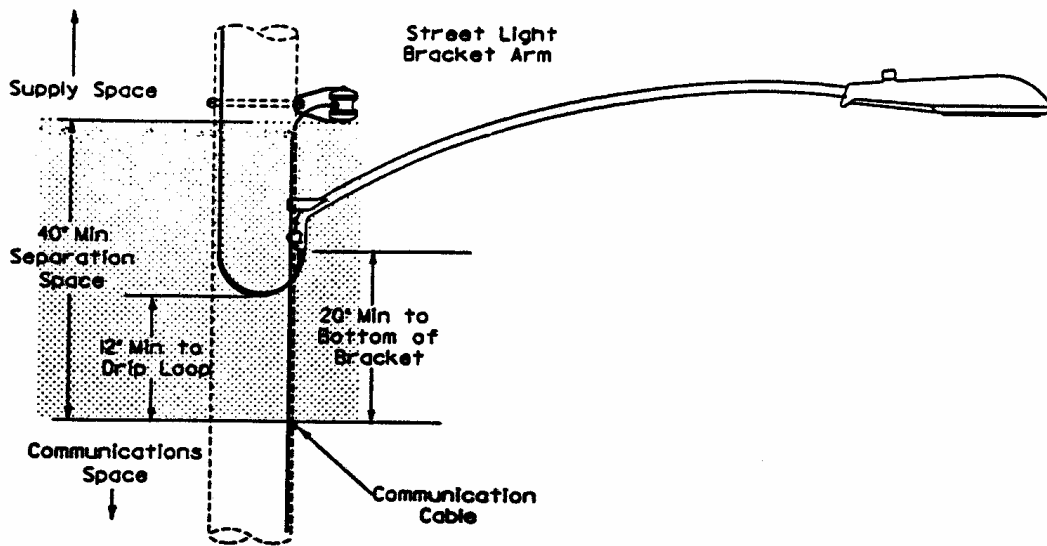


FIGURE 21

STREETLIGHT AND TRAFFIC SIGNAL CLEARANCES

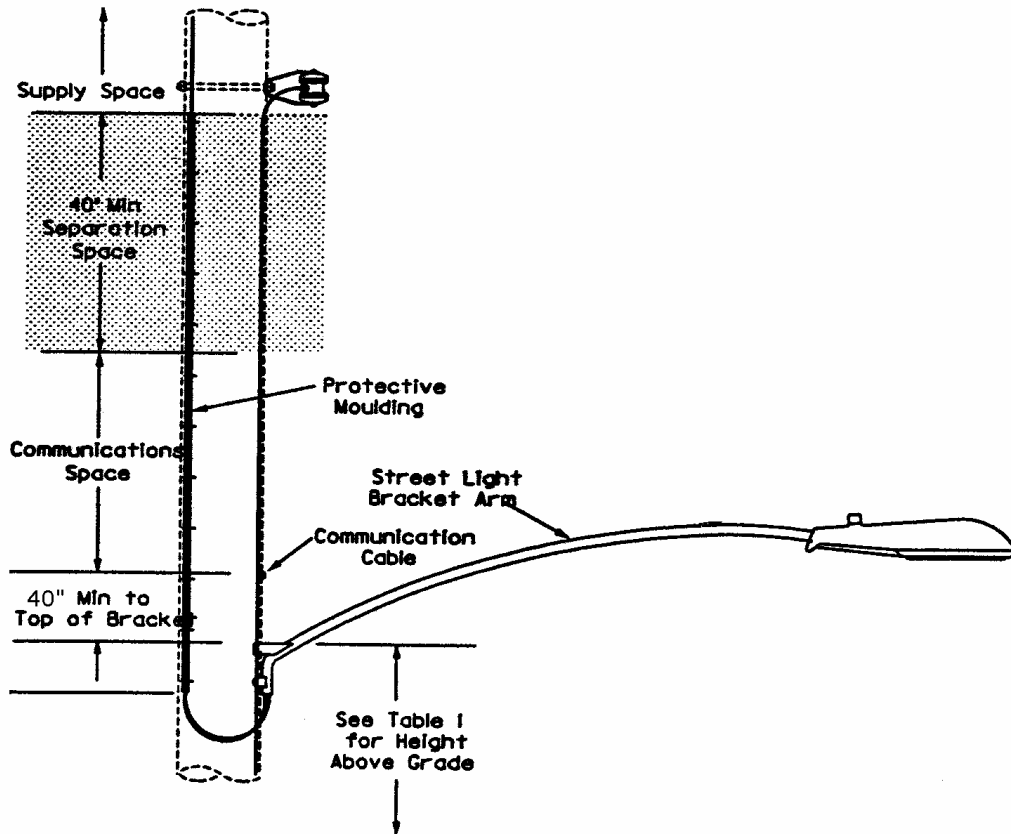


FIGURE 22

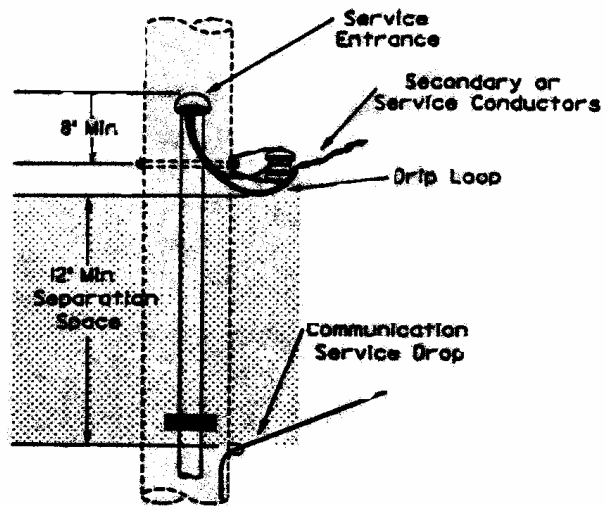


FIGURE 23: SERVICE ENTRANCE CLEARANCE

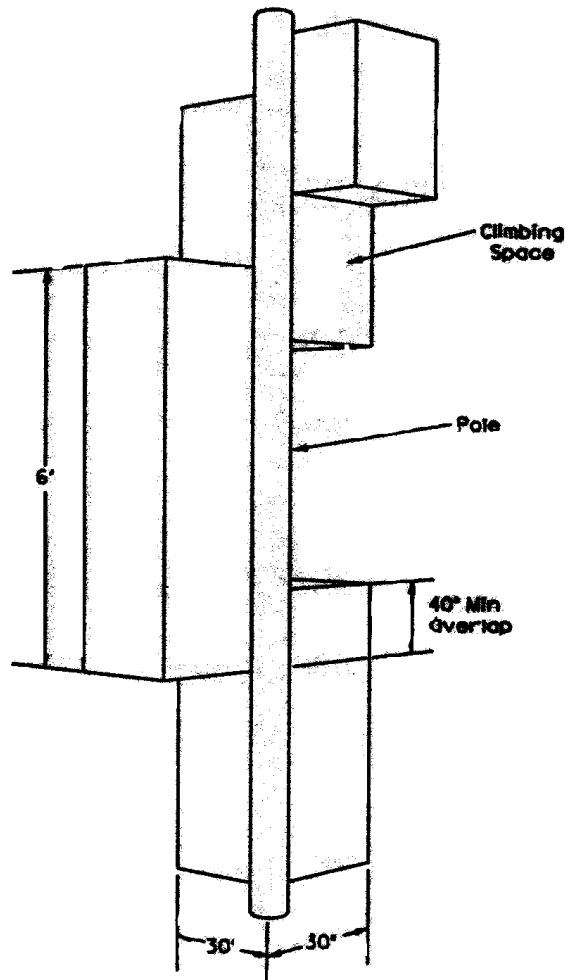


FIGURE 24: CLIMBING SPACE

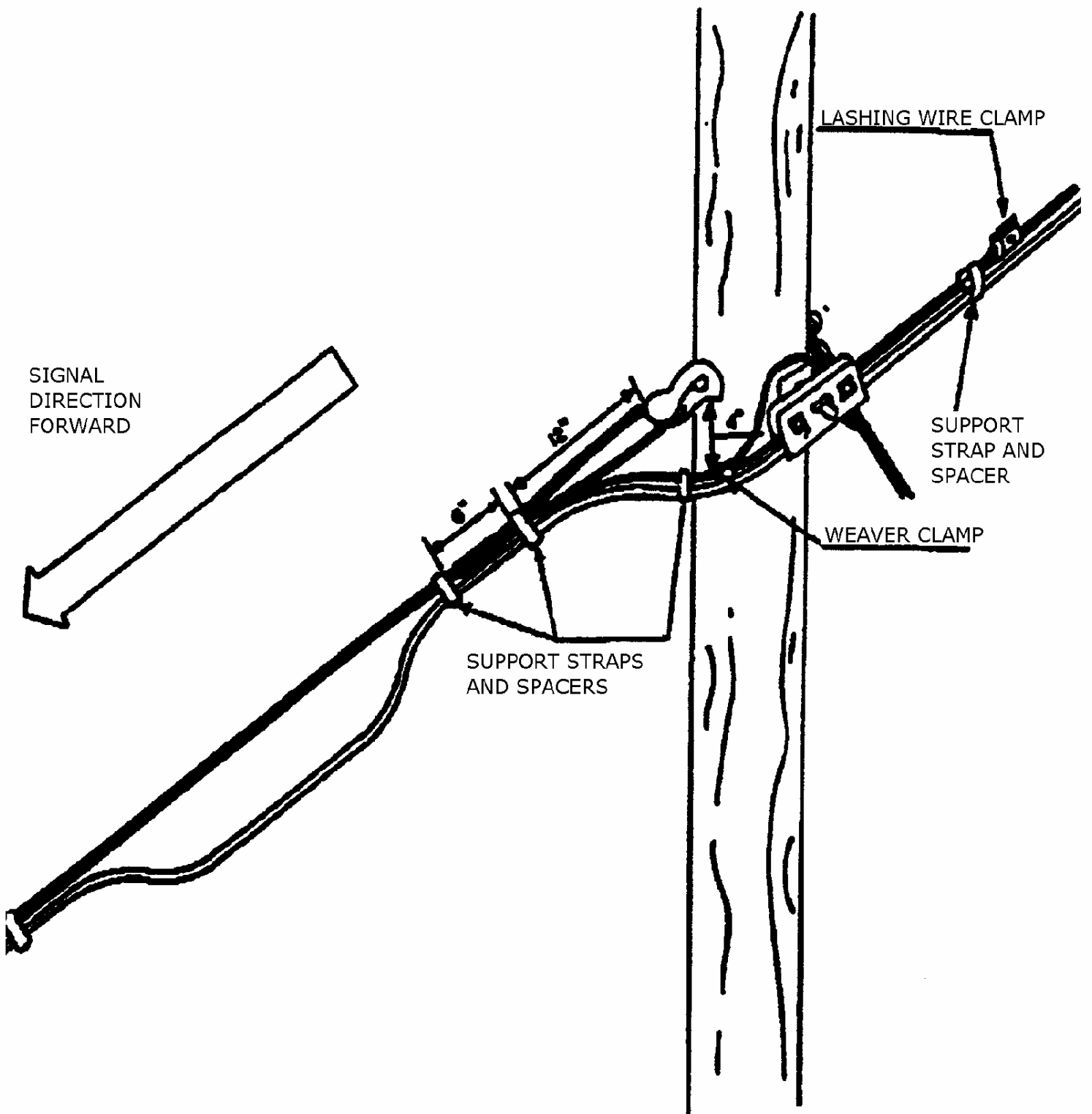


FIGURE 25: FALSE DEAD END FOR SLACK SPAN  
= 1 Attachment (assumes one through-bolt), plus flat rate fee for use of PGE anchor. See Exhibit C.

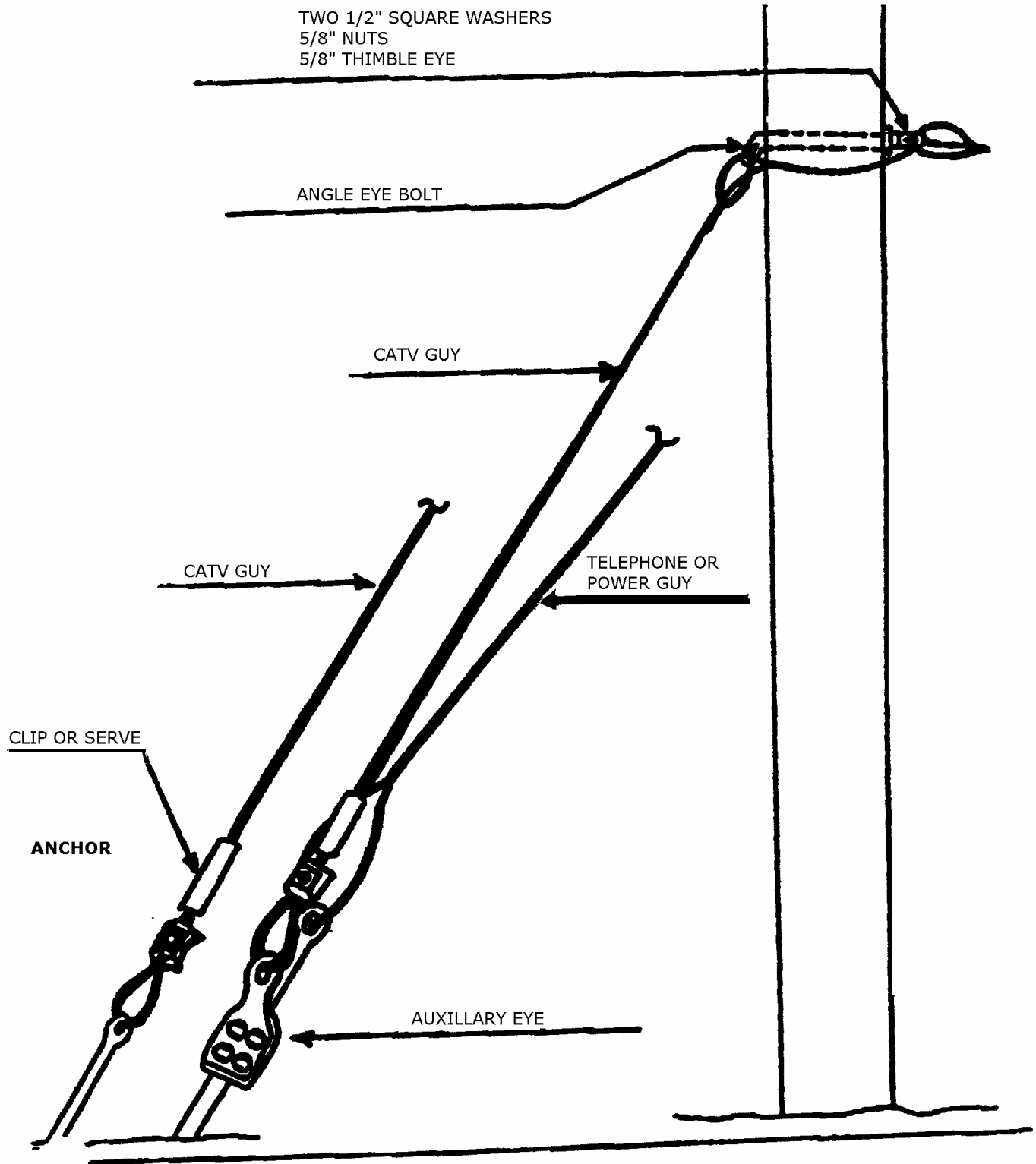


FIGURE 26: POLE FRAMING - DEAD END POLE WITH GUY  
 = 1 Attachment (when off of a common bolt), plus flat rate fee for use of PGE anchor.  
 See Exhibit C.

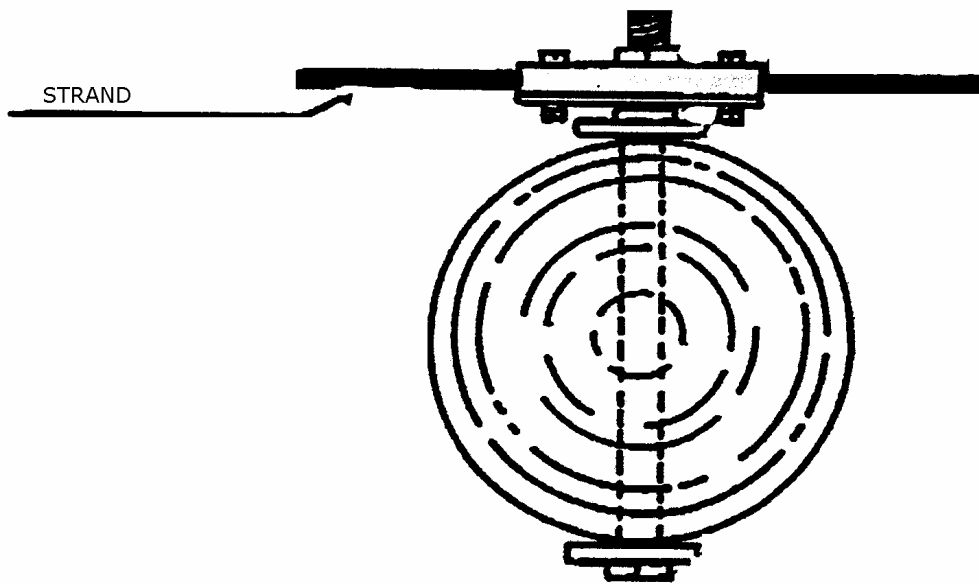


FIGURE 27: STRAIGHT-LINE CONSTRUCTION, A.K.A. TYPICAL POLE ATTACHMENT

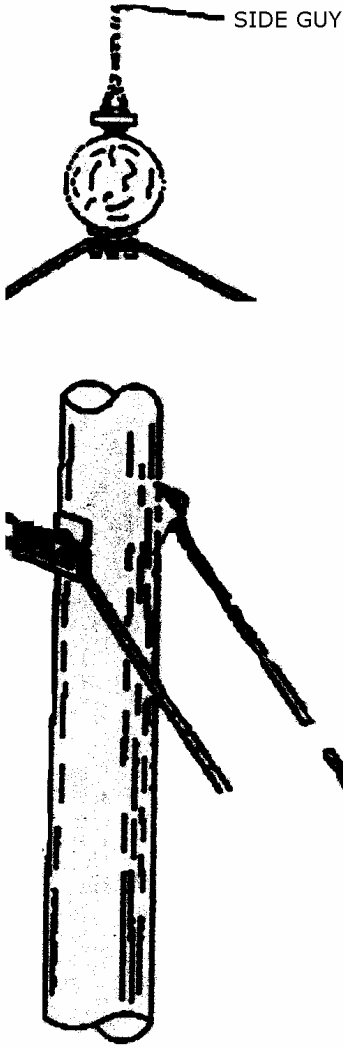


FIGURE 28: SIDE GUY  
=1 Attachment, plus flat rate fee for use of PGE anchor. See Exhibit C.

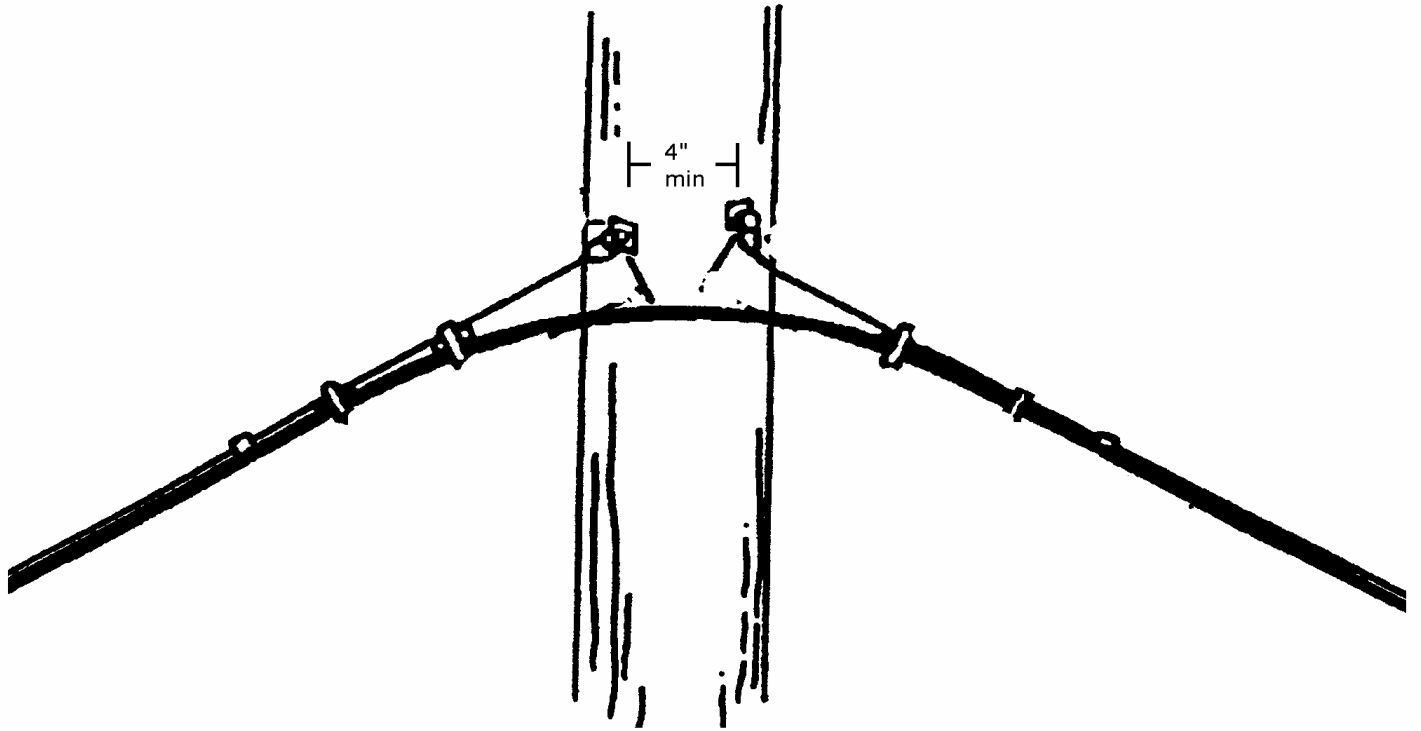
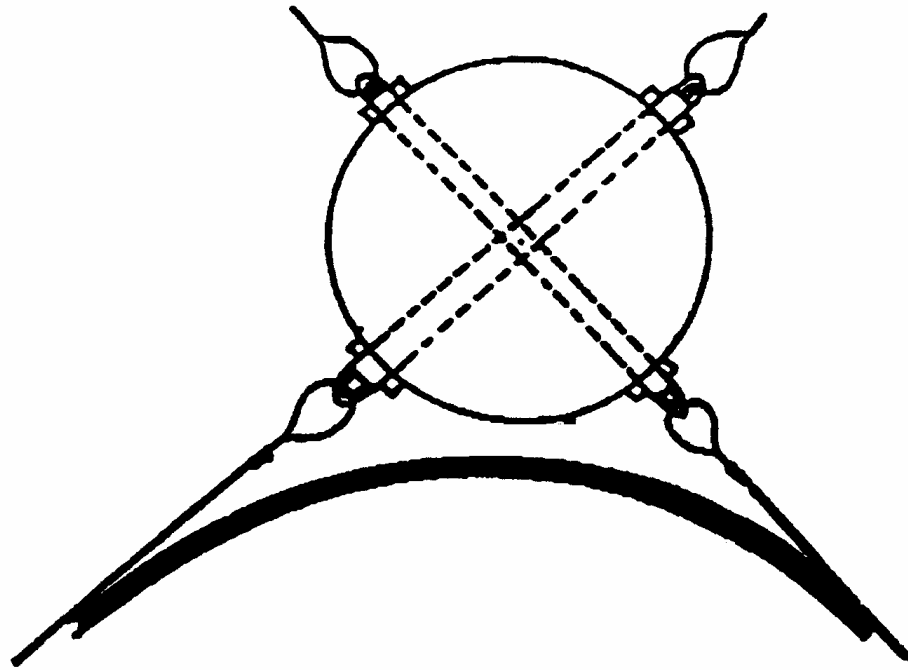


FIGURE 29: RIGHT-ANGLE CORNER, A.K.A. 90-DEGREE CORNER  
= 1 Attachment (assumes bolt spacing between 4" and 8"), plus flat rate fee for use of each PGE anchor. See Exhibit C.

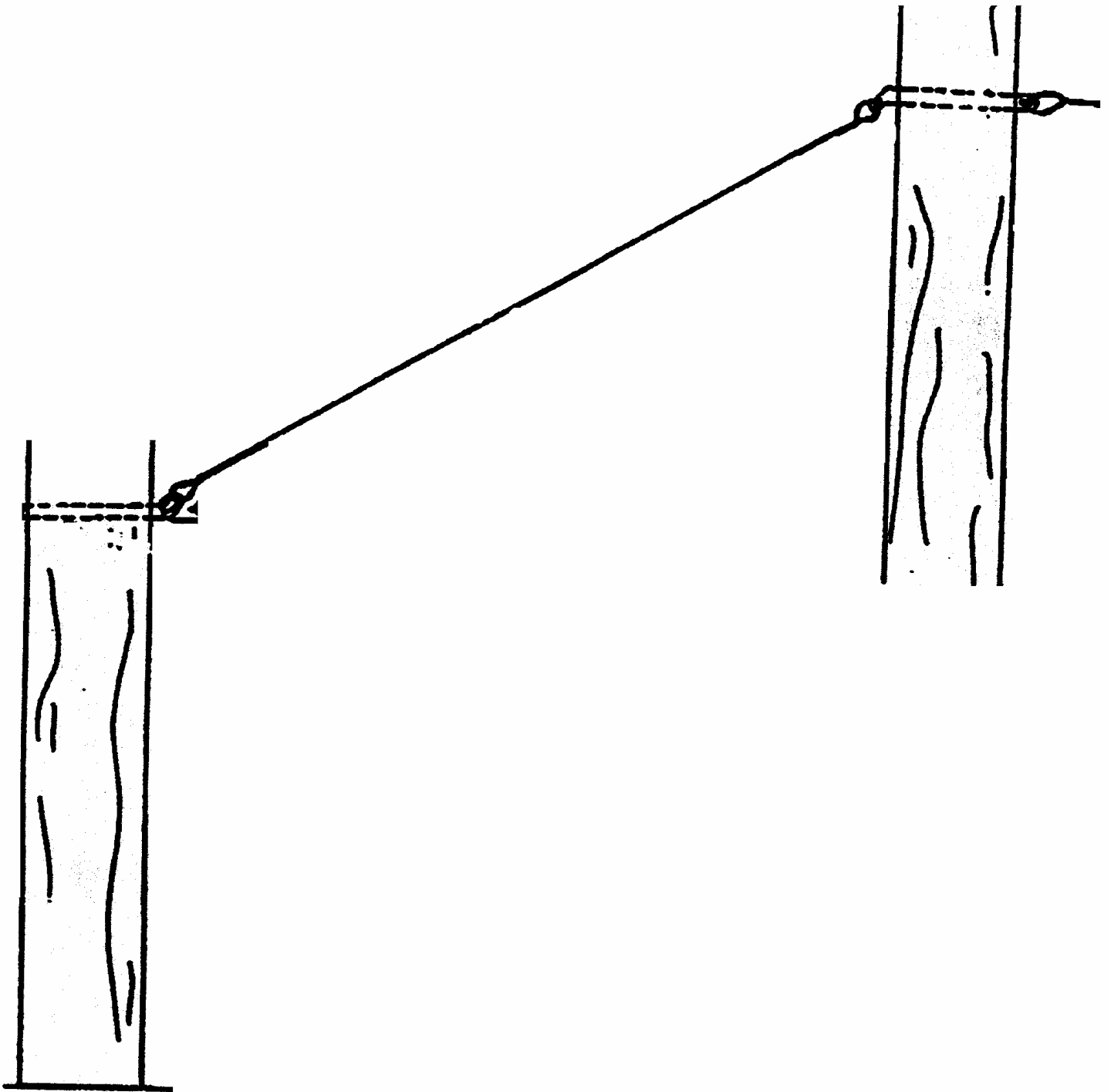


FIGURE 30: POLE TO POLE GUY  
= 1 Attachment per pole.

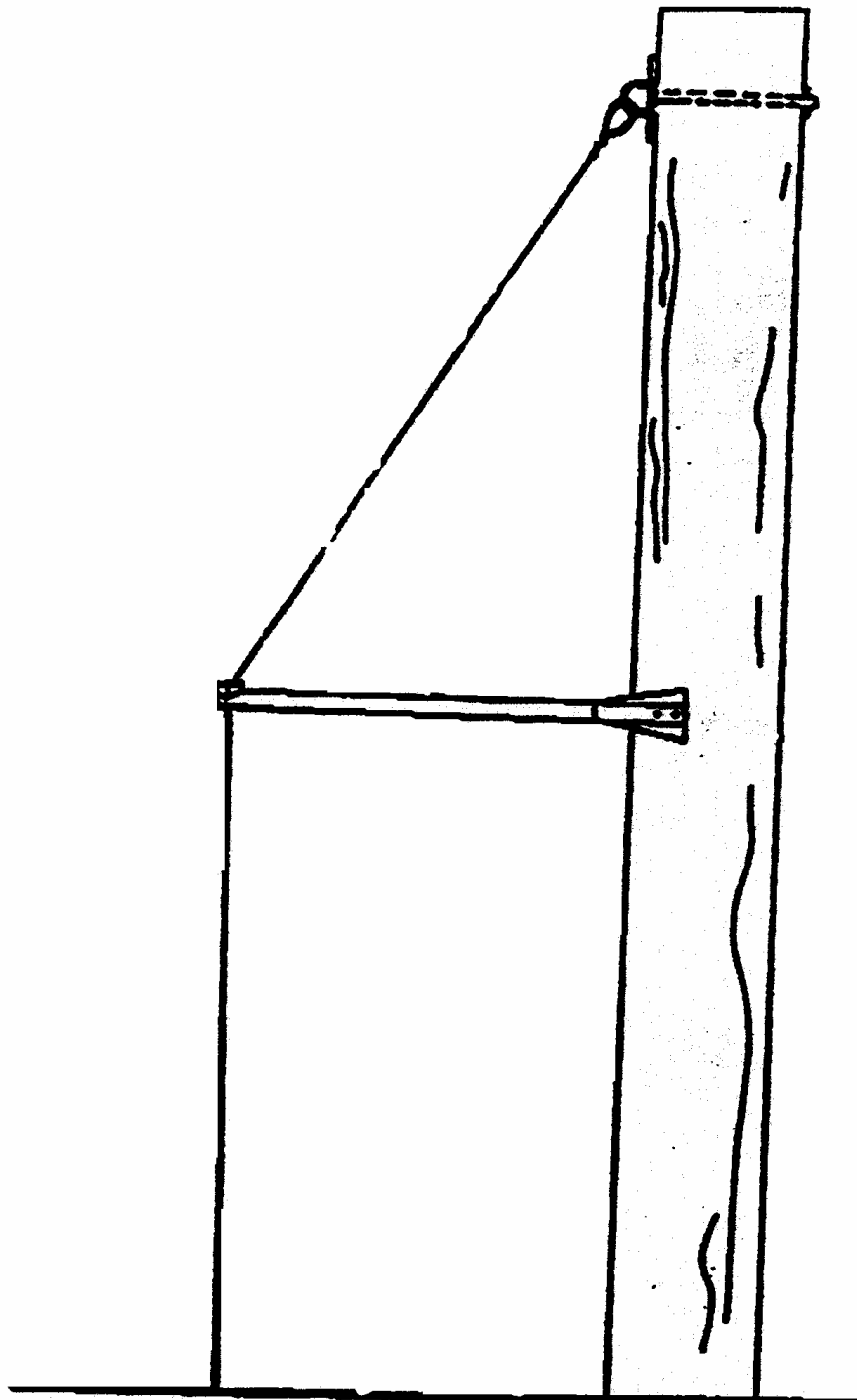


FIGURE 31: SIDEWALK ANCHOR & GUY  
= 1 Attachment, plus flat rate fee for use of PGE anchor. See Exhibit C.

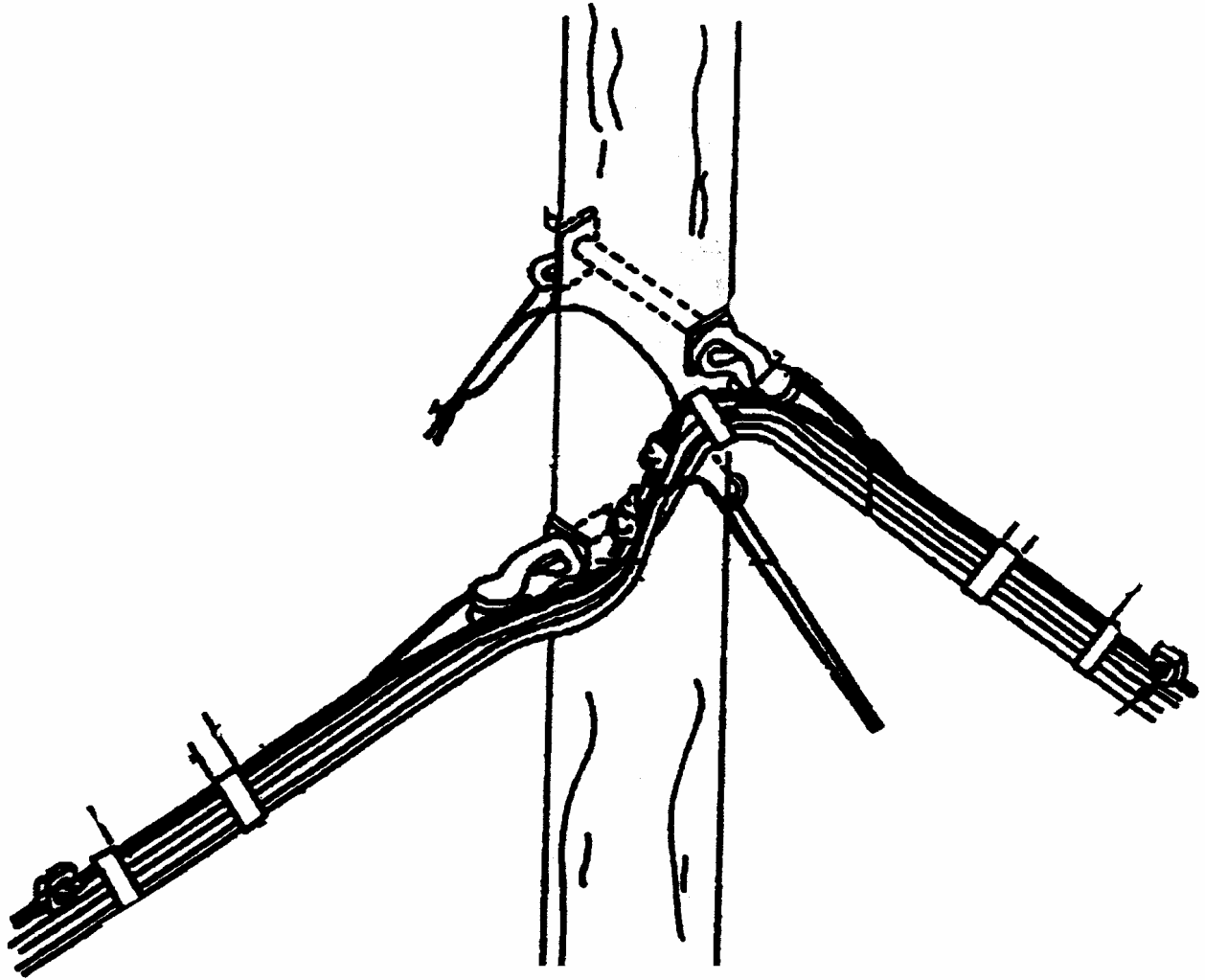


FIGURE 32: DOUBLE DEAD END  
= 1 Attachment (assumes one through-bolt), plus flat rate fee for use of PGE anchor.  
See Exhibit C.

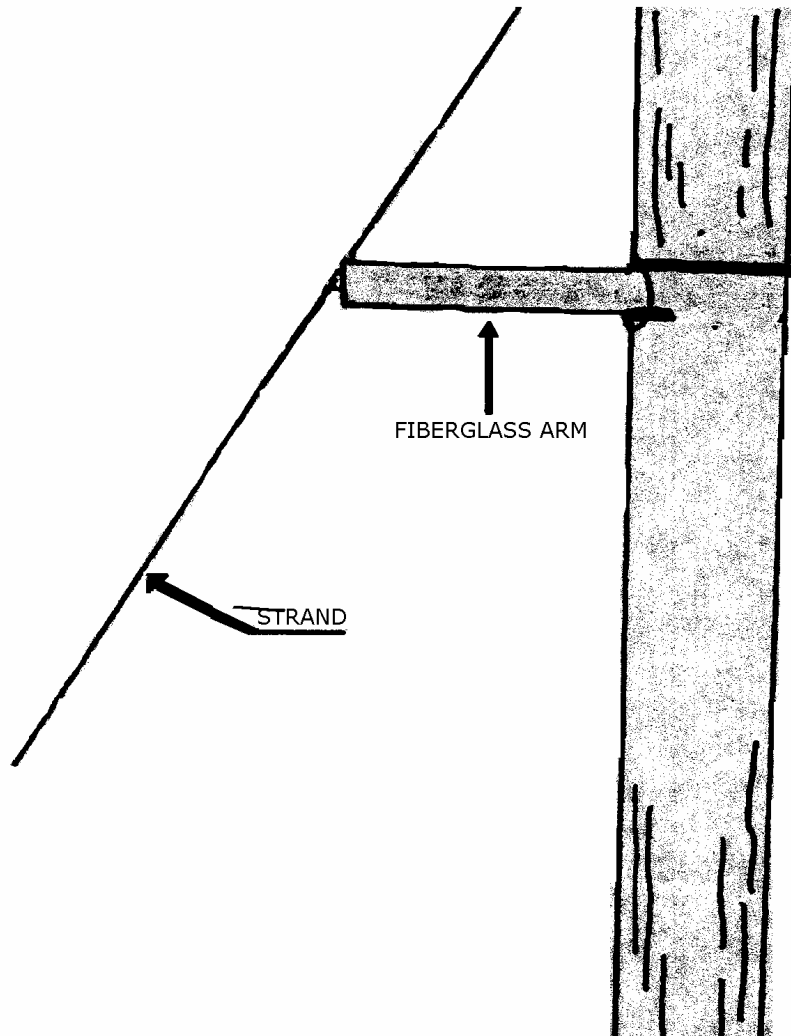


FIGURE 33: FIBERGLASS ARM  
= 1 Attachment.

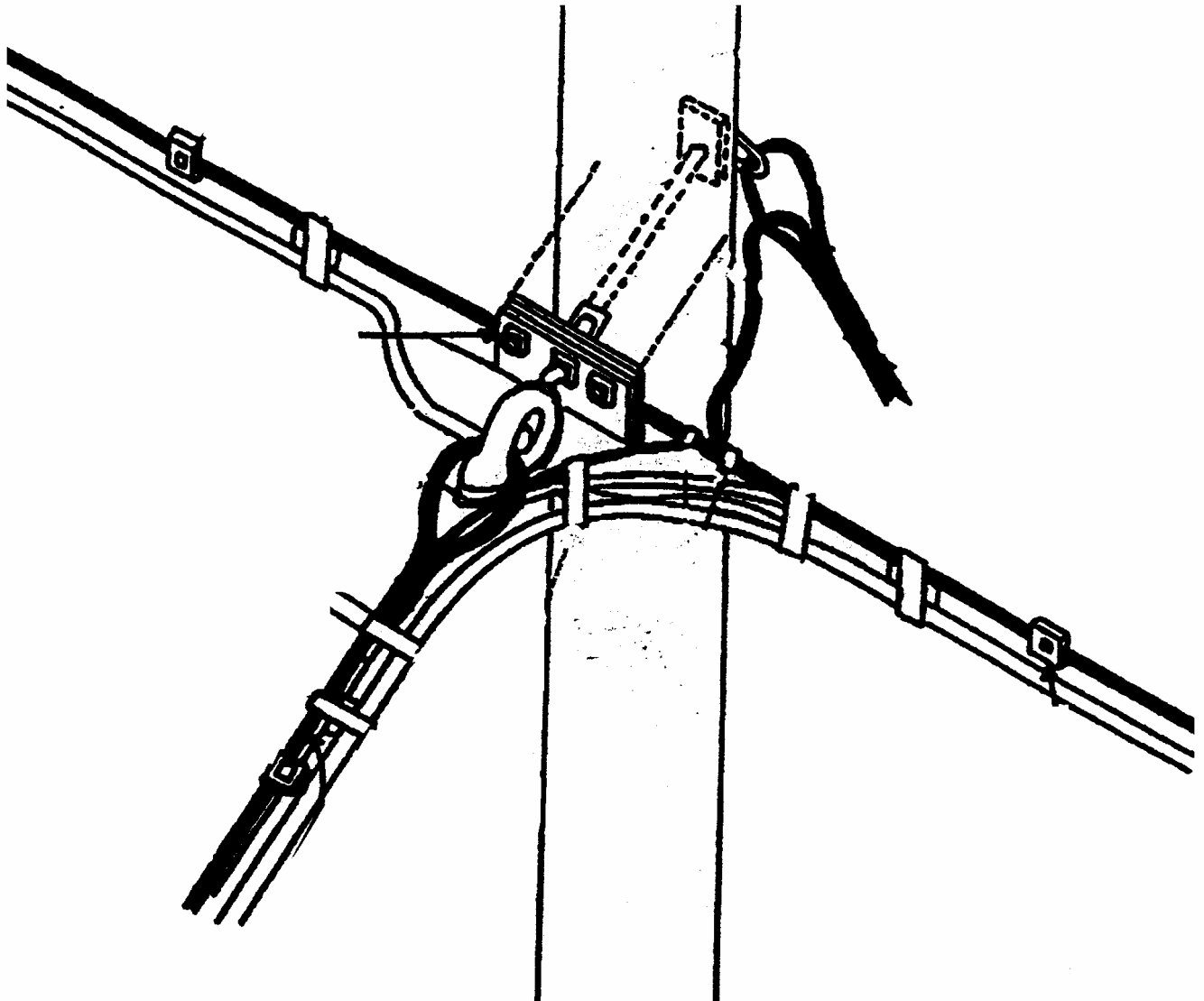


FIGURE 34: BRANCH STRAND TERMINATION, A.K.A. DEAD END WITH THROUGH-PIN = 1 Attachment (assumes one through-bolt), plus flat rate fee for use of PGE anchor. See Exhibit C.

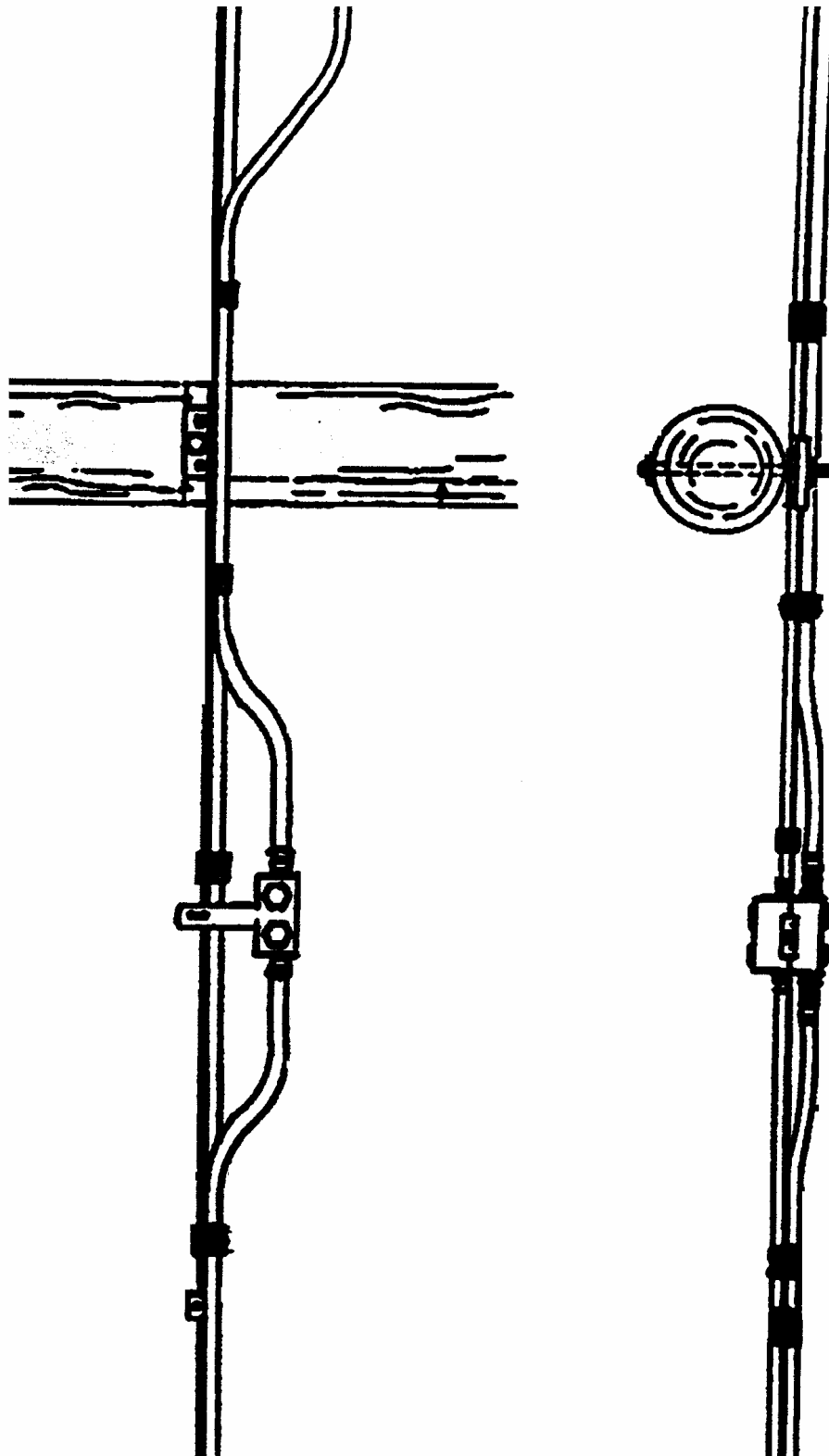


FIGURE 35: MULTI-CABLE RUN

= 1 Attachment for initial permit/installation only. All subsequent additions and/or overlappings require separate permitting and annual attachment fee.

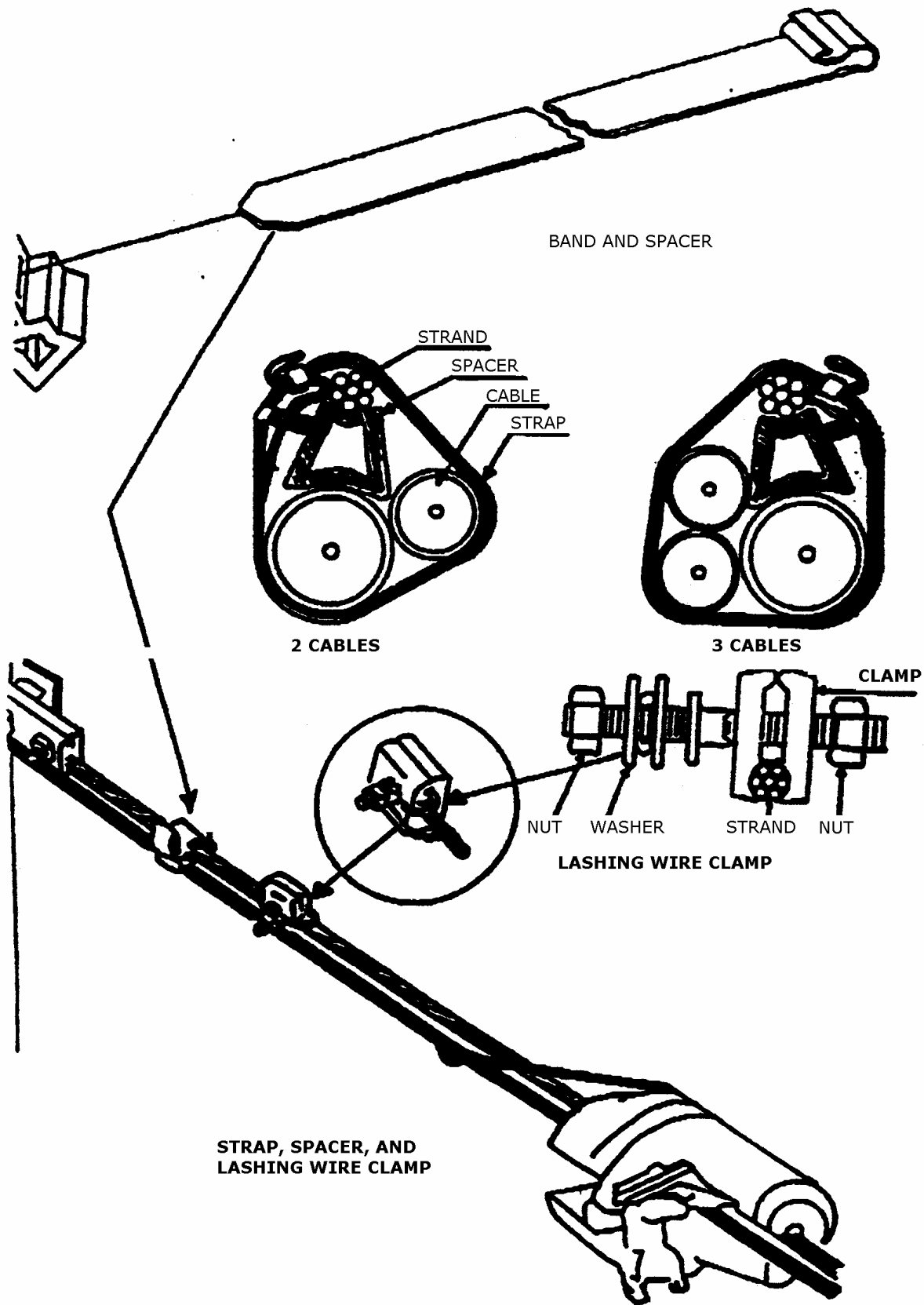


FIGURE 36: MULTI-CABLE RUN (INCLUDING HFC CONFIGURATIONS)  
 = 1 Attachment for initial permit/installations only. All subsequent additions and/or overlashings  
 require separate permitting and annual rent.

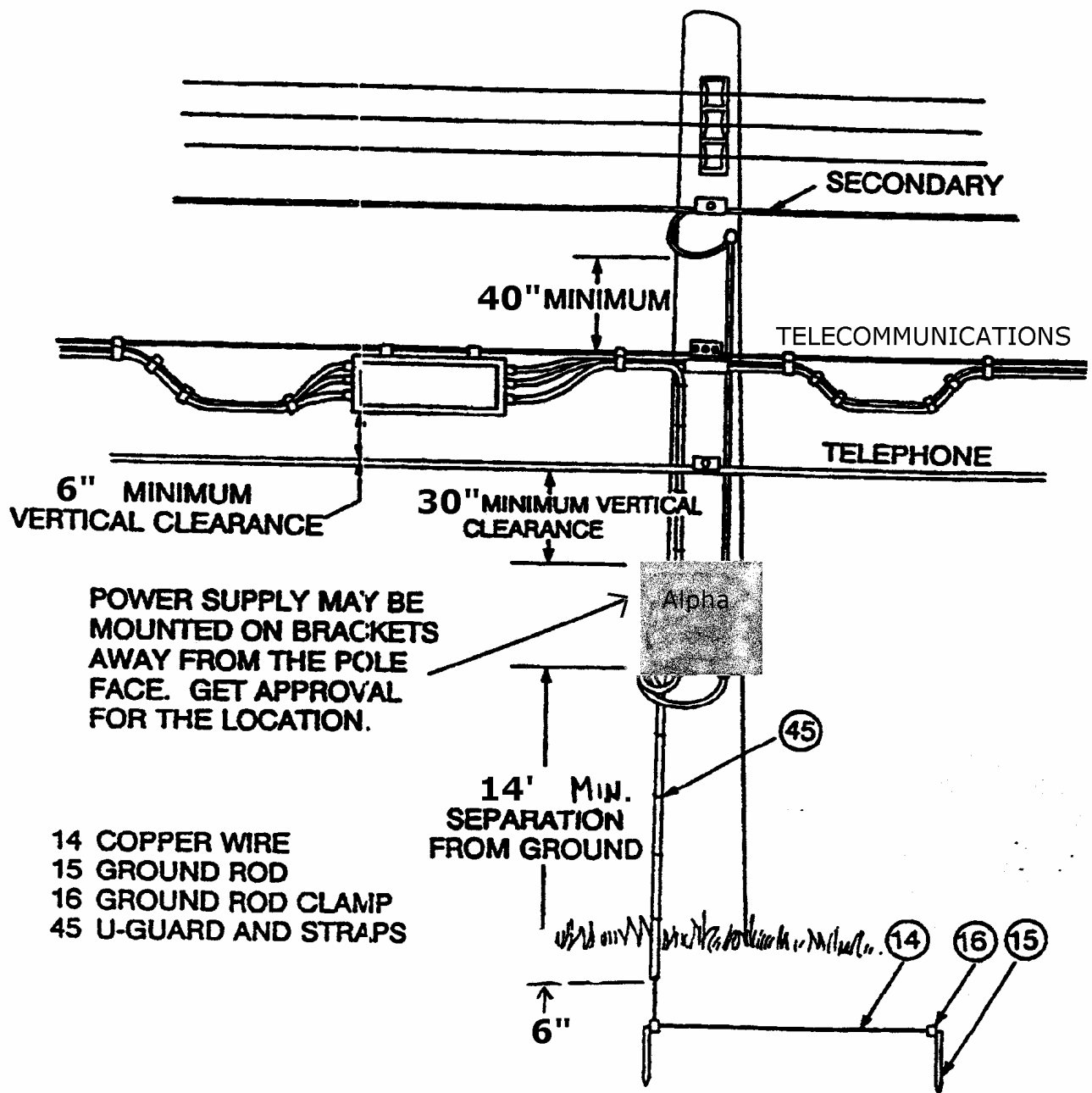


FIGURE 37: POWER SUPPLY = 1 Attachment.

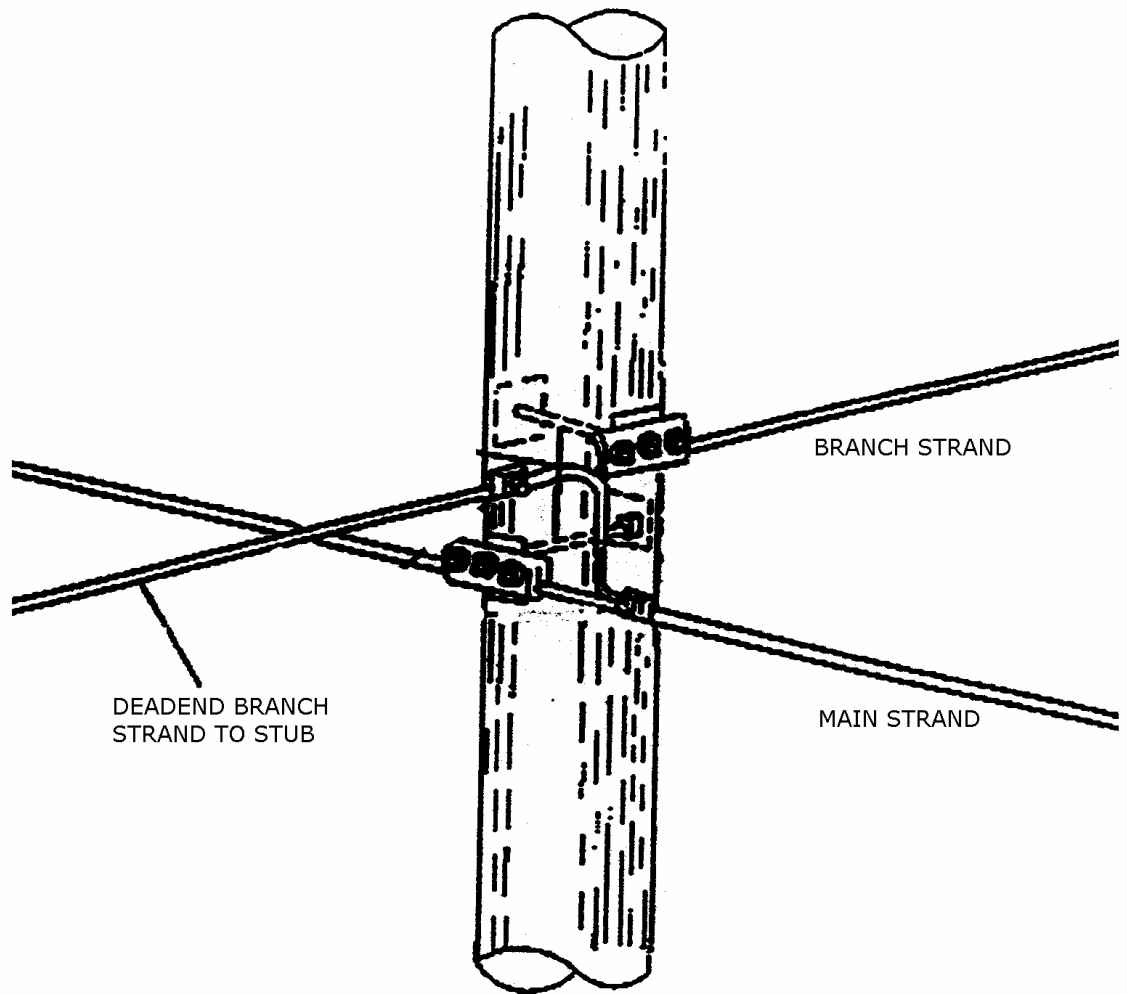


FIGURE 38: CROSS OVER AT POLE  
= 2 Attachments.

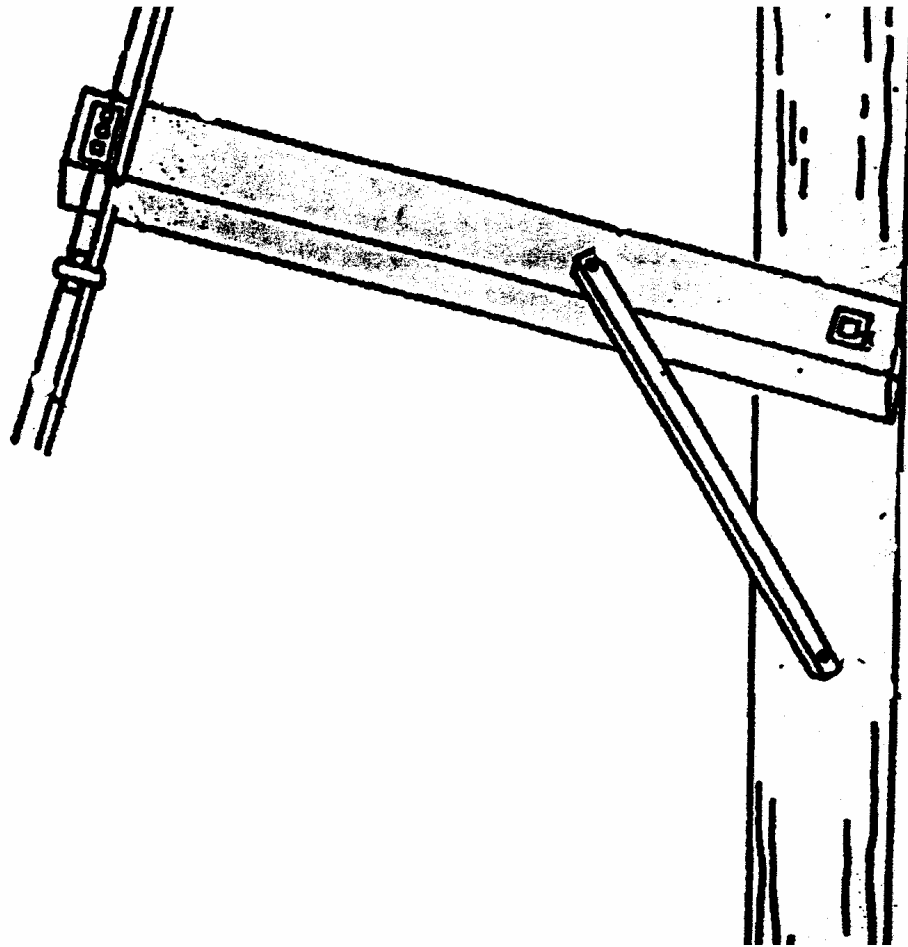


FIGURE 39: ALLEY ARM, A.K.A. EXTENSION ARM  
= 1 Attachment for extension arm w/ brace, + 1 Attachment per conductor (total: 2 contacts).

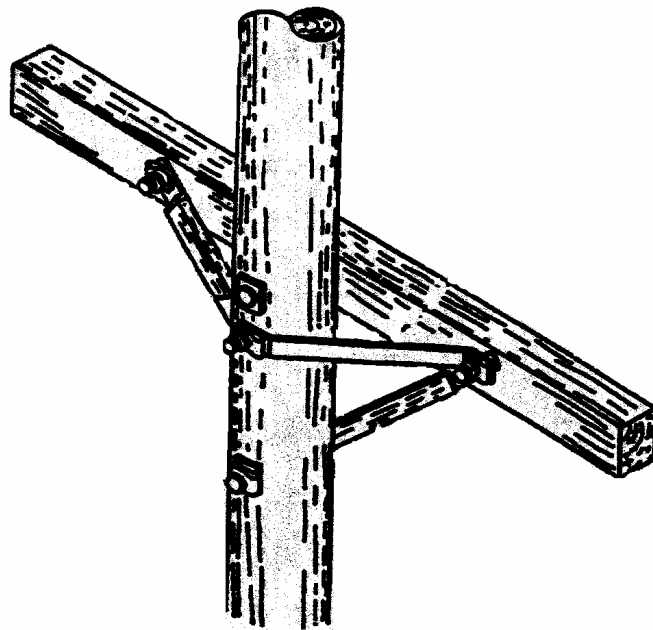


FIGURE 40: CROSS ARM  
= 1 Attachment for cross arm w/ brace, + 1 Attachment per conductor (total: 2 contacts).

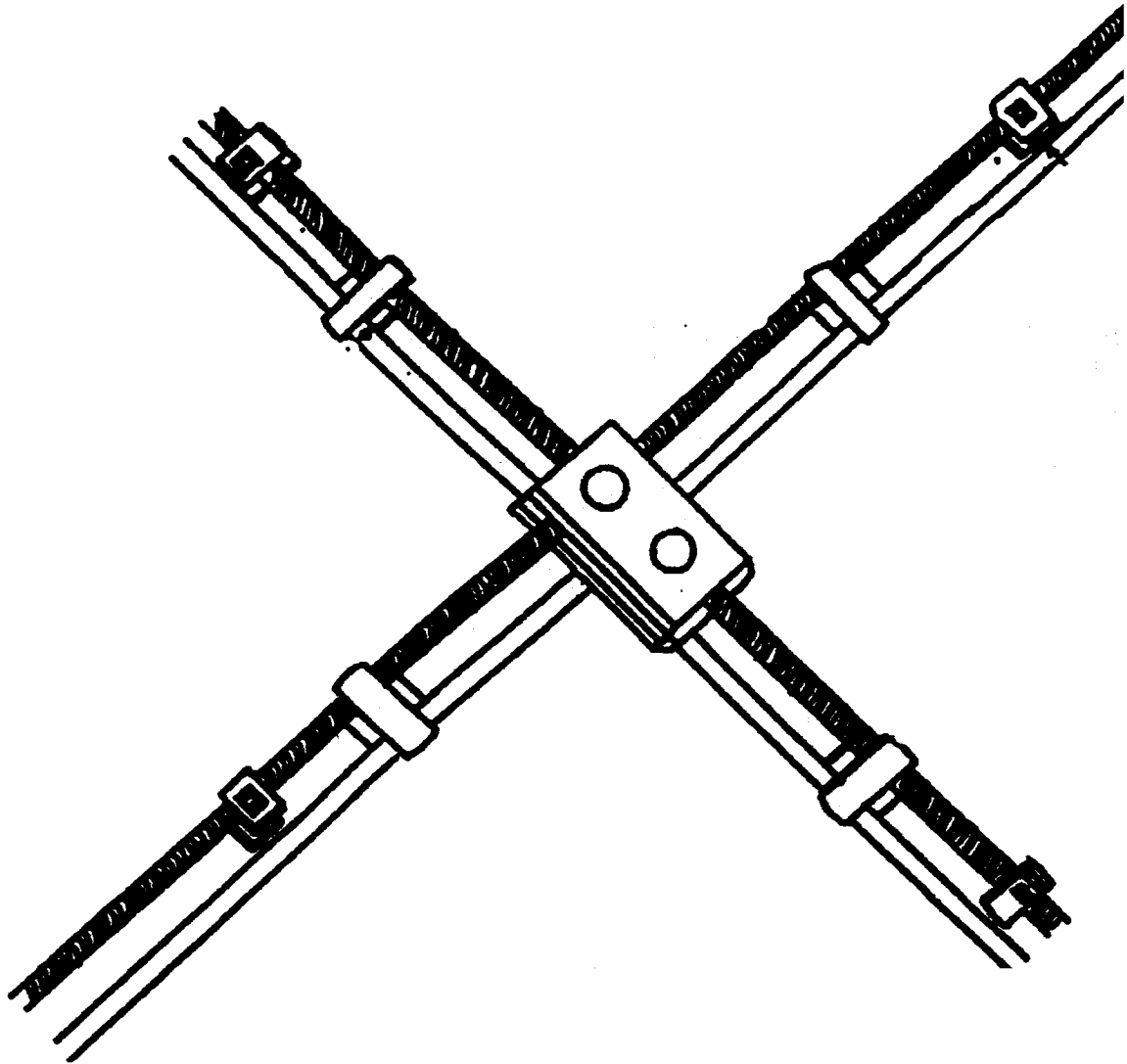


FIGURE 41: MID-SPAN CROSSOVER  
= 1 Attachment, assessed to the nearest PGE pole.

