

# **EXHIBIT**

## **LL-13**

# Joint Use Attachment Specifications

for the

## Blue Ridge EMC Overhead Distribution System



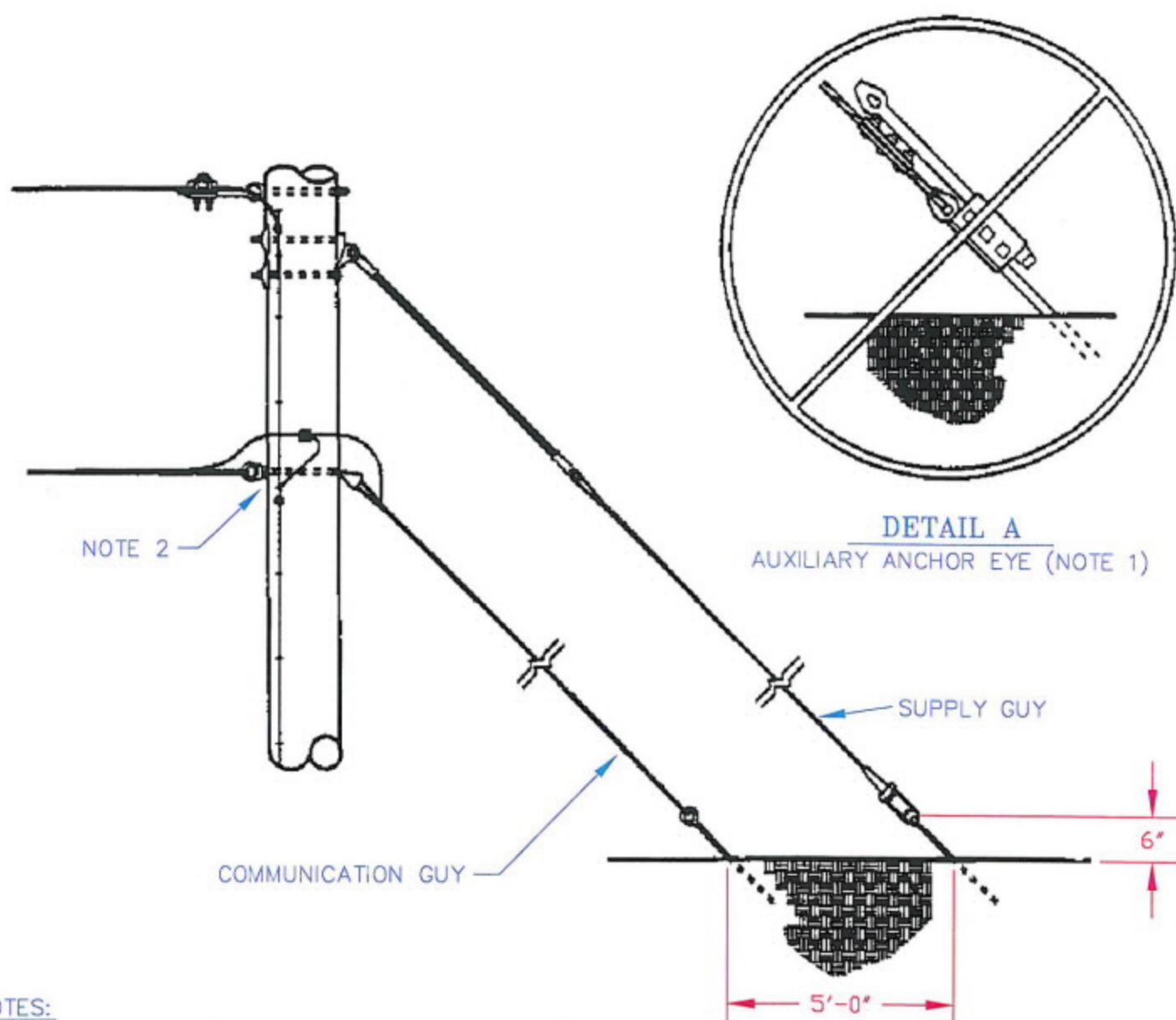
1216 Blowing Rock Boulevard, NE PO Box 112  
Lenoir, North Carolina 28645

Caldwell District Office  
219 Nuway Circle, NE  
Lenoir, NC 28645  
(828) 754-9071

Watauga District Office  
2491 US Hwy. 421 S.  
Boone, NC 28607  
(828) 264-8894

Ashe District Office  
716 Mount Jefferson Rd.  
West Jefferson, NC 28694  
(336) 246-7138

Alleghany District Office  
1889 Hwy. 21 S.  
Sparta, NC 28675  
(336) 372-4646



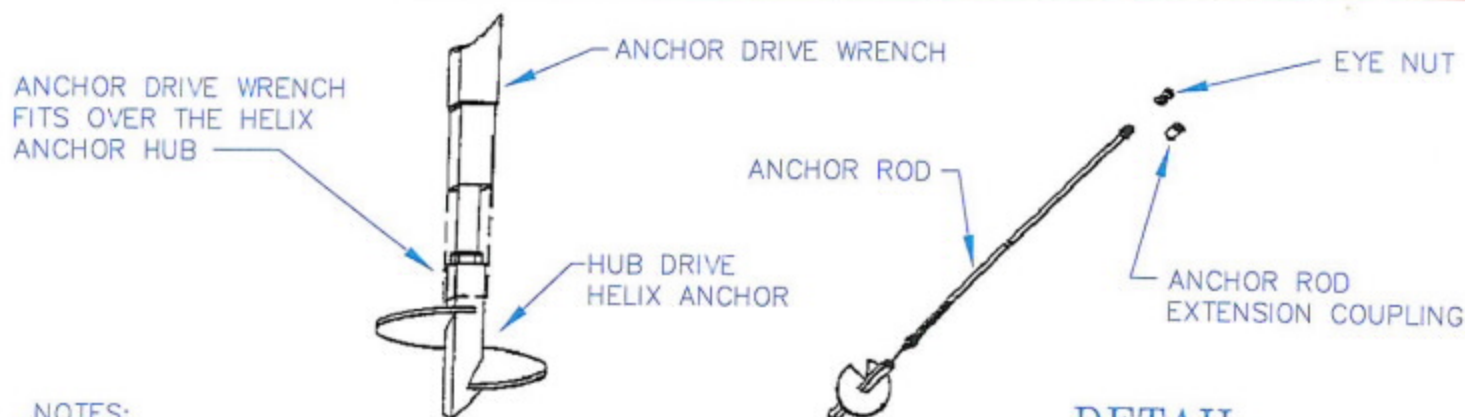
#### NOTES:

1. EACH COMPANY (SUPPLY AND COMMUNICATION) SHALL INSTALL INDEPENDENT GUYS AND ANCHORS FOR THEIR RESPECTIVE FACILITIES: CASE BY CASE APPROVAL MAY BE GRANTED TO ATTACH TO POWER COMPANY ROD IF EXISTING. GUY ROD IS OF SUFFICIENT CAPACITY TO SUPPORT THE ADDITIONAL COMMUNICATIONS GUY (BOTH ROD SIZE, AND EYE AVAILABILITY). AUXILIARY ANCHOR EYES ON SUPPLY ANCHOR RODS SHALL NOT BE ALLOWED. (SEE DETAILS ABOVE)
2. COMMUNICATIONS CABLE STRAND AND DOWN GUY SHALL BE BONDED AND CONNECTED TO POLE GROUND. COMMUNICATION COMPANY TO FURNISH #6 SD BARE COPPER WIRE AND CONNECTORS AND CONNECT TO POLE GROUND.
3. THE PREFERRED HEIGHT/LEAD (H/L) RATIO OF AN ANCHOR IS 1/1.
4. ALL ANCHORS AND GUY WIRES SHALL BE INSTALLED AND TENSIONED AT ALL REQUIRED LOCATIONS BEFORE STRAND IS INSTALLED.
5. GUY MARKERS ARE TO BE INSTALLED TO ALL DOWN GUYS.

## JOINT USE DOWN GUY PLACEMENT

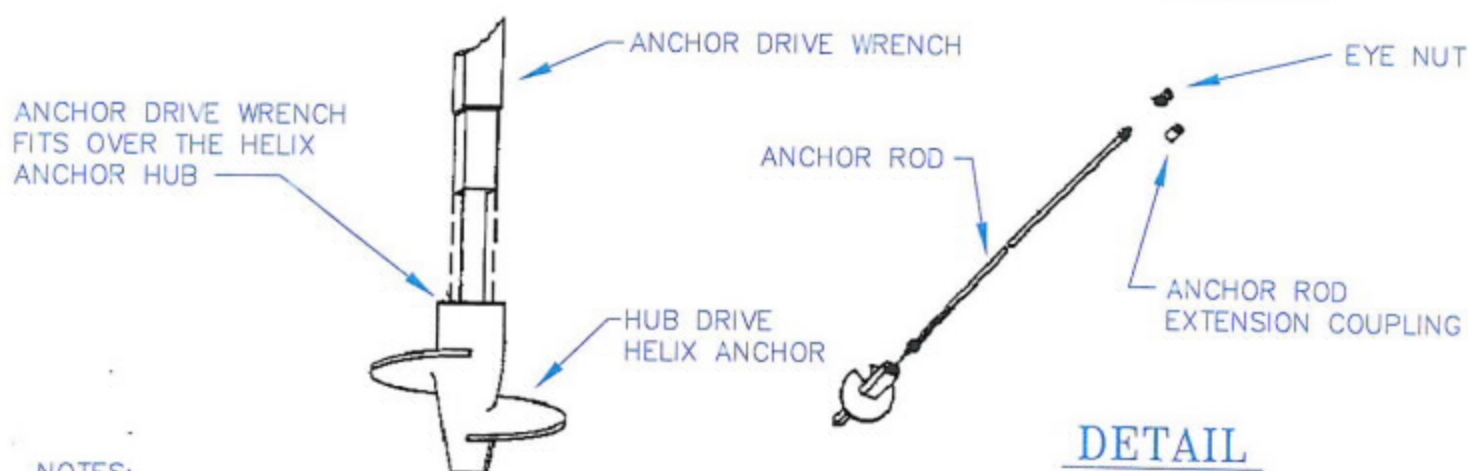
DATE: 12/01/2006



NOTES:

1. THESE LOW STRENGTH ANCHORS ARE HUB DRIVE ANCHORS AND ARE DRIVEN BY THE INSTALLATION WRENCH OVER THE HUB. IF INSTALLED IN TOUGH SOILS, THESE ANCHOR HUBS CAN TWIST AND BREAK OFF, RESULTING IN AN ANCHOR THAT CANNOT BE USED.
2. THESE ANCHORS SHOULD BE INSTALLED SO THAT THE GUY STRAND IS MAKING A STRAIGHT PULL ON THE ANCHOR HELIX AND ROD. FAILURE TO DO THIS CAN RESULT IN ANCHOR FAILURE.
3. ANCHORS SHOULD BE INSTALLED IN UNDISTURBED SOIL.

## INSTALLATION OF HUB DRIVE SCREW ANCHOR

NOTES:

1. THESE HIGH STRENGTH ANCHORS ARE HUB DRIVE ANCHORS AND ARE DRIVEN BY THE INSTALLATION WRENCH OVER THE HUB. IF INSTALLED IN TOUGH SOILS, THESE ANCHOR HUBS CAN TWIST AND BREAK OFF, RESULTING IN AN ANCHOR THAT CANNOT BE USED.
2. THESE ANCHORS SHOULD BE INSTALLED SO THAT THE GUY STRAND IS MAKING A STRAIGHT PULL ON THE ANCHOR HELIX AND ROD. FAILURE TO DO THIS CAN RESULT IN ANCHOR FAILURE.
3. ANCHORS SHOULD BE INSTALLED IN UNDISTURBED SOIL.

## INSTALLATION OF SOCKET DRIVE SCREW ANCHOR

### JOINT USE ANCHOR INSTALLATION

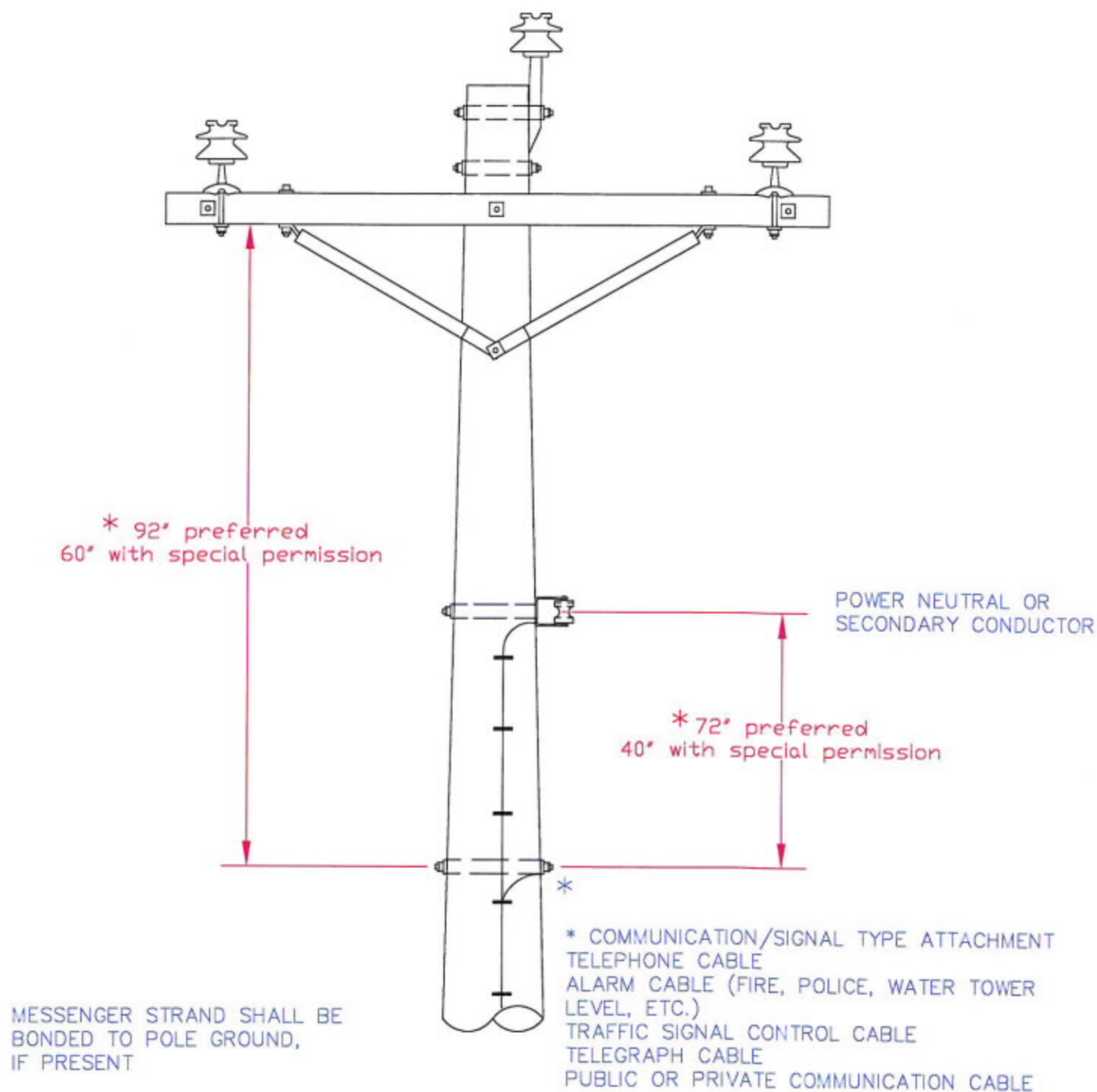
DATE: 12/01/2006

**BLUERIDGE**  
electric membership corp.



1.2





## JOINT USE NEUTRAL AND PRIMARY SEPARATION REQUIREMENTS

DATE: 12/01/2006

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2.0

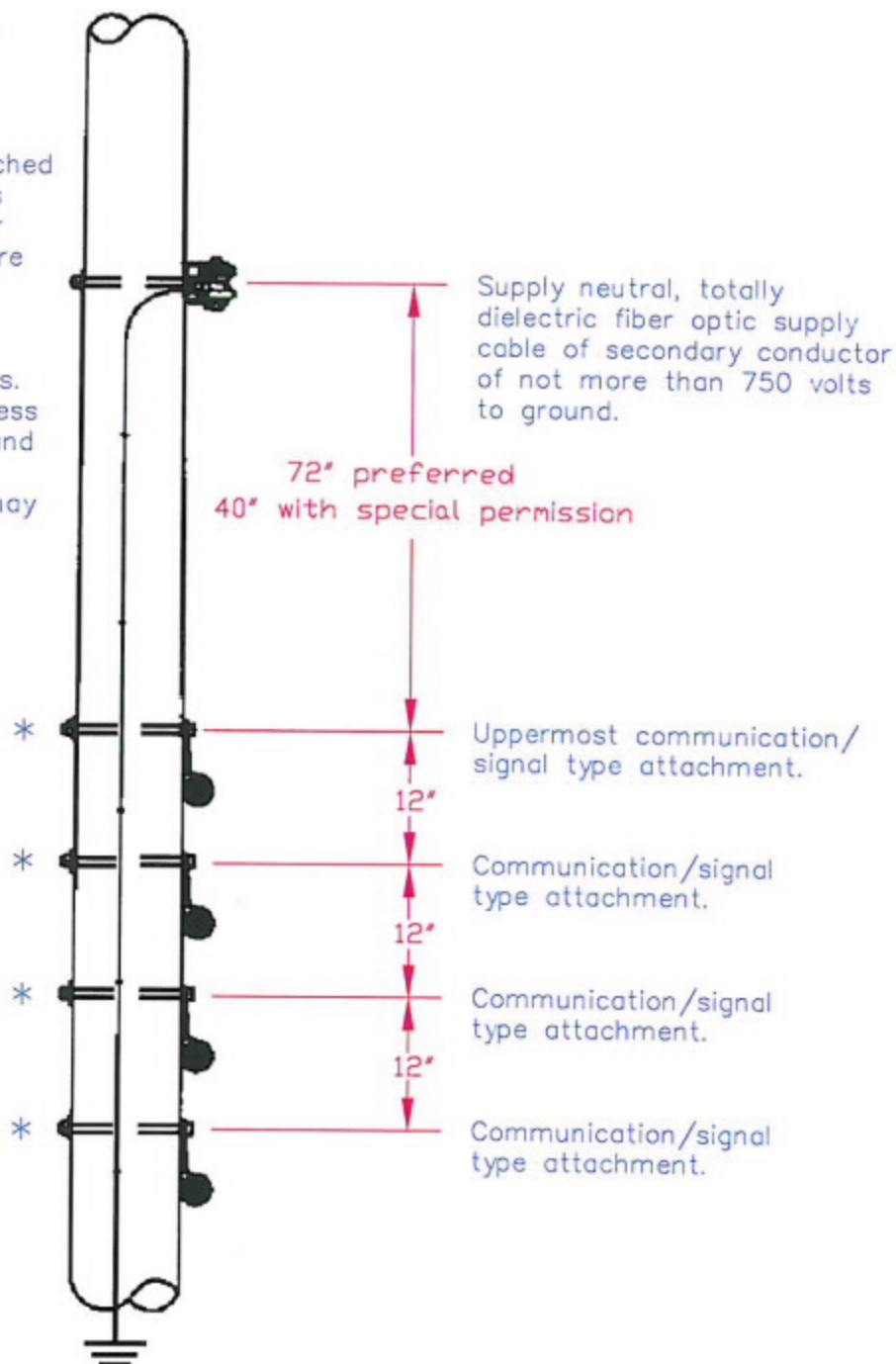
## \* Communication/Signal Type Attachment

Telephone cable  
CATV cable  
Alarm cable (Fire, Police, Water tower level, etc.)  
Traffic signal control cable  
Telegraph cable  
Public or private communication cable

### Notes:

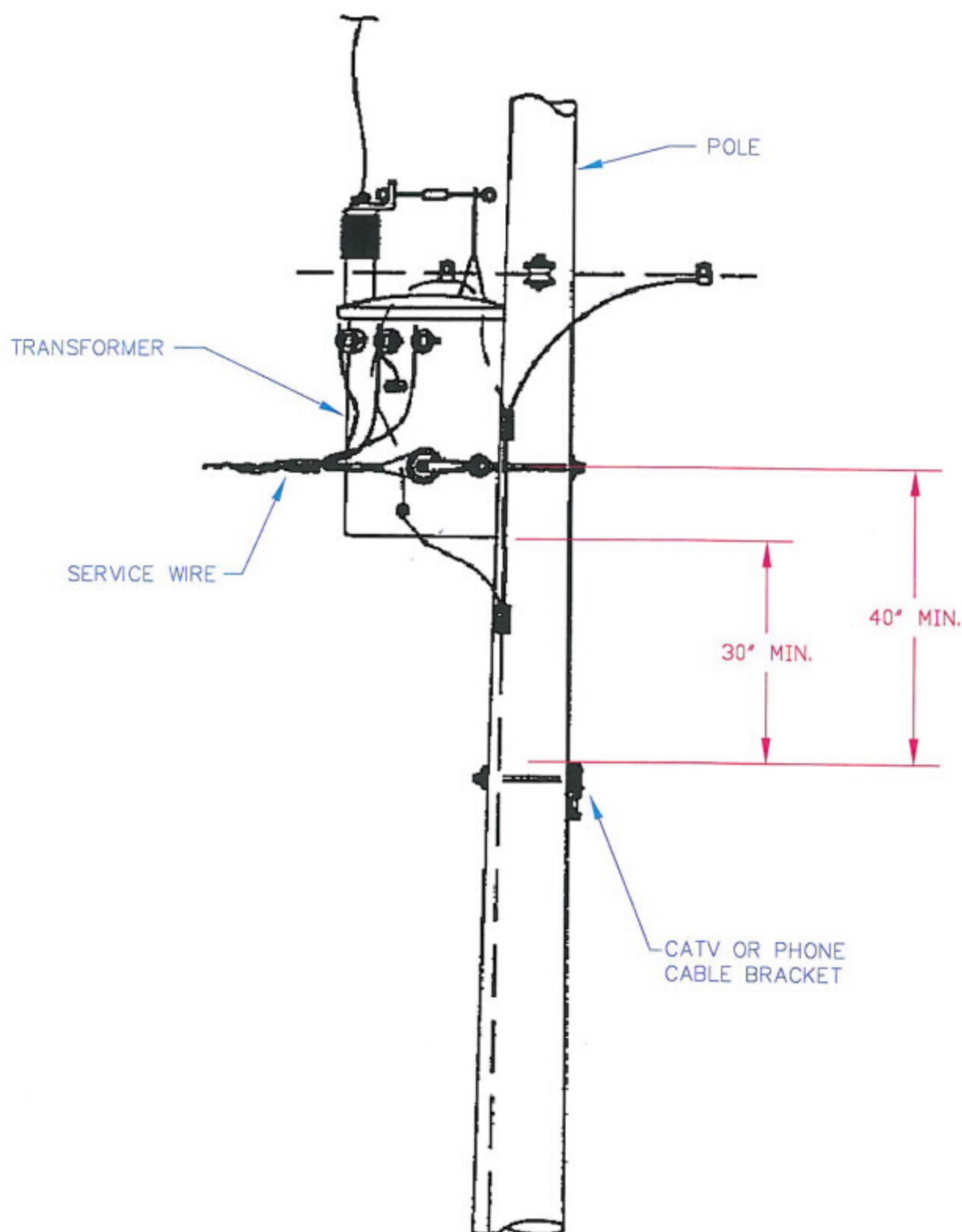
1. When CATV and Telephone are attached to pole, CATV's preferred position is above Telephone (12" min.). If other communication/signal type cables are attached to pole with CATV and/or Telephone, their position shall be mutually agreed upon. 12" spacing should be maintained between cables. CATV and telephone drops can be less than 12" from other cables. CATV and telephone drops shall be 72" below neutral or secondary at pole. 40" may be allowed with special permission from power company.

2. All cables shall be on same side of pole.
3. Messenger strand shall be bonded to the pole ground, if present.



JOINT USE  
MULTIPLE COMMUNICATIONS  
SEPARATION REQUIREMENTS

DATE: 12/01/2006



## JOINT USE TRANSFORMER SEPARATION REQUIREMENTS

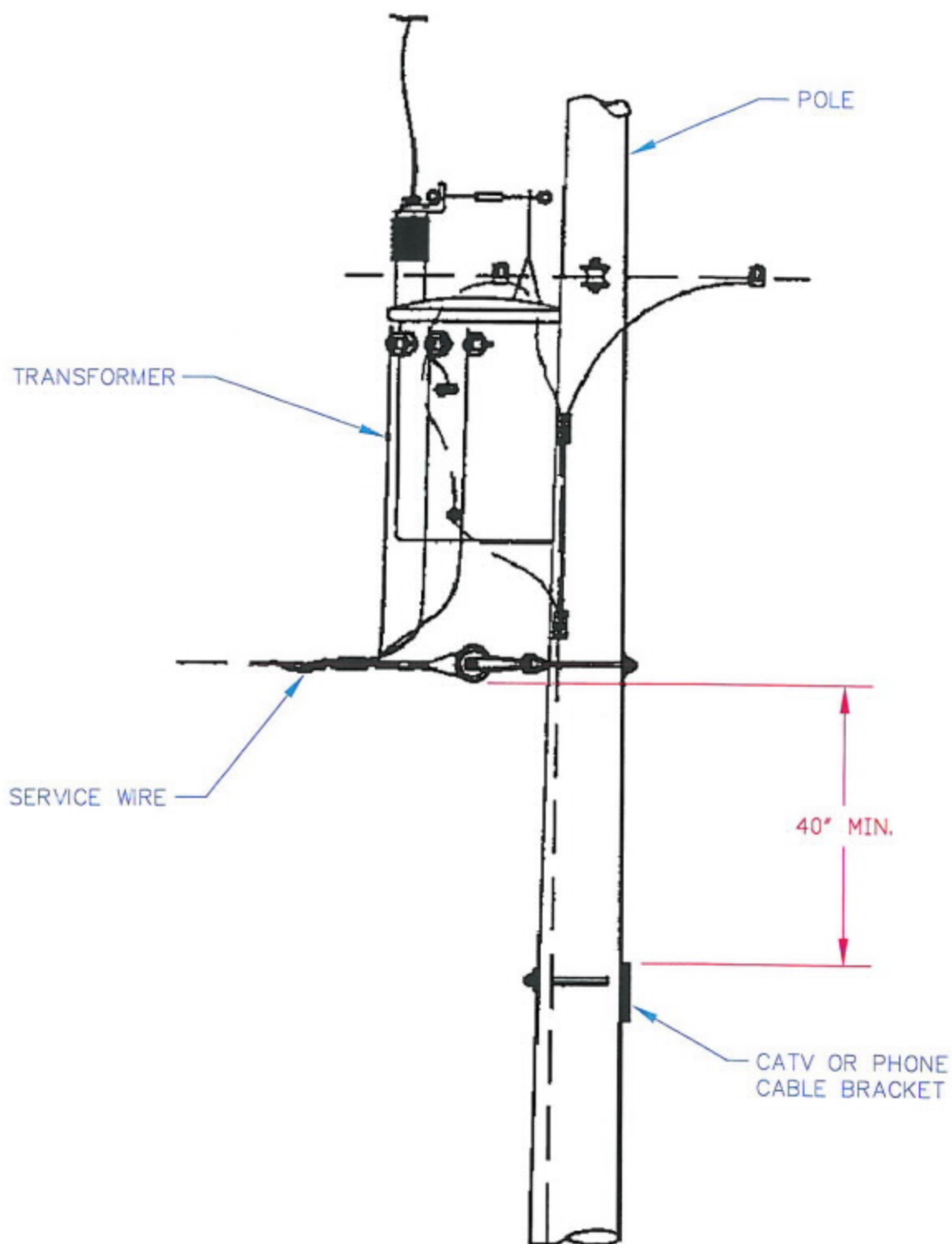
DATE: 12/01/2006

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electric membership corp.



4.0



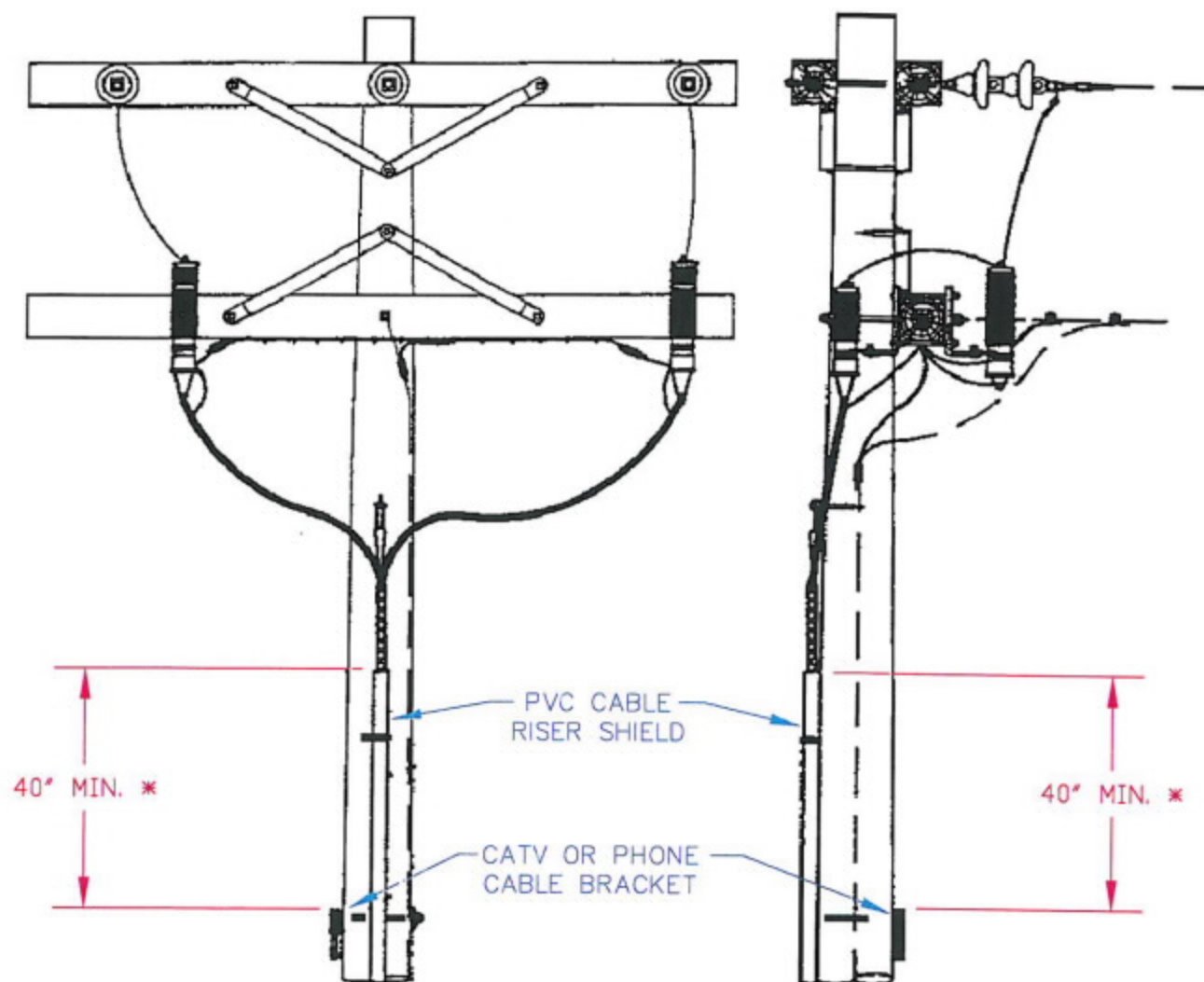


JOINT USE  
SERVICE WIRE  
SEPARATION REQUIREMENTS

DATE: 12/01/2006



5.0



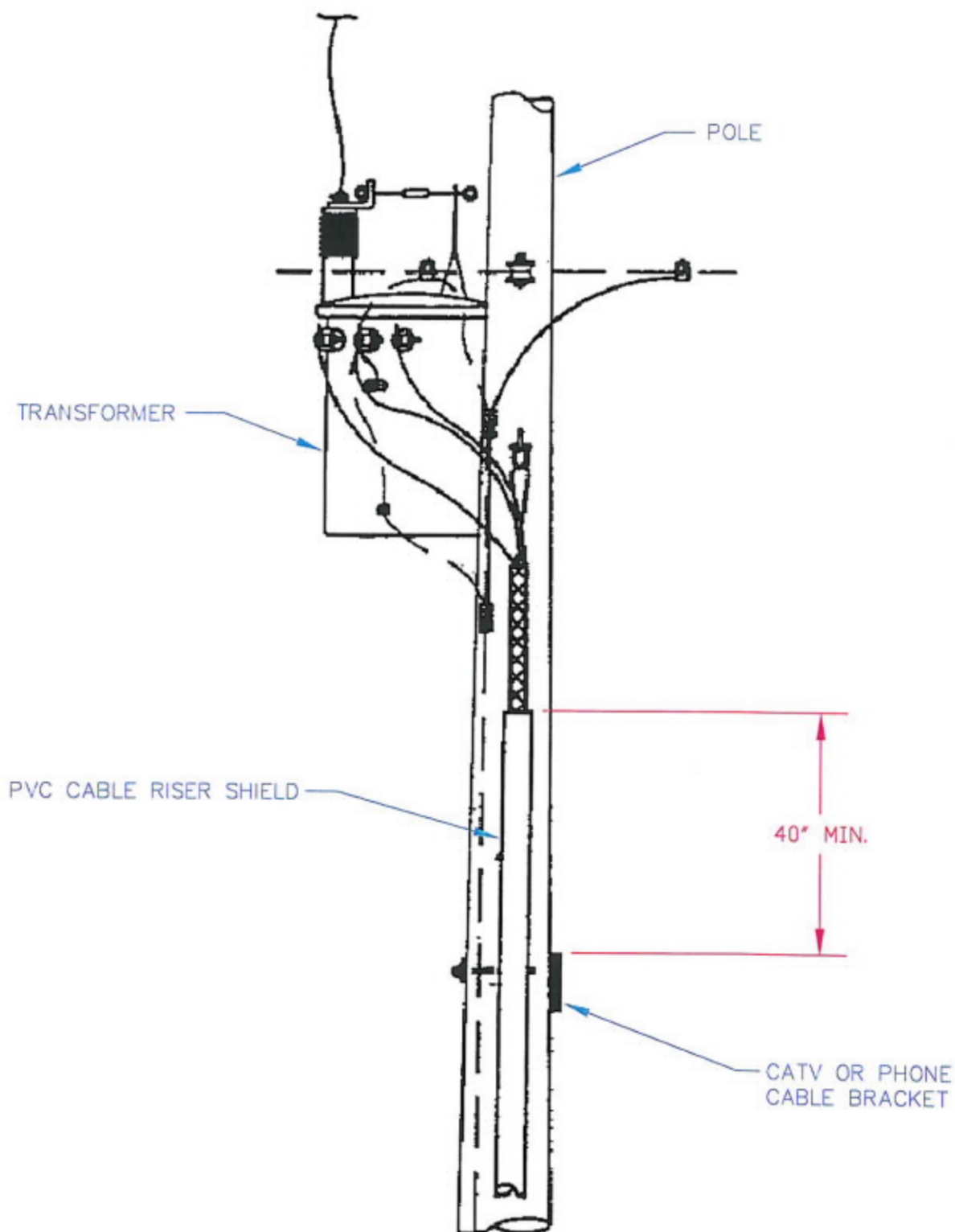
\* THIS CLEARANCE INCREASES  
TO 43" ON 14.4/24.9kV

# JOINT USE PRIMARY RISER SEPARATION REQUIREMENTS

DATE: 12/01/2006



6.0



JOINT USE  
SECONDARY RISER  
SEPARATION REQUIREMENTS

DATE: 12/01/2006

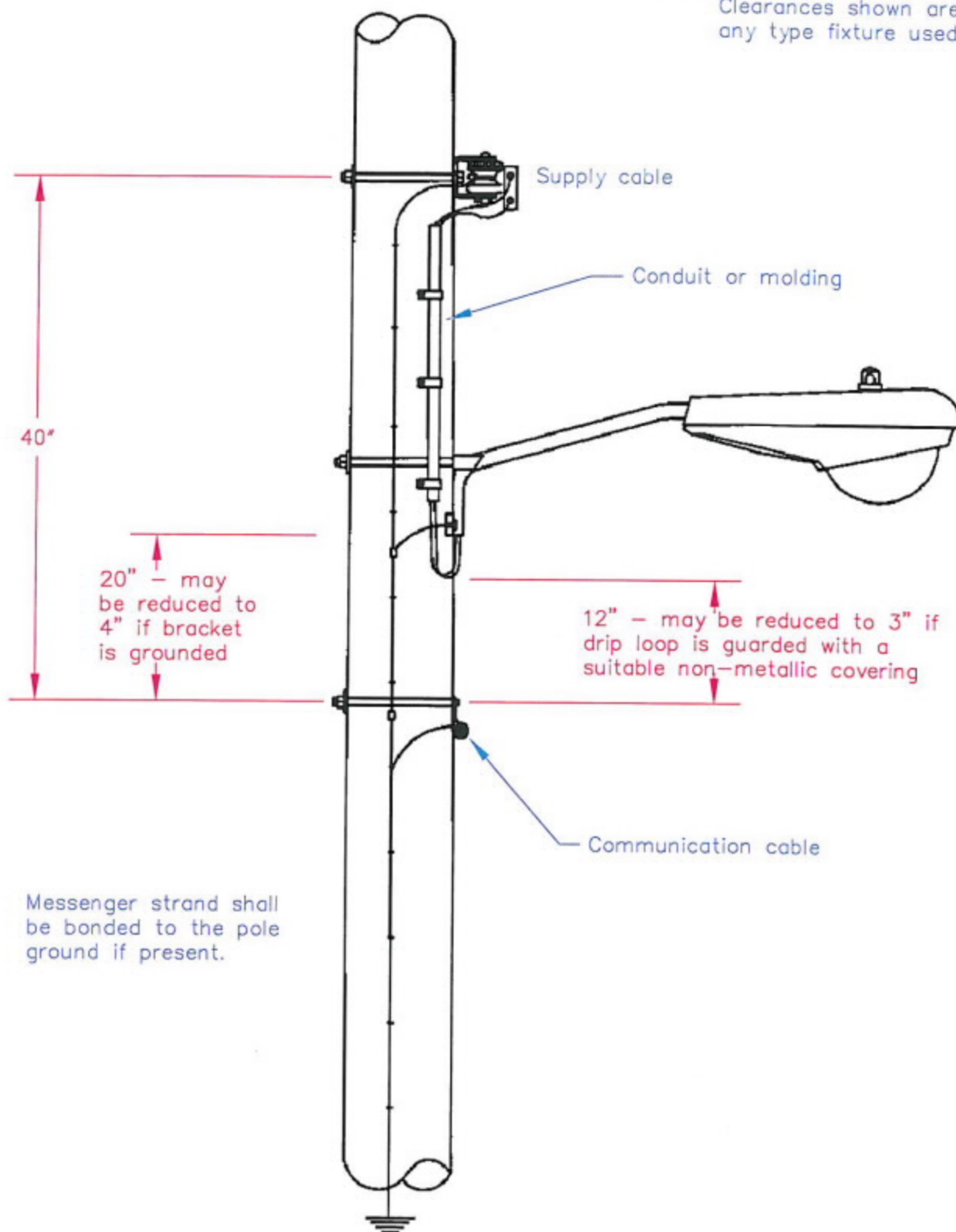
**BLUERIDGE**  
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7.0

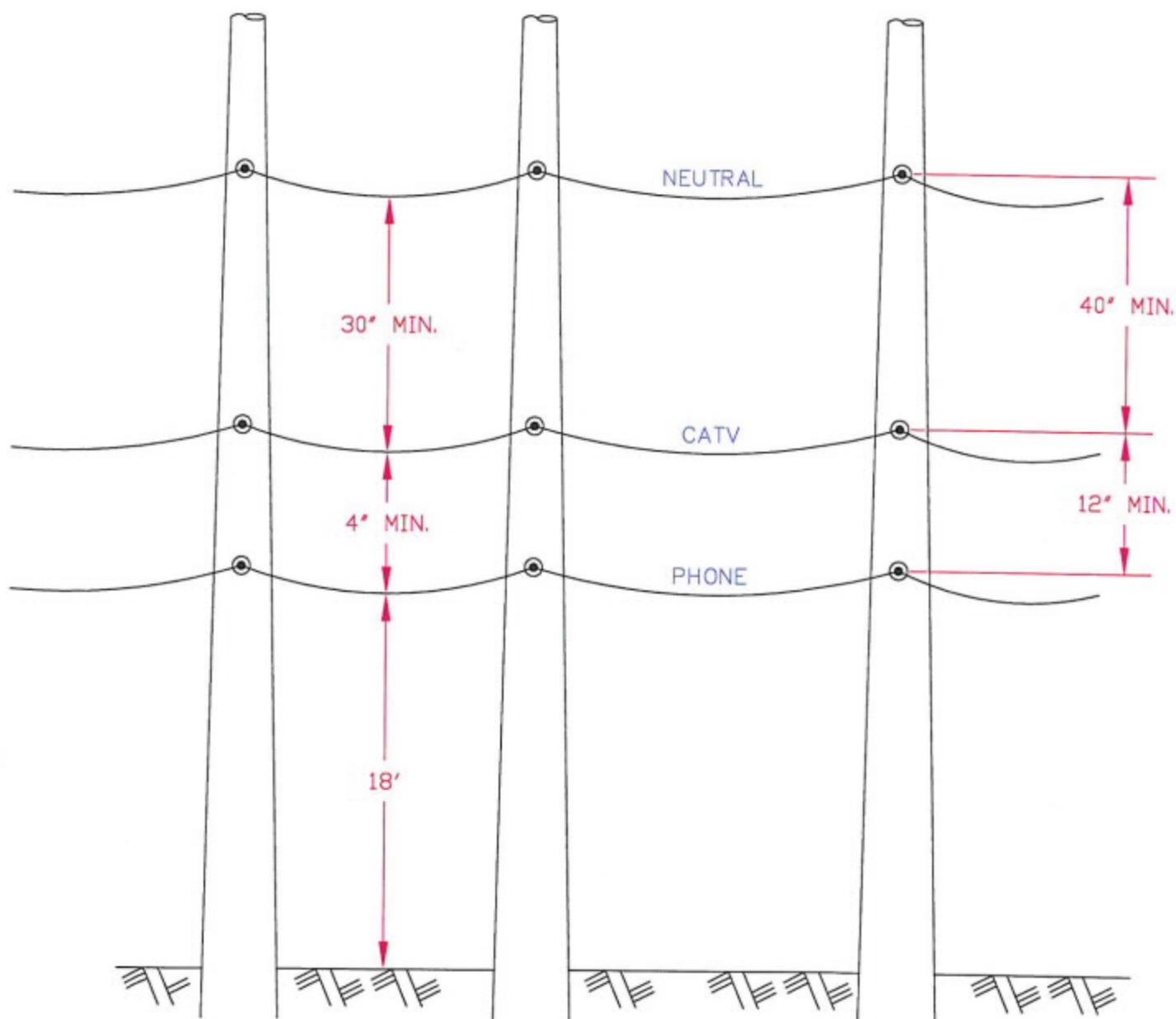


Note: Light fixture shown is symbolic only.  
Clearances shown are applicable to  
any type fixture used.



## JOINT USE LUMINARE SEPARATION REQUIREMENTS

DATE: 12/01/2006



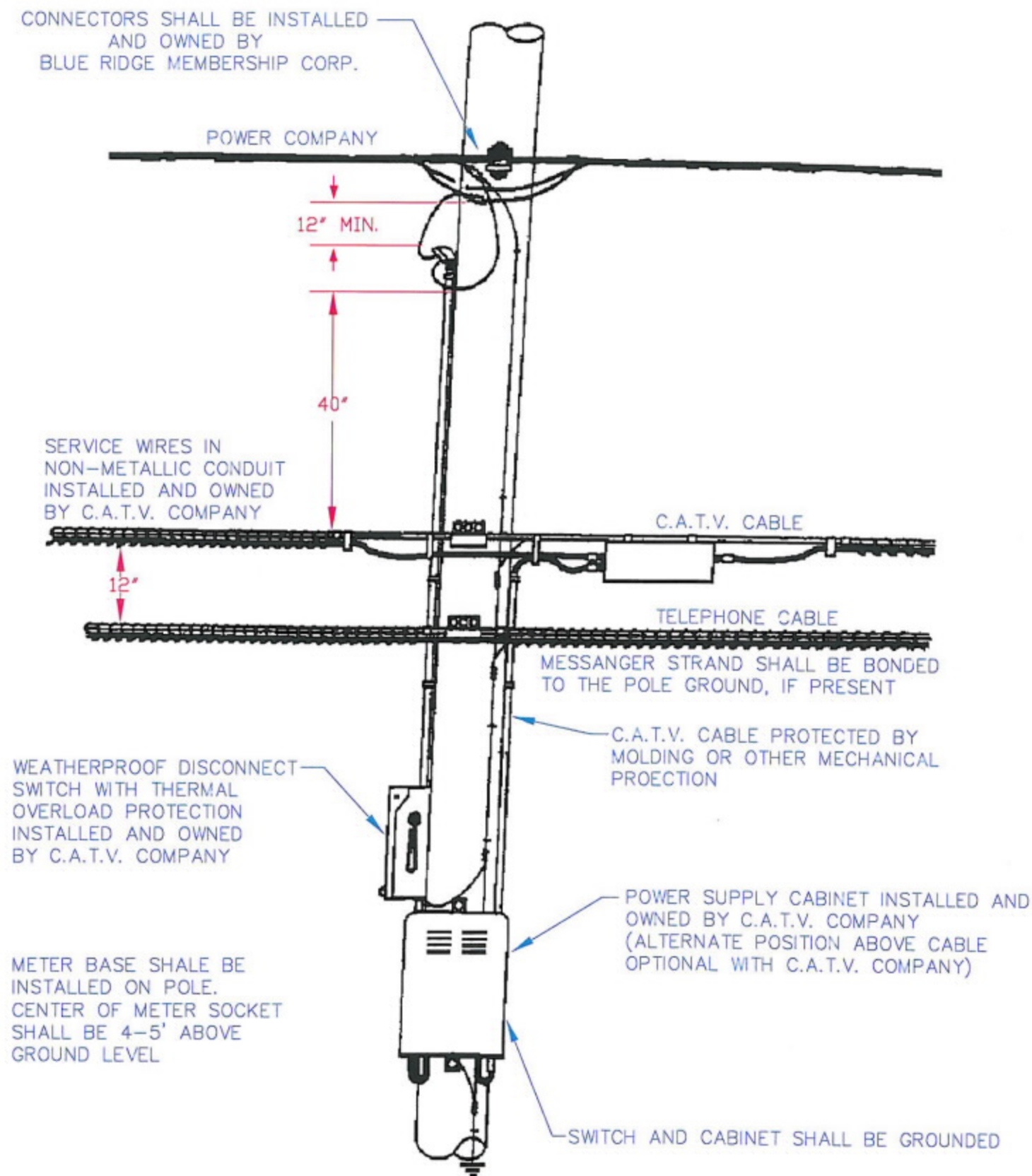
18' CLEARANCE, SHOWN ABOVE, DESIGNATES CLEARANCE ABOVE ROADS.  
PHONE AND CATV COMPANIES MUST ENSURE THAT 18' IS ADEQUATE.  
CLEARANCE TO MEET THE NESC REQUIREMENT OF 15.5 FEET AT WORST CASE CONDITIONS.

## JOINT USE MIDSPAN SEPARATION AND CLEARANCE REQUIREMENTS

DATE: 12/01/2006



9.0



# JOINT USE POWER SUPPLY WEATHERHEAD SEPARATION REQUIREMENTS

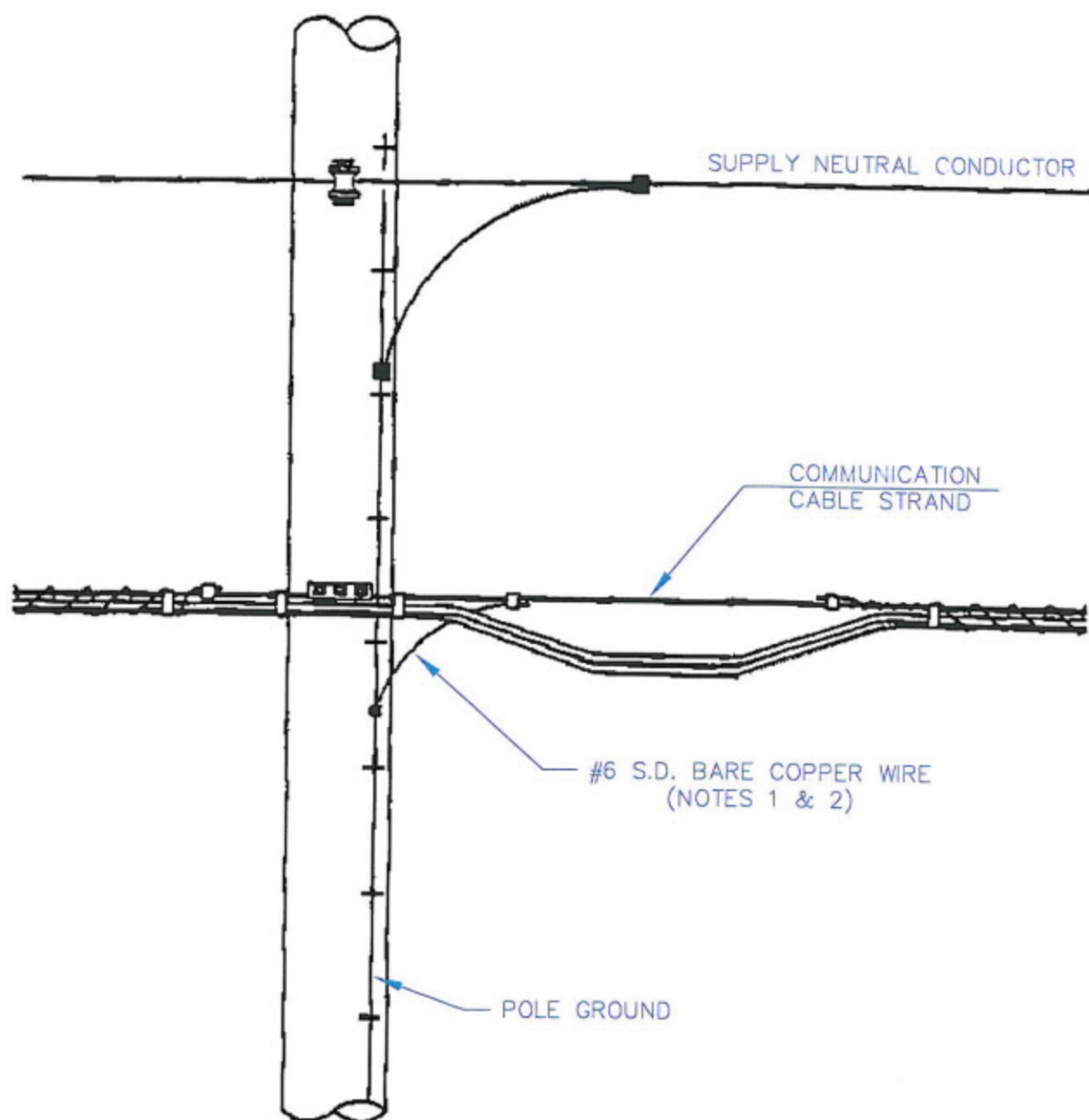
DATE: 12/01/2006

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10.0

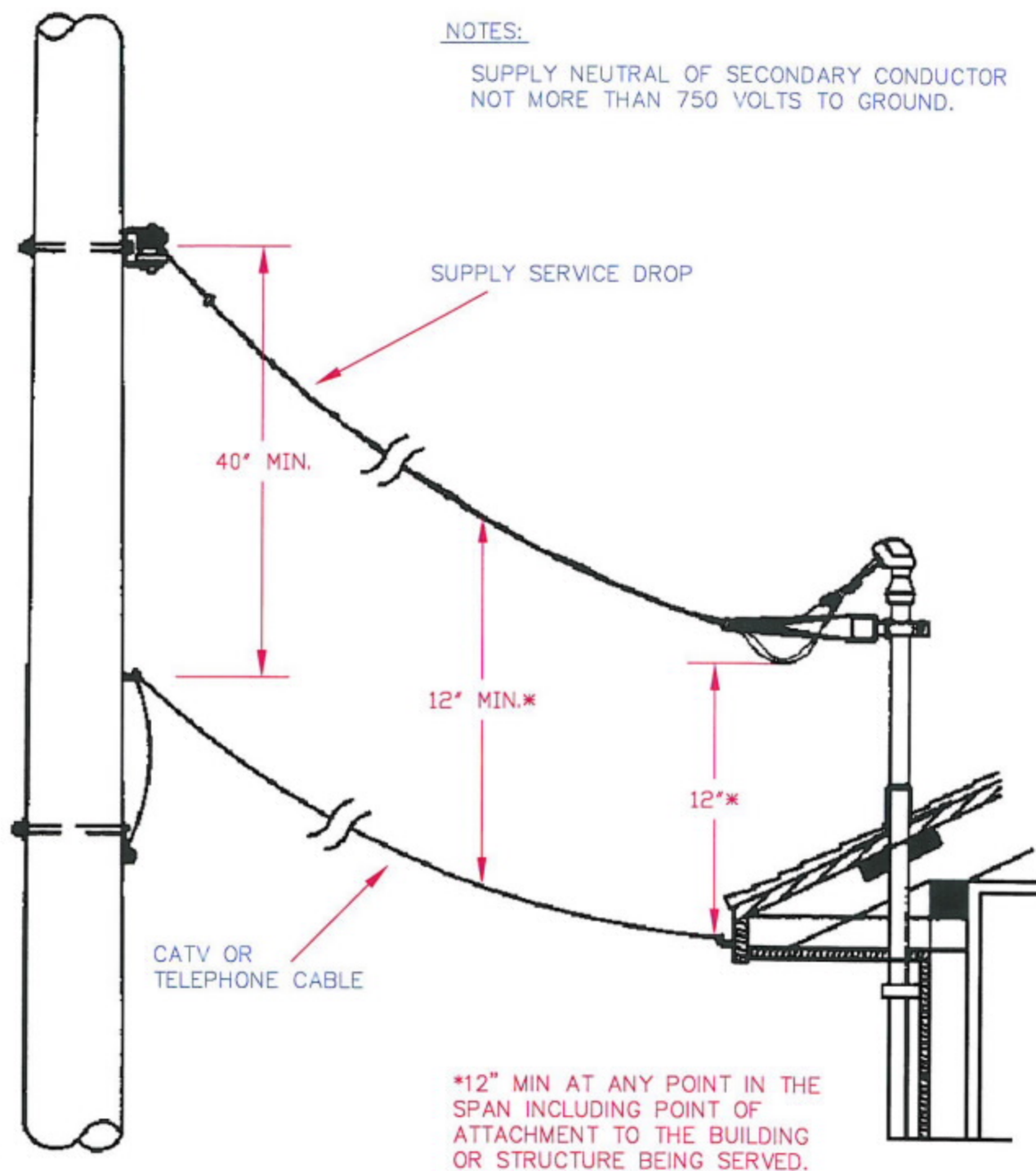


NOTES:

1. COMMUNICATION CABLE STRAND SHALL BE BONDED TO POLE GROUND ON EVERY POLE.
2. COMMUNICATION CABLE COMPANY TO FURNISH #6 S.D. BARE COPPER BONDING WIRE AND CONNECTORS AND CONNECT TO POLE GROUND.

## JOINT USE BONDING REQUIREMENTS

DATE: 12/01/2006



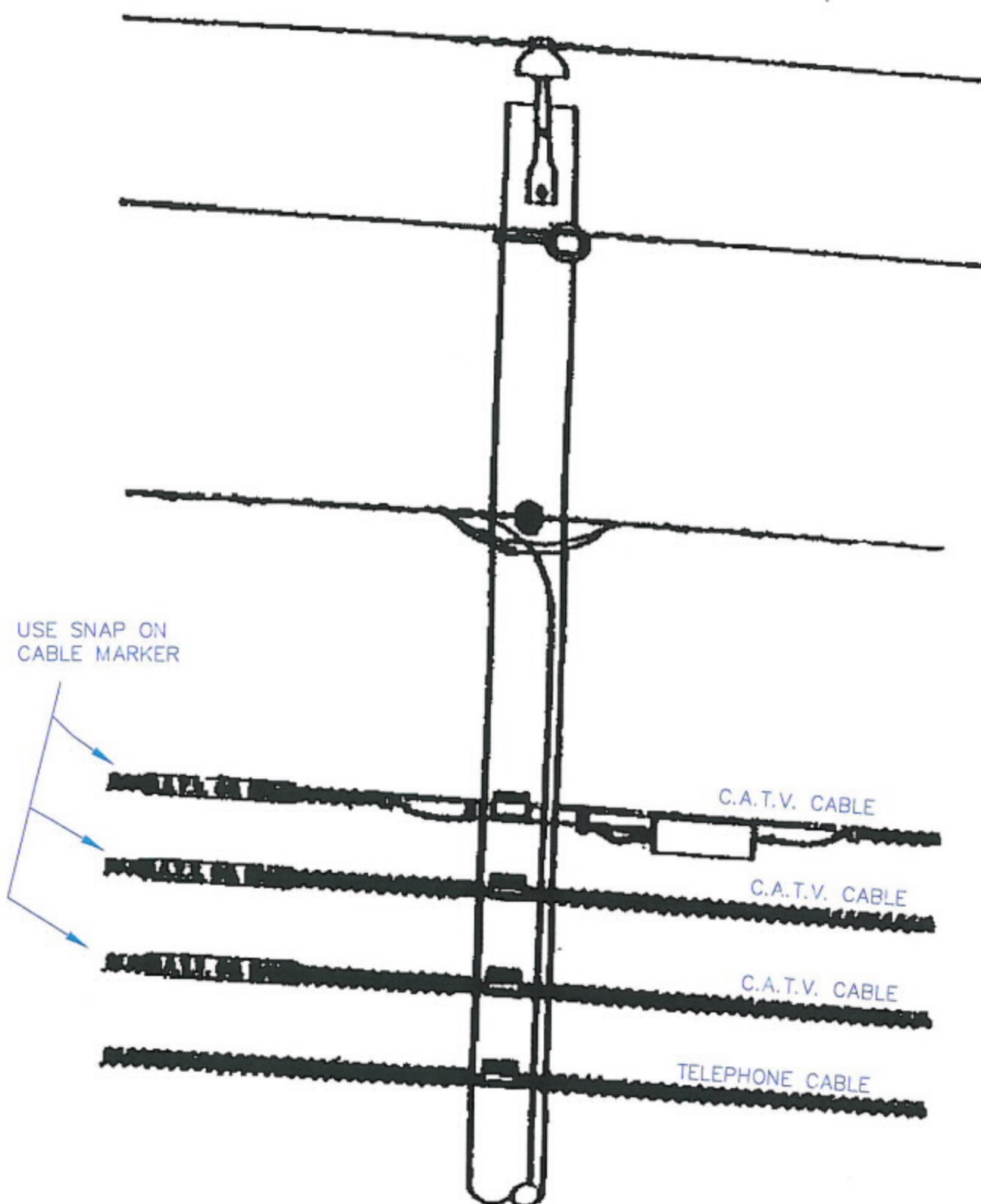
ALL CLEARANCE OTHERWISE REQUIRED MUST BE MAINTAINED AT THE POLE

JOINT USE  
SERVICE DROP  
SEPARATION REQUIREMENTS

DATE: 12/01/2006



12.0



# JOINT USE ATTACHMENT IDENTIFICATION REQUIREMENTS

DATE: 12/01/2006



# **EXHIBIT**

## **LL-14**

## Brad Shields

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**From:** Brad Shields  
**nt:** Wednesday, September 9, 2015 5:08 PM  
**To:** Mullins, Micheal N  
**Subject:** RE: Charter Blue Ridge Electric Pole Attachment Agreement

Mike,

We are doing an inventory of all attachments. We will be approaching Charter territory in a couple of months. Let me know if you want to ride along to look at your attachments as they are counted. Thanks, Brad

**From:** Mullins, Micheal N [<mailto:Micheal.Mullins@charter.com>]  
**Sent:** Thursday, April 02, 2015 5:19 PM  
**To:** Brad Shields  
**Subject:** RE: Charter Blue Ridge Electric Pole Attachment Agreement

Hi Brad,

I am going to be out of the office for the next week, but I have added a note to my Outlook calendar to give you a call on this next Thursday.

A couple things I need to go over with you.

Sorry for taking so long to get back to you, we have been covered up over here.

anks,

Micheal

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**From:** Brad Shields [<mailto:bshields@blueridgeemc.com>]  
**Sent:** Tuesday, March 17, 2015 3:01 PM  
**To:** Mullins, Micheal N  
**Subject:** RE: Charter Blue Ridge Electric Pole Attachment Agreement

Hey Mike. I hope all is well. Have you heard anything about the contract I sent over last year? Just trying to keep my paperwork in order. We are also in the process of doing a pole attachment count. We have not gotten into Charter territory yet, but I wanted to make you aware of the count that is going on. Thanks, Brad

**From:** Mullins, Micheal N [<mailto:Micheal.Mullins@charter.com>]  
**Sent:** Tuesday, July 08, 2014 4:33 PM  
**To:** Brad Shields  
**Subject:** RE: Charter Blue Ridge Electric Pole Attachment Agreement

Thanks Brad. I will get this sent on up the line for approval. Ronnie McWhorter will probably be in touch with you to discuss further. Ronnie oversees all of our joint use agreements.



Micheal Mullins | Construction Supervisor | 828-754-2192, ext. 42178  
220 McLean Drive, Lenoir, NC 28645

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**From:** Brad Shields [<mailto:bshields@blueridgeemc.com>]  
**Sent:** Tuesday, July 08, 2014 1:34 PM  
**To:** Mullins, Micheal N  
**Subject:** Charter Blue Ridge Electric Pole Attachment Agreement

Mike,

Here is the new agreement. There is no change in the existing rate and only a yearly CPI increase after that. Let me know of any questions or comments. We appreciate your business. Brad

*Brad Shields  
Blue Ridge Electric Membership Corporation  
Chief Technology Officer  
P.O. Box 112  
Lenoir, NC 28645*



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*Brad Shields* | 828.758.2383 x 3251  
Chief Technology Officer

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Oct 16 2017



# **EXHIBIT**

## **LL-15**

## MEMORANDUM

**TO:** Charter Communications  
**FROM:** Blue Ridge Electric Membership Corporation  
**DATE:** August 25, 2017  
**RE:** NOTICES OF VIOLATIONS

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You are receiving notices of violations identified during the last inventory and audit of Blue Ridge Electric's system through the agreed upon NJUNS program. In the NJUNS notice, there will be a physical address provided for each location, although there may not be a residence or business at that location. We note that Charter will likely find it much easier to use a GPS and the lat-long information (also provided on the NJUNS ticket) to get to the specific location where the violation exists, as opposed to the physical address.

Given the number of violations, we are willing to work with Charter to establish a reasonable timeframe for it to submit Correction Plans for these violations and perform the work to remedy them.

**EXHIBIT**  
**LL-16A**



Charter\_G100972\_20170601\_123827

**True Size Pole**

Incomplete tool

**Span Height**

Incomplete tool

**Photo Only**

Date	2017-06-01
Year	2017
Month	06
Day	01
Time	12:38:19
ImageFilename	Photo Only_G100972_20170601_123819.jpg



Text	limited bucket access and charter drop wrapped in power
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Numeric	20702084
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**Missing Line**

Incomplete tool



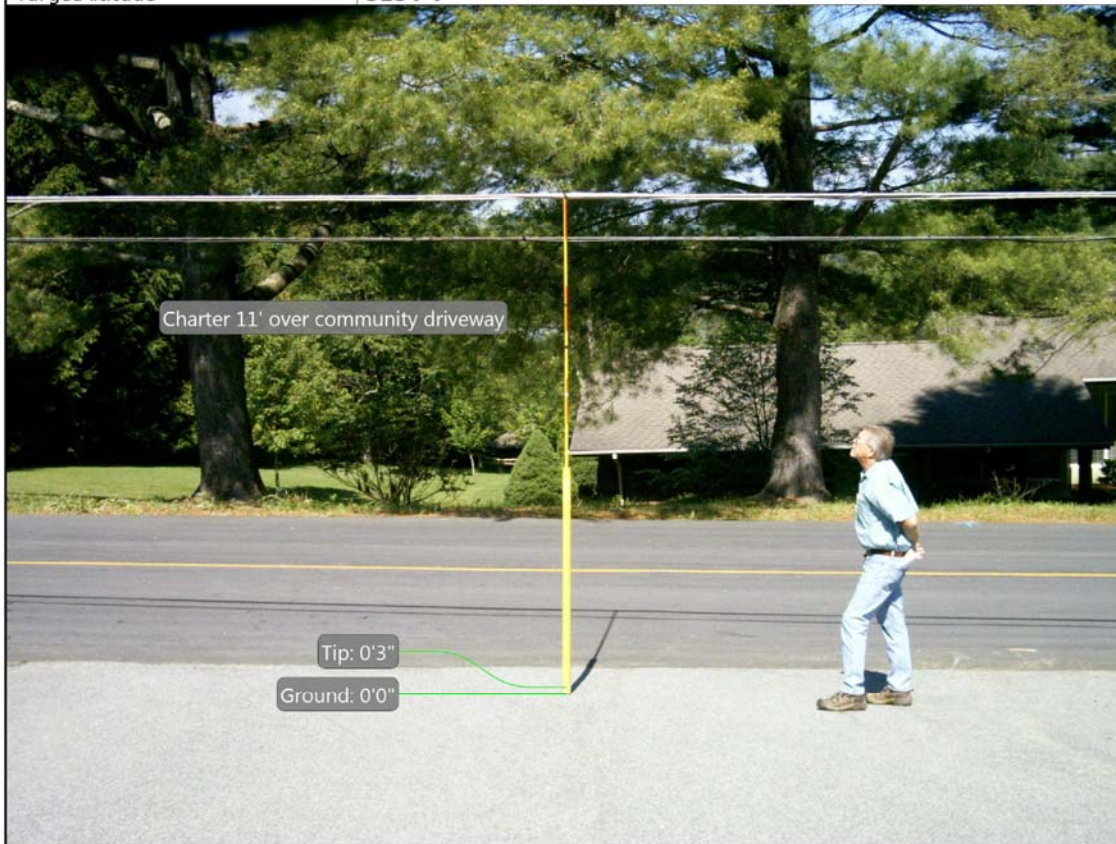
# **EXHIBIT**

## **LL-16B**



Charter\_G100972\_20170531\_102440

True Size Pole	
Date	2017-05-31
Year	2017
Month	05
Day	31
Time	10:23:56
ImageFilename	True Size Pole_G100972_20170531_102356_polestack.jpg
TrueBearing	265.0°
TargetLatitude	36.203159530°
TargetLongitude	-81.644768154°
TargetAltitude	3234'4"



Span Height	
Incomplete tool	

Photo Only	
Incomplete tool	

Text	charter 11 feet
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Numeric	21701163
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Missing Line	
Incomplete tool	

Charter\_G100972\_20170531\_105146

True Size Pole	
Date	2017-05-31
Year	2017
Month	05
Day	31
Time	10:50:09
ImageFilename	True Size Pole_G100972_20170531_105009.jpg
TrueBearing	295.1°
TargetLatitude	36.215630694°
TargetLongitude	-81.626245168°
TargetAltitude	3500'10"



Span Height	
Incomplete tool	

Photo Only	
Incomplete tool	

Text	charter clearance
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Numeric	21705113
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Missing Line	
Incomplete tool	

# **EXHIBIT**

## **LL-16C**





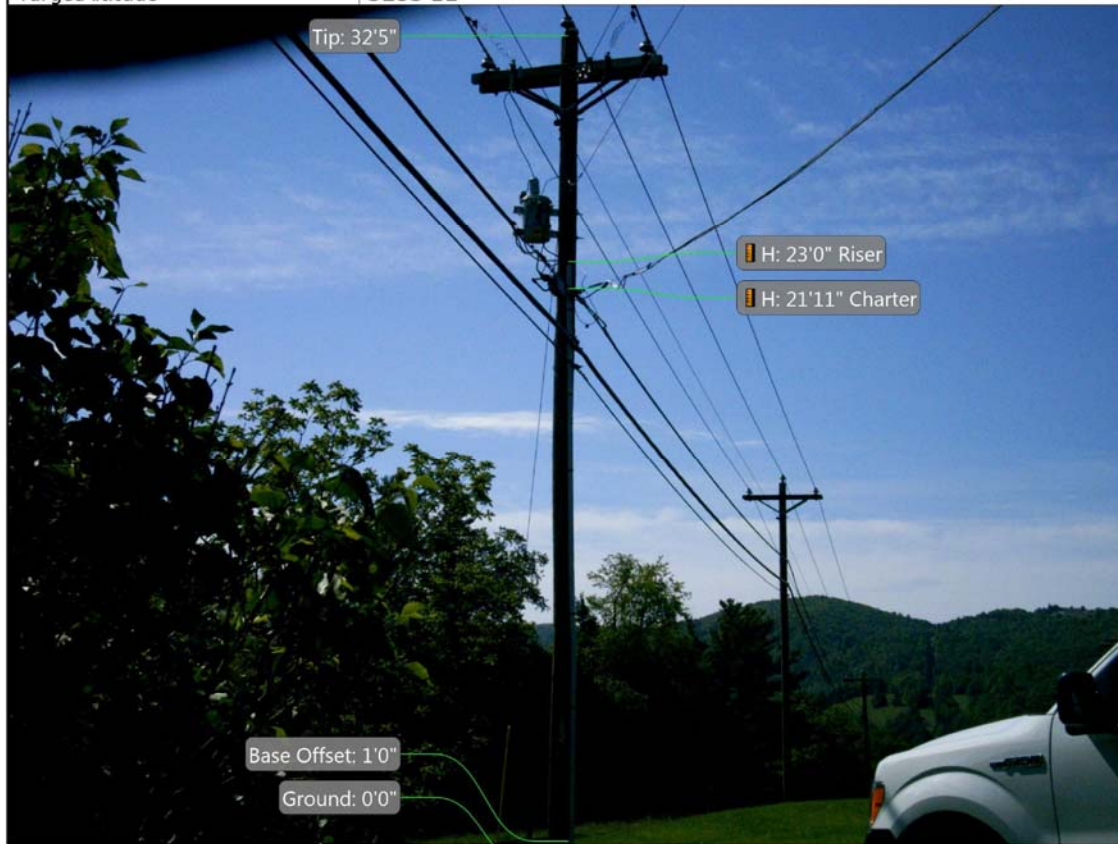
Oct 16 2017

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Charter\_G100972\_20170531\_101411

True Size Pole	
Date	2017-05-31
Year	2017
Month	05
Day	31
Time	10:13:22
ImageFilename	True Size Pole_G100972_20170531_101322_polestack.jpg
TrueBearing	142.1°
TargetLatitude	36.198874650°
TargetLongitude	-81.634490235°
TargetAltitude	3253'11"



Span Height	
Incomplete tool	

Photo Only	
Incomplete tool	

Text	attachment violation
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Numeric	21701012
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Missing Line	
Incomplete tool	

# **EXHIBIT**

## **LL-16D**

Charter\_G100972\_20170531\_143712

True Size Pole	
Date	2017-05-31
Year	2017
Month	05
Day	31
Time	14:36:40
ImageFilename	True Size Pole_G100972_20170531_143640_polestack.jpg
TrueBearing	123.0°
TargetLatitude	36.120092061°
TargetLongitude	-81.664525685°
TargetAltitude	3644'11"



Span Height	
Incomplete tool	

Photo Only	
Incomplete tool	

Text	no guying
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Numeric	20507145
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Missing Line	
Incomplete tool	



Charter\_G100972\_20170601\_103718

True Size Pole	
Date	2017-06-01
Year	2017
Month	06
Day	01
Time	10:35:51
ImageFilename	True Size Pole_G100972_20170601_103551_polestack.jpg
TrueBearing	339.6°
TargetLatitude	36.167410383°
TargetLongitude	-81.760353502°
TargetAltitude	3090'3"



Span Height	
Incomplete tool	

Photo Only	
Incomplete tool	

Text	charter no anchor guy hanging and clearance from transformer
------	--

Numeric	20806080
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Missing Line	
Incomplete tool	

# **EXHIBIT**

## **LL-16E**

Charter\_G100972\_20170601\_131845

True Size Pole	
Date	2017-06-01
Year	2017
Month	06
Day	01
Time	13:18:05
ImageFilename	True Size Pole_G100972_20170601_131805_polestack.jpg
TrueBearing	238.4°
TargetLatitude	36.166392434°
TargetLongitude	-81.756146956°
TargetAltitude	2964'8"



Span Height	
Incomplete tool	

Photo Only	
Incomplete tool	

Text	mess no climbing space
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Numeric	20806057
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Missing Line	
Incomplete tool	