TeAM Policy

Telecom Applications Management

SUBJECT: Fiberglass Telecommunications Bracket for Tangent and Angle Construction

POLICY NO.: 001-01-02

1.0 Policy Statement

This policy establishes guidelines for the acquisition, installation and maintenance of the fiberglass telecommunications bracket ("Bracket") on overhead distribution poles owned by Consolidated Edison Company of New York, Inc. ("CECONY" or "Company").

2.0 General

The Bracket will allow for the attachment of multiple (CATV) span wire or a small type panel antenna in the telecommunications zone to a single support. Use of the Bracket will encourage non-discriminatory access to and orderly installation of CATV/Telecom facilities on CECONY overhead distribution poles.

3.0 Application

This procedure applies to all operating areas, except Manhattan.

4.0 Definitions (in alphabetical order)

4.1 **Agent**. A representative of any company, with authorization to make decisions and enter into contractual agreements on behalf of that company. If a CATV/Telecom company is attached to any pole in a proposed walk, that company is required to have a representative present during the multi-party pole walk.

4.2 **Area Coordinator.** The individual designated in the Electric Operations organization of each Customer Service area to administer this procedure.

4.3 **Franchise**. A right granted by a local government or municipality, for a specified number of years, to provide telecommunication service within a specified geographical area.

4.4 **Licensee.** A party other than the Telephone Company having the appropriate public or private authority to construct, operate, or maintain its facilities on public or private property. That licensed party becomes an "attaché" once its facilities are installed on CECONY property.

4.5 **Make-ready Work.** Alterations to utility poles, which must be made by CECONY, the Telephone Company or others before a licensee, can attach equipment to those poles.

4.6 **Pole Attachment License ("License").** An authorization given by the owner of the pole (CECONY or the Telephone company) to a licensee to attach specific equipment to specific utility poles within the franchise area.

4.7 **Pole Survey Walk Record ("Walk Sheet").** A document identifying the walk number and listing, in consecutive order, the poles to be surveyed in that walk (Exhibit A). This document is used to record, in detail, the make-ready work required on each pole, specifying the parties responsible for that work.

4.8 **Project Specialist.** The individual designated in the Telecom Applications Management (TeAM) department to administer this procedure.

4.9 **Walk.** A continuous segment of a licensee franchise area, consisting of approximately 200 poles, proposed by a licensee and forming the basic unit of make-ready work and licensee construction. A multi-party walk involves the surveying of the above-mentioned poles by the proposed licensee and all other attachés to that pole (including CECONY, Verizon and all other existing licensee.

4.10 **Wireless Antenna.** A small panel type antenna measuring 12" wide by 26" high by 8" deep that can be installed in the Telecommunications zone on the Pole.

5.0 Determining Use of Bracket

5.1 The use of the fiberglass bracket for span wire will be considered on a limited case-by-case basis. CECONY reserves the right to direct a new licensee or any existing licensee (other than the Telephone company) requesting attachment space to purchase and pay for the installation of the Bracket. Once the Bracket is installed on a CECONY-owned pole, the Bracket becomes the property of CECONY. The use of the Bracket may be authorized for temporary attachments, however, the bracket for span wire will be required to be removed and a permanent attachment to the pole will be made within 30-days of the completion of the make-ready work.

5.2 It shall be determined during the multi-party pole walk if the installation of the Bracket for the span wire will be authorized. The use of the bracket will not be authorized if the subject pole can be re-arranged to accommodate access to the new licensee.
If all representatives present at the multi-party pole walk agree to the installation of the bracket, an entry shall be made on the walk sheet, indicating:

- The Licensee requesting the make-ready work,
- The Licensee responsible for purchasing and installing the Bracket,
- Any other required make-ready work and the Licensee(s) responsible for that work.

6.0 Bracket Acquisition and Installation

6.1 The new licensee requesting the attachment and authorization for the use of the Bracket will purchase and install the Bracket where directed by the Area Coordinator. It will be at the sole cost and expense of the new Licensee to relocate any existing attachés(s) to the Bracket if the bracket is utilized for span wire installation.

6.2 It is the Responsibility of the new licensee to notify the existing attachés(s) that their facility is being relocated to the bracket.

6.3 Once all required make-ready work has been completed, new Licensee will be issued a license to attach its facilities to the second attachment point on the bracket, 12" away from the base of the bracket.

6.4 Subsequent licensees requesting access to that pole will be required to attach their facility to the first open space on the Bracket from the pole.

6.5 Fiberglass bracket used for the installation of a panel type antenna may not be utilized for span wire attachments.

7.0 Make-Ready Work Costs

The licensee requesting the make-ready work is responsible for paying for all labor and material costs including:

- The cost of the Bracket,
- The make-ready work costs incurred by CECONY, the Telephone company and/or other licensees already installed on the pole.

8.0 Maintenance of Bracket and Attached Facilities

8.1 Restoration

Each licensee, whether its facilities are attached directly to the pole or supported by the Bracket, is responsible for restoring its own facilities in the event that they are damaged. If the Bracket is damaged by a Licensee, it is the responsibility of the Licensee to replace existing attachés to the newly installed Bracket at the sole cost and expense of the Licensee that damaged the Bracket.

8.2 Liability

Liability requirements specified on "Pole Attachment Agreements" applies.

9.0 References

33521	Pole Space Allocation and Telecom Clearances
EO-32595:	Fiberglass Telecommunication Bracket for Tangent and Angel Construction
Catalog # Maclean GIMAO 124AD	Fiberglass – Single phase/double position bracket for small panel type antennas
TeAM Policy 012-00-1:	Conducting Multi-party Pole Walks to Determine Make-Ready Work
TeAM Policy 561-01-2:	Cable Television and Communication Licensees

10.0 Exhibits

Exhibit A: Pole Survey Walk Record

Exhibit B: 335241

Exhibit C: EO-325595

PREPARED BY: Dominick Maugeri APPROVED BY: Harvey Karp (Signature on File) DATE: August 1, 2006

Pre-Survey

Walk # _____

Licensee: CATV Company Municipality: Brooklyn Map # 42 Date: 3/14/06 Page 1 of 10

ITEM #	POLE	OWNER JT	OWNER T	OWNER E	STREET NAME AND X STREET	Makeready Required OR P/S IDENTIFICATION #	LICENSEE ATTACHMENT LOCATION	SIDE OF POLE	GUY REQ.
1	T12		X		S/S Smith Street				
					2 Pole W/O Haff Ave				
2	13			X	SWC Haff Ave &				
					Smith Street				
3	14			X	S/S Smith Street				
					3 Pole West of Haff Ave				
4	15			X	SWC Smith Street &				
					Jones Ave.				
5	T-16		X		S/S Smith Street				
					1 Pole W/O Jones Ave				
6	T-2		X		S/S Smith Street				
					2 Pole W/O Jones Ave				
7	1			X	S/S Smith Street				
					3 Pole W/O Jones Ave				
8	T-2		X		S/S Smith Street				
					4 Pole W/O Jones Ave.				
9	T-3		X		S/S Smith Street				
					5 Pole W/O Jones Ave.				
10	18			X	S/S Smith Street				
					6 Pole W/O Jones Ave				

Poles
Telco 5
Power 5
Total 10
Post Survey _____

Representative
Tel Co. J. Smith
Power Co. H. Doe
Licensee CATV Co.
Walk Date 3/21/06

335241

L. ORTEGA 8/6/03

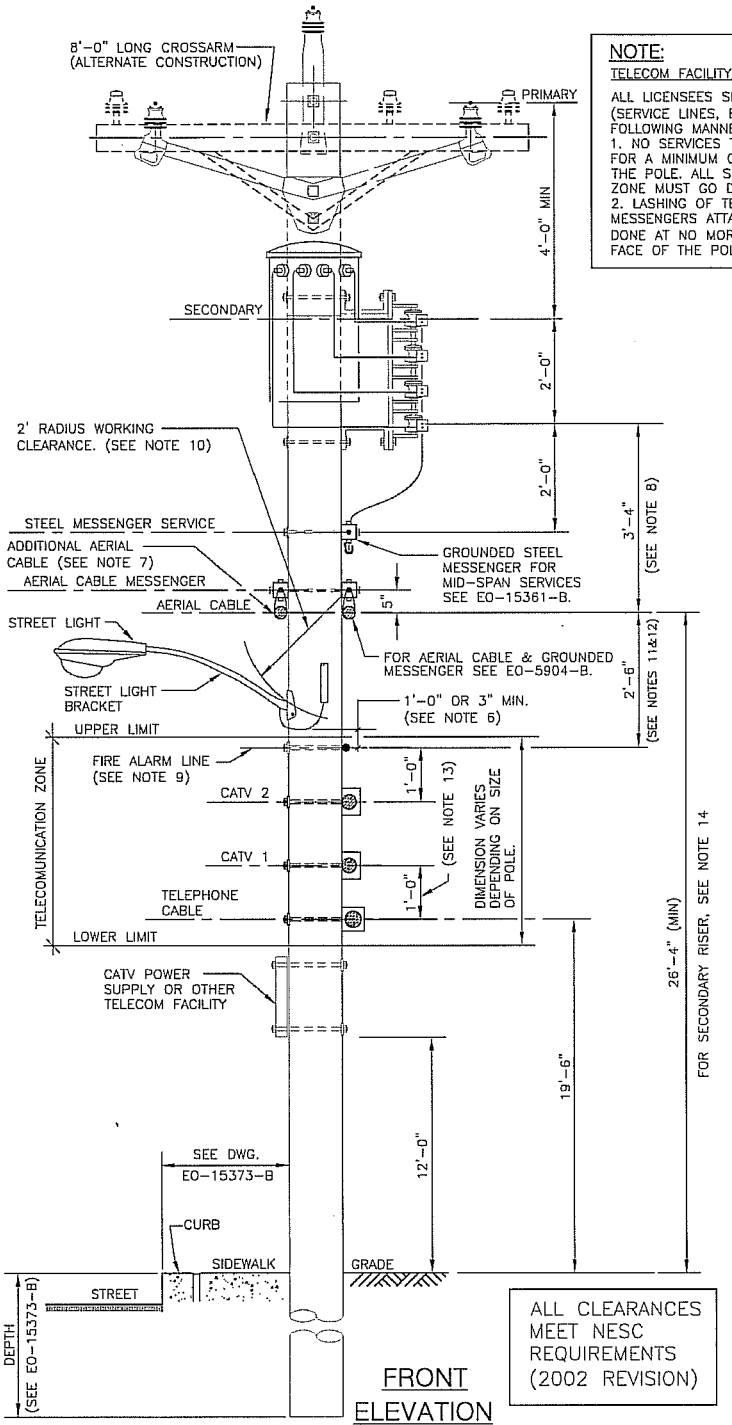
REVISIONS

L. SCALLY 8/6/03	1	SPEC. REVISED DUE TO COMPUTER GLITICH ONLY. NO DATA CHANGED. J.T. ABBRUSCATO 8/6/03
C. GRABOWSKI 11/6/03	2	ADDED NOTE FOR CLEARANCES AND NOTE 14. J.T. ABBRUSCATO 11/6/03
C. GRABOWSKI 3/11/04	3	CH'D 12' (TYP.) TO SEE DWG. EO-15373-B IN FRONT ELEVATION. ADDED NOTE 15 AND 20" MIN. DIM. BETWEEN XFORMER AND SERV. MESSENGER ON SIDE ELEV. CH'D DISTANCE BETWEEN AERIAL CABLE AND SECONDARY SPOOL FROM 3'-6" TO 3'-4" IN FRONT ELEVATION. H.J.M. 3/11/04

FIELD MANUAL #23
OVERHEAD CONSTRUCTION SECTION 1.1: CLEARANCES

FIELD MANUAL #9
OVERHEAD CONSTRUCTION SECTION 5: POLE INSTALLATION

CONSTRUCTION STDS. MANUAL NO.3 SECTION 5: POLES AND CROSSARMS



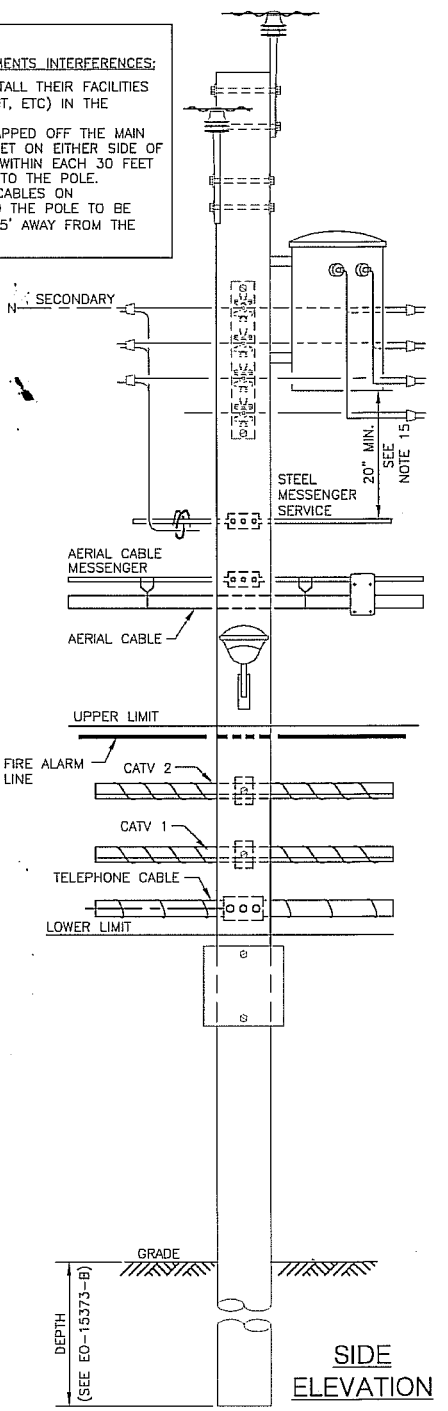
FRONT ELEVATION

NOTE:

TELECOM FACILITY ATTACHMENTS INTERFERENCES:

ALL LICENSEES SHALL INSTALL THEIR FACILITIES (SERVICE LINES, EQUIPMENT, ETC) IN THE FOLLOWING MANNER:
1. NO SERVICES TO BE TAPPED OFF THE MAIN FOR A MINIMUM OF 30 FEET ON EITHER SIDE OF THE POLE. ALL SERVICES WITHIN EACH 30 FEET ZONE MUST GO DIRECTLY TO THE POLE.
2. LASHING OF TELECOM CABLES ON MESSENGERS ATTACHED TO THE POLE TO BE DONE AT NO MORE THAN 5' AWAY FROM THE FACE OF THE POLE.

ALL CLEARANCES MEET NESC REQUIREMENTS (2002 REVISION)



SIDE ELEVATION

CONSTRUCTION NOTES

1. CABLE TV RISERS NOT ALLOWED ON POLES WHERE POWER OR TELEPHONE RISERS ARE PRESENT OR PROPOSED.
2. A 2'-6" SQUARE CLIMBING SPACE SHALL BE PROVIDED TANGENT TO THE POLE AND SHALL BE KEPT CLEAR OF SERVICE DROPS. ITS HEIGHT AND DEPTH SHALL EXTEND AT LEAST 3'-4" ABOVE AND BELOW ANY COMMUNICATION CABLE OR FACILITY.
3. ONE CURBSIDE QUADRANT SHOULD BE KEPT CLEAR OF SERVICE DROPS TO FACILITATE POLE REPLACEMENT AND DRIVEN GROUND ROD IF ANY.
4. MIN. MID SPAN CLEARANCES OF 12" BETWEEN UTILITY AERIAL CABLE AND CABLE TV.
5. GROUND FOR STREET LIGHT SHALL BE #6 AWG COPPER FROM BOTTOM OF STREET LIGHT BRACKET TO NEUTRAL.
6. 3" IF DRIP LOOP IS COVERED BY A SUITABLE 1/2" NONMETALLIC COVERING (STK. NO. 596-0745) WHICH EXTENDS AT LEAST 2" BEYOND THE LOOP.
7. ADDITIONAL 1 OR 2 AERIAL CABLES MAY BE INSTALLED IF PROPER POLE LOADING ANALYSIS HAS BEEN DONE, AND ADEQUATE CLEARANCES OF 2'-0" BETWEEN TOP AND BOTTOM AERIAL CABLES AND 1'-8" FROM TOP AERIAL CABLE TO LOWEST SECONDARY WIRE OR 1'-4" TO SERVICE MESSENGER ABOVE ARE MAINTAINED.
8. USE 1'-8" OF CLEARANCE IF STEEL MESSENGER SERVICE IS NOT INSTALLED.
9. IF FIRE ALARM WIRE IS NOT INSTALLED, FOLLOW MINIMUM CLEARANCE FROM LOWEST ELECTRIC LINE TO UPPER TELECOM LINE FACILITY.
10. IF THE STEEL MESSENGER SERVICE OR THE AERIAL CABLE/MESENGER SERVICE IS NOT INSTALLED, APPLY 2'-0" RADIUS WORKING CLEARANCE FROM LOWEST SECONDARY PHASE WIRE.
11. MAINTAIN 2'-6" MIN. CLEARANCE BETWEEN LOWEST AERIAL CABLE/MESSENGER SERVICE/GROUNDED EQUIPMENT CASING AND FIRE ALARM WIRE/UPPER TELECOM LINE.
12. IF AERIAL CABLE IS NOT INSTALLED, MAINTAIN 3'-4" CLEARANCE BETWEEN EITHER LOWEST SECONDARY PHASE WIRE OR STEEL MESSENGER SERVICE WIRE AND THE FIRE ALARM WIRE OR UPPER TELECOM LINE.
13. MAINTAIN 1'-0" CLEARANCE BETWEEN TELECOM FACILITIES.
14. EXPOSED SECONDARY CABLE AT TOP OF RISER PIPE TO HAVE 25'-0" MIN. CLEARANCE FROM GRADE PROVIDED 40" MIN CLEARANCE IS MAINTAINED FROM THE CLOSEST TELECOM WIRE AND THAT RISER IS INSTALLED AS PER EO-8302-B.
15. CLEARANCE OF 20" MIN. FROM BOTTOM OF TRANSFORMER TO GROUNDED SERVICE OR AERIAL CABLE MESSENGER; 30" TO TELECOM CABLE.

THIS DRAWING REPLACES EO-2079-B & EO-14060-B

POLE SPACE ALLOCATION AND TELECOM CLEARANCES

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
DISTRIBUTION ENGINEERING DEPT

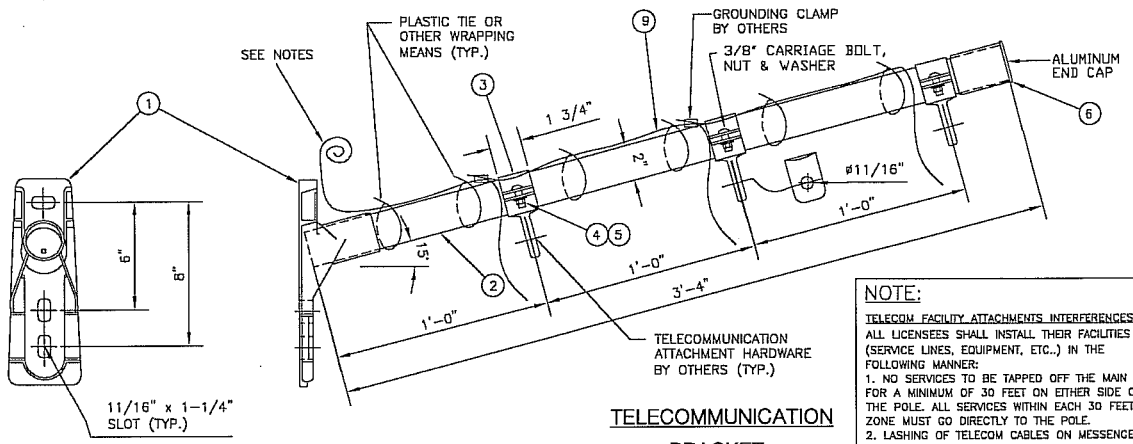
DATE 8/6/2003
LAST REV. 3/2/2003

DWG. NO. 335241 REV. 3

325595

REVISIONS

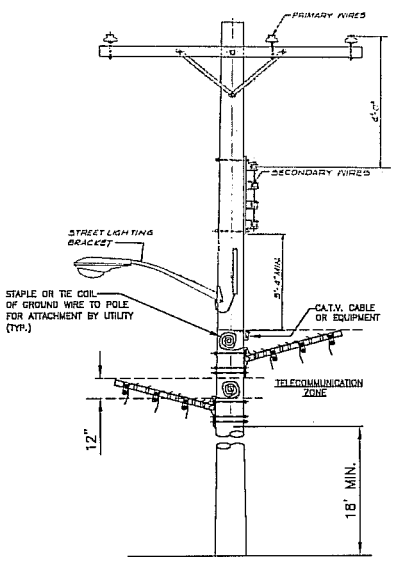
LUIS ORTEGA	1
DRAWING REVISED TO UPDATE BILL OF MATERIALS WITH C/S NO. FOR BRACKET ASSEMBLY. P/N 69970-SE	
10/02/01 A.D.	
LUIS ORTEGA	2
ADDED TELECOM FACILITY ATTACHMENT NOTE.	
2/11/03 JTA	
LEO SCALLY 12/4/03	3
ADDED FIELD MANUAL #23 INFO & NOTE 11.	
J.T. ABBRUSCATO 12/4/03	



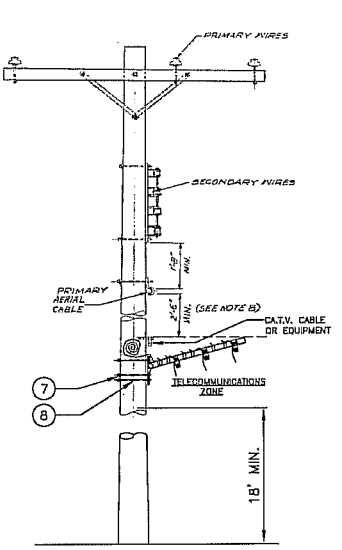
TELECOMMUNICATION BRACKET

NOTE:

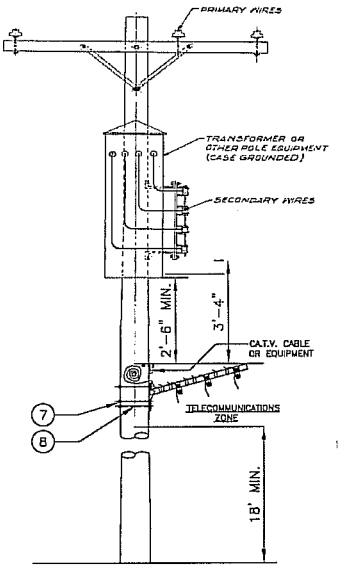
TELECOM FACILITY ATTACHMENTS INTERFERENCES:
ALL LICENSEES SHALL INSTALL THEIR FACILITIES (SERVICE LINES, EQUIPMENT, ETC..) IN THE FOLLOWING MANNER:
1. NO SERVICES TO BE TAPPED OFF THE MAIN FOR A MINIMUM OF 30 FEET ON EITHER SIDE OF THE POLE. ALL SERVICES WITHIN EACH 30 FEET ZONE MUST GO DIRECTLY TO THE POLE.
2. LASHING OF TELECOM CABLES ON MESSENGERS ATTACHED TO THE POLE TO BE DONE AT NO MORE THAN 5' AWAY FROM THE FACE OF THE POLE.



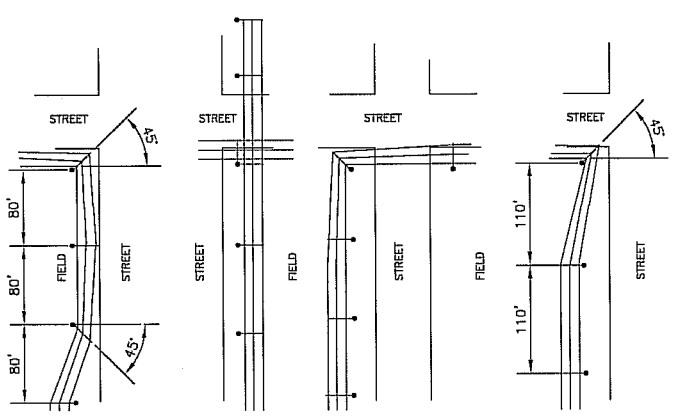
TELECOMMUNICATION BRACKET ON POLES WITH STREET LIGHTING BRACKET



TELECOMMUNICATION BRACKET ON LINE POLES



TELECOMMUNICATION BRACKET ON TRANSFORMER POLES



BRACKET/WIRE LOCATION DIAGRAMS

NOTES:

1. BRACKET TO BE INSTALLED ON TANGENT (STRAIGHT) OR ANGLE CONSTRUCTION. (UP TO 60 DEGREES FOR WIRE CURVATURES PULLING ARM AWAY FROM POLE; UP TO 90 DEGREES FOR WIRE CURVATURES PUSHING ARM INTO POLE).
2. POSITION BRACKET SO THAT THE HIGHEST POINT IS NOT CLOSER THAN 40 INCHES FROM THE NEAREST ENERGIZED ELECTRIC LINE.
3. INSTALL BRACKET ON FIELD SIDE POLES UNLESS PRECLUDED BY FIELD CONDITIONS.
4. FOLLOW CON EDISON TeAM GROUNDING POLICY AND PRACTICES TO GROUND MESSENGER SUPPORTING TELECOM FACILITIES.
5. FIRST ATTACH BRACKET TO POLE, THEN ATTACH GROUND WIRE FROM TELECOM MESSENGER, IF APPLICABLE, TO BRACKET AND EITHER TIE OR STAPLE COIL TO POLE FOR GECONY CONNECTION TO SYSTEM GROUNDED NEUTRAL WIRE. IF AN EQUIPMENT GROUNDING WIRE CONNECTS TO A DRIVEN GROUND ROD, THEN LICENSEES MAY ATTACH LICENSEES' GROUNDING WIRE TO THE EQUIPMENT GROUNDING WIRE AT A CONNECTION POINT WITHIN THE TELECOMMUNICATION ZONE. SUBSEQUENT LICENSES TO SECURE GROUNDING WIRE TO BRACKET AS SHOWN.
6. POSITION BRACKET SO THAT IT IS IN COMPRESSION (PUSHED INTO POLE).
7. ALL CROSSINGS SHOULD ONLY BE STRAIGHT OR AT 90°. DIAGONAL CROSSINGS ARE PROHIBITTED UNLESS APPROVED BY A REGIONAL COORDINATOR. (SEE DIAGRAMS B & C).
8. IF SPAN IS < 120' (LESS THAN 120 FEET) THEN SWITCH FROM FIELD SIDE TO STREET SIDE WITH A SECOND SPAN ATTACHING BRACKET ON 1ST POLE OF TRANSITION ON A 45° ANGLE. (SEE DIAGRAM A.)
9. IF SPAN IS >_120' (GREATER THAN OR EQUAL TO 120 FEET) THEN SWITCH FROM FIELD SIDE TO STREET SIDE WITH 1 SPAN. (SEE DIAGRAM D.)
10. IN CASES WHERE THERE ARE TWO ROUTES, AND 2 BRACKETS ARE REQUIRED, MAINTAIN A CLEARANCE OF 12" BETWEEN BRACKETS.
11. PRIMARY CONSTRUCTION MAY UTILIZE BI-WING/RIDGE PIN CONSTRUCTION.

REFERENCE STANDARDS:

- CON EDISON TeAM BRACKET APPLICATION POLICY_____POLICY # 001-01-0
- CON EDISON TeAM GROUNDING POLICY _____POLICY # 003-01-0
- CABLE TV CLEARANCES_____EO-14060-B
- SERVICE CONNECTION TO CABLE TV POWER SUPPLY_____EO-16286-C

FIELD MANUAL NO. 23
OH CONSTRUCTION
SECTION 3.5
SPECIAL CASES

FIELD MANUAL NO. 9
OH CONSTRUCTION
SECTION 5
POLE INSTALLATION

CONSTRUCTION STANDARDS MANUAL NO. 3,
SECTION NO. 5
POLES & CROSSARMS

ITEM #	DESCRIPTION	PARTS OR SPEC. #	CLASS/STOCK #
9.	GROUNDING WIRE, #6 AWG BARE COPPER		
8.	5/8" BOLT WITH NUT - 14" LONG	EO-100,031	007-0326
7.	3" SQ. CURVED WASHER FOR 5/8" BOLT	EO-100,034	007-2595
6.	ALUMINUM END CAP		
5.	3/8" NUT AND WASHER		
4.	3/8" CARRIAGE BOLT		
3.	SUSPENSION ADAPTER WITH 11/16" DIA. EYE		
2.	2" HEAVY DUTY FIBERGLASS TUBULAR BRACKET ASSEMBLY	GPB-58HK-122436-E	007-9251
1.	DUCTILE IRON BASE		

BILL OF MATERIALS

FIBERGLASS TELECOMMUNICATION BRACKET FOR TANGENT AND ANGLE CONSTRUCTION

CONSOLIDATED EDISON COMPANY OF N.Y., INC.
DISTRIBUTION ENGINEERING DEPT

DATE 8/08/01
LAST REV. 12/4/03

DWG. NO. 325595 REV. 3