

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

May 28, 2019

Scott Pike
Site Acquisition Specialist
Empire Telecom USA, LLC
16 Billerica Road
Billerica, MA 01862

RE: **EM-AT&T-094-190514** – AT&T Mobility notice of intent to modify an existing telecommunications facility located at 99 Cedarwood Lane, Newington, Connecticut.

Dear Mr. Pike:

The Connecticut Siting Council (Council) is in receipt of your correspondence of May 22, 2019 submitted in response to the Council's May 15, 2019 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/IN/emr



CONNECTICUT SITING COUNCIL

Affirmative Action / Equal Opportunity Employer

Robidoux, Evan

From: Scott Pike <spike@empiretelecomm.com>
Sent: Wednesday, May 22, 2019 9:40 AM
To: Nwankwo, Ifeanyi
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-AT&T-094-190514-CedarwoodLn-Newington
Attachments: 18000.21 CT1145 NEWINGTON LTE 5C_6C_7C_FIRSTNET - CD Rev1 19.05.22 (S&S)....pdf

Hello,

Please see the attached revised CD's with the new IBC codes. A hard copy is being mailed to you overnight.

Thanks!

From: Nwankwo, Ifeanyi [mailto:ifeanyi.Nwankwo@ct.gov]
Sent: Monday, May 20, 2019 12:22 PM
To: Scott Pike
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-AT&T-094-190514-CedarwoodLn-Newington

Hi Mr. Pike,
Good Morning, and thank you for your email. The Council requires one hard copy and one electronic copy of the response to the incomplete request for exempt modifications.
Upon receipt of the response, it is reviewed and if found satisfactory will be rendered complete and the request processed in accordance with the FCC's 60-day timeframe.

I hope this answers your question.
Please don't hesitate to contact me if you have any more questions.

Thank You.

Best Regards
Ifeanyichukwu Nwankwo
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051
P: 860.827.2941 | F: 860.827.2950 | E: ifeanyi.Nwankwo@ct.gov



www.ct.gov/csc

*Conserving, improving and protecting our natural resources and environment;
Ensuring a clean, affordable, reliable, and sustainable energy supply.*

From: Scott Pike [<mailto:spike@empiretelecomm.com>]
Sent: Friday, May 17, 2019 4:09 PM
To: Robidoux, Evan
Cc: CSC-DL Siting Council
Subject: RE: Council Incomplete Letter for EM-AT&T-094-190514-CedarwoodLn-Newington

Hello, I will have the CD's revised with the new codes. When I have these can I email over a copy for you to review and approve?

Thanks,

From: Robidoux, Evan [<mailto:Evan.Robidoux@ct.gov>]
Sent: Friday, May 17, 2019 4:04 PM
To: Scott Pike
Cc: CSC-DL Siting Council
Subject: Council Incomplete Letter for EM-AT&T-094-190514-CedarwoodLn-Newington

Please see the attached correspondence.

Evan Robidoux
Clerk Typist
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Disclaimer: This email is intended only for the use of the individual or entity to which it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you received this communication in error, please do not distribute it and notify us immediately by email (administrator@qualtekservices.com) or via telephone (484.804.4500) and delete the original message. Unless expressly stated in this email, nothing in this message or any attachment should be construed as a digital or electronic signature.

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WIRELESS COMMUNICATIONS FACILITY

CT1145 - LTE 5C/6C/7C FIRSTNET

NEWINGTON

99 CEDARWOOD LANE

NEWINGTON, CT 06111

GENERAL NOTES

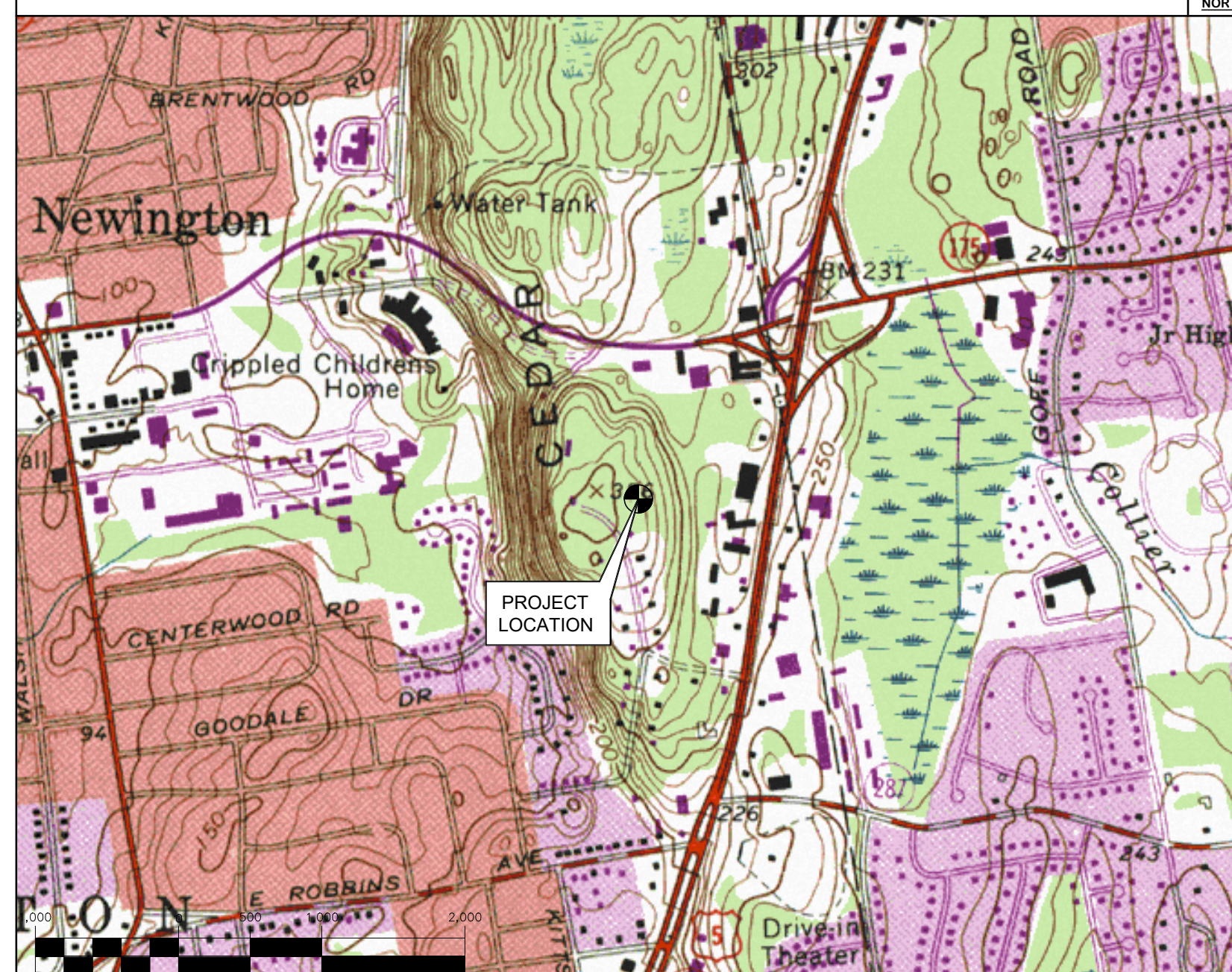
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2018 CONNECTICUT STATE BUILDING CODE, INCLUDING THE TIA-222 REVISION "G" STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES, 2018 CONNECTICUT FIRE SAFETY CODE AND, 2017 NATIONAL ELECTRICAL CODE AND LOCAL CODES.
- THE COMPOUND, TOWER, PRIMARY GROUND RING, ELECTRICAL SERVICE TO THE METER BANK AND TELEPHONE SERVICE TO THE DEMARCATION POINT ARE PROVIDED BY SITE OWNER. AS BUILT FIELD CONDITIONS REGARDING THESE ITEMS SHALL BE CONFIRMED BY THE CONTRACTOR. SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
- CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
- CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
- CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
- CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN 'AS-BUILT' SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
- LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
- DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- ANY AND ALL ERRORS, DISCREPANCIES, AND 'MISSED' ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE AT&T CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO 'EXTRA' WILL BE ALLOWED FOR MISSED ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
- CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
- COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
- ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION WORK. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
- CONTRACTOR SHALL COMPLY WITH OWNERS ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

SITE DIRECTIONS

FROM: 500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT	TO: 99 CEDARWOOD LANE NEWINGTON, CONNECTICUT
1. TURN LEFT ONTO CAPITAL BLVD.	0.36 MI
2. TURN LEFT ONTO WEST ST.	0.27 MI
3. TURN RIGHT ONTO CROMWELL AVE/CT-3.	0.59 MI
4. TURN LEFT ONTO NEW BRITAIN AVE/CT-160.	0.81 MI
5. TAKE THE 3RD RIGHT ONTO HAYES RD.	0.39 MI
6. HAYES RD BECOMES HIGHLAND ST.	0.82 MI
7. HIGHLAND ST BECOMES THORNBUSH RD.	0.66 MI
8. TURN LEFT ONTO PROSPECT ST/CT-287.	0.57 MI
9. TURN LEFT ONTO US-5 S/CT-15 S/CT-287/BERLIN TURNPIKE.	0.77 MI
10. TAKE THE 1ST RIGHT ONTO E ROBBINS AVE/CT-287.	0.06 MI
11. TAKE THE 1ST RIGHT ONTO GOODALE DR.	0.22 MI
12. TAKE THE 1ST RIGHT ONTO CEDARWOOD LN.	0.10 MI
13. 99 CEDARWOOD LN, NEWINGTON, CT 06111-3127, 99 CEDARWOOD LN IS ON THE LEFT.	0.50 MI

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

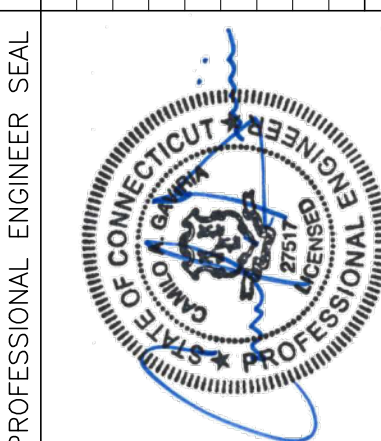
- THE PROPOSED SCOPE OF WORK CONSISTS OF A MODIFICATION TO THE EXISTING UNMANNED TELECOMMUNICATIONS FACILITY INCLUDING THE FOLLOWING:
 - AT ANTENNA SECTORS:**
 - REPLACE THE EXISTING ANTENNA BOOM MOUNTS WITH NEW BOOM MOUNTS AS SPECIFIED HEREIN (TYPICAL OF (3)).
 - INSTALL KATHREIN ANTENNA AT POS 3. (TOTAL OF 3)
 - INSTALL (1) DC SQUID
 - INSTALL RRUS-32 B66 AT POS. 3. (TOTAL OF 3)
 - INSTALL B14-4478 AT POS. 3. (TOTAL OF 3)
 - AT THE EQUIPMENT SHELTER**
 - REMOVE EXISTING RRU RACK AND REPLACE WITH NEW RRU RACK TO ACCOMMODATE EXISTING/PROPOSED EQUIPMENT.
 - RRUS (TOTAL OF 6) FROM EXISTING RACK, TO BE MOUNTED ON NEWLY PROPOSED RACK.
 - INSTALL (3) RRUS-E2 ON NEWLY PROPOSED RRU RACK WITH (6) SURGE ARRESTORS (APDC-BDFM-DB)
 - IN LTE RACK, ADD 2ND 5216 WITH XMU AND IDLe.

PROJECT INFORMATION

AT&T SITE NUMBER:	CT1145
AT&T SITE NAME:	NEWINGTON
SITE ADDRESS:	99 CEDARWOOD LANE NEWINGTON, CT 06111
LESSEE/APPLICANT:	AT&T MOBILITY 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067
AT&T PACE ID NUMBER:	PACE JOB 1 - MRCTB024103 PACE JOB 2 - MRCTB022772
AT&T FA LOCATION CODE:	10035097
ENGINEER:	CENITEK ENGINEERING, INC. 63-2 NORTH BRANFORD RD. BRANFORD, CT 06405
PROJECT COORDINATES:	LATITUDE: 41°-41'-41.25" N LONGITUDE: 72°-42'-32.37" W GROUND ELEVATION: ±345' AMSL SITE COORDINATES AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	0
N-1	NOTES, SPECIFICATIONS AND ANTENNA SCHEDULE	0
C-1	PLANS AND ELEVATION	0
C-2	ANTENNA CONFIGURATION DETAILS	0
C-3	DETAILS	0
C-4	DETAILS	0
E-1	SCHEMATIC DIAGRAM AND NOTES	0
E-2	WIRING DIAGRAM	0
E-3	TYPICAL ELECTRICAL DETAILS	0



CENITEK engineering
Centered on Solutions
(203) 488-0380
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CenitekEng.com

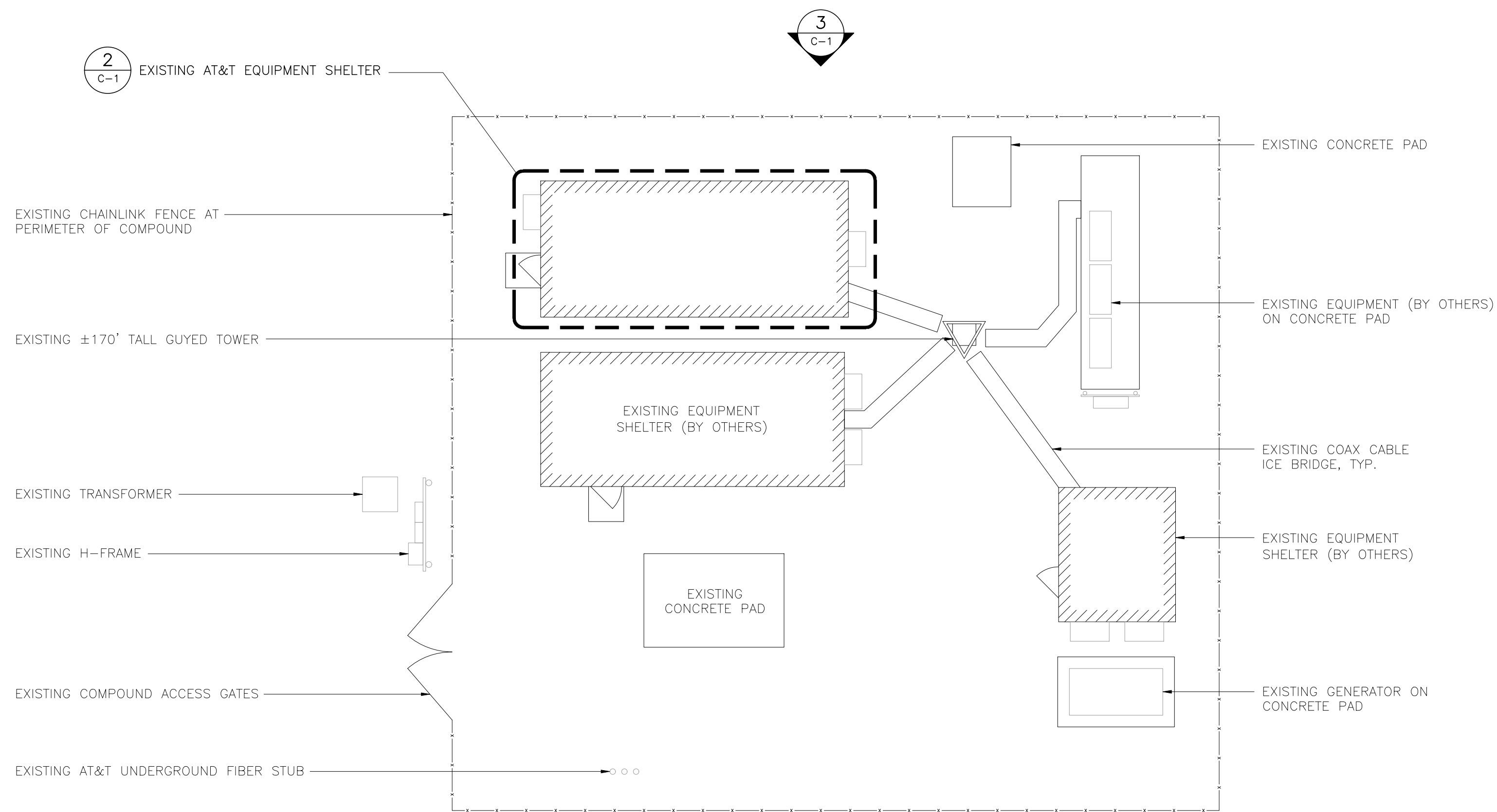
AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY
NEWINGTON
CT1145 - LTE 5C/6C/7C FIRSTNET
99 CEDARWOOD LANE
NEWINGTON, CT 06111

DATE: 03/15/18
SCALE: AS NOTED
JOB NO. 18000.21

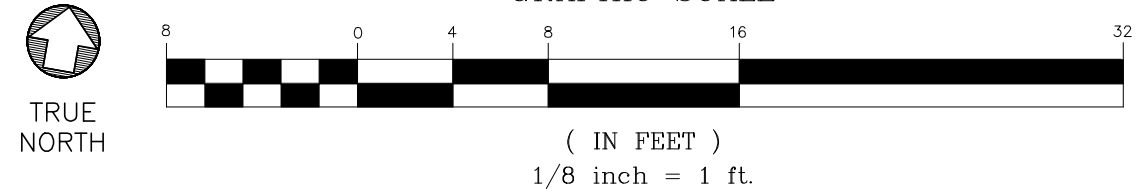
TITLE SHEET

T-1
Sheet No. 1 of 9

REV.	DATE	DRAWN BY	CHK'D BY	CAG	CAG	CONSTRUCTION DRAWINGS -	REVISD PER BUILDING CODE
1	05/22/19	RTS				CONSTRUCTION DRAWINGS - <td>ISSUED FOR CONSTRUCTION</td>	ISSUED FOR CONSTRUCTION
0	05/31/18	DMD				CONSTRUCTION DRAWINGS - <td>ISSUED FOR CONSTRUCTION</td>	ISSUED FOR CONSTRUCTION

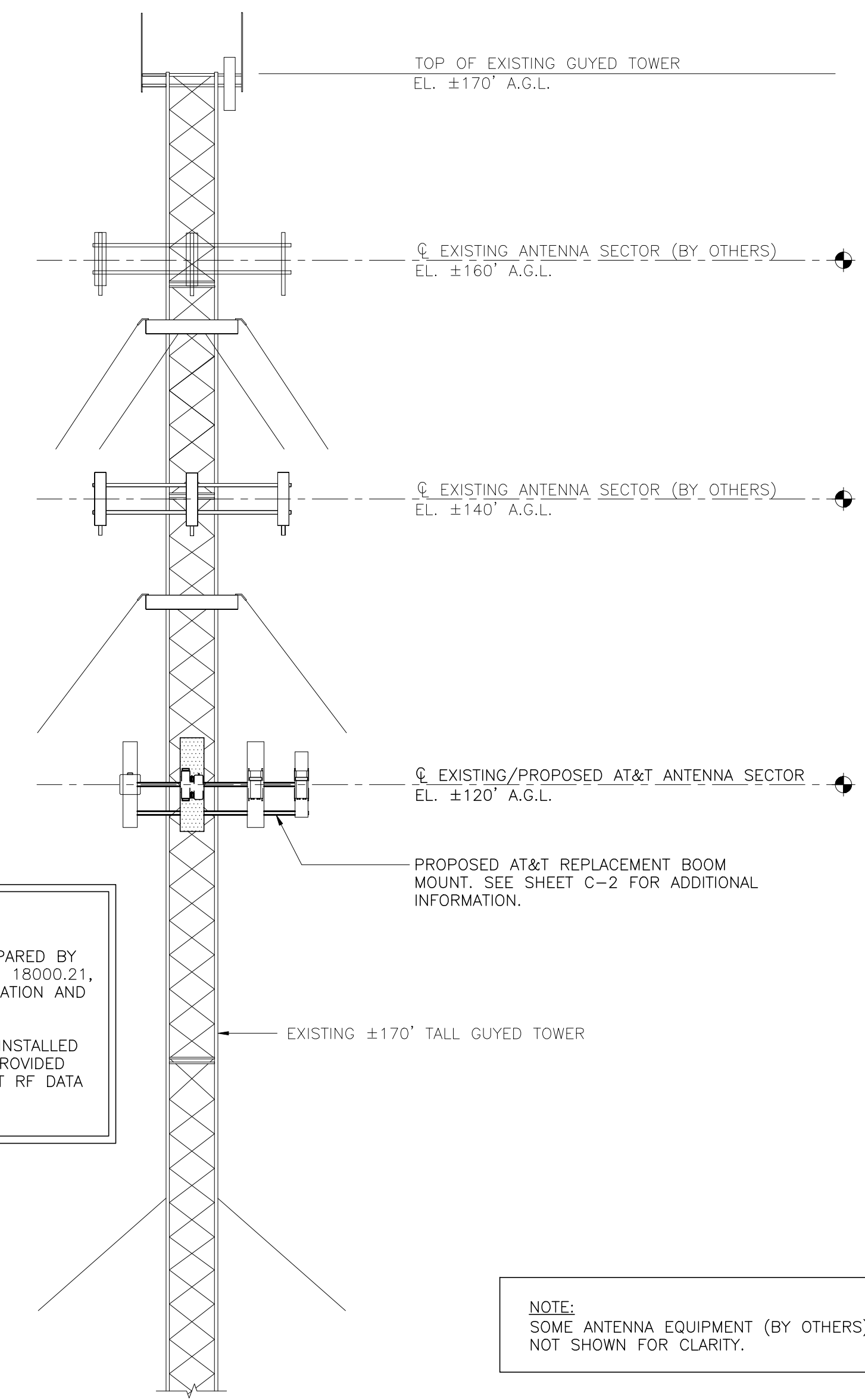


1 PARTIAL SITE PLAN
SCALE: 1/8" = 1'-0"

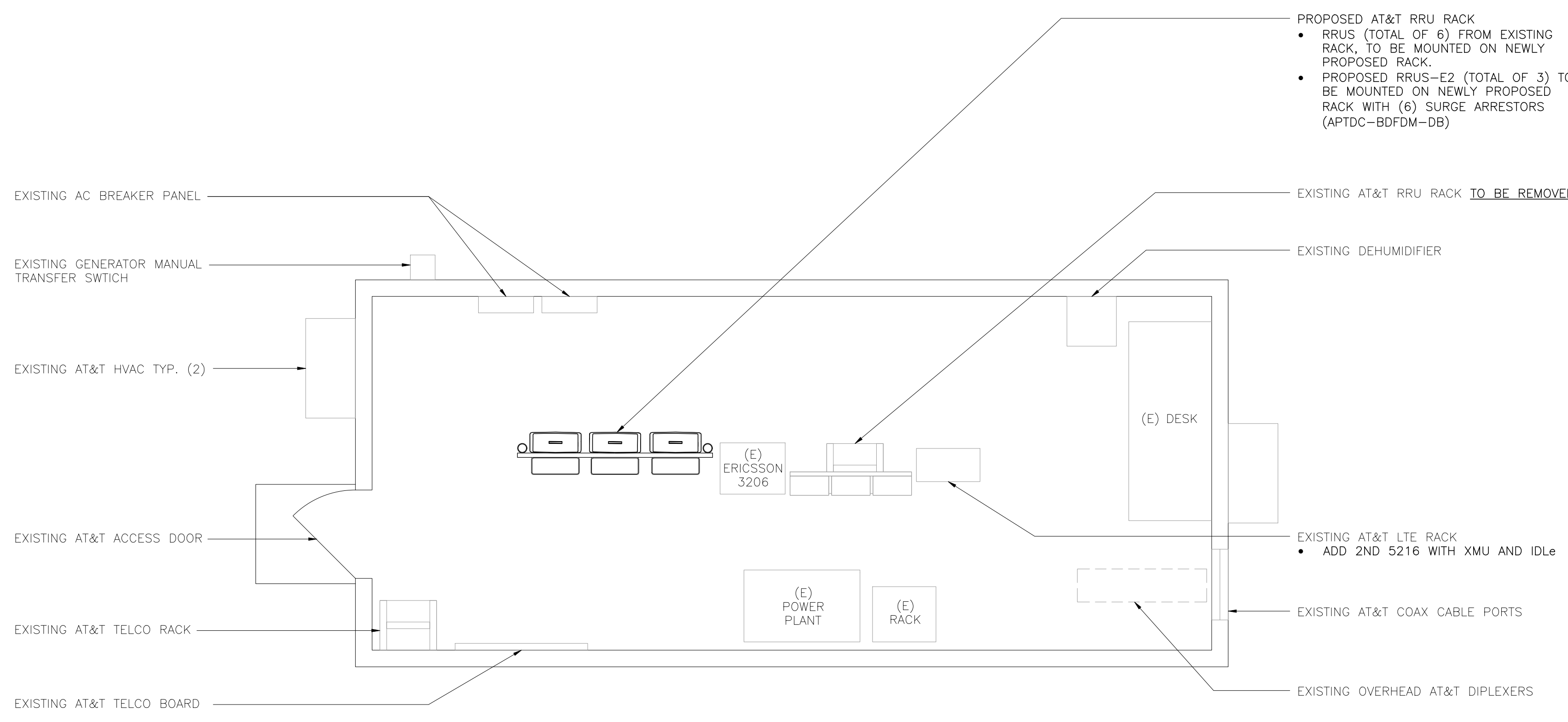


TOWER STRUCTURAL NOTES:

- REFER TO STRUCTURAL ANALYSIS REPORT PREPARED BY CENTEK ENGINEERING, INC., CENTEK PROJ. NO. 18000.21, DATED MAY 25, 2018, FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- ALL ANTENNAS AND ASSOCIATED CABLES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY CENTEK ENGINEERING, INC. AND FINAL AT&T RF DATA SHEET.



NOTE:
SOME ANTENNA EQUIPMENT (BY OTHERS) NOT SHOWN FOR CLARITY.

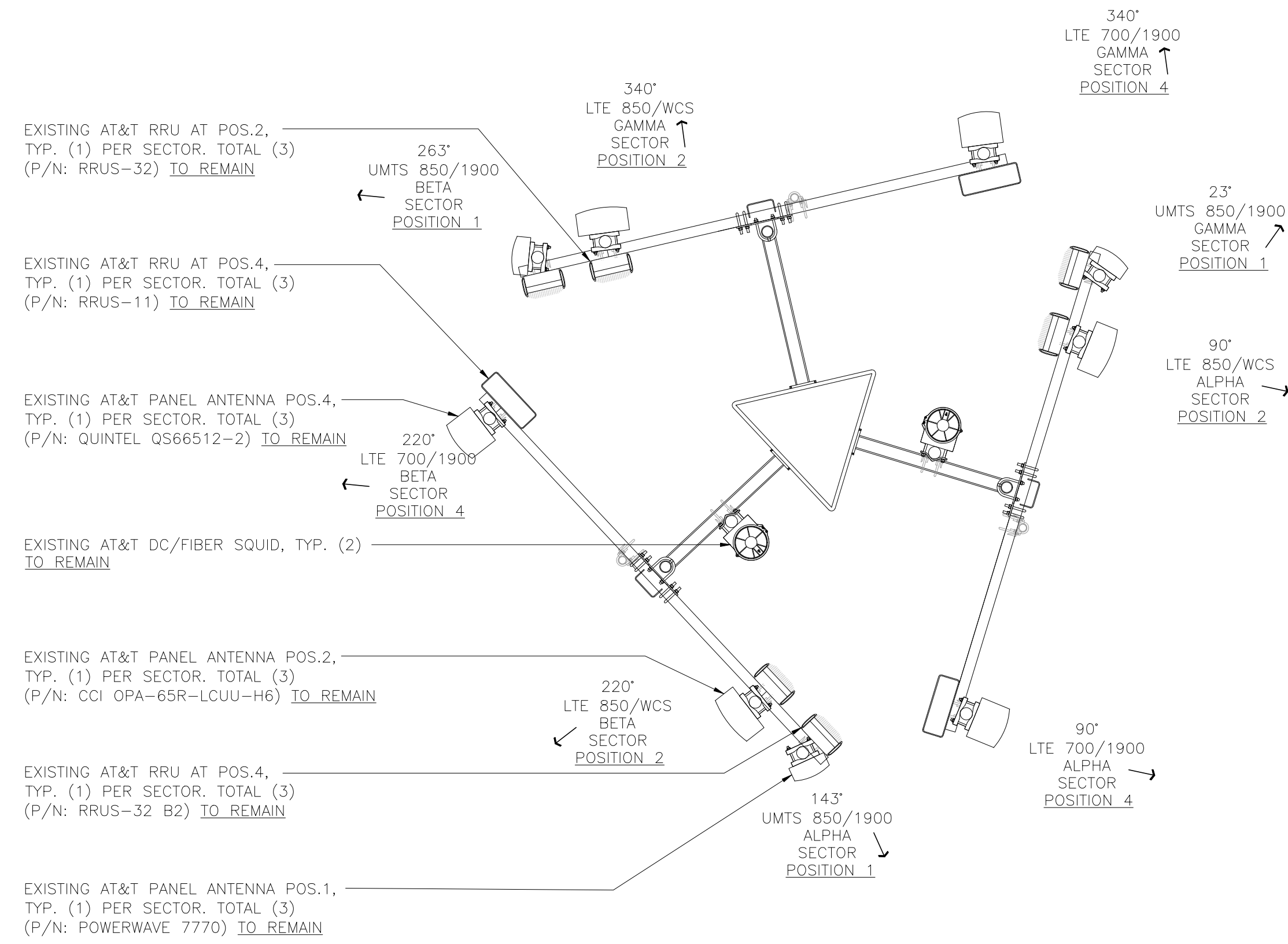


2 PROPOSED EQUIPMENT LAYOUT PLAN
SCALE: 3/8" = 1'-0"

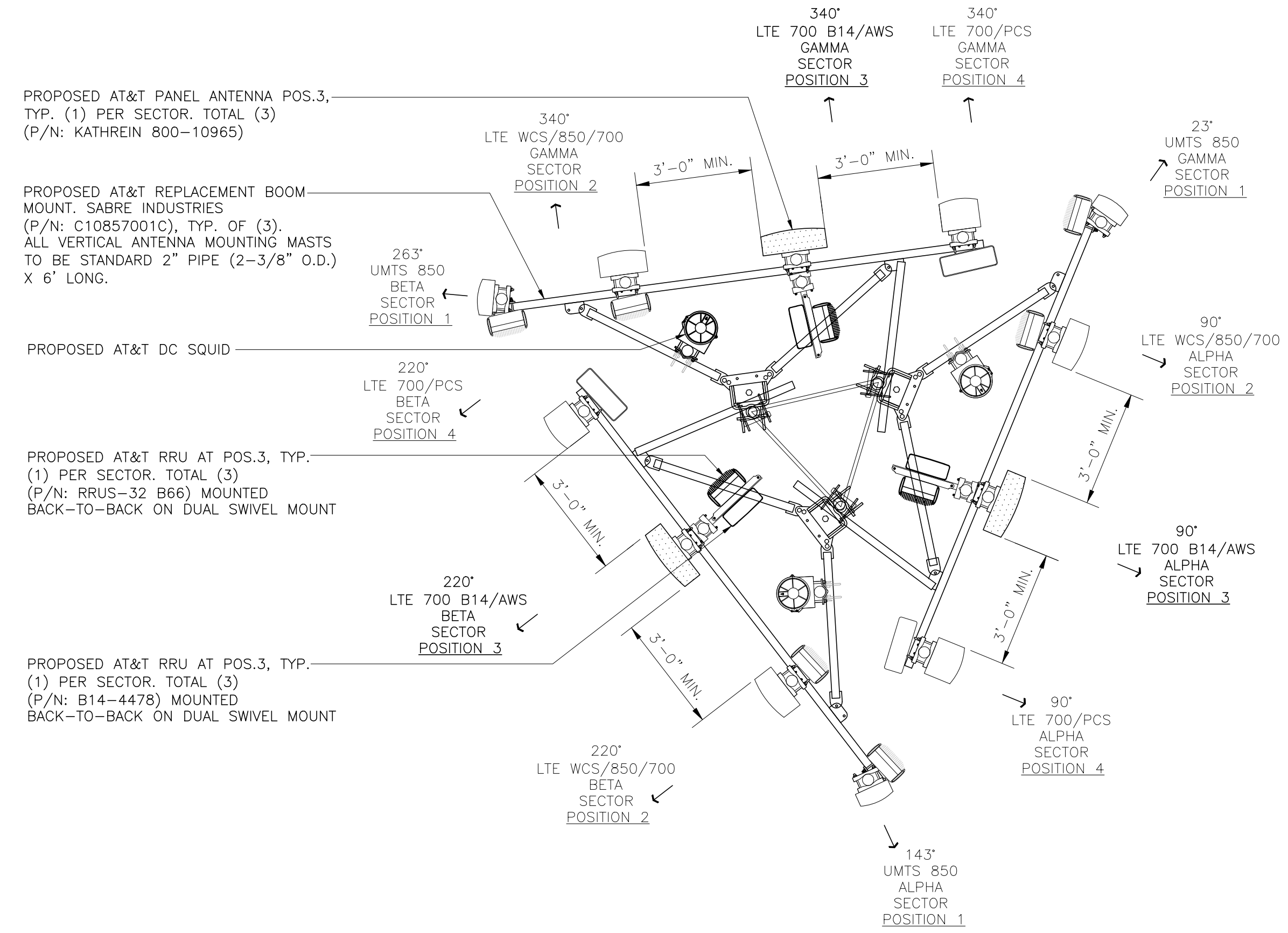


3 PARTIAL NORTH ELEVATION - PROPOSED
SCALE: 1/8" = 1'-0"

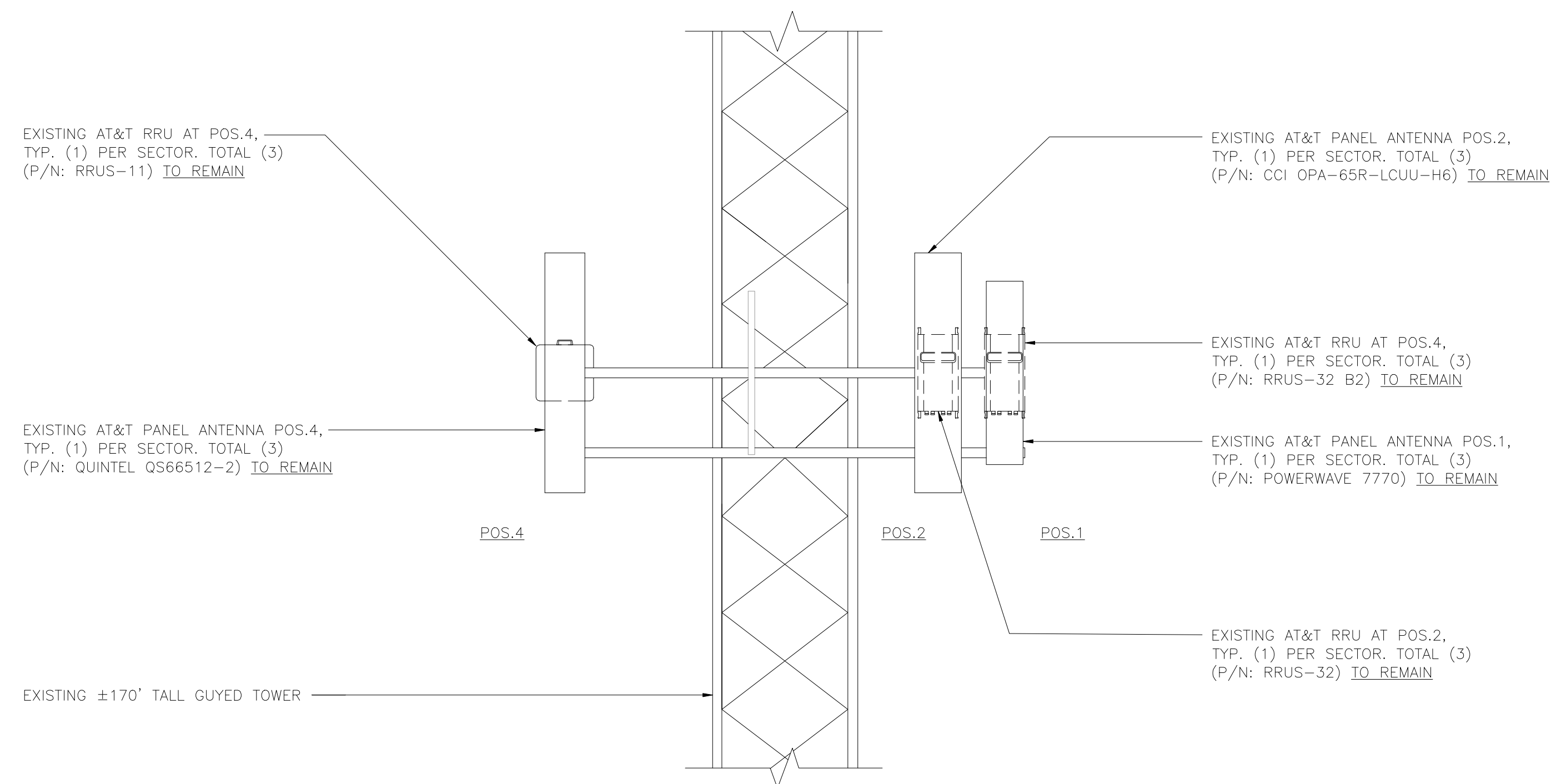
PROFESSIONAL ENGINEER SEAL	
	(203) 488-0380 (203) 488-8587 Fax 65-2 North Branford Road Branford, CT 06405 www.CentekEng.com
AT&T MOBILITY WIRELESS COMMUNICATIONS FACILITY NEWINGTON CT1145 - LTE 5C/6C/7C FIRSTNET 99 CEDARWOOD LANE NEWINGTON, CT 06111	DATE: 03/15/18 SCALE: AS NOTED JOB NO. 18000.21
PLANS AND ELEVATION C-1	Sheet No. 3 of 9



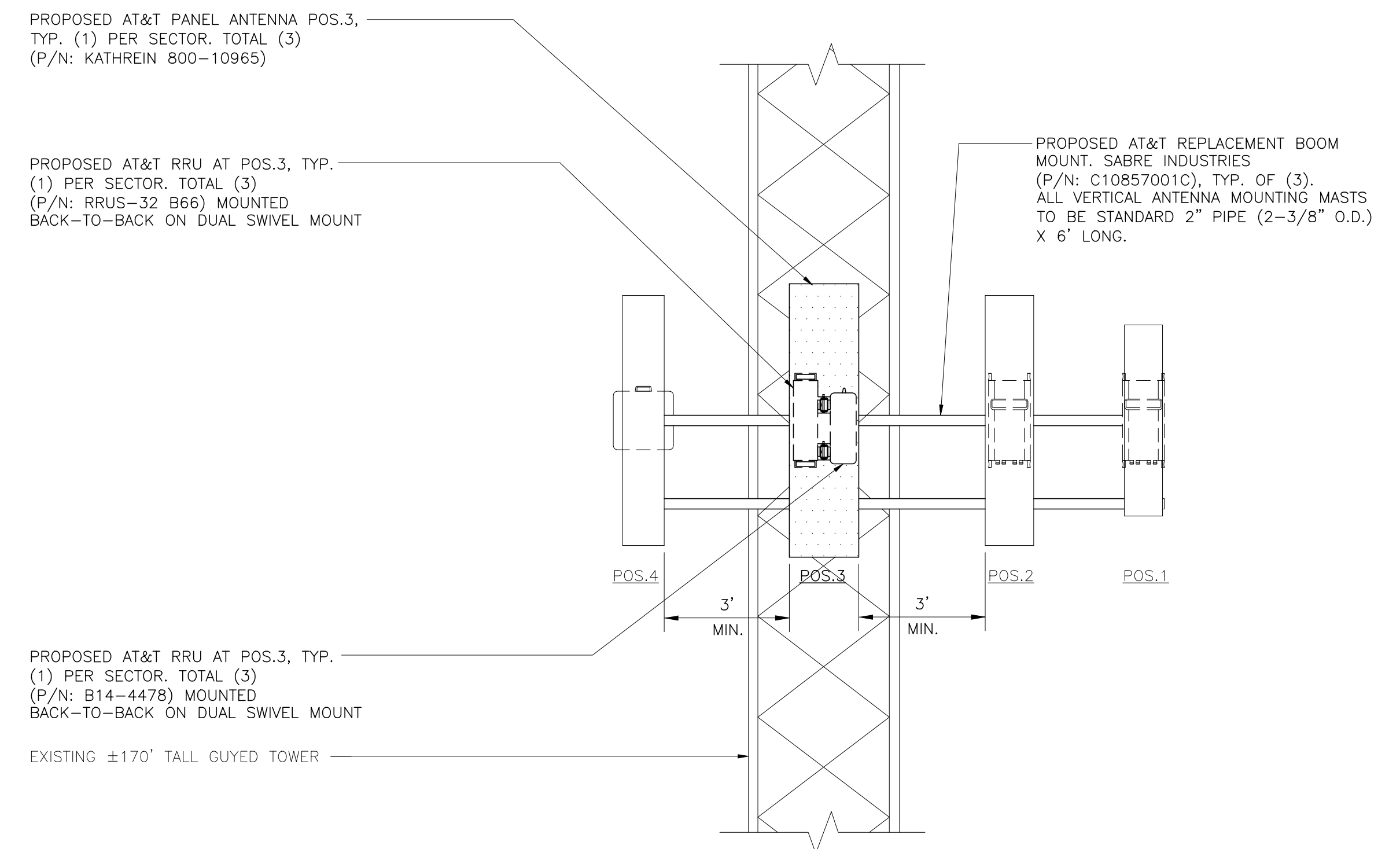
1 EXISTING ANTENNA PLAN
 C-2 SCALE: 3/8" = 1'-0"
 TRUE NORTH



2 PROPOSED ANTENNA PLAN
 C-2 SCALE: 3/8" = 1'-0"
 TRUE NORTH



1A EXISTING ANTENNA ELEVATION
 C-2 SCALE: 3/8" = 1'-0"



2A PROPOSED ANTENNA ELEVATION
 C-2 SCALE: 3/8" = 1'-0"

REV.	DATE	DRAWN BY/CHK'D BY	DESCRIPTION
1	05/22/19	RTS	CAG CONSTRUCTION DRAWINGS - REVISED PER BUILDING CODE
0	05/31/18	DMD	CAG CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION



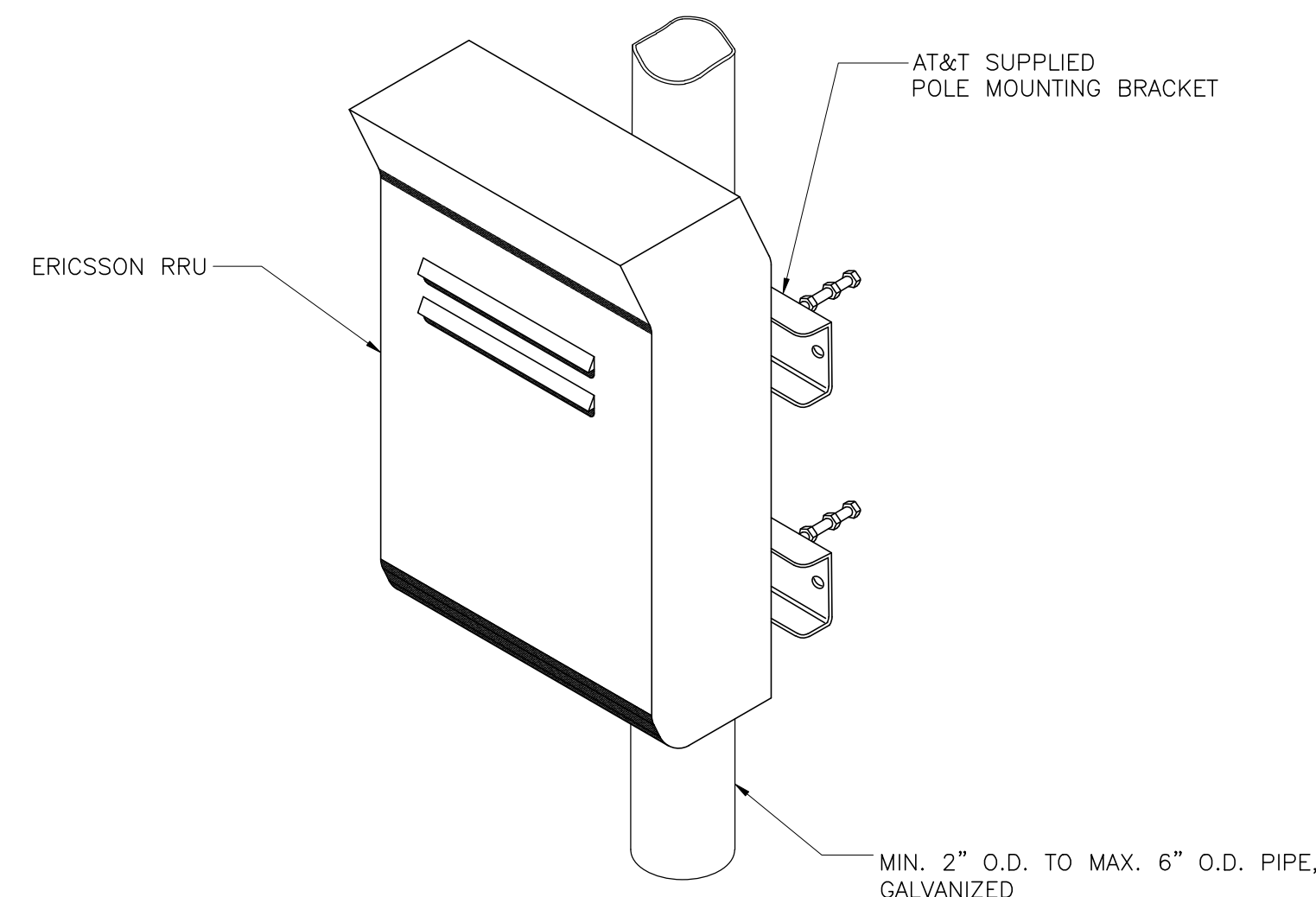
CENTER engineering
 Centered on Solutions
 (203) 488-0380
 (203) 488-8587 Fax
 63-2 North Branford Road
 Branford, CT 06405
 www.CenterEng.com

AT&T MOBILITY
 WIRELESS COMMUNICATIONS FACILITY
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 99 CEDARWOOD LANE
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DATE: 03/15/18
 SCALE: AS NOTED
 JOB NO. 18000.21

ANTENNA CONFIGURATION DETAILS

C-2

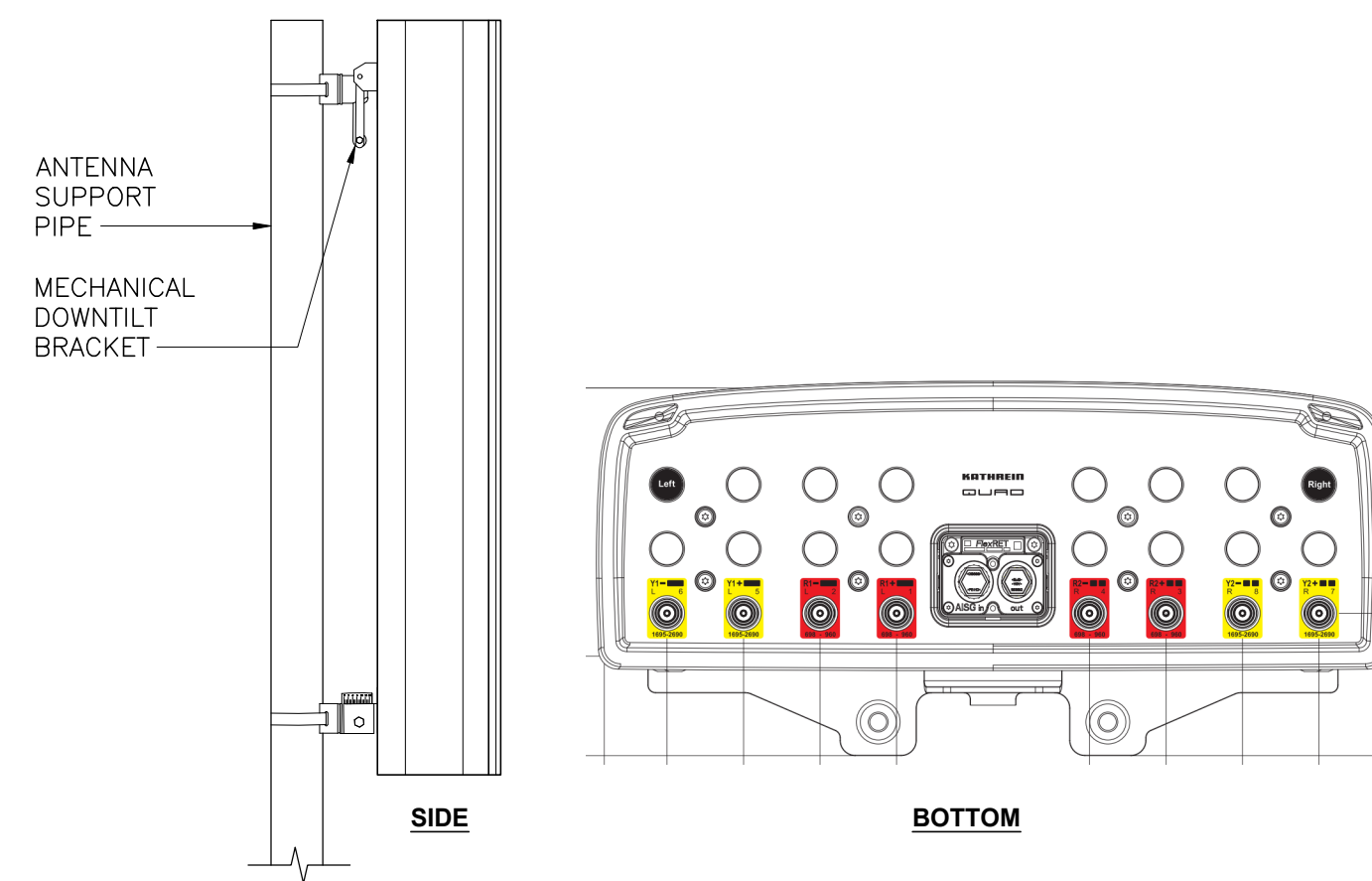


ISOMETRIC VIEW

NOTES:

1. AT&T SHALL SUPPLY RRU, AND RRU POLE-MOUNTING BRACKET. CONTRACTOR SHALL SUPPLY POLE/PIPE AND INSTALL ALL MOUNTING HARDWARE INCLUDING ERICSSON RRU POLE-MOUNTING BRACKET. CONTRACTOR SHALL INSTALLS RRU AND MAKES CABLE TERMINATIONS.
2. NO PAINTING OF THE RRU OR SOLAR SHIELD IS ALLOWED.

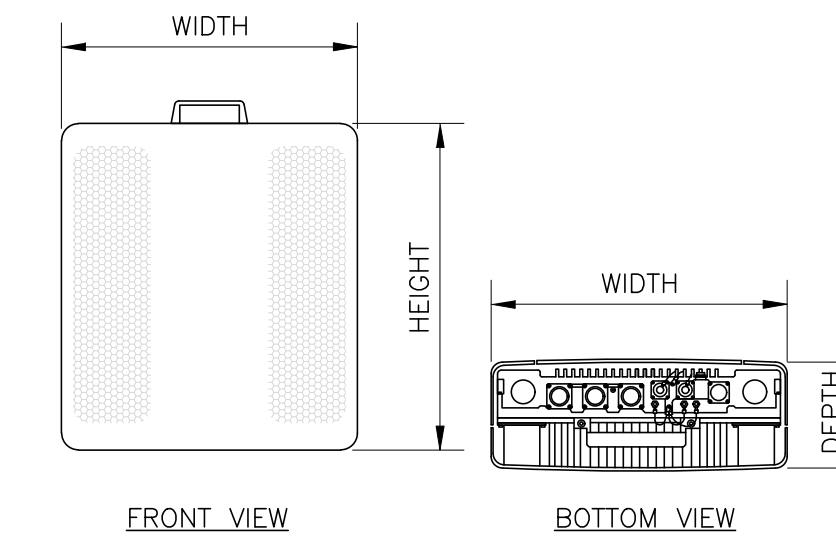
1 TYPICAL RRUS MOUNTING DETAILS
C-3 NOT TO SCALE



ALPHA/BETA/GAMMA ANTENNA

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: KATHREIN MODEL: 800-10965	78.7"L x 20"W x 6.9"D	108.6 LBS.

2 PROPOSED ANTENNA DETAIL
C-3 NOT TO SCALE



FRONT VIEW BOTTOM VIEW

RRU (REMOTE RADIO UNIT)

EQUIPMENT	DIMENSIONS	WEIGHT	CLEARANCES
MAKE: ERICSSON MODEL: RRUS-E2	20.4"L x 18.5"W x 7.5"D	50 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. FRONT: 36" MIN.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.

3 ERICSSON RRUS-E2 DETAIL
C-3 NOT TO SCALE

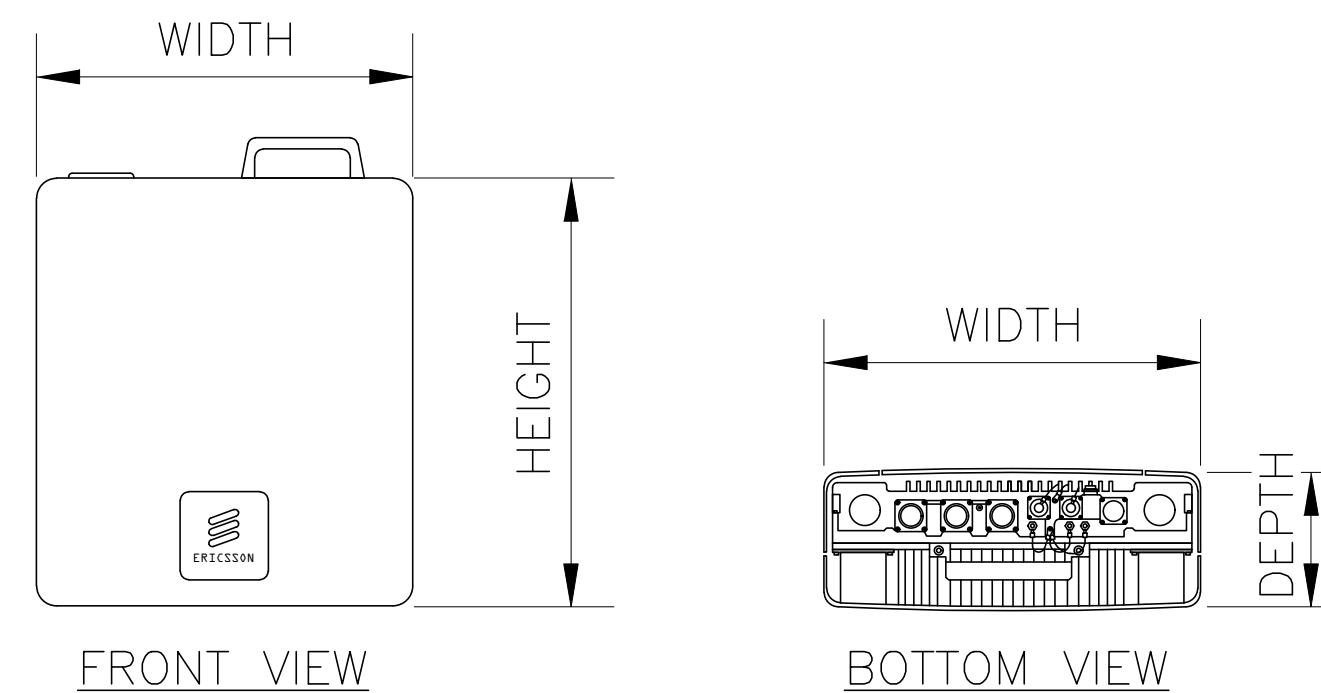


SURGE ARESSTOR

EQUIPMENT	DIMENSIONS	WEIGHT
MAKE: ANDREW MODEL: APTDC-BDFDM-DB	3.46"H x 3.46"W x 1.65"D	1.32 LBS.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.

4 ANDREW APTDC-BDFDM-DB DETAIL
C-3 NOT TO SCALE



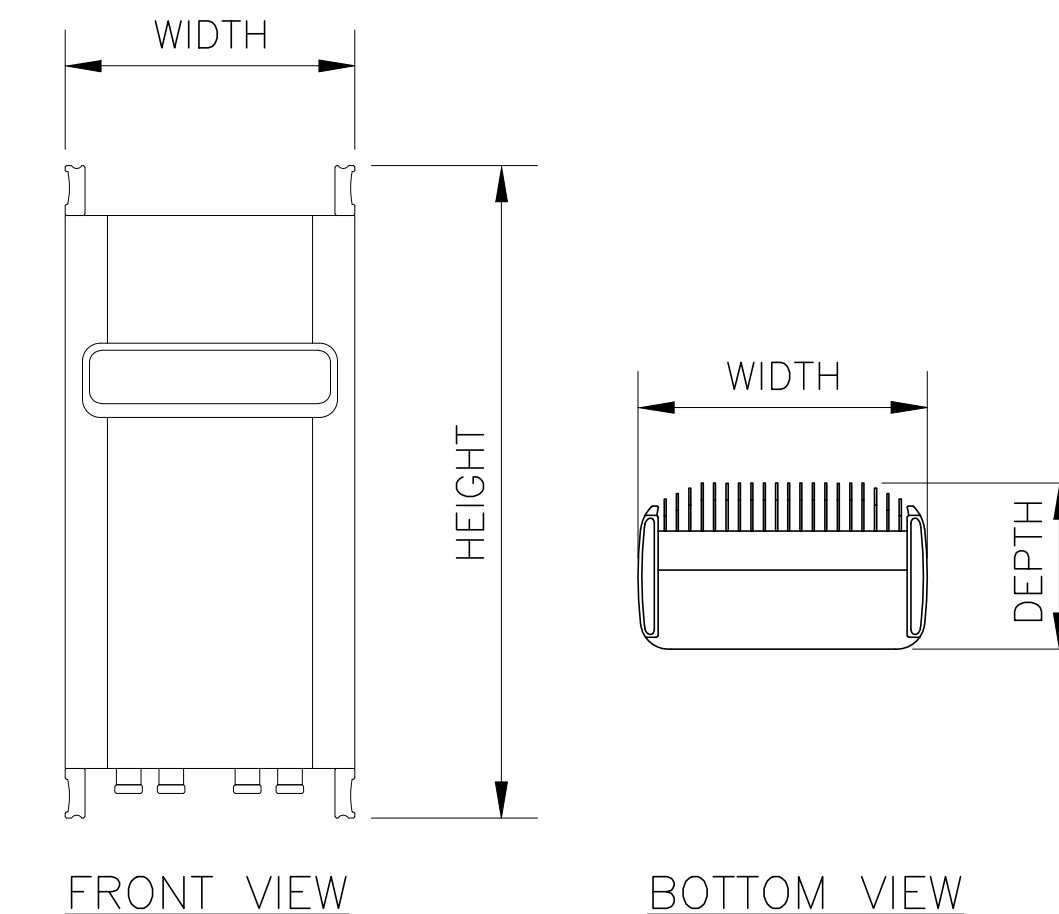
FRONT VIEW BOTTOM VIEW

RRU (REMOTE RADIO UNIT)

EQUIPMENT	DIMENSIONS	WEIGHT	CLEARANCES
MAKE: ERICSSON MODEL: B14 4478	14.9"L x 13.1"W x 7.3"D	60 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. FRONT: 36" MIN.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.

5 ERICSSON B14 4478 DETAIL
C-3 NOT TO SCALE



FRONT VIEW BOTTOM VIEW

RRU (REMOTE RADIO UNIT)

EQUIPMENT	DIMENSIONS	WEIGHT	CLEARANCES
MAKE: ERICSSON MODEL: RRU-32 B66	27.17"L x 12.05"W x 7.01"D	52.91 LBS.	ABOVE: 16" MIN. BELOW: 12" MIN. FRONT: 36" MIN.

NOTES:
1. CONTRACTOR TO COORDINATE FINAL EQUIPMENT MODEL SELECTION WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.

6 ERICSSON RRUS-32 B66 DETAIL
C-3 NOT TO SCALE

PROFESSIONAL ENGINEER SEAL



CENTEK engineering
Centered on Solutions
(203) 488-0380
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

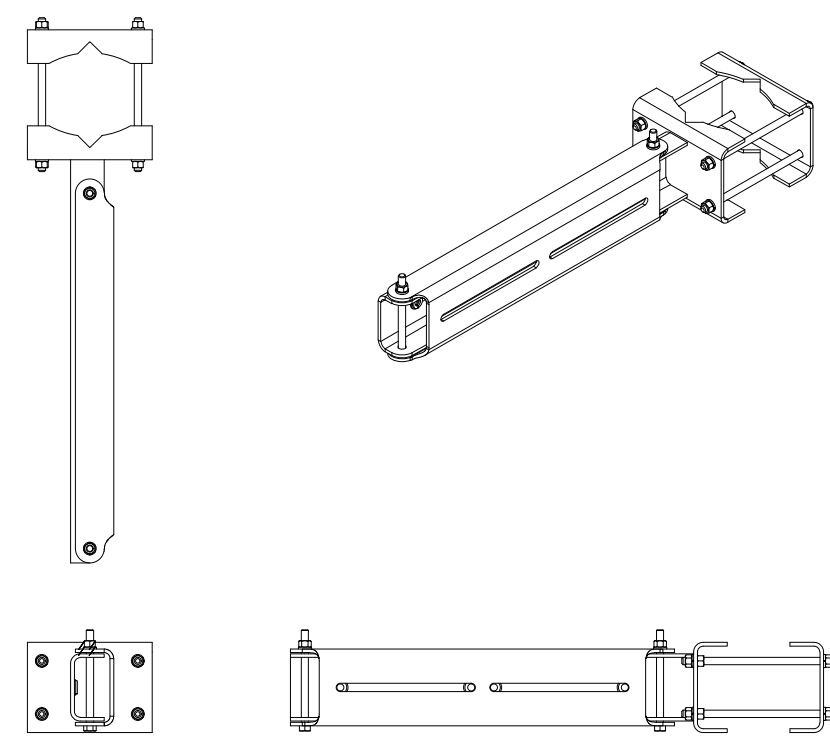
AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY
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99 CEDARWOOD LANE
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DATE: 03/15/18
SCALE: AS NOTED
JOB NO. 18000.21

DETAILS

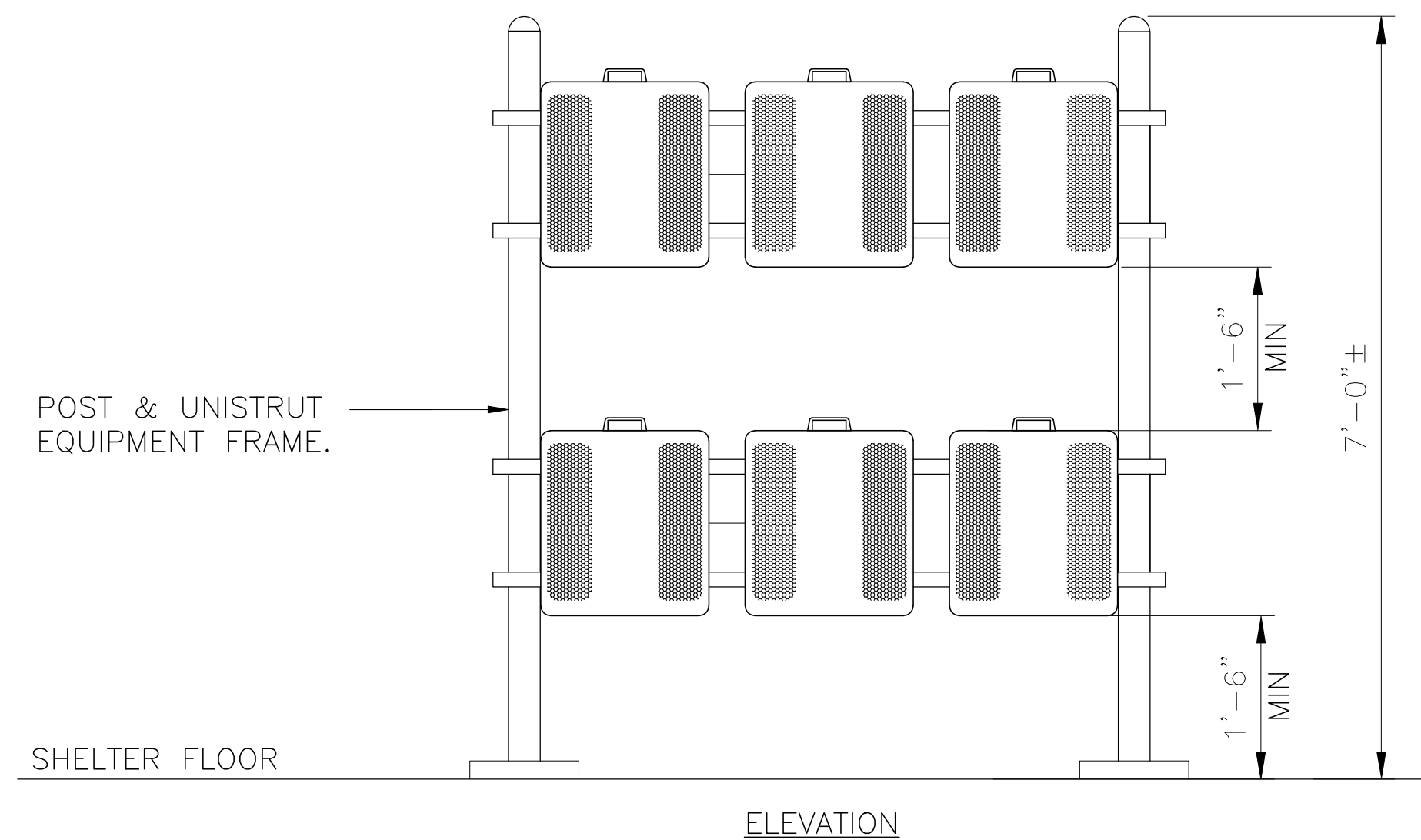
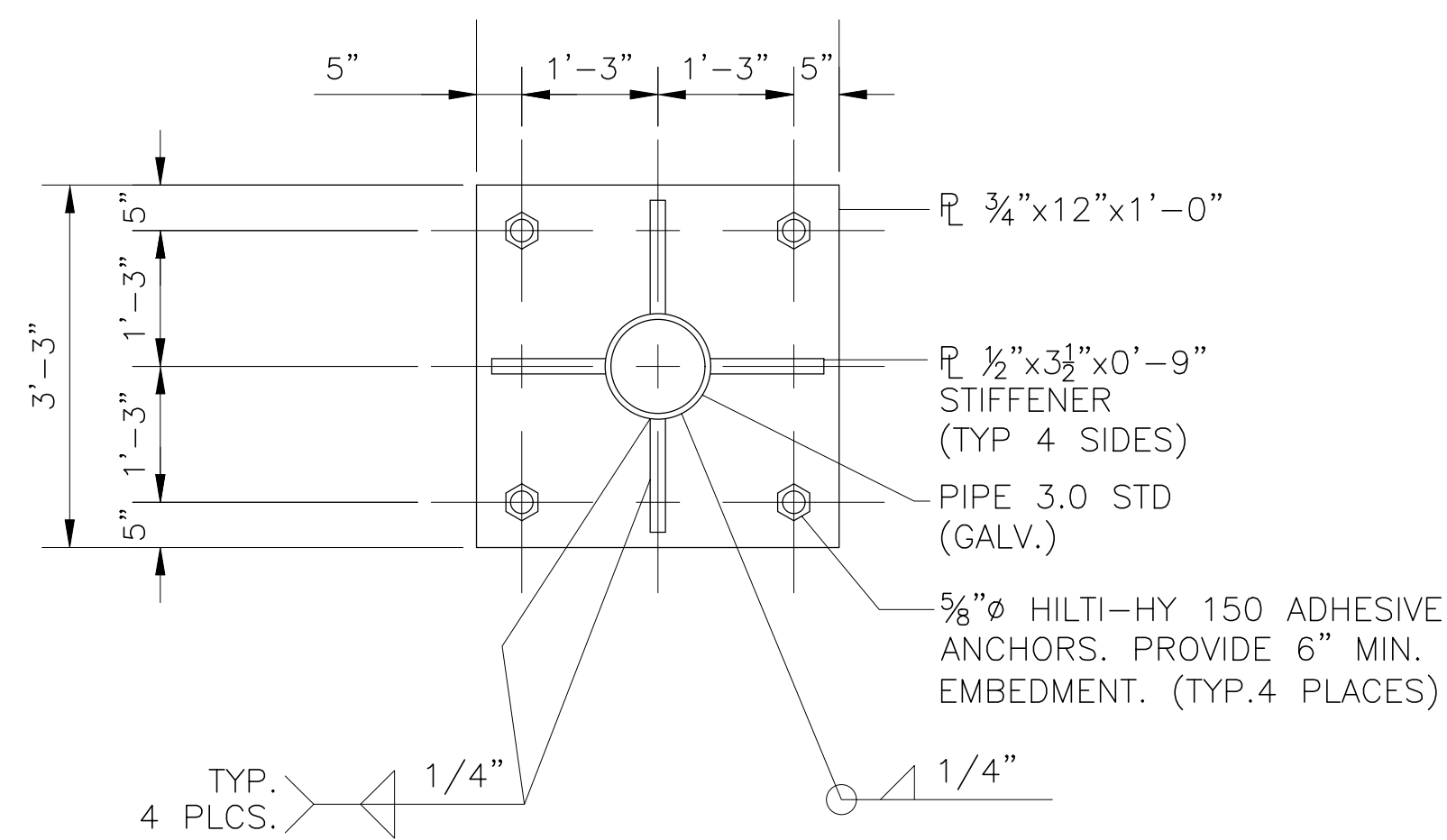
C-3
Sheet No. 5 of 9

REV.	DATE	BY	CHK'D	DESCRIPTION
1	05/22/19	RTS	CAG	CONSTRUCTION DRAWINGS - REVISED PER BUILDING CODE
0	05/31/18	DMD	CAG	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION

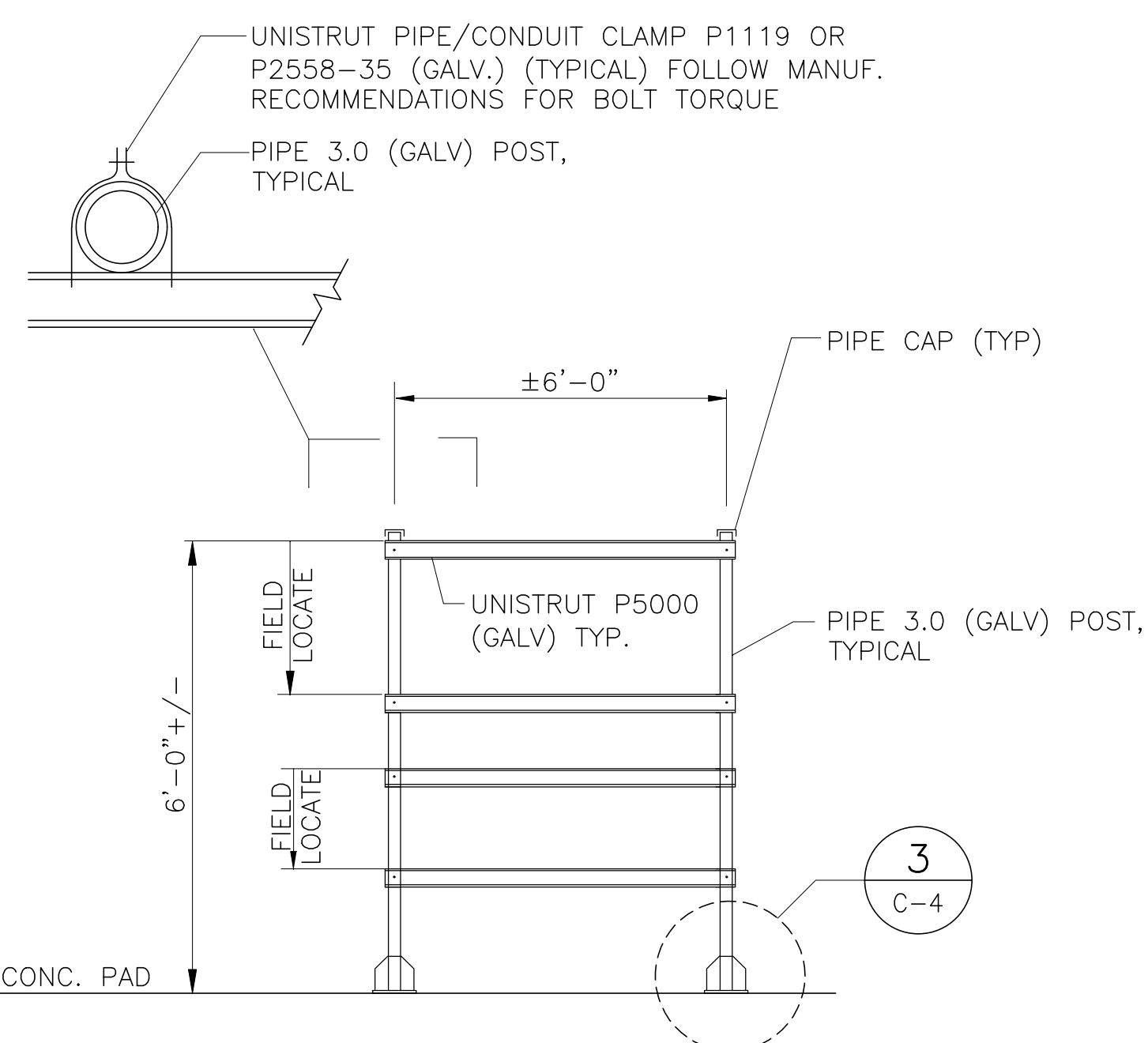


RRU DUAL SWIVEL MOUNT			
EQUIPMENT	DIMENSIONS		WEIGHT
MAKE: SITE PRO 1	27.75'L x 6.5"W x 4.7"D		39.4 LBS.
PART NO.: RRUDSM			

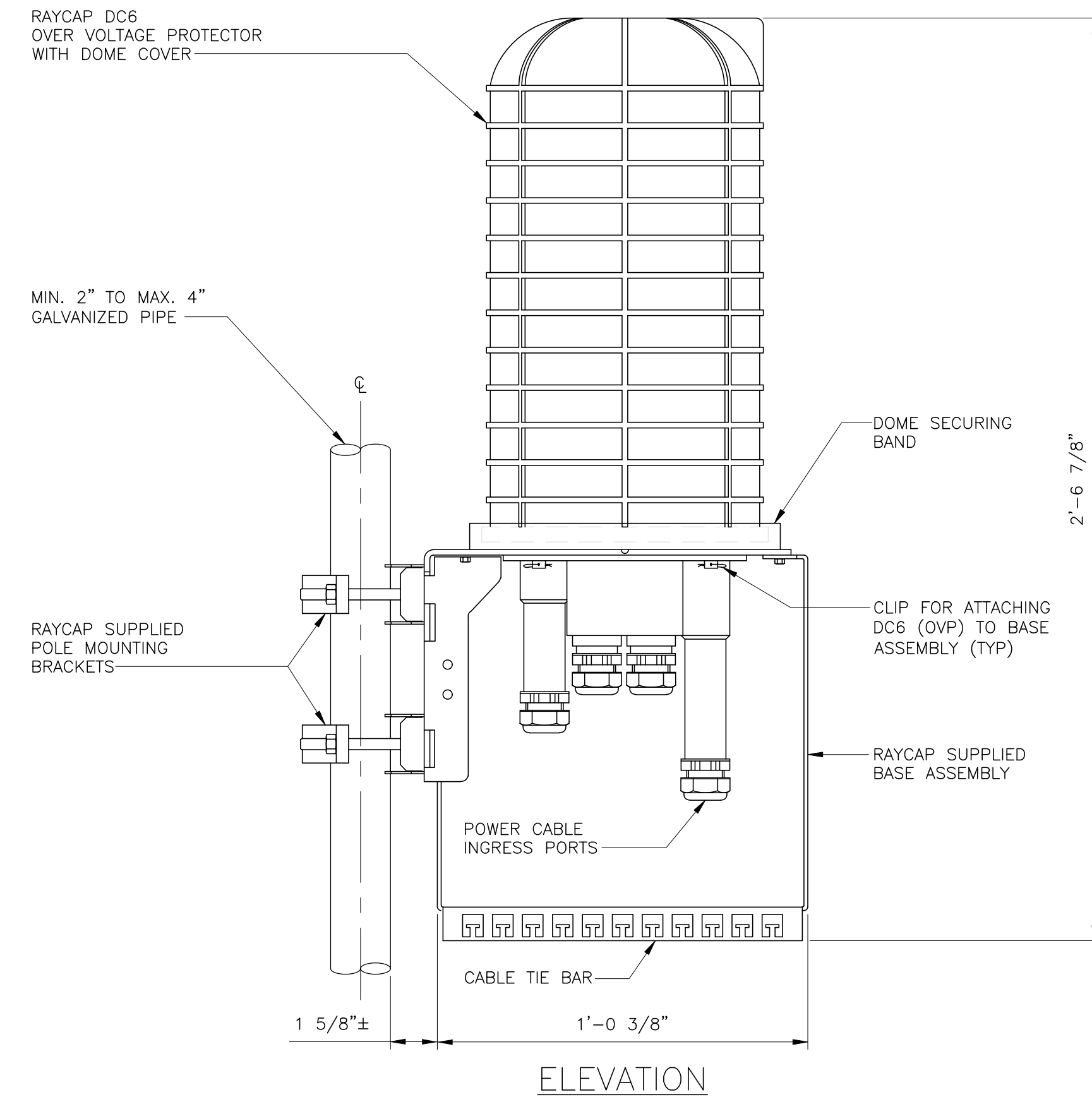
1 RRU DUAL SWIVEL MOUNT DETAIL
C-4 NOT TO SCALE



2 EQUIPMENT FRAME ELEVATION DETAIL
C-4 NOT TO SCALE



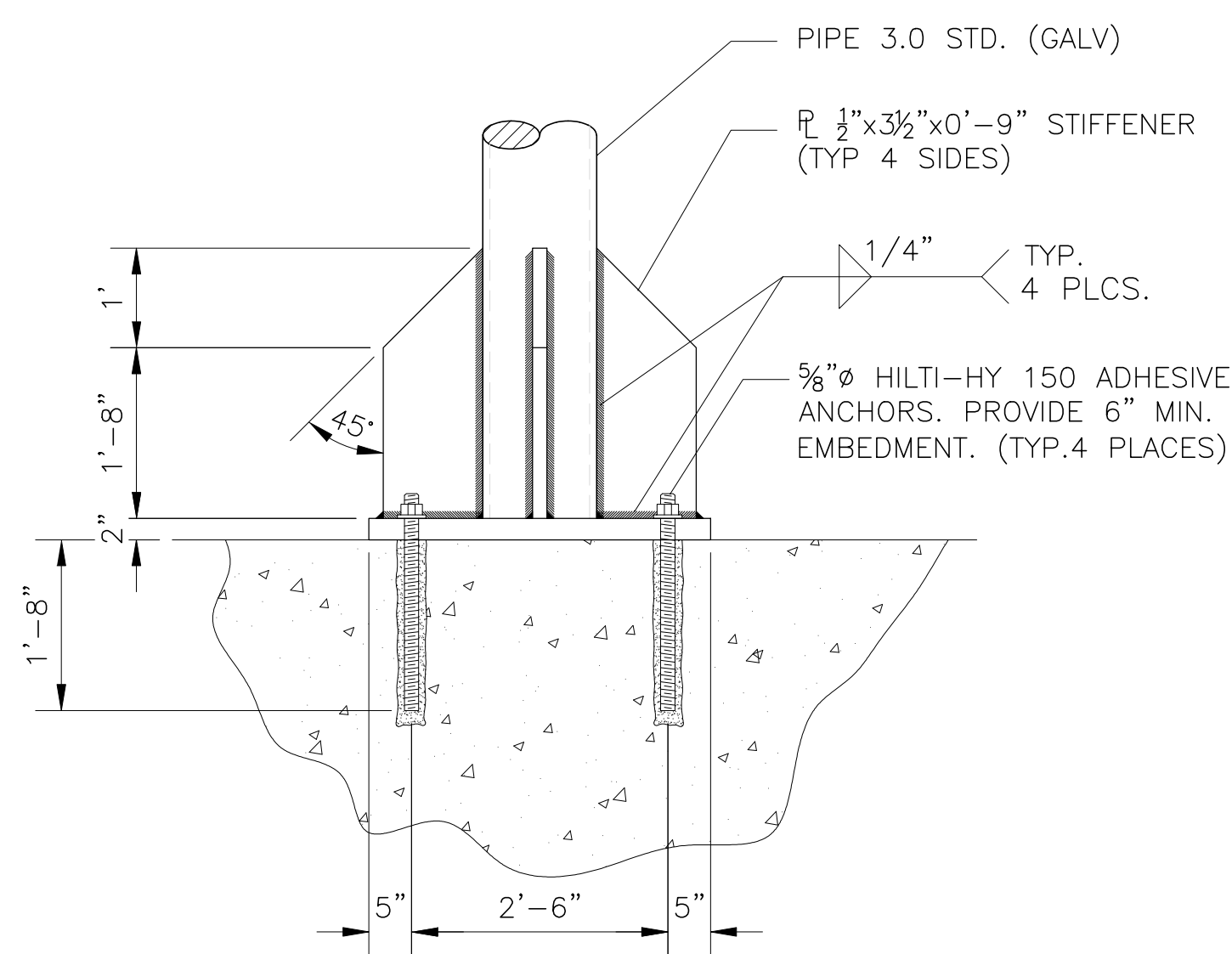
4 EQUIPMENT MOUNTING FRAME DETAIL (TYP)
C-4 NOT TO SCALE



SITE TYPE	ARRESTOR MAKE/MODEL	QTY REQUIRED	ARRESTOR LOCATION	WEIGHT
	MAKE: RAYCAP (SQUID) MODEL: DC6-48-60-0-8F	(1) PER SITE	TOWER, ADJACENT TO AT&T ANTENNAS AND RRUS.	20 LBS. (WITHOUT MOUNT)

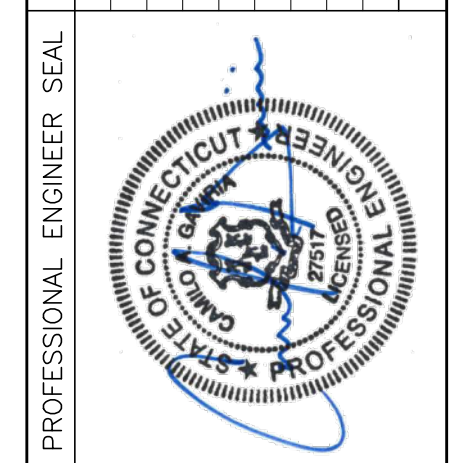
- NOTES:
- CONTRACTOR TO COORDINATE FINAL SURGE ARRESTOR MODEL SELECTION(S) WITH AT&T CONSTRUCTION MANAGER PRIOR TO ORDERING.
 - CONTRACTOR TO INSTALL ARRESTOR IN CONFORMANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - RAYCAP VIA AT&T SUPPLIES THE DC6 OVER VOLTAGE PROTECTOR AND PIPE MOUNTING BRACKETS. SUBCONTRACTOR SHALL SUPPLY THE PIPE.

5 TYPICAL DC FIBER SQUID DETAIL
C-4 NOT TO SCALE



3 FRAME TO CONCRETE CONNECTION DETAIL
C-4 NOT TO SCALE

REV.	DATE	BY	CHK'D	DESCRIPTION
1	05/22/19	RTS	CAG	CONSTRUCTION DRAWINGS - REVISED PER BUILDING CODE
0	05/31/18	DMD	CAG	CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION

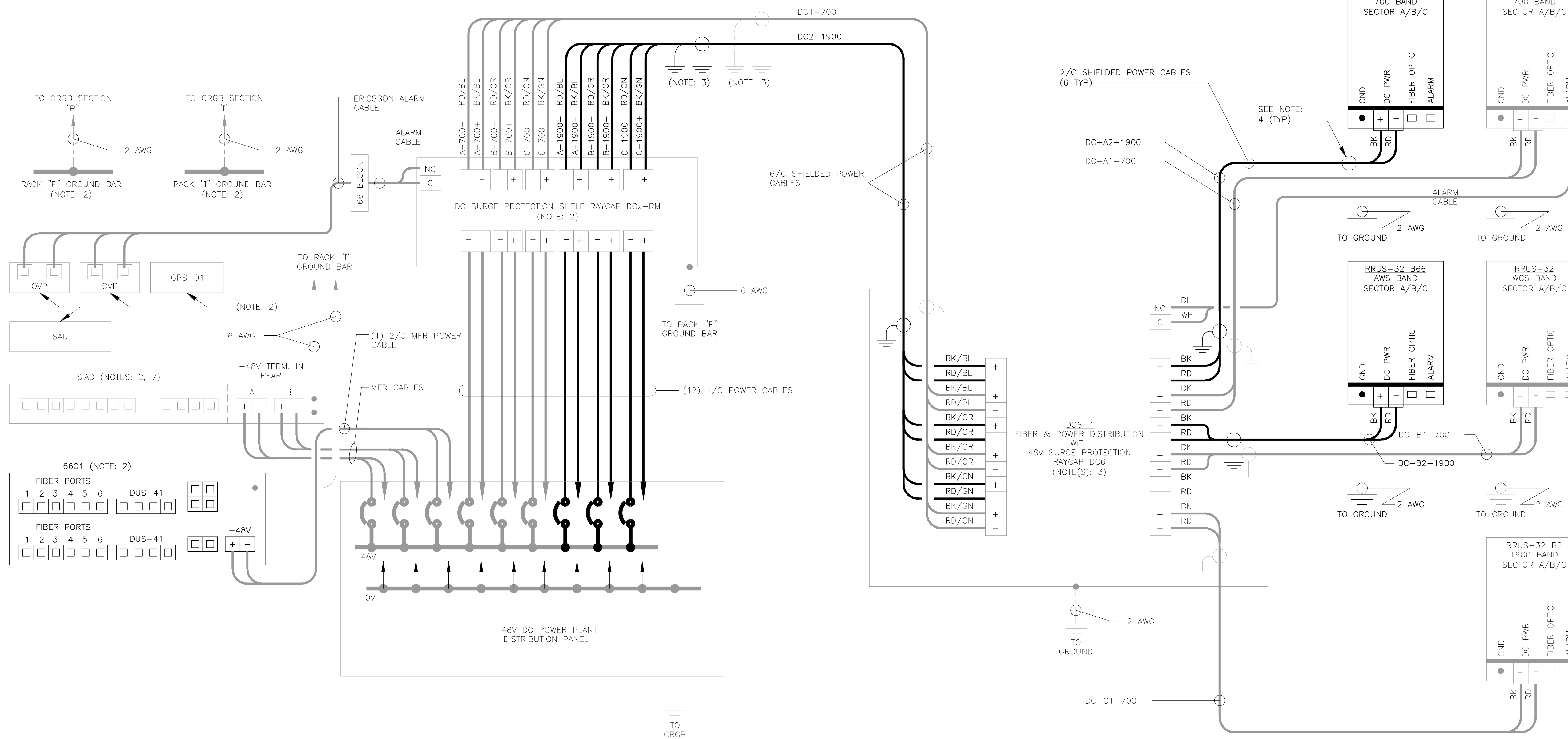


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DATE: 03/15/18
SCALE: AS NOTED
JOB NO. 18000.21

DETAILS
C-4
Sheet No. 6 of 9

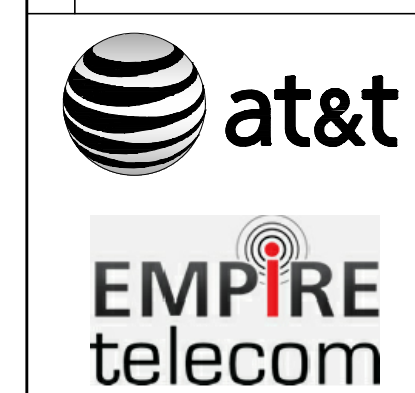
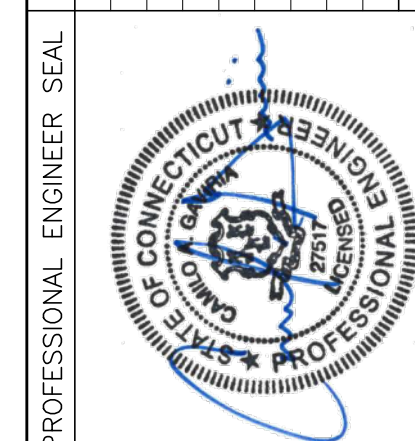


LTE WIRING DIAGRAM NOTES:

1. LABEL THE DC POWER CABLES AT BOTH ENDS OF EVERY WIRE AND IN ANY PULL BOX IF USED. LABEL SHALL BE DURABLE, SELF ADHESIVE, WRAPPED LONGITUDINALLY ALONG THE CABLE AND STATE THE SECTOR, FREQUENCY BAND AND POLARITY; I.E. "A-1900+". CABLE AND WIRE LABELS SHOWN ARE REPRESENTATIVE AND MAY BE MODIFIED AS DIRECTED BY AT&T.
2. INSTALL ON BASEBAND EQUIPMENT RACK.
3. THE BARE GROUND WIRE OF EACH MULTI-CONDUCTOR CABLE SHALL BE CONNECTED TO THE "P" GROUND BAR ON THE RACK. WHEN A SHIELDED CABLE IS USED, THE DRAIN WIRE ALSO SHALL BE CONNECTED TO THE "P" GROUND BAR.
4. CABLE GROUND WIRE AND SHIELD DRAIN WIRE TO BE LEFT UN-TERMINATED AT RRU AND DC POWER PLANT.
5. SEE LTE SCHEMATIC DIAGRAM DETAIL 1/E-1 FOR BREAKER RATING.

1 WIRING DIAGRAM
E-2 NOT TO SCALE

REV.	DATE	BY	CHK'D	DESCRIPTION
1	05/22/19	RTS		CONSTRUCTION DRAWINGS - REVISED PER BUILDING CODE
0	05/31/18	DMD		CONSTRUCTION DRAWINGS - ISSUED FOR CONSTRUCTION



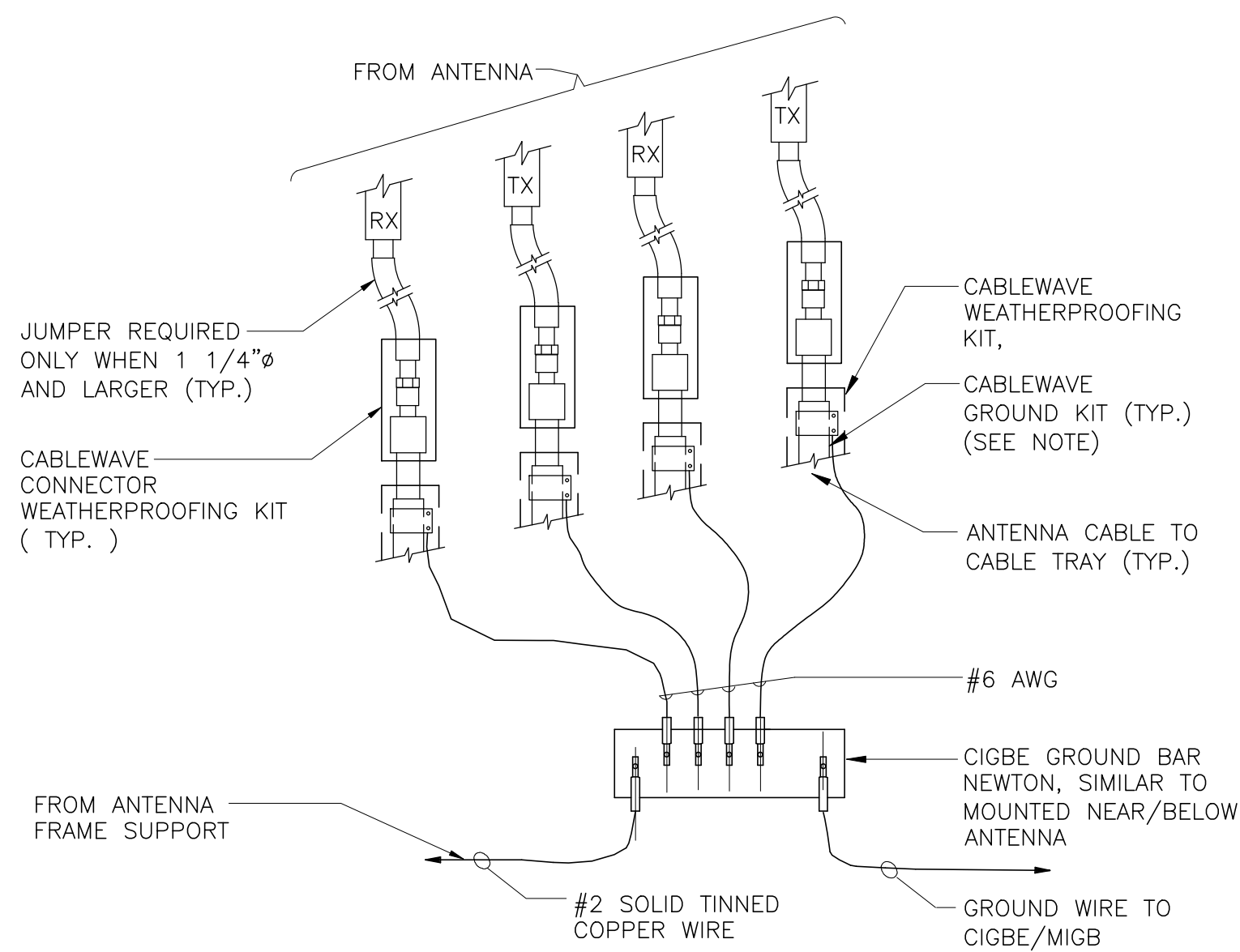
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WIRING DIAGRAM

E-2
Sheet No. 8 of 9

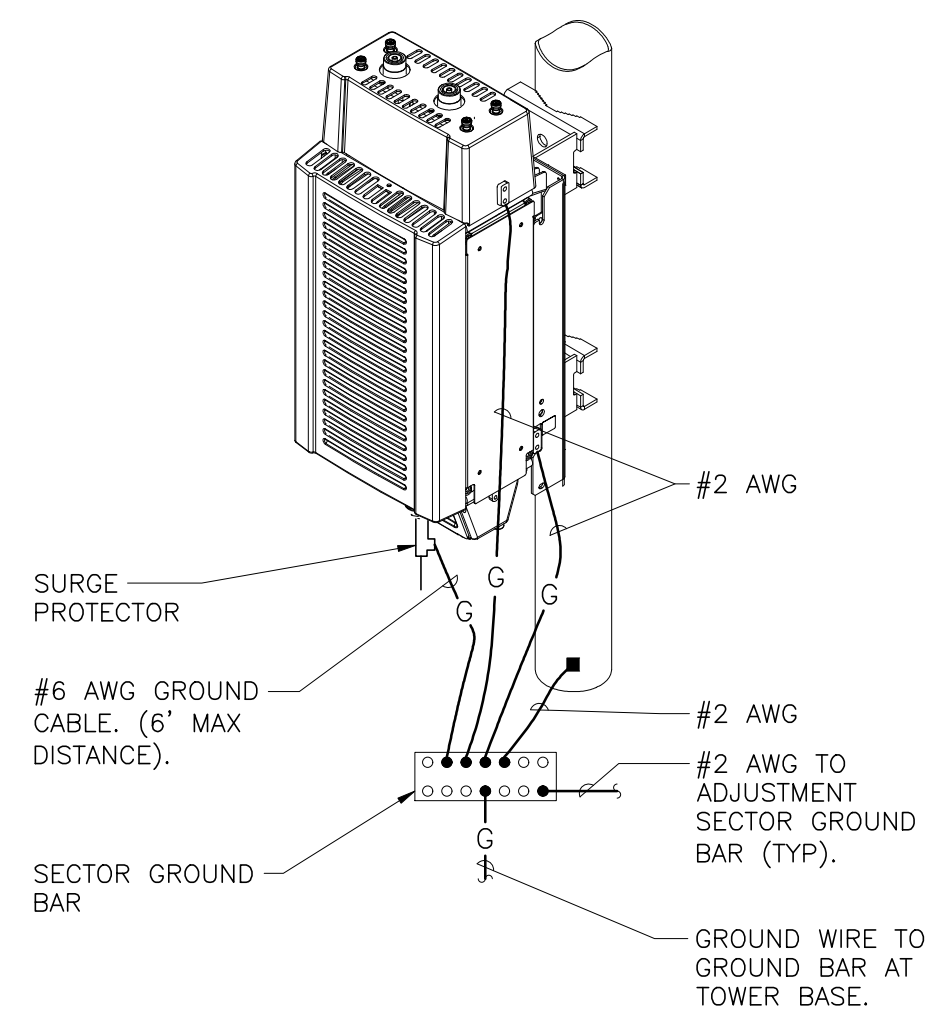


NOTE:

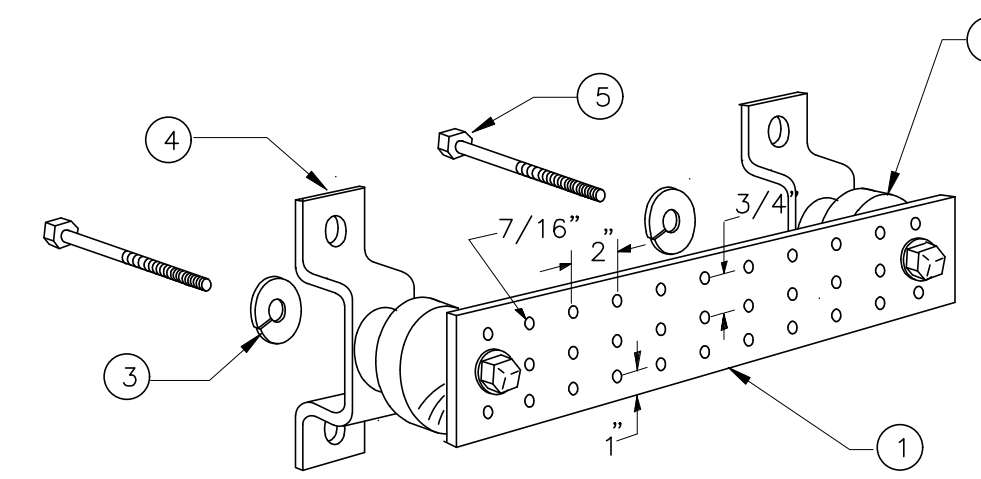
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

1 CONNECTION OF GROUND WIRES TO GROUND BAR
E-3 NOT TO SCALE

EACH RRH CABINET SHALL BE GROUNDED IN THE FOLLOWING MANNER:
1. AT TOP OF THE CABINET
2. AT RIGHT SIDE OF THE CABINET.



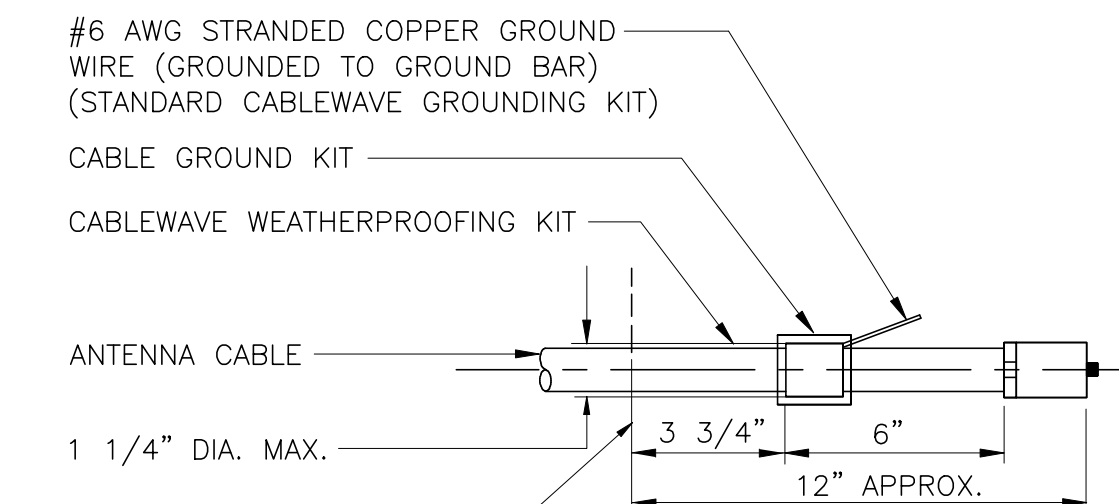
2 RRU POLE MOUNT GROUNING
E-3 NOT TO SCALE



LEGEND

- TINNY COPPER GROUND BAR, 1/4" x 4" x 20", NEWTON INSTRUMENT CO. HOLE CENTERS TO MATCH NEMA DOUBLE LUG.
- INSULATORS, NEWTON INSTRUMENT CAT. NO. 2. 3061-4.
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8.
- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056.
- STAINLESS STEEL SECURITY SCREWS.

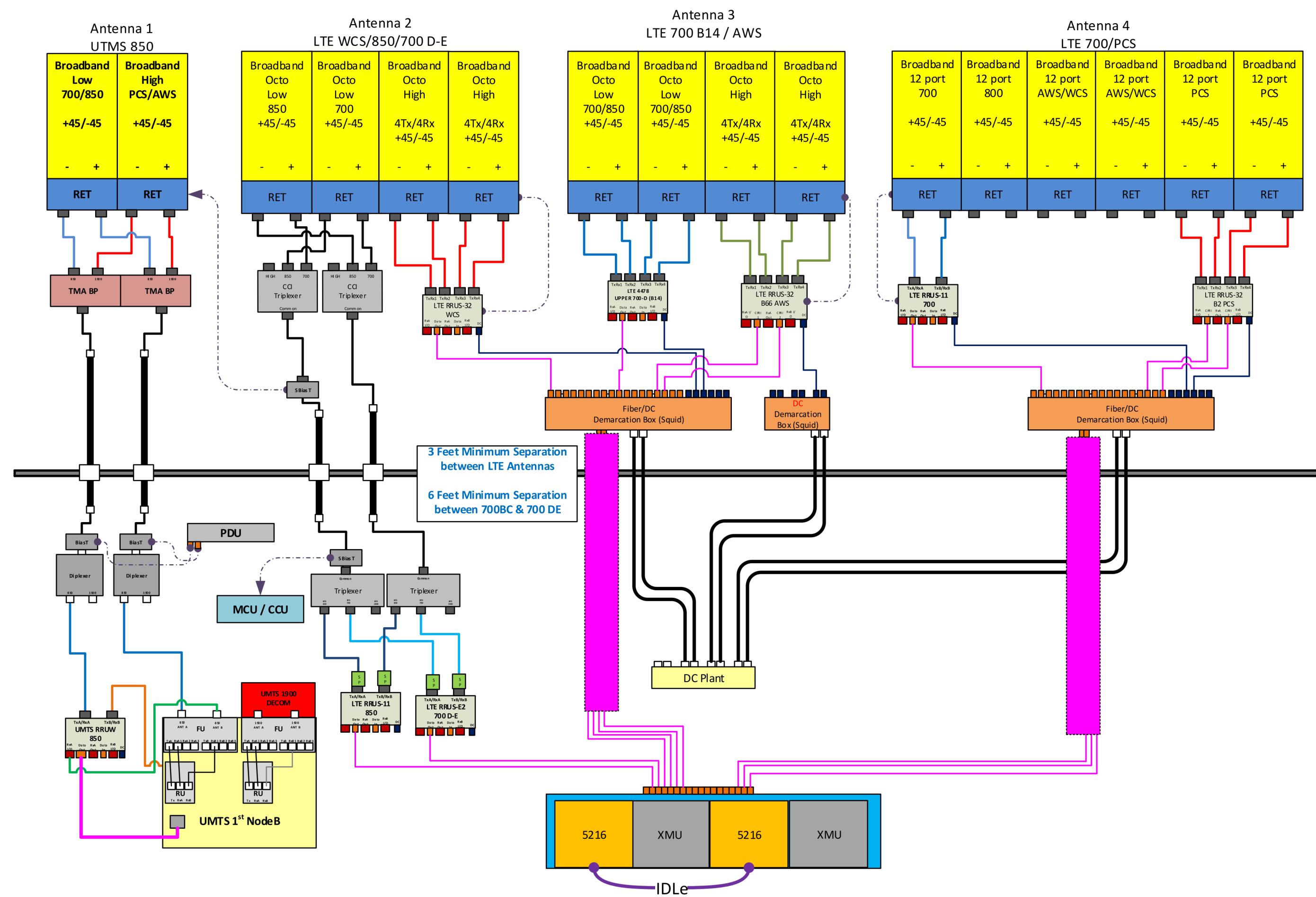
3 GROUND BAR DETAIL
E-3 NOT TO SCALE



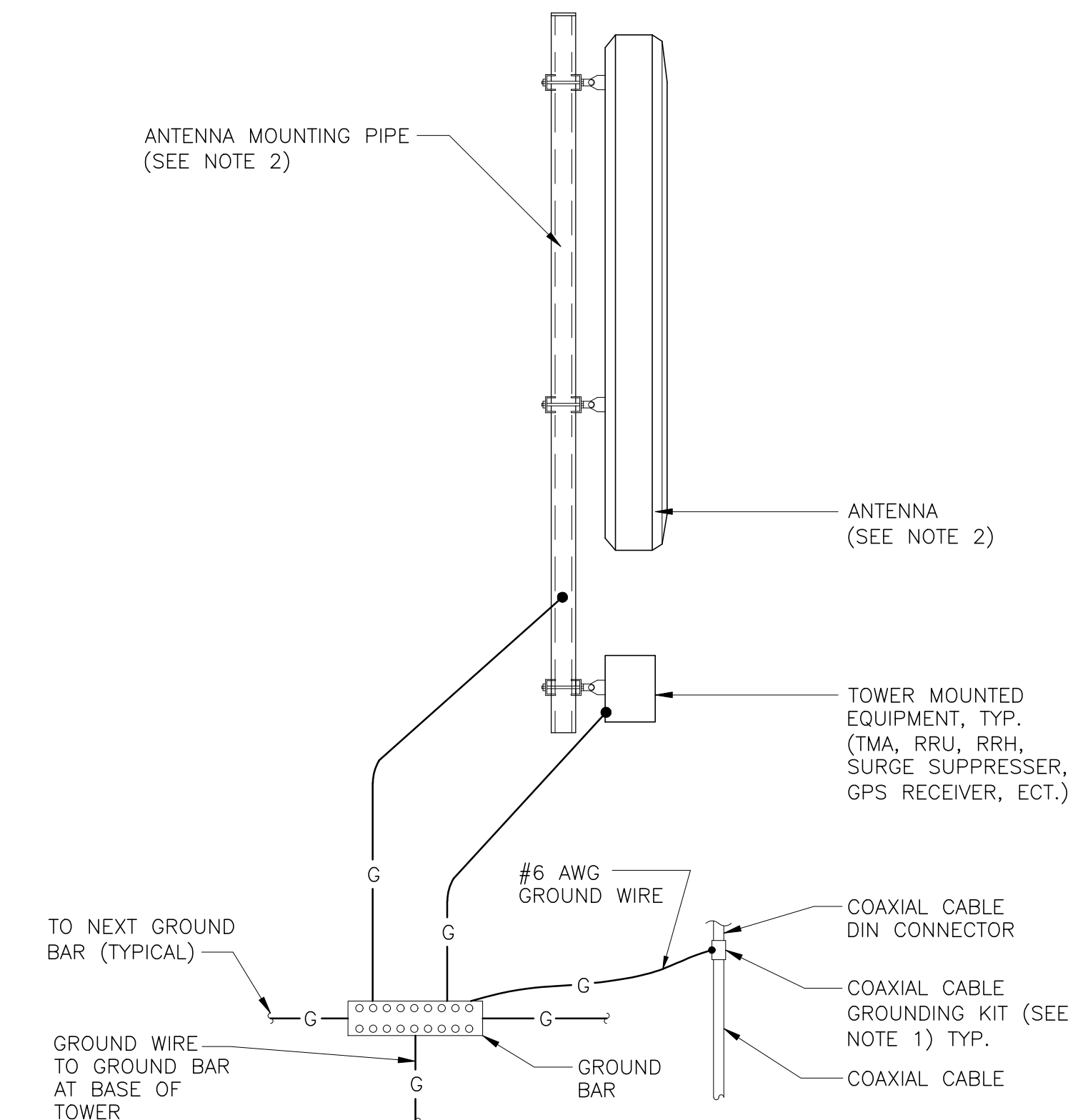
NOTE:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

4 ANTENNA CABLE GROUNING DETAIL
E-3 NOT TO SCALE



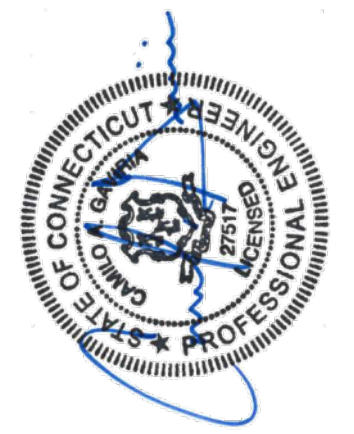
5 RF PLUMBING DIAGRAM
E-3 NOT TO SCALE



NOTES:

- BOND COAXIAL CABLE GROUND KITS TO EACH OWNER'S GROUND BAR ALONG ENTIRE COAX RUN FROM ANTENNA TO SHELTER.
- BOND ALL EQUIPMENT TO GROUND PER NEC AND MANUFACTURERS SPECIFICATIONS.
- DETAIL IS TYPICAL FOR ALL ANTENNA SECTORS, INCLUDING GPS ANTENNA.

6 TYPICAL ANTENNA GROUNING DETAIL
E-3 NOT TO SCALE



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TYPICAL ELECTRICAL DETAILS

E-3