

From: Jason Blinkhorn <jblinkhorn@qualtekwireless.com>
Sent: Monday, April 5, 2021 12:39 PM
To: sbransfield@portlandct.org; CSC-DL Siting Council <Siting.Council@ct.gov>
Cc: Corey Michaud <cmichaud@qualtekwireless.com>; Michael Cypranowski <mcypranowski@qualtekwireless.com>; John Centore <jcentore@qualtekwireless.com>; Siyuan Liu <sliu@qualtekwireless.com>; Karin Turner <kturner@qualtekwireless.com>; ATT Closeouts <attcloseouts@empiretelecomm.com>; New England Compliance <newenglandcompliance@empiretelecomm.com>
Subject: ATT SITE CT5836 CSC SITE EM-AT&T-113-201228

CSC team,

We would like to request an NTP to complete this upcoming ATT project starting on 4-12. Please see attached BP and CD's.

Alex/Karin,

CSC requires additional documentation upon completion. Please see attached ZN102 document.

Thank You,

Jason Blinkhorn / Project Manager / 401-787-6007 / jblinkhorn@qualtekwireless.com
16 Esquire Rd, N Billerica MA 01862
125 Depot St, Bellingham, MA 02019



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TOWN OF PORTLAND

P.O. Box 71, 33 East Main Street, Portland, CT 06480

Phone: 860-342-6727 Fax: 860-342-6787

BUILDING PERMIT APPLICATION

WORK NOT TO COMMENCE UNTIL PERMIT IS OBTAINED.

Permit number 21-91

Project Location Information:

Property Address 74 Goodrich Lane Parcel ID 00354100 Map 84 Lot 9

Property Owner's Name Crown Atlantic Co (Crown Castle) Phone 201-236-9224 Cell _____

Property Owner's Mailing Address 3 Corporate Dr, Suite 101 Email Address annemarie.zsamba@crowncastle.com
Clifton Park, NY 12065

Applicant/Contractor Information:

Name/Business Name AT&T by agent Anne Marie Zsamba of Crown Castle Phone 201-236-9224 Cell _____

Applicant/Contractor's Mailing Address 3 Corporate Dr, Suite 101 Email Address annemarie.zsamba@crowncastle.com
Clifton Park, NY 12065

CT DCP License # MCO.0903225 CRS# (if applicable) _____

Certification I hereby certify that I am: the property owner or the authorized agent of the owner of record for the referenced property for the proposed work as described on this application and accompanying documents. I agree to conform and abide by all applicable laws, codes, ordinances, and regulations adopted by the Town of Portland. All information contained within is true and accurate to the best of my knowledge and belief.

Signature Anne Marie Zsamba Date 2/25/21

Permit Type Commercial Residential Building Electrical Plumbing Mechanical

Description of work AT&T to remove and replace (6) existing antennas with (6) new antennas.

Check applicable Septic system Well water Town sewer Town water

Proposed use Telecommunications Occ. Load _____ Estimated Cost \$ 20,000

Number of rooms _____ Bedrooms _____ Bathrooms _____ 3 or more family Yes No
If yes, route to F.M.

Attach plans for floor plan changes or equipment location. 19x15=\$285 + \$25 = \$310

B 310.00 TE _____
Z _____ CO _____
S _____
Permit Fee Total \$ 310.00
Date Paid: 3-2-2021
Cash Check# 20617

*Fees calculated at \$25 for the first thousand, \$15 for each thousand thereafter Effective 4/1/2020

Other department approval CHD Zoning FM DPW _____ IW _____
(Circle applicable, initial when approved)

Application Approved Denied
Lincoln White, Building Official Date 3.4.21

RECEIVED
MAR 01 2021
By _____ Date received stamp

taxes are current as of 3/2/2021
Tax stamp



TOWN OF PORTLAND

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BUILDING PERMIT APPLICATION

You, the owner, agent, or applicant, are responsible to call the building department at 860-342-6727 or 860-342-6728 for all required inspections, including final inspection, prior to occupancy.

MINIMUM REQUIRED INSPECTIONS:

Soil/footings: Forms in place prior to placing concrete

Foundations: Rebar inspection

Backfill: Forms stripped, water-proofing applied, and drains installed

Underslab: Rough electrical, mechanical, and plumbing with appropriate tests
Vapor barrier in place prior to concrete placement

Electrical, plumbing, and mechanical: Rough-in, tests, and fire-stopping

Framing: Have truss specification sheets on site, also includes fire/draft blocking and stopping systems

Insulation: Prior to drywall

Acoustical ceiling: Grid installed, fixtures supported, all trades utilizing space completed, prior to installation of tiles.

Final inspection: All trade work completed and final testing of systems has been witnessed and approved by the Authority Having Jurisdiction.

Other comments: _____

CERTIFICATION OF COMPLIANCE/USE This is to certify that the work on this structure as described in this permit is complete and in substantial compliance with the Connecticut State Building Code as amended in 2018.

Property Address _____ Permit Number _____

Lincoln White, Building Official

Date of Occupancy or Use

Statement of Special Inspections

Project: CTV5836

Location: 74 Goodrich Lane, Portland, CT 06480

Owner: Crown Castle

Design Professional in Responsible Charge: Chad Tuttle, P.E.

This *Statement of Special Inspections* is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This *Statement of Special Inspections* encompass the following disciplines:

- Structural Mechanical/Electrical/Plumbing
 Architectural Other: Cellular Antenna Changeout

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Registered Design Professional in Responsible Charge.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy.

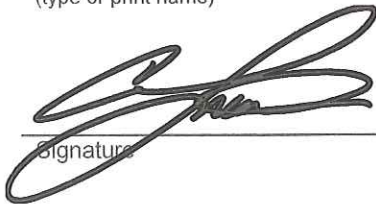
Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency:

Final- At project completion
or per attached schedule.

Prepared by:

Jennifer Tillson, E.I./ Chad Tuttle, P.E.
(type or print name)


Signature


1/15/2021
Date




Owner's Authorization:


Signature Date

Building Official's Acceptance:

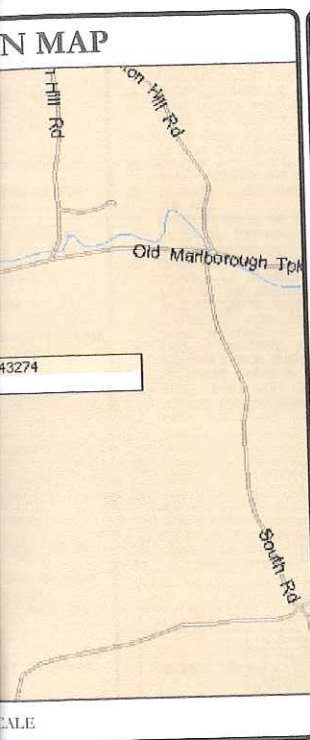

Signature 3.4.21
Date

Reviewed for Code Compliance


Building Official 3.4.21
Date



BUSS UNIT #: 806382
 ADDRESS: 74 GOODRICH LANE
 PORTLAND, CT 06480
 TYPE: MIDDLESEX
 R HEIGHT: MONOPOLE
 160'-0"



575 MOROSGO DRIVE
 ATLANTA, GA 30324-3300

3530 TORINGDON WAY, SUITE 300
 CHARLOTTE, NC 28277

1717 S. BOULDER
 SUITE 300
 TULSA, OK 74119
 PH: (918) 587-4630
 www.btgrp.com

AT&T SITE NUMBER: CTV5836

 BU #: 806382
 HRT 082 943274

 74 GOODRICH LANE
 PORTLAND, CT 06480

 EXISTING
 160'-0" MONOPOLE

ISSUED FOR:


REV	DATE	DRWN	DESCRIPTION	DES/QA
A	12/10/20	BLB	PRELIMINARY	GFH
0	12/22/20	GEH	CONSTRUCTION	GEH

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

Reviewed for Code Compliance

CODE TYPE	CODE
BUILDING	2015 IBC
MECHANICAL	2015 IMC
ELECTRICAL	2017 NEC


 Building Official 3-4-21 Date

- REFERENCE DOCUMENTS:
- STRUCTURAL ANALYSIS: CROWN CASTLE
DATED: 11/13/20
 - MOUNT ANALYSIS: TEP
DATED: 11/12/20
 - RFDS REVISION: 2
DATED: 10/7/20
 - ORDER ID: 528755
 - REVISION: 1


 By _____



SITE COPY

B&T ENGINEERING, INC.
 PEC.0001564
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SHEET NUMBER: T-1 REVISION: 0

TOWN OF PORTLAND

3-2 20 21

Received From: Crown Castle - ETA Property

Three hundred ten Dollars

check # 20617

Detail	Account	Amount
74 Goodrich Lane Remove & replace 6 existing antennas with 6 new antennas Received By: <u>(LT)</u>	B	\$310 00



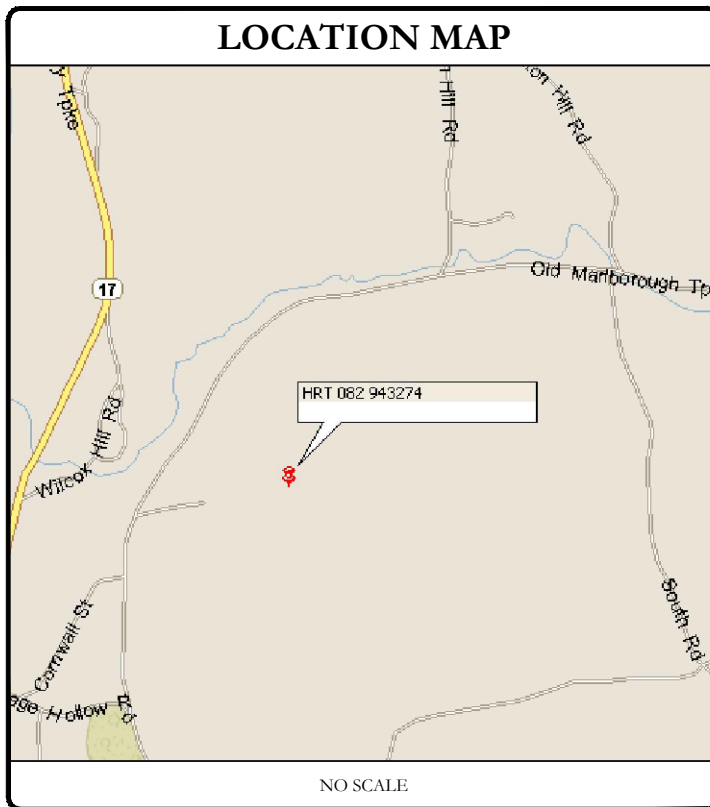
AT&T SITE NUMBER: CTV5836
AT&T SITE NAME: PORTLAND CENTRAL
AT&T FA CODE: 10071206
AT&T PACE NUMBER: MRCTB048941, MRCTB048924, MRCTB048936, MRCTB048904, MRCTB048938, MRCTB048952
AT&T PROJECT: 4TX4RX, 5G NR 1DR-1, 5G NR, LTE 3C, LTE 4C, BWE

BUSINESS UNIT #: 806382
SITE ADDRESS: 74 GOODRICH LANE PORTLAND, CT 06480
COUNTY: MIDDLESEX
SITE TYPE: MONOPOLE
TOWER HEIGHT: 160'-0"



SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	HRT 082 943274
SITE ADDRESS:	74 GOODRICH LANE PORTLAND, CT 06480
COUNTY:	MIDDLESEX
MAP/PARCEL #:	084-0009
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.6081919
LONGITUDE:	-72.5914989
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	336'
CURRENT ZONING:	R25
JURISDICTION:	TOWN OF PORTLAND
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	HALE, JOAN J CROWN ATLANTIC LLC PMB 353 4017 WASHINGTON RD MCMURRAY PA 15317
TOWER OWNER:	CROWN CASTLE USA INC 2000 CORPORATE DRIVE CANONSBURG, PA 15317
CARRIER/APPLICANT:	AT&T TOWER ASSET GROUP 575 MOROSGO DRIVE ATLANTA, GA 30324-3300
ELECTRIC PROVIDER:	N/A
TELCO PROVIDER:	N/A

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1.1	SITE PLAN
C-1.2	EXISTING & FINAL EQUIPMENT PLANS
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	FINAL EQUIPMENT SCHEDULE
C-4	EQUIPMENT SPECS
C-5	EQUIPMENT SPECS
C-6	EQUIPMENT SPECS
G-1	GROUNDING SCHEMATIC
G-2	GROUNDING DETAILS
ATTACHED	PLUMBING DIAGRAM
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR ----. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	
CALL CONNECTICUT ONE CALL (800) 922-4455 CBYD.COM CALL 2 WORKING DAYS BEFORE YOU DIG!	



AT&T SITE NUMBER: CTV5836

BU #: 806382
 HRT 082 943274

74 GOODRICH LANE
 PORTLAND, CT 06480

EXISTING
 160'-0" MONOPOLE

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH

PROJECT TEAM	
A&E FIRM:	B+T GROUP 1717 S BOULDER AVE, SUITE 300 TULSA, OK 74119 JENNY PAUL jpaul@btgrp.com
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3530 TORINGDON WAY, SUITE 300 CHARLOTTE, NC 28277 NICHOLAS ROMBACH NICHOLAS.ROMBACH@CROWNCastle.COM
NOTE: PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.	

PROJECT DESCRIPTION	
THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.	
TOWER SCOPE OF WORK: <ul style="list-style-type: none"> REMOVE (3) KMW- AM-X-CD-16-65-00T-RET ANTENNAS REMOVE (3) POWERWAVE - 7770 ANTENNAS REMOVE (6) 21404 TMAs REMOVE (3) RRUS-11 B12 RRUs REMOVE (3) RRUS-12 B2 RRUs REMOVE (6) COAX CABLES RELOCATE (6) BIAS-Ts TO POS 1 AND ATTACH TO UMTS COAX LINES INSTALL (3) CCI - OPA65R-BU6DA ANTENNAS INSTALL (3) CCI - DMP65R-BU6DA ANTENNAS INSTALL (1) DC6-48-60-18-8C-EV SURGE SUPPRESSOR INSTALL (3) RRUS 4478 B14 RRUs INSTALL (3) RRUS 8843 B2/B66A RRUs INSTALL (3) RRUS 4449 B5/B12 RRUs INSTALL (2) POWER CABLES INSTALL (1) FIBER CABLE INSTALL (6) Y CABLES 	GROUND SCOPE OF WORK: <ul style="list-style-type: none"> REMOVE (6) LGP13519 DIPLEXERS INSTALL (1) BB6630 INSTALL (1) FIBER MANAGEMENT BOX INSTALL (1) IDLc CABLE

APPLICABLE CODES/REFERENCE DOCUMENTS	
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CODE TYPE BUILDING MECHANICAL ELECTRICAL	CODE 2015 IBC 2015 IMC 2017 NEC
REFERENCE DOCUMENTS:	
STRUCTURAL ANALYSIS: DATED: 11/13/20	CROWN CASTLE
MOUNT ANALYSIS: DATED: 11/12/20	TEP
RFDS REVISION: 2 DATED: 10/7/20	ORDER ID: 528755 REVISION: 1

B&T ENGINEERING, INC.
 PEC.0001564
 Expires 2/10/21

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SHEET NUMBER:	REVISION:
T-1	0

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CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

- 1. NOTICE TO PROCEED- NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800-788-7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. 'LOOK UP' - CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION.

GREENFIELD GROUNDING NOTES:

- 1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: AT&T TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.

ELECTRICAL INSTALLATION NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.

Table with 3 columns: SYSTEM, CONDUCTOR, COLOR. Lists color codes for various voltage systems and conductor types.

APWA UNIFORM COLOR CODE:

- WHITE PROPOSED EXCAVATION
PINK TEMPORARY SURVEY MARKINGS
RED ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES

ABBREVIATIONS:

- ANT ANTENNA
(E) EXISTING
FIF FACILITY INTERFACE FRAME
GEN GENERATOR
GPS GLOBAL POSITIONING SYSTEM

AT&T logo and address: 575 MOROSGO DRIVE ATLANTA, GA 30324-3300

CROWN CASTLE logo and address: 3530 TORINGDON WAY, SUITE 300 CHARLOTTE, NC 28277

B+T GRP logo and address: 1717 S. BOULDER SUITE 300 TULSA, OK 74119 PH: (918) 587-4630 www.btgrp.com

AT&T SITE NUMBER: CTV5836

BU #: 806382 HRT 082 943274 74 GOODRICH LANE PORTLAND, CT 06480 EXISTING 160'-0" MONOPOLE

Table with 5 columns: REV, DATE, DRWN, DESCRIPTION, DES./QA. Shows revision history for the drawing.

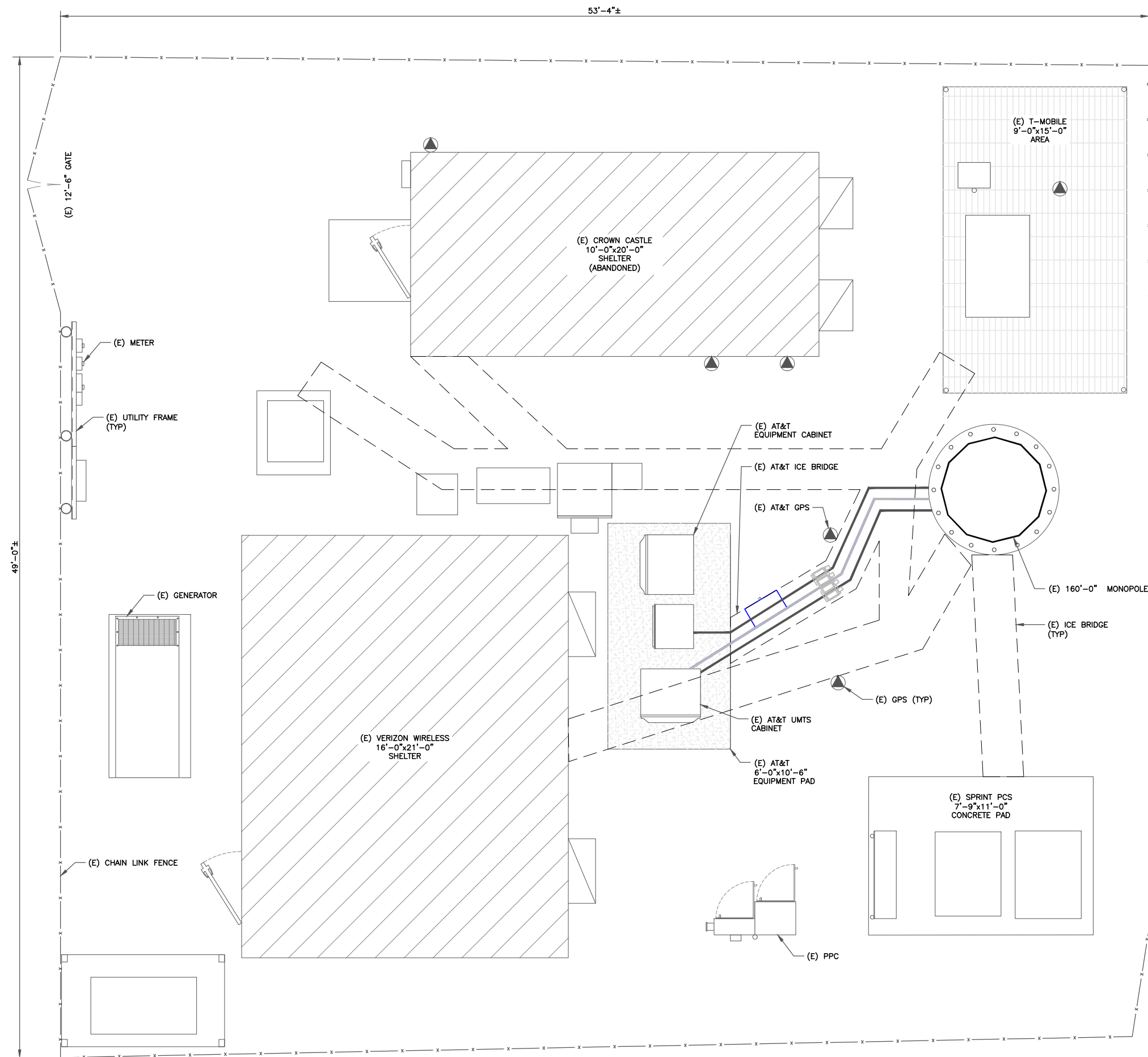
Professional Engineer seal for C. P. G. with text: ISSUED FOR: 2/22/20

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SHEET NUMBER: T-2 REVISION: 0

81363.018.01 HRT_ETI_AT&T_08.07.2020.dwg - Sheet1-2 - User: ghoyes - Dec. 22, 2020 - 8:53am

81363.018.01 HRT_ETI_AT&T_08.07.2020.dwg - Sheet C-1.1 - User: ghayes - Dec 22, 2020 - 8:53am



1 SITE PLAN
 SCALE: 3/8"=1'-0" (FULL SIZE)
 3/16"=1'-0" (11x17)



575 MOROSGO DRIVE
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575 MOROSGO DRIVE
ATLANTA, GA 30324-3300



3530 TORINGDON WAY, SUITE 300
CHARLOTTE, NC 28277



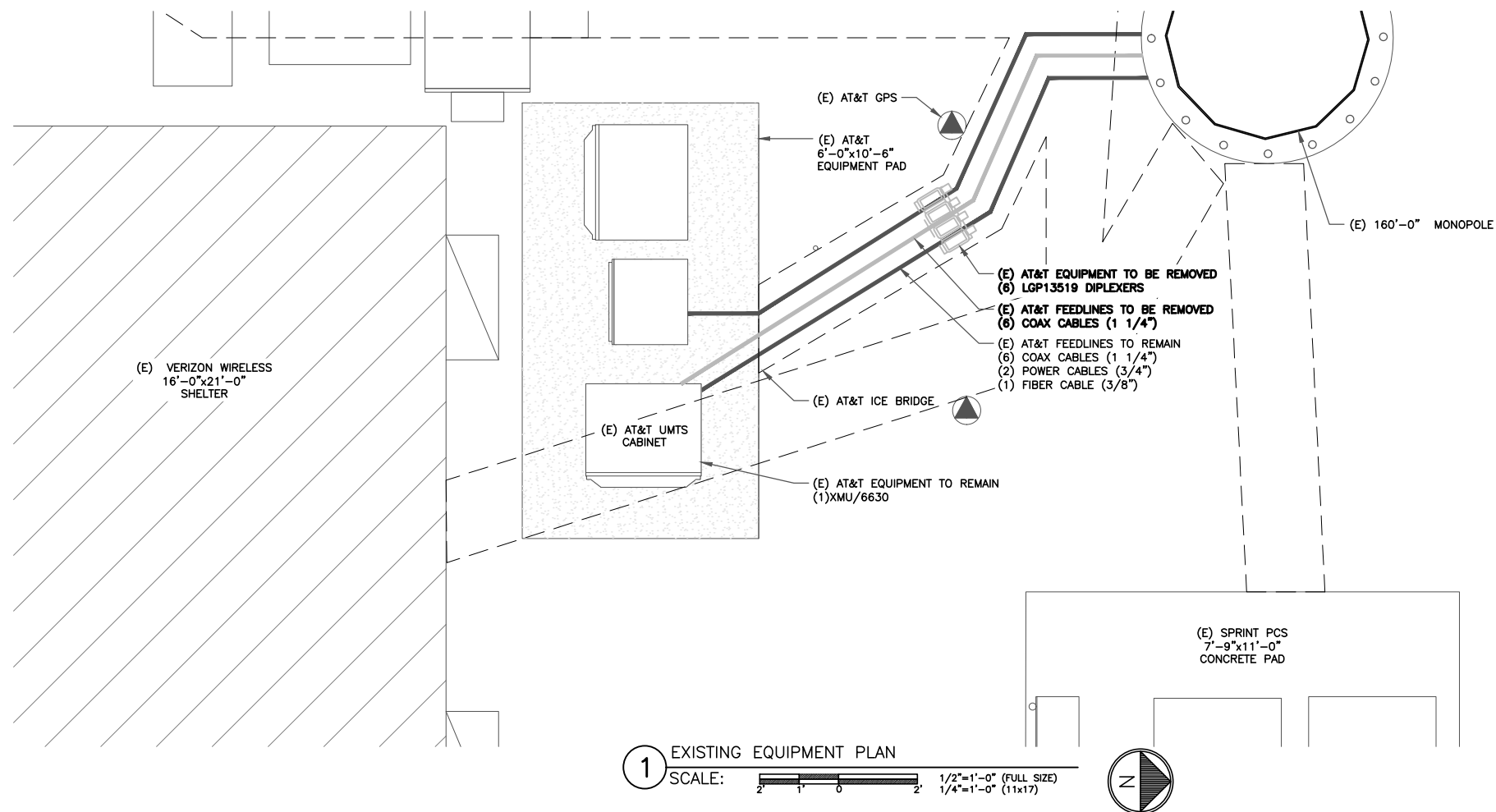
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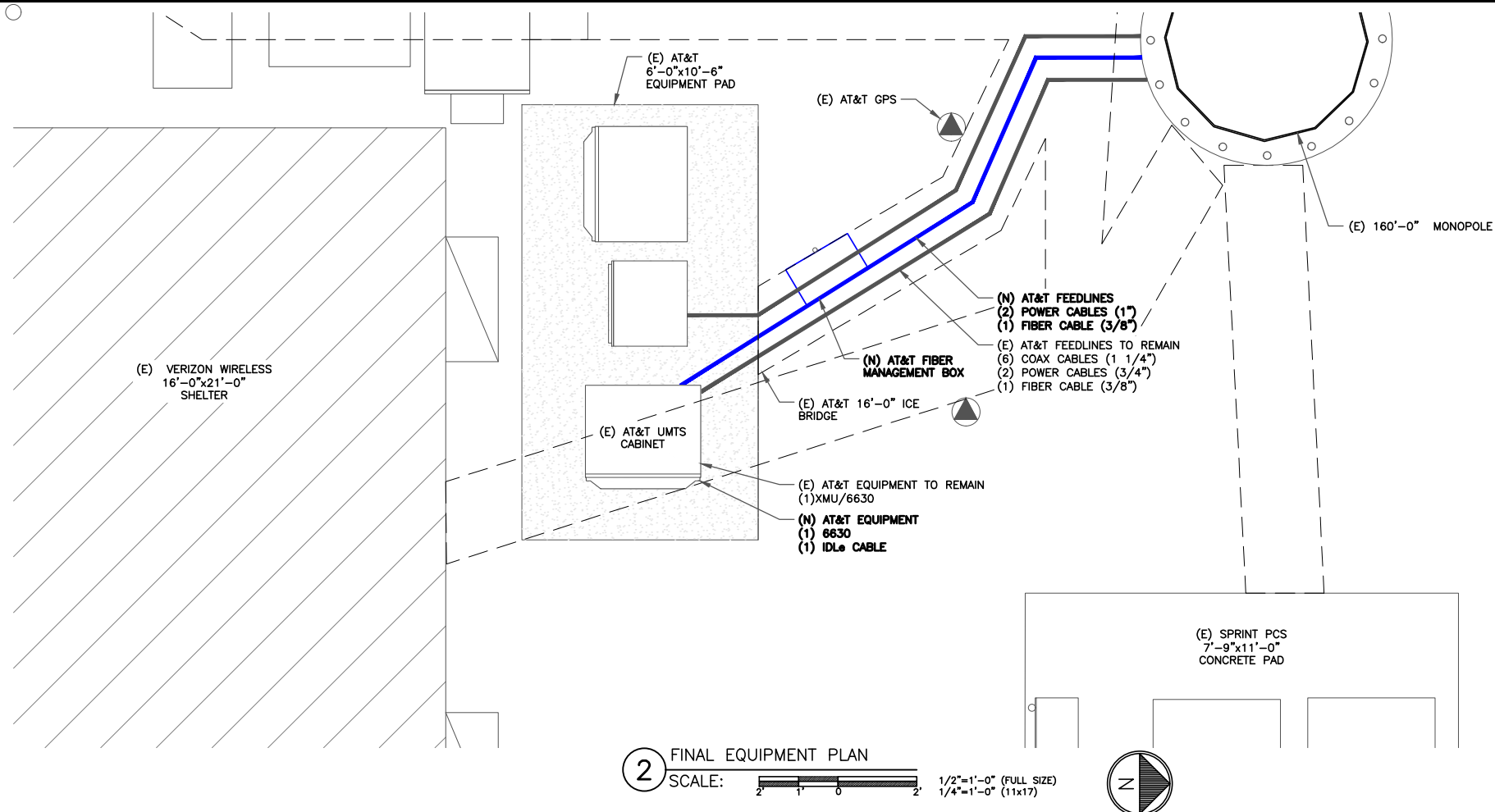
EXISTING
160'-0" MONOPOLE



- GROUND SCOPE OF WORK:
- REMOVE (6) LGP13519 DIPLEXERS
 - INSTALL (1) 6630
 - INSTALL (1) IDLe CABLE
 - INSTALL (1) FIBER MANAGEMENT BOX

ISSUED FOR:

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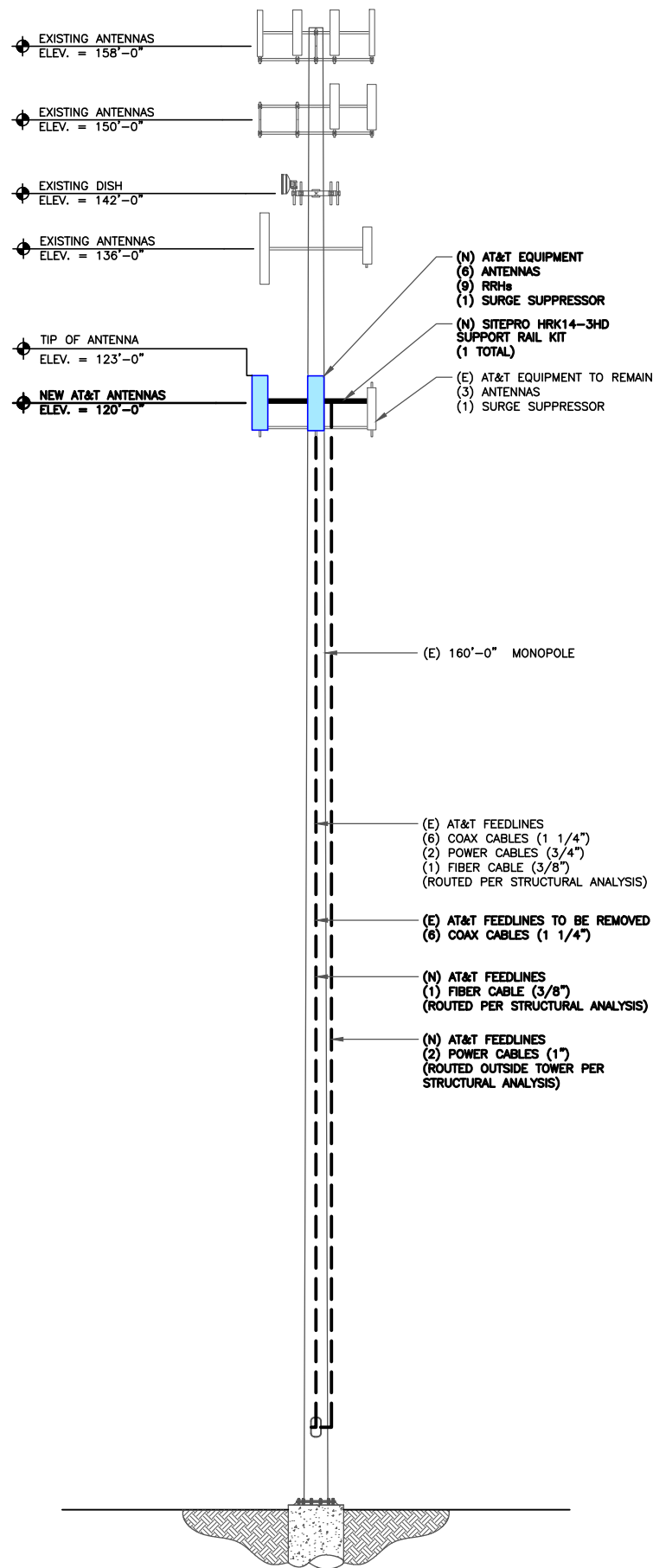
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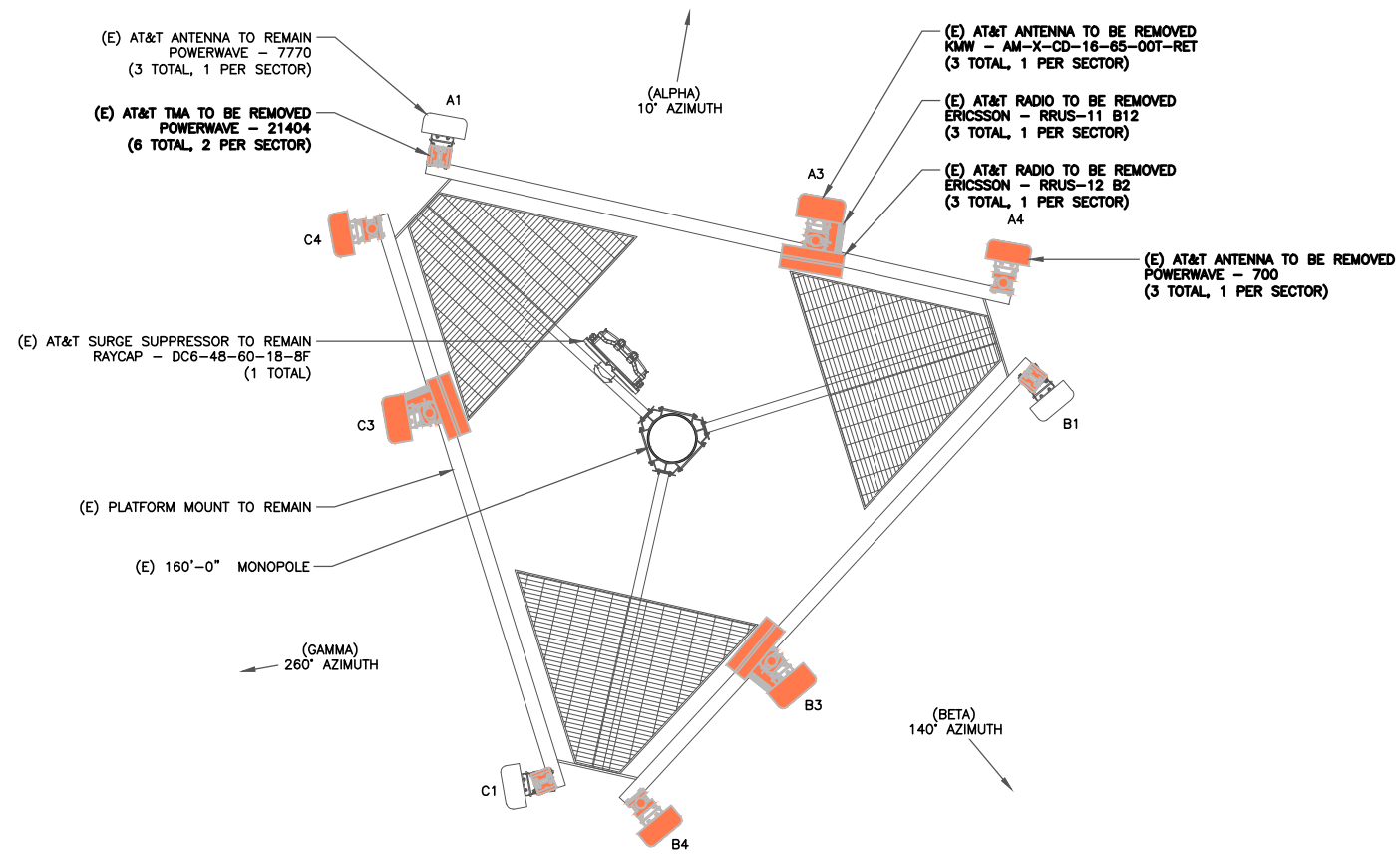
C-1.2

REVISION:

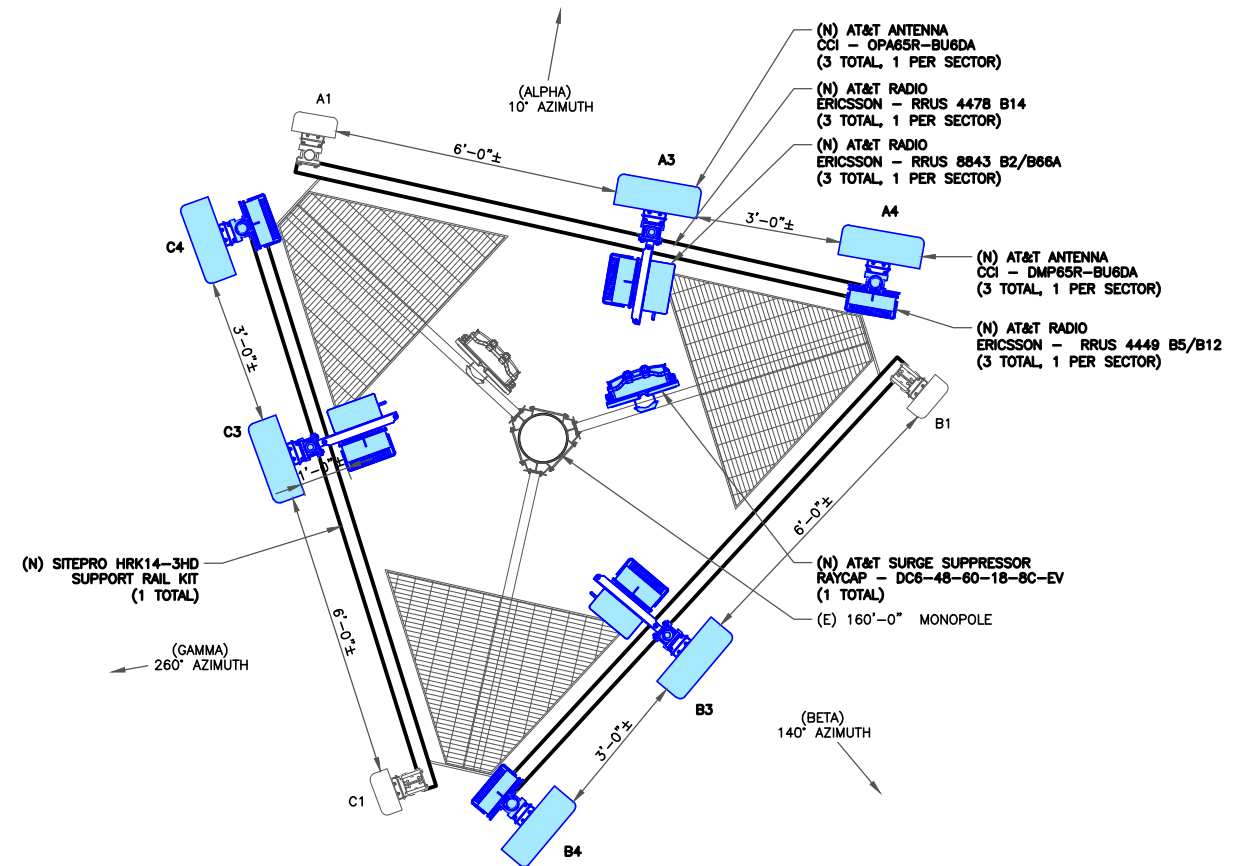
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1 FINAL ELEVATION
SCALE: NOT TO SCALE



2 EXISTING ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



3 FINAL ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)

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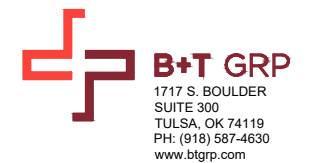


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FINAL ANTENNA AND FEEDLINE SCHEDULE

POS.	TECH	STATUS	AZIMUTH	ANTENNA TYPE	ANTENNA RAD CENTER	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	MAIN COAX SIZE	MAIN COAX LENGTH	COAX QTY	TMA QTY AND MODEL	SURGE PROTECTION	DC/FIBER CABLES	RRHs QTY & MODEL ON TOWER	LOCATION	DIPLEXER ON TOWER	DIPLEXER ON GROUND	RET CABLE
ALPHA SECTOR																		
A1	UMTS 850	EXISTING	10°	POWERWAVE 7770	120'-0"	0°	2°	1 1/4"	150'-0"	2	-	-	-	-	-	N	N	N
A3	LTE 700/ LTE 1900	NEW	10°	CCI OPA65R-BU6DA	120'-0"	0°	2°/2°/2°/2°	-	-	-	-	(1) DC6-48-60-18-8F (1) DC6-48-60-18-8C-EV	(1) 3/8" FIBER CABLE (2) 3/4" POWER CABLES	(1) RRUS 4478 B14 (1) RRUS 8843 B2/B66A	TOWER	N	N	Y
A4	LTE 700/ LTE 850/ LTE AWS/ 5G 850	NEW	10°	CCI DMP65R-BU6DA	120'-0"	0°	2°/2°/2°/2°	-	-	-	-	-	-	(1) RRUS 4449 B5/B12	TOWER	N	N	Y
BETA SECTOR																		
B1	UMTS 850	EXISTING	140°	POWERWAVE 7770	120'-0"	0°	5°	1 1/4"	150'-0"	2	-	-	-	-	-	N	Y	N
B3	LTE 700/ LTE 1900	NEW	140°	CCI OPA65R-BU6DA	120'-0"	0°	2°/2°/2°/2°	-	-	-	-	-	(1) 3/8" FIBER CABLE (2) 1" POWER CABLES	(1) RRUS 4478 B14 (1) RRUS 8843 B2/B66A	TOWER	N	N	Y
B4	LTE 700/ LTE 850/ LTE AWS/ 5G 850	NEW	140°	CCI DMP65R-BU6DA	120'-0"	0°	2°/2°/2°/2°	-	-	-	-	-	-	(1) RRUS 4449 B5/B12	TOWER	N	Y	Y
GAMMA SECTOR																		
C1	UMTS 850	EXISTING	260°	POWERWAVE 7770	120'-0"	0°	10°	1 1/4"	150'-0"	2	-	-	-	-	-	N	Y	N
C3	LTE 700/ LTE 1900	NEW	260°	CCI OPA65R-BU6DA	120'-0"	0°	6°/6°/6°/6°	-	-	-	-	-	-	(1) RRUS 4478 B14 (1) RRUS 8843 B2/B66A	TOWER	N	N	Y
C4	LTE 700/ LTE 850/ LTE AWS/ 5G 850	NEW	260°	CCI DMP65R-BU6DA	120'-0"	0°	6°/6°/6°/6°	-	-	-	-	-	-	(1) RRUS 4449 B5/B12	TOWER	N	Y	Y

NOTE: BOLD DENOTES NEW EQUIPMENT

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	12/10/20	BLB	PRELIMINARY	GEH
0	12/22/20	GEH	CONSTRUCTION	GEH

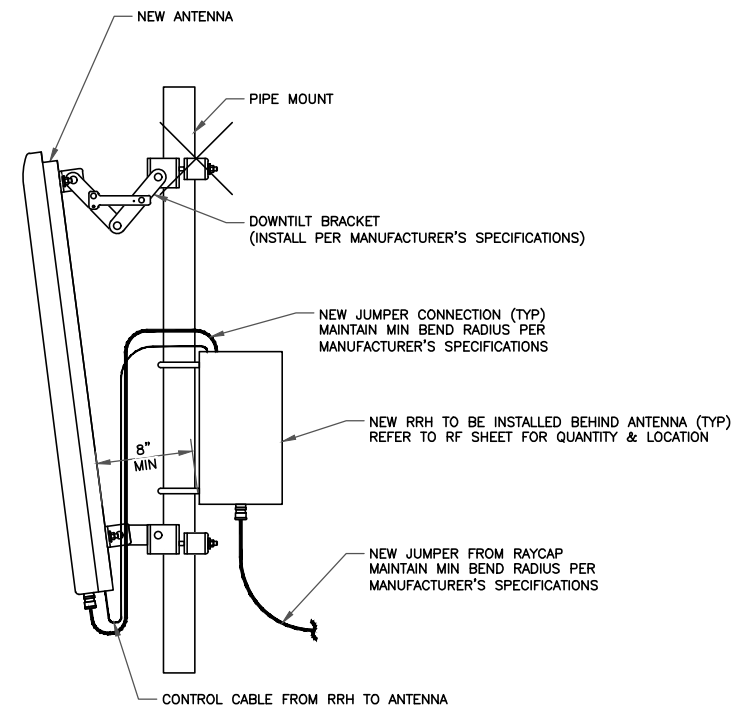


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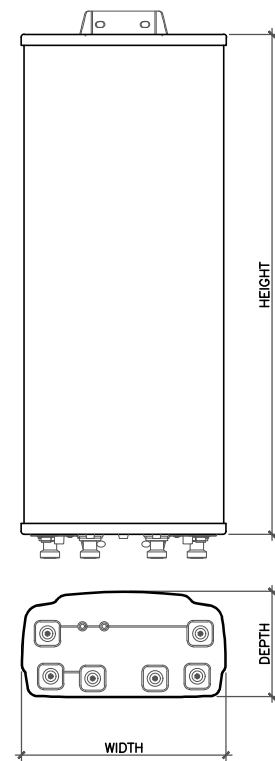
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SHEET NUMBER: **C-3** REVISION: **0**

1 FINAL ANTENNA AND FEEDLINE SCHEDULE
SCALE: NOT TO SCALE

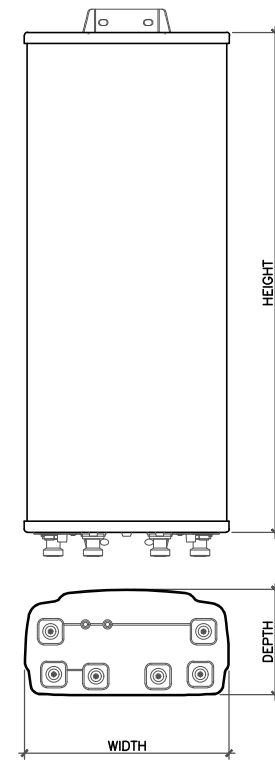


1 GENERIC ANTENNA MOUNTING ELEVATION
SCALE: NOT TO SCALE



ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
OPA65R-BU6DA	71.2"	21"	7.8"	60.2 lbs

2 ANTENNA DETAIL
SCALE: NOT TO SCALE

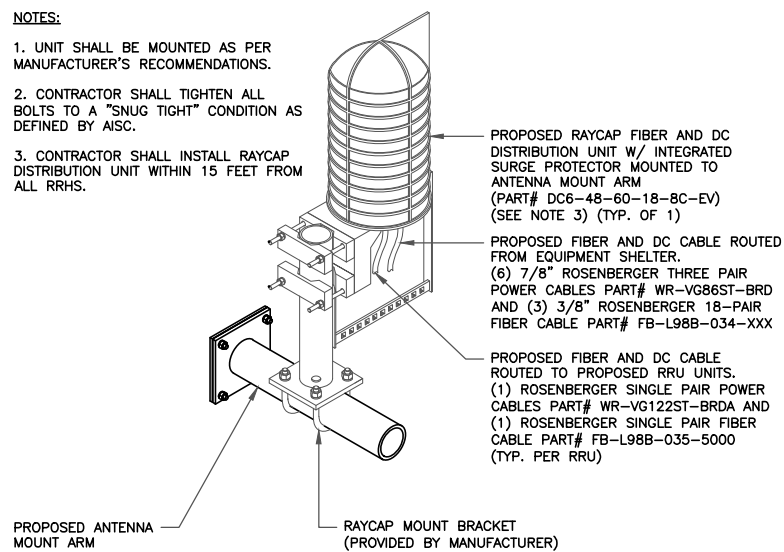


ANTENNA DIMENSIONS (INCHES)				
MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DMP65R-BU6DA	71.2"	20.7"	7.7"	79.4 lbs

3 ANTENNA DETAIL
SCALE: NOT TO SCALE

NOTES:

- UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
- CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRHS.

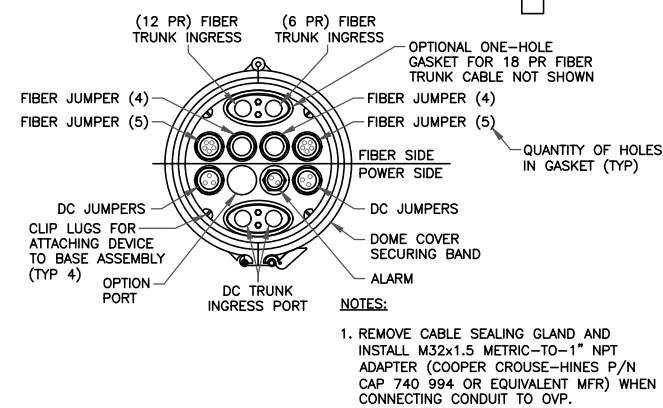
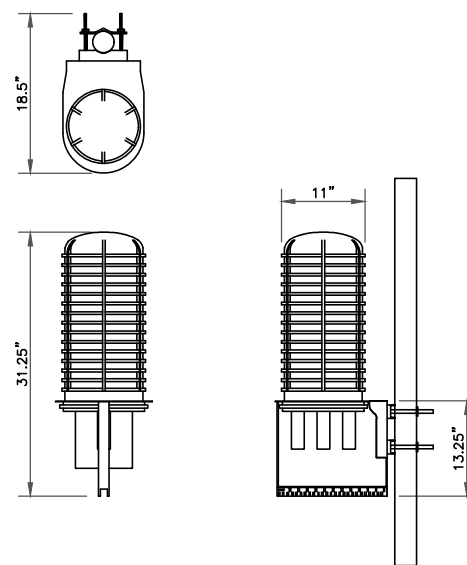


RAYCAP
DC6-48-60-18-8C-EV

RAYCAP - DC6-48-60-18-8C-EV
SIZE: 11x31.25 IN.
WEIGHT: 32.8 LBS
NOMINAL OPERATING VOLTAGE: 48 VDC
VOLTAGE PROTECTION RATING: 400 V
WIND LOADING: 150 MPH SUSTAINED (105.7 LBS)
WIND LOADING: 195 MPH GUST (213.6 LBS)

CONTRACTOR TO USE "THREAD LUBRICANT" ON MOUNTING BOLTS DURING INSTALLATION

4 SQUID MOUNTING DETAIL
SCALE: NOT TO SCALE



NOTES:

- REMOVE CABLE SEALING GLAND AND INSTALL M32x1.5 METRIC-TO-1\"/>

575 MOROSGO DRIVE
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PH: (918) 587-4630
www.blgrp.com

AT&T SITE NUMBER: CTV5836

BU #: 806382
HRT 082 943274

74 GOODRICH LANE
PORTLAND, CT 06480

EXISTING
160'-0" MONOPOLE

ISSUED FOR:

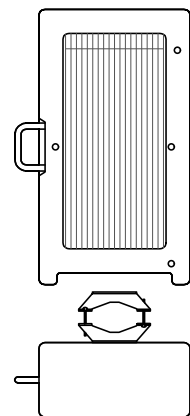
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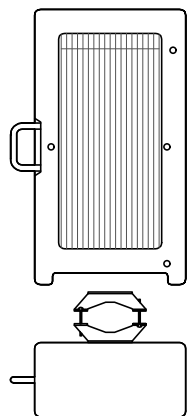
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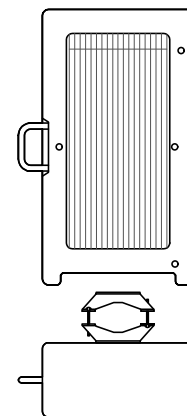
ERICSSON - RRU 4478 B14
 WEIGHT (FULLY EQUIPPED): 59.4 LBS
 SIZE (HxWxD): 18.1x13.4x8.26 IN.
 CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

1 ERICSSON - RRU 4478 B14
 SCALE: NOT TO SCALE



ERICSSON - RRU 8843 B2/B66A
 WEIGHT (FULLY EQUIPPED): 75 LBS
 SIZE (HxWxD): 18x13.2x11.30 IN.
 CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

2 ERICSSON - RRU 8843 B2/B66A
 SCALE: NOT TO SCALE

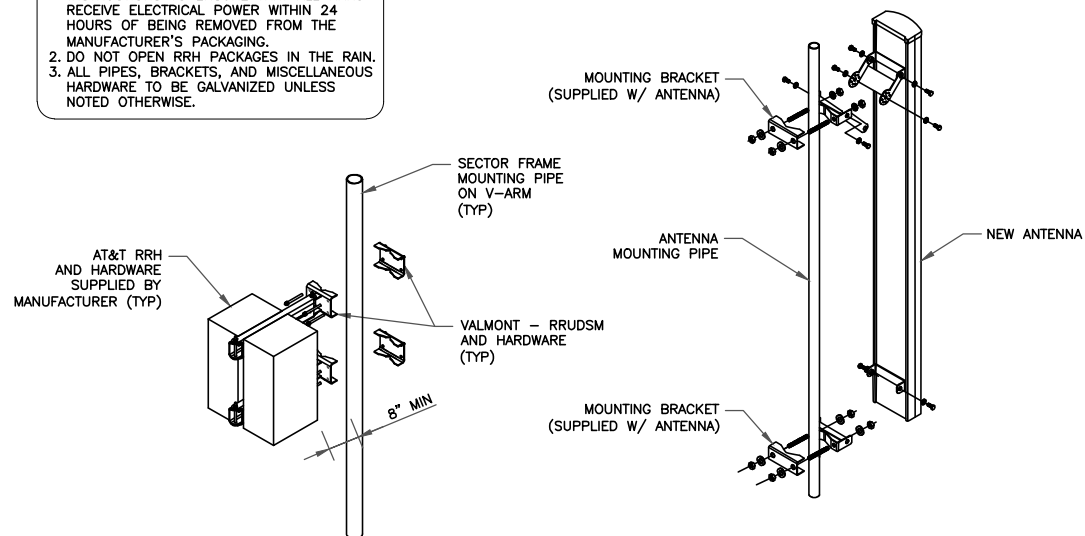


ERICSSON - RRU 4449 B5/B12
 WEIGHT (FULLY EQUIPPED): 71 LBS
 SIZE (HxWxD): 17.9x13.2x9.4 IN.
 CONNECTOR TYPE: 4.3-10 FEMALE (4 TOTAL PORTS)

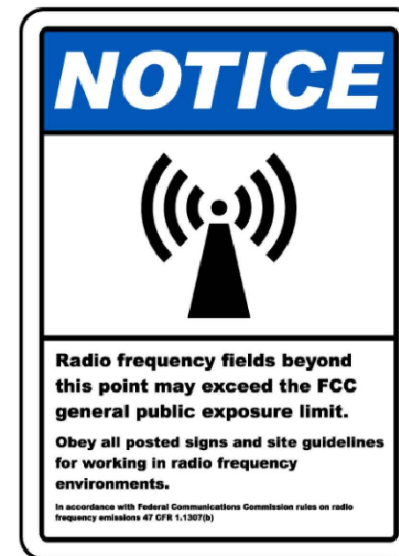
3 ERICSSON - RRU 4449 B5/B12
 SCALE: NOT TO SCALE

INSTALLER NOTES:

1. COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRHs RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING.
2. DO NOT OPEN RRH PACKAGES IN THE RAIN.
3. ALL PIPES, BRACKETS, AND MISCELLANEOUS HARDWARE TO BE GALVANIZED UNLESS NOTED OTHERWISE.



4 ANTENNA WITH RRHs MOUNTING DETAIL
 SCALE: NOT TO SCALE



5 RF EME SIGNAGE DETAILS
 SCALE: NOT TO SCALE

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AT&T SITE NUMBER: CTV5836

BU #: 806382
 HRT 082 943274

74 GOODRICH LANE
 PORTLAND, CT 06480

EXISTING
 160'-0" MONOPOLE

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 REVISION: 0

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BU #: 806382
HRT 082 943274

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ISSUED FOR:

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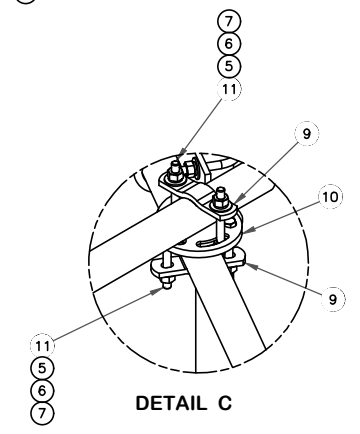
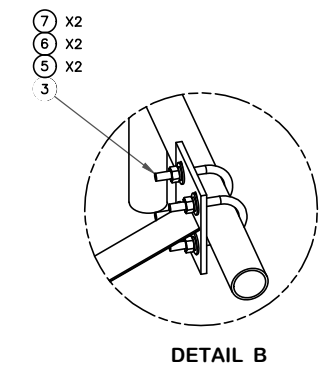
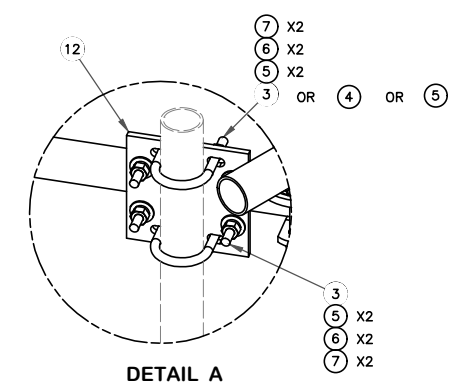
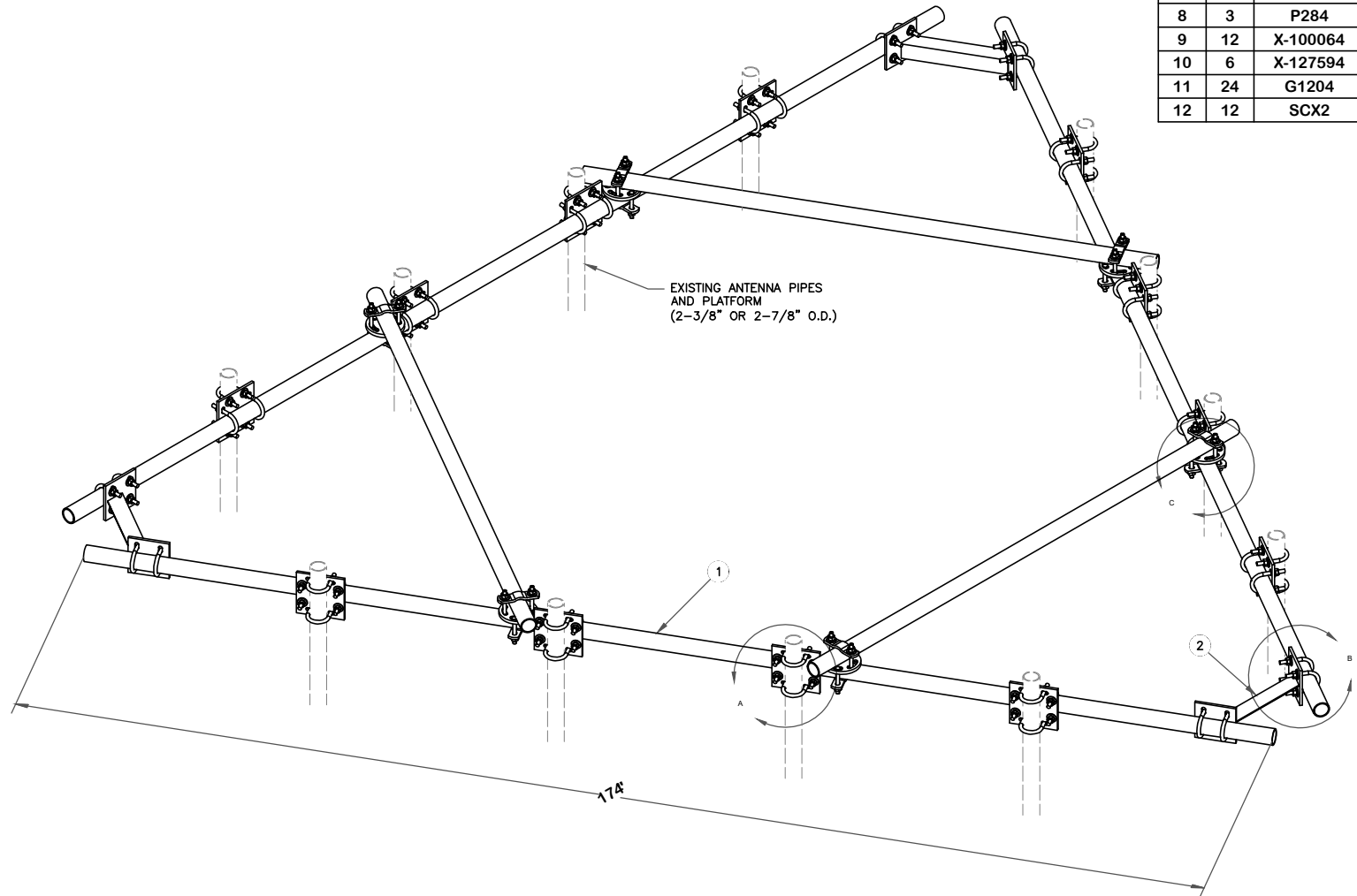


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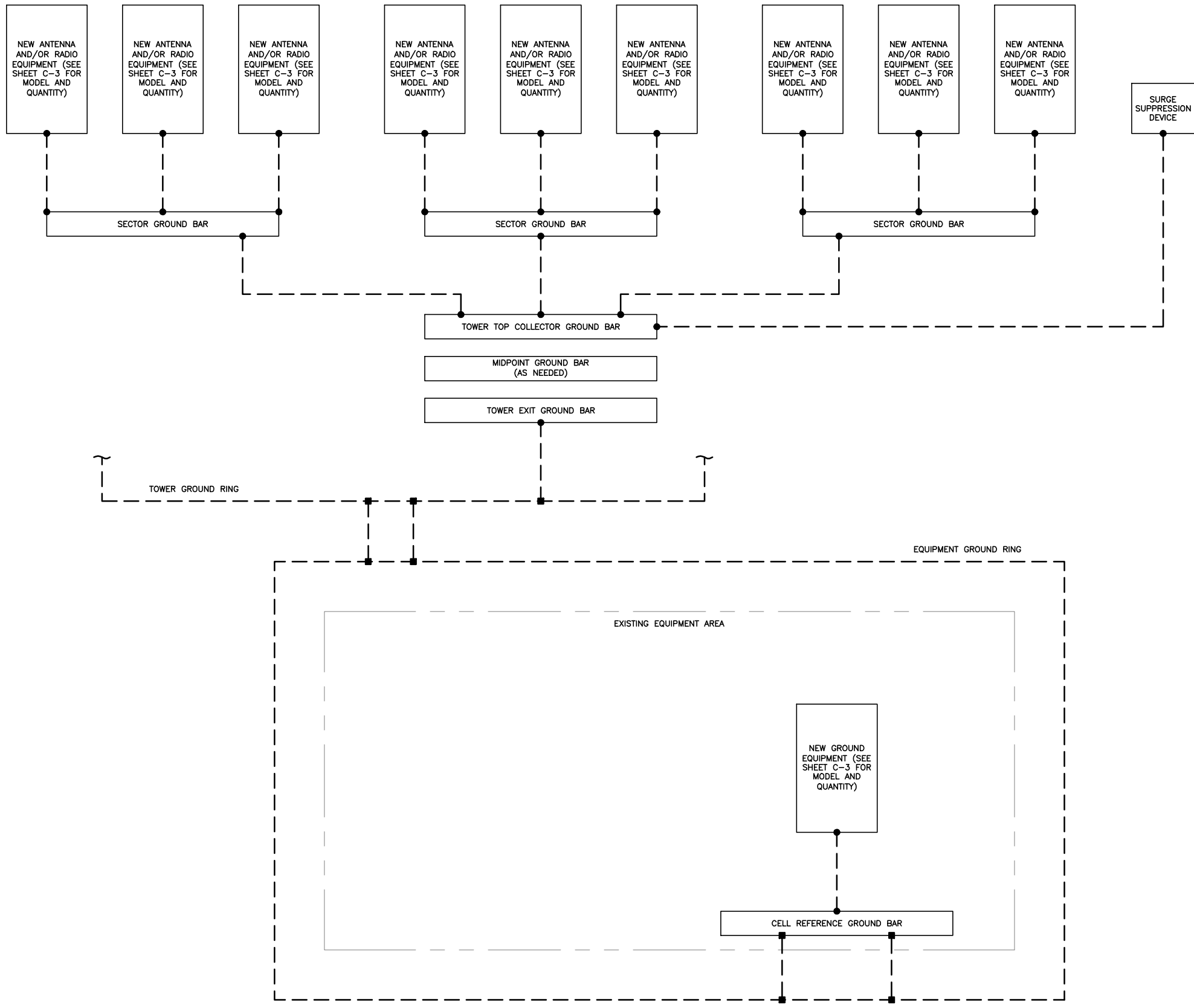
PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2174	2-3/8" OD X 174" SCH 40 GALVANIZED PIPE	174 in	55.75	167.24
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.26	15.42
4	24	X-UB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.26	6.17
5	144	G12FW	1/2" HDG USS FLATWASHER		0.03	4.91
6	144	G12LW	1/2" HDG LOCKWASHER		0.01	2.00
7	144	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	10.31
8	3	P284	2-3/8" X 84" SCH 40 GALVANIZED PIPE	84 in	26.91	80.74
9	12	X-100064	CLAMP (S) (4" V-CLAMP) GALVANIZED		0.91	10.95
10	6	X-127594	FLAT DISK CLAMP PLATE 4" CENTERS (GALV.)		2.48	14.90
11	24	G1204	1/2" x 4" HDG HEX BOLT GR5 FULL THREAD	4 in	0.27	6.48
12	12	SCX2	CROSSOVER PLATE	7 in	4.80	57.56
TOTAL WT. #						448.08



HEAVY DUTY HANDRAIL KIT FOR 14' PLATFORMS WITH 2-3/8" OR 2-7/8" ANTENNA PIPES

HRK14-HD

1 SITEPRO1 - HRK14-HD HANDRIAL KIT
SCALE: NOT TO SCALE



- GROUNDING PLAN LEGEND:**
- GROUND WIRE
 - EXOTHERMIC WELD
 - MECHANICAL CONNECTION
 - ⊙ COPPER GROUND ROD
 - ⊗ GROUND ROD W/ TEST WELL

CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUITS (ATT-TP-76416 7.6.7).

HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CELL SITE REFERENCE GROUND BAR MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) #2 STRANDED GREEN INSULATED COPPER CONDUCTORS.

EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE (ATT-TP-76416 7.6.7.2).

DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICES CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR PER TP76300 SECTION H 6 AND TP76416 FIGURE 7-11 REQUIREMENTS.

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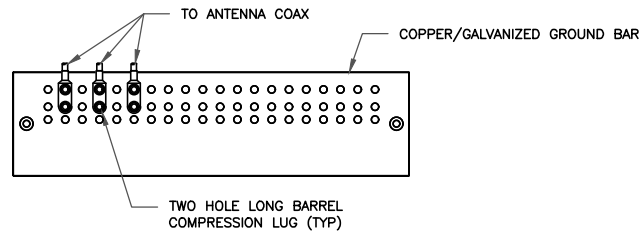
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1 GROUNDING SCHEMATIC
SCALE: NOT TO SCALE

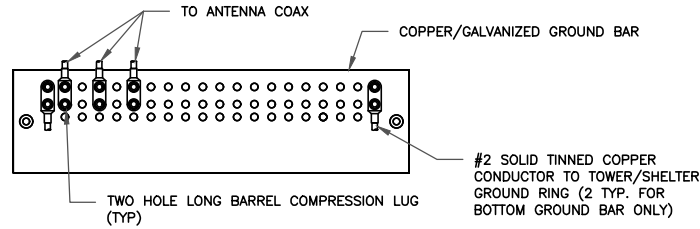
SHEET NUMBER: **G-1** REVISION: **0**

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- NOTES:
1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

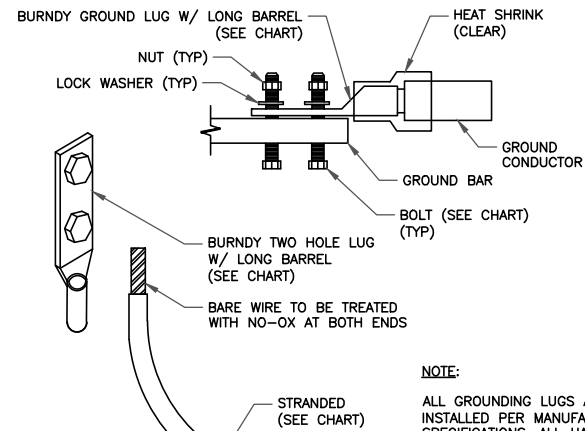
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



- NOTES:
1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

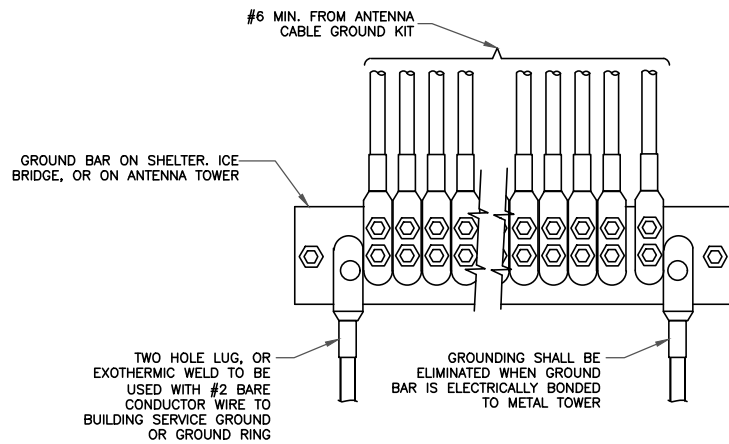
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 GREEN INSULATED	YA6C-2TC3B	3/8" - 16 NC SS 2 BOLT
#2 SOLID TINNED	YA3C-2TC3B	3/8" - 16 NC SS 2 BOLT
#2 STRANDED	YA2C-2TC3B	3/8" - 16 NC SS 2 BOLT
#2/0 STRANDED	YA26-2TC3B	3/8" - 16 NC SS 2 BOLT
#4/0 STRANDED	YA28-2N	1/2" - 16 NC SS 2 BOLT

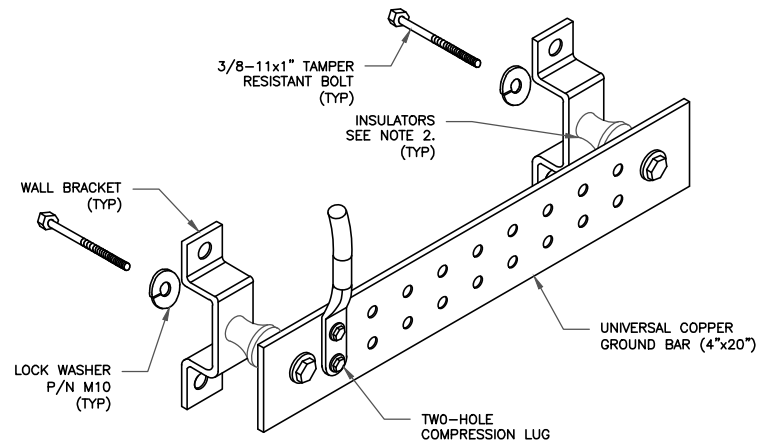


- NOTE:
- ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

3 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE

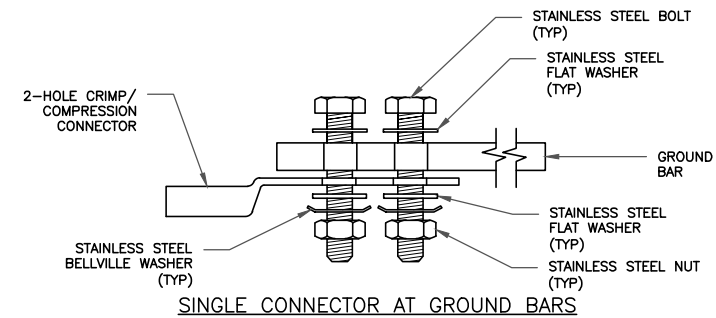


4 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE

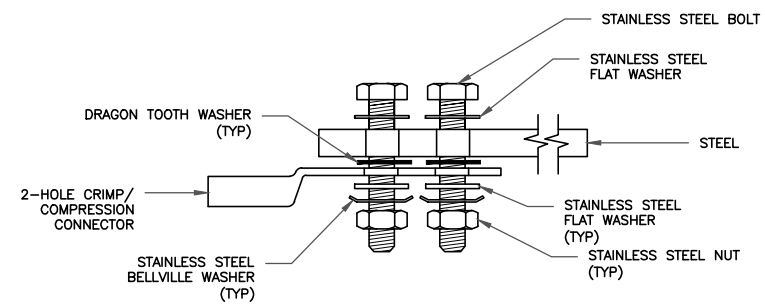


- NOTES:
1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
 2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

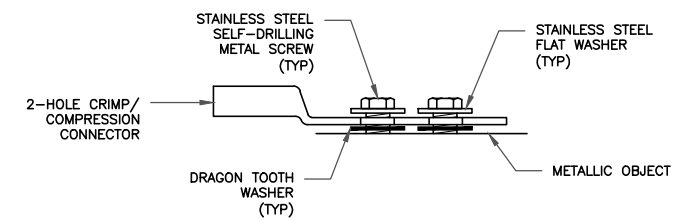
5 GROUND BAR DETAIL
SCALE: NOT TO SCALE



SINGLE CONNECTOR AT GROUND BARS

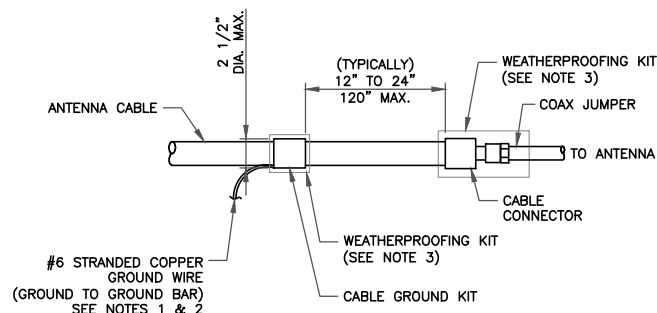


SINGLE CONNECTOR AT STEEL OBJECTS



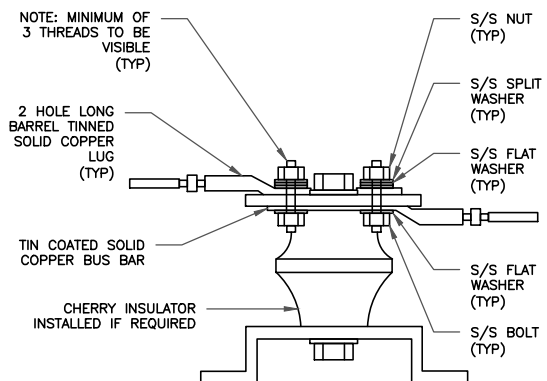
SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

8 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



- NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

6 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

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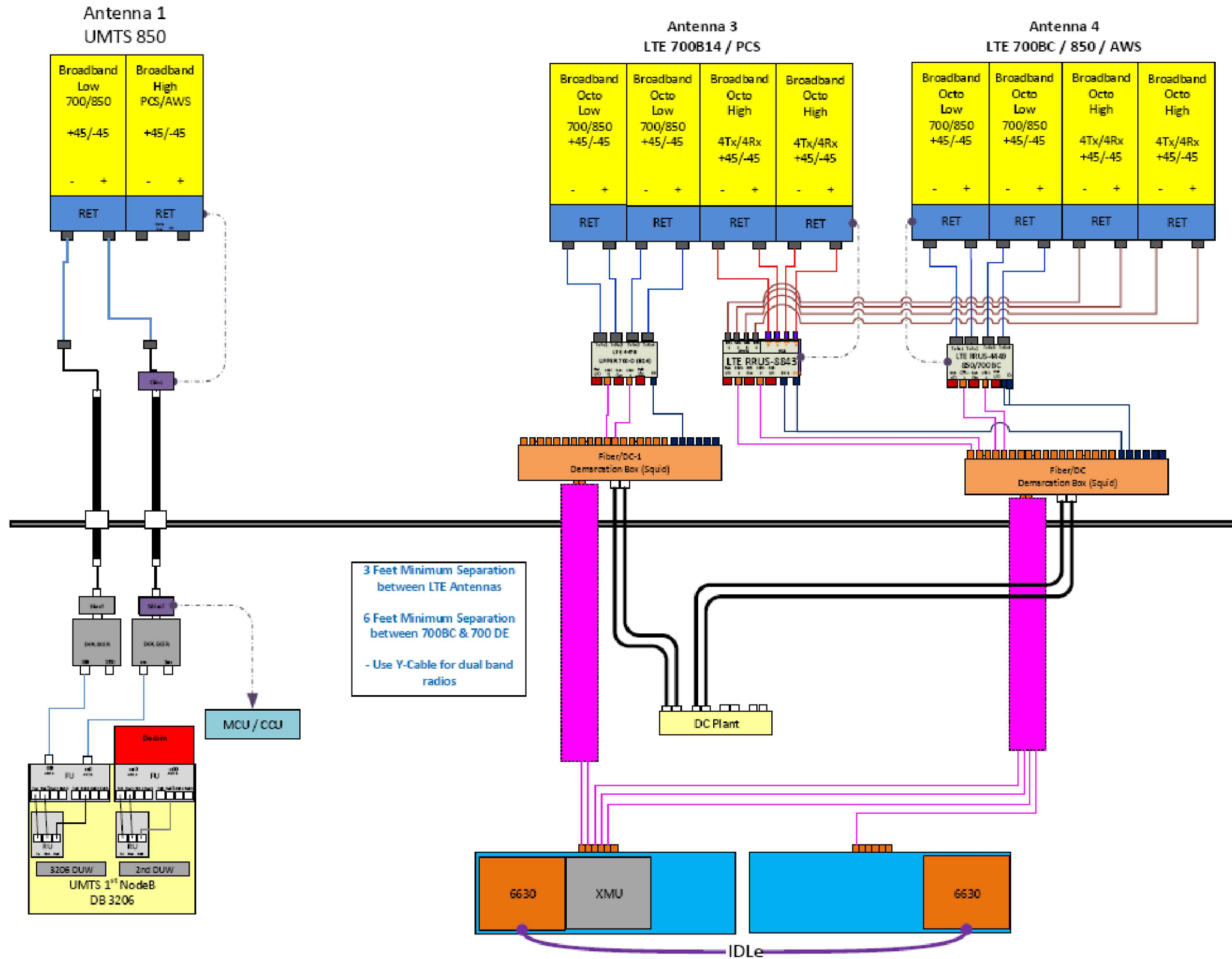
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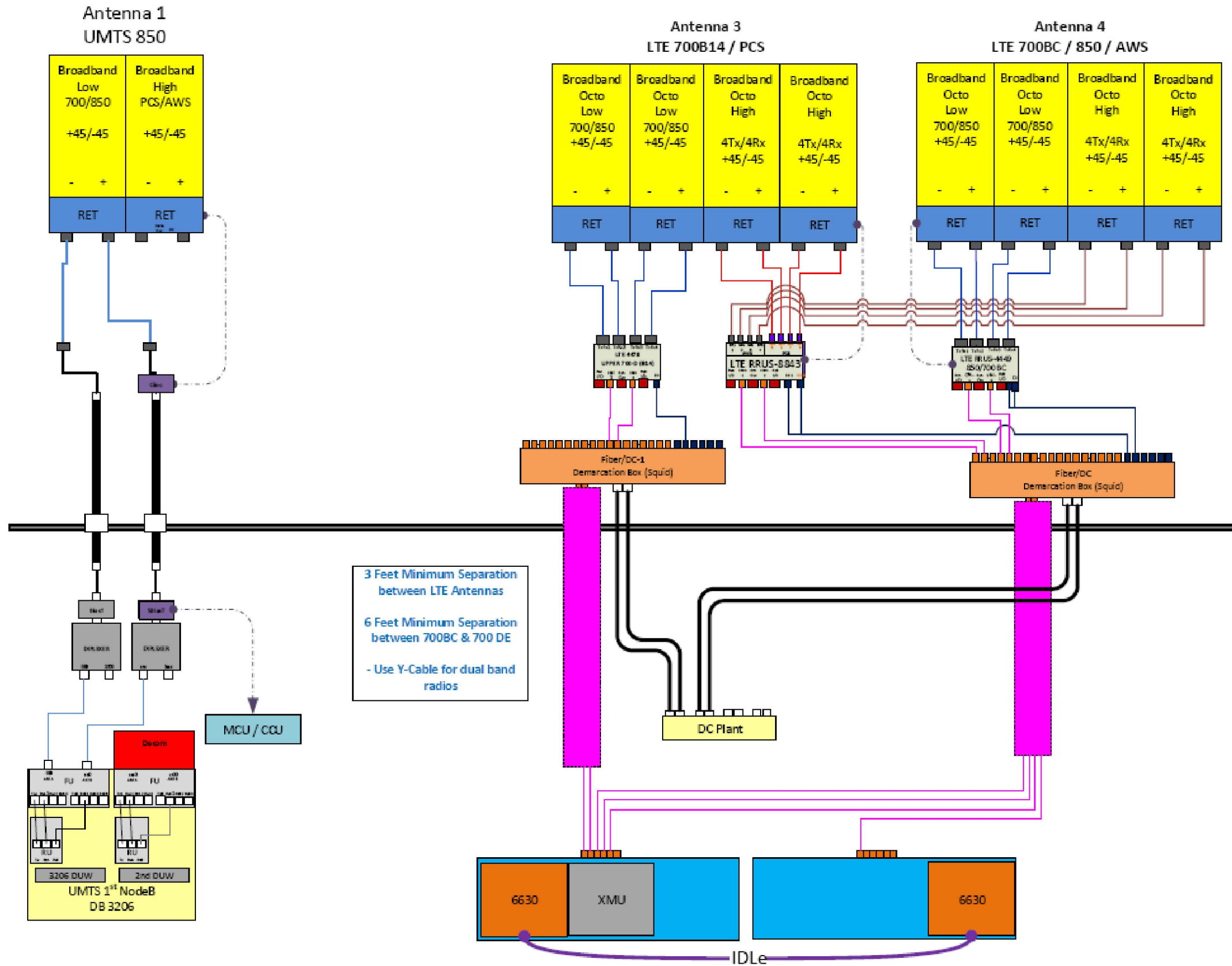
SHEET NUMBER: **G-2** REVISION: **0**

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ALPHA



BETA



GAMMA

