

1 Cityplace Dr, Suite 490

Creve Coeur, MO 63141

Phone: (314) 513-0147

www.crowncastle.com

November 11th, 2021

EM-T-MOBILE-049-211116

Melanie A. Bachman Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

RE:

Notice of Exempt Modification for T-Mobile

Crown Site ID# 876348; T-Mobile Site ID# CTHA667A Bright Meadow Blvd., ENFIELD, Connecticut 06082 Latitude: 42.02080834 / Longitude: -72.58516945



Ms. Bachman:

T-Mobile currently maintains six (6) antennas at the 147-foot mount on the existing 147.5-foot Monopole Tower located at Bright Meadow Blvd., Enfield, CT. The property is owned by Conn Light + Power Company and the Tower by Crown Castle. T-Mobile now intends to replace six (6) existing antennas. This modification/proposal includes hardware that is both 4G(LTE) and 5G capable through remote software configuration and either or both services may be turned on or off at various times.

Planned Modifications:

Tower:

Remove and Replace:

- (3) RFS / Celwave APXVSPP18-C-A20 Antennas (**REMOVE**) (3) RFS APXVAALL24_43-U-NA20 Antennas (**REPLACE**)
- (3) RFS / Celwave APXVTM14-ALU-I20 Antennas (**REMOVE**) (3) Ericsson AIR6449 B41 Antennas (**REPLACE**)
- (3) Sprint RRU Radios (REMOVE) (3) Ericsson 4480 B71+B85 RRU Radios (REPLACE)
- (3) Sprint RRU Radios (REMOVE) (3) Ericsson 4460 B25+B66 RRU Radios (REPLACE)

Remove:

(3) Sprint RRU

Ground:

Install New:

- (4) Hybrid Cables
- (1) 6160 Cabinet

The Foundation for a Wireless World.

CrownCastle.com



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- (3) BB6648 in 6160 cabinet
- (1) DUG20 in 6160 cabinet
- (1) PSU 4813 in 6160 cabinet
- (1) IXRE V2 Router in 6160 cabinet
- (1) B160 Battery Cabinet

Remove:

(2) Sprint Cabinets

The facility was approved by Enfield Planning and Zoning Commission by way of a Special Use Permit on July 2, 1998.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. §16-50j-72(b)(2). In accordance with R.C.S.A. §16-50j-73, a copy of this letter is being sent to Christopher W. Bromson, Town Manager of the Town of Enfield and Jennifer Pachaca, Assistant Town Planne for the Town of Enfield. A copy will also be sent to the property owner.

- 1. The proposed modifications will not result in an increase in the height of the existing tower.
- 2. The proposed modifications will not require the extension of the site boundary.
- 3. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. §16-50j-72(b)(2).



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Creve Coeur, MO 63141

Phone: (314) 513-0147

www.crowncastle.com

Sincerely,

Colin Robinson

Colin Robinson
Project Manager
NETWORK BUILDING + CONSULTING
100 Apollo Drive Suite 303
Chelmsford, MA 01824
crobinson@nbcllc.com
(360) 561-3311

cc:

Christopher W. Bromson, Town Manager (Via Federal Express)
Town of Enfield Connecticut
820 Enfield Street
Enfield, CT 06082
860-253-6350

Jennifer Pachaca, Assistant Town Planner (Via Federal Express) Town of Enfield 820 Enfield Street Enfield, CT 06082 860-253-6368

Connecticut Light & Power Company (Eversource) (*Via Federal Express*) 300 Caldwell Drive Springfield, MA 01104



Dear Customer,

The following is the proof-of-delivery for tracking number: 775185065463

Delivery Information:

Status:

Delivered

C.SHERRY

Signed for by: Service type:

Special Handling:

Deliver Weekday

FedEx Priority Overnight

Delivery date:

Delivered To:

Delivery Location:

ENFIELD, CT, 06082

Receptionist/Front Desk

820 ENFIELD ST

Nov 12, 2021 11:01

Shipping Information:

Tracking number:

775185065463

Ship Date:

Nov 11, 2021

Welght:

1.0 LB/0.45 KG

Recipient:

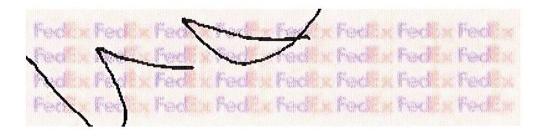
Christopher W. Bromson, Town of Enfield Connecticut 820 Enfield Street ENFIELD, CT, US, 06082

Shipper:

Colin Robinson, NB+C 100 Apollo Dr. Suite 303 CHELMSFORD, MA, US, 01824

Reference

100788 Enfield CT 876348



The following is the proof-of-delivery for tracking number: 775185164426

Delivery Information:

Status:

Delivered

Delivered To:

Receptionist/Front Desk

Signed for by:

C.SHERRY

Delivery Location:

820 ENFIELD ST

Service type:

FedEx Priority Overnight

Special Handling:

Deliver Weekday

ENFIELD, CT, 06082

Delivery date:

Nov 12, 2021 11:01

Shipping Information:

Tracking number:

775185164426

Ship Date:

Nov 11, 2021

Weight:

0.5 LB/0.23 KG

Recipient:

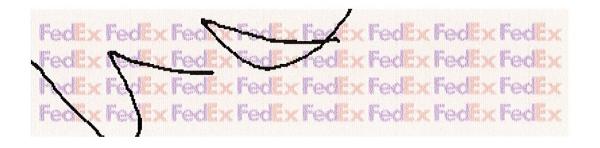
Jennifer Pachaca, Town of Enfield 820 Enfield Street ENFIELD, CT, US, 06082

Shipper:

Colin Robinson, NB+C 100 Apollo Dr. Suite 303 CHELMSFORD, MA, US, 01824

Reference

100788 Enfield CT 876348



The following is the proof-of-delivery for tracking number: 775185189202

Delivery Information:

Status:

Delivered

Delivered To:

300 CADWELL DR

Signed for by:

Signature release on file

Delivery Location:

Service type: Special Handling: FedEx Priority Overnight

Deliver Weekday

SPRINGFIELD, MA, 01104

Delivery date:

Nov 12, 2021 09:57

Shipping Information:

Tracking number:

775185189202

Ship Date:

Nov 11, 2021

Weight:

1.0 LB/0.45 KG

Recipient:

Connecticut Light & Power Company, Eversource 300 Caldwell Drive SPRINGFIELD, MA, US, 01104

Shipper:

Colin Robinson, NB+C 100 Apollo Dr. Suite 303 CHELMSFORD, MA, US, 01824

Reference

100788 Enfield CT 876348

Proof-of-delivery details appear below; however, no signature is available for this FedEx Express shipment because a signature was not required.

Exhibit A

Original Facility Approval



TOWN OF ENFIELD

CERTIFIED MAIL Z392 898 405

Karen Johnson Sprint PCS 9 Barnes Industrial Rd South Wallingford, CT 06492

Dear Ms. Johnson:

At the May 19,1998 Regular Meeting of the Enfield Conservation Commission (Inland Wetland and Watercourses Agency), the following action was taken:

IW 273 - Application of Sprint PCS (Telecommunications) requesting a permit or regulated activities associated with the erection of a telecommunications tower accesses from Brightmeadow Boulevard.

The Commission approved the application with the following conditions:

- 1. The permittee shall notify the Planning Department at 253-6358 immediately upon the commencement of work and upon its completion.
- 2. If the authorized activity has not been initiated before May 19,2000, this permit shall be null and void if not previously revoked or specifically extended. The duration of the permit once initiated shall be 5 years from the date of approval.
- 3. All work and all regulated activities conducted pursuant to this authorization shall be consistent with these terms and conditions of this permit. Any structures, excavation, fill, obstruction, encroachments or regulated activities not specifically identified and authorized herein shall constitute a violation of this permit and may result in its modification, suspension, or revocation. Upon initiation of the activities authorized herein, the permittee thereby accepts and agrees to comply with the terms and conditions of this permit.
- 4. The authorization is not transferable without the written consent of the Enfield Conservation Commission.
- In evaluating this application, the Commission has relied on information provided by the applicant and, if such information subsequently proves to be false, deceptive, incomplete and/or inaccurate this permit shall be modified, suspended or revoked.

- 6. This permittee shall employ best management practices, consistent with the terms and conditions of the permit, to control stormwater discharges and to prevent erosion and sedimentation and to otherwise prevent pollution of wetlands or watercourses. For information and technical assistance, contact the Town Planner. The permittee shall immediately inform the Planning Department of any problems involving wetlands or watercourses which have developed in the course of, or which are caused by, the authorized work.
- 7. No equipment or material including without limitation, fill, construction materials, or debris, shall be deposited, placed, or stored in any wetland or watercourse on or off site unless specifically authorized by this permit.
- 8. This permit is subject to and does not derogate any present or future property rights or other rights or powers of the Town of Enfield, and conveys no property rights or in real estate of material nor any exclusive privileges, and is further subject to any and all public and private rights and to any activity affected hereby.
- 9. Timely implementation and maintenance of sediment and erosion control measures are a condition of this permit. (All sediment and erosion control measures must be maintained until all disturbed areas are stabilized.)
- 10. A pre-construction meeting shall be held prior to the commencement of any construction activities on the site with the applicant, contractor, and Town staff.
- 11. A landscape/performance bond shall be posted prior to any cleaning of the site.

If you have any questions regarding this action, please contact me at (860)253-6358.

Very truly yours,

Laurie P. Whitten

Assistant Town Planner

Laurie P. Whitten

LPW/vch



TOWN OF ENFIELD

CERTIFIED MAIL Z205 375 469



July 7, 1998

Karen Johnson Vanasse Hangen Brustlin Inc. 54 Tuttle Place Middletown, CT 06457

Dear Ms. Johnson:

At the July 2,1998 Regular Meeting of the Enfield Planning & Zoning Commission the following action was taken:

PH 2053 — Special Use Permit for a Commercial Wireless Telecommunication Service including site plan review of a wireless telecommunication facility consisting of a 150-foot Monopole and associated equipment surrounded by a chain link fence located east of Bright Meadow Blvd. adjacent to the Harley Hotel (Assessor's Map 35, Lot 219 - Old Enfield St) BR zone — The Connecticut Light and Power Company, owner / Sprint Spectrum L.P. (Sprint PCS) aplct.

The Commission approved the application with the following conditions:

1. An engineering bond for removal of the wireless telecommunications facility including the tower and base components in an amount to be determined by the town engineer shall be submitted to the town prior to the start of construction and prior to the issuance of any building permits. Any need to use the bond by the town shall be binding on the site regardless of name of the bond obligee.

- 2. An erosion and sedimentation control passbook, pledged to the town, in an amount to be determined buy the town engineer, shall be submitted to the town prior to the start of construction.
- 3. A preconstruction meeting between the applicant, site contractors, project engineer and town staff shall be held prior to the beginning of any site work.
- 4. The tower shall accommodate both the applicant's Antennas and comparable Antennas for at least two additional users.
- 5. The tower shall allow for future rearrangement of Antennas upon the tower and shall accommodate Antennas mounted at varying heights.
- 6. The wireless communication facility shall not interfere with existing or proposed public safety communications, commercial television and radio signals or other forms of communication transmissions. Penalty for subsequent interference shall void the approval of the facility.
- 7. The wireless communication facility shall comply with the standards promulgated by the Federal Communication Commission (FCC).
- 8. All generators installed in conjunction with the wireless communications facility shall comply with all State and local noise regulators.
- 9. On or before August 31 every year, the applicant or wireless telecommunications service provider shall submit information to the Planning Zoning Commission file in support of the provision of Section 14-8.6 of the Zoning Ordinance.
- 10.If the wireless communications facility is not in use for 12 consecutive months, it shall be removed within 90 days from the end of such 12 month period, including any towers and base components by the last service provider using the site or owner, whichever has a contractual obligation to perform the removal. The site shall be restored to an appearance that is compatible with the surrounding neighborhood and where appropriate, re-vegetated to blend with surrounding area.
- 11. The special use permit for a commercial wireless telecommunication service shall be valid for a maximum period of 10 years with a right of reapplication under regulations in effect at that time.

- Karen Johnson
- 12. The approval of an application for special use permit shall be void and of no effect unless construction of the project commences within one year from the date of the approval granted by the commission in accordance with Section 14-10.2 of the Zoning Ordinance.
- 13. Arrangements shall be made with the fire department regarding emergency access to the compound.
- 14. The plans shall be modified to show a paved apron at the driveway entrance that conforms to town paving specifications.
- 15. The plans shall be modified to include standard notes as recommended by the town engineer.
- 16. Monopole shall be maintained if becomes rusty or eye sore.

If you have any questions regarding this action, please contact me at (860)253-6358.

Very truly yours,

Laurie P. Whitten Acting Town Planner

surie P. White

LPW/vch

Exhibit B

Property Card

BU#: 876348

Γax Parcel ID # (Real Property):

ENFI-000487-000001-000005

Aerial Photo of Parcel from County GIS Database:



3 BRIGHT MEADOW BLVD

Location 3 BRIGHT MEADOW BLVD Mblu 035/ / 0219/ /

Acct# 048700010005

CONN LIGHT + POWER Owner

COMPANY

Assessment \$485,710 **Appraisal** \$693,860

PID 11009 **Building Count** 1

Fire District 4

Current Value

	Appraisal		
Valuation Year	Improvements	Land	Total
2020	\$419,280	\$274,580	\$693,860
	Assessment	COURT AND TO COURT AND EXPLORED THE STORY STORY OF A STORY AND	m a demonstrative handes on the contract and and an action where had the substitute of the same and the same
Valuation Year	Improvements	Land	Total
2020	\$293,500	\$192,210	\$485,710

Owner of Record

Owner

CONN LIGHT + POWER COMPANY

Sale Price

\$0

Co-Owner Address

PO BOX 270

Certificate

1

HARTFORD, CT 06140-0270

Book & Page 0237/0455

Sale Date

Instrument

Ownership History

Ownership History						
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date	
CONN LIGHT + POWER COMPANY	\$0	1	0237/0455			

Building Information

Building 1 : Section 1

Year Built:

Living Area:

0

Replacement Cost:

\$0

Building Percent Good:

Replacement Cost

Buildi	ng Attributes
Field	Description
tyle	Outbuildings
lodel	**************************************
Grade:	
Stories	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure	
Roof Cover	
nterior Wall 1	
nterior Wall 2	
nterior Flr 1	
nterior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
otal Bedrooms:	
Full Bthrms:	
lalf Baths:	
Extra Fixtures	
otal Rooms:	
Bath Style:	
Citchen Style:	
Extra Kitchens	
Fireplace(s)	
Extra Opening(s)	
Gas Fireplace(s)	
Blocked FPL(s)	
Ssmt Garage(s)	
Fin Bsmt	
FBM Quality	
Vhirlpool(s)	
Sauna	
Valk Out	
Solar	
Endtn Cndtn	
Basement	

Building Photo



(http://images.vgsl.com/photos2/EnfieldCTPhotos/\00\02\72\14.JPG)

Building Layout

Building Layout (ParcelSketch.ashx?pid=11009&bid=11009)

Building Sub-Areas (sq ft)

Legend

No Data for Building Sub-Areas

Extra Features

Legend

No Data for Extra Features

Land

Land Use

300

Use Code Description

Ind Land

Zone

BR

Neighborhood Alt Land Appr No

Category

Land Line Valuation

Size (Acres)

12.61

Frontage

Depth

Assessed Value \$192,210

Appraised Value \$274,580

Outbuildings

Outbuildings <u>Lege</u>						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN2	FENCE-6' CHAIN			400.00 L.F.	\$3,400	1
MSC1	CMEQ			360.00 UNIT	\$13,500	1
MSC1	CMEQ			240.00 UNIT	\$9,000	1
MSC1	CMEQ			240.00 UNIT	\$9,000	1
TWR3	Cell Twr3 Carriers			1.00 UNITS	\$384,380	1

Valuation History

Appraisal					
Valuation Year	Improvements	Land	Total		
2019	\$419,280	\$274,580	\$693,860		
2018	\$419,280	\$274,580	\$693,860		
2017	\$419,280	\$274,580	\$693,860		

Assessment					
Valuation Year	Improvements	Land	Total		
2019	\$293,500	\$192,210	\$485,710		
2018	\$293,500	\$192,210	\$485,710		
2017	\$293,500	\$192,210	\$485,710		

T - Mobile - -

T-MOBILE SITE NUMBER: CTHA667A

T-MOBILE SITE NAME: CTHA667A

SITE TYPE: MONOPOLE

TOWER HEIGHT:

147'-6"

BUSINESS UNIT #:876348

SITE ADDRESS:

BRIGHT MEADOW BLVD.
ENFIELD, CT 06082

COUNTY: HARTFORD

JURISDICTION: HARTFORD COUNTY

T-MOBILE SPRINT RETAIN SITE CONFIGURATION: 67E5998E_1XAIR+1OP

CROWN CASTLE USA INC. SITE NAME: SITE ADDRESS: BRIGHT MEADOW BLVD. ENFIELD, CT 06082 COUNTY: HARTFORD MAP/PARCEL #: AREA OF CONSTRUCTION: LATITUDE: 42,02080834° (42° 1' 14,91")

SITE INFORMATION

LATITUDE: 42.02080834° (42° 1' 14.91")
LONGITUDE: -72.58516945° (-72° 35' 6.59")
LAT/LONG TYPE: NAD83
GROUND ELEVATION: 108.27 FT

CURRENT ZONING: BR
JURISDICTION: HARTFORD COUNTY
OCCUPANCY CLASSIFICATION: U

TYPE OF CONSTRUCTION:

A.D.A. COMPLIANCE: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

PROPERTY OWNER: CONN LIGHT + POWER COMPANY PO BOX 270 HARTFORD. CT 06140-0270

TOWER OWNER: CROWN CASTLE 2000 CORPORATE DRIVE

CANONSBURG, PA 1531'
CARRIER/APPLICANT: T-MOBILE
35 GRIFFIN ROAD

ELECTRIC PROVIDER: TBI

TELCO PROVIDER:

PROJECT TEAM

BLOOMFIELD, CT 06002

A&E FIRM:

INFINIGY 1033 WATERVLIET SHAKER RD.

ALBANY, NY 12205

CROWN CASTLE USA INC. DISTRICT CONTACTS: 1500 CORPORATE DRIVE CANONSBURG, PA 15317

TRICIA PELON - PROJECT MANAGER

(518) 373-350

JASON D'AMICO - CONSTRUCTION MANAGER (860) 209-0104

DRAWING INDEX

SHEET#	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
C-1	SITE PLAN & ENLARGED SITE PLAN
C-2	FINAL ELEVATION & ANTENNA PLANS
C-3	ANTENNA & CABLE SCHEDULE
C-4	PLUMBING DIAGRAM
C-5	EQUIPMENT SPECS
C-6	EQUIPMENT SPECS
E-1	AC PANEL SCHEDULES & ONE LINE DIAGRAM
G-1	ANTENNA GROUNDING DIAGRAM
G-2	GROUNDING DETAILS

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.

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:

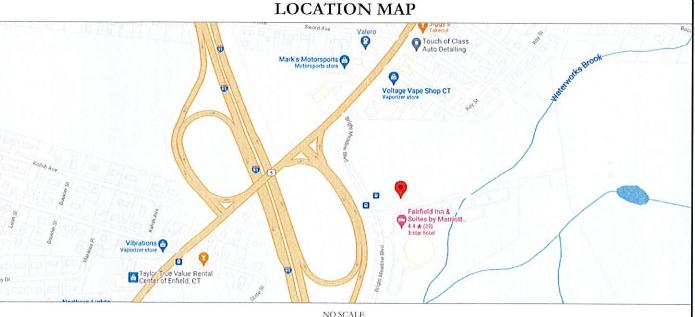
- REMOVE (6) ANTENNAS
 REMOVE (9) RRHs
- REMOVE (9) RRHs • REMOVE (1) RRH MOUNT
- REMOVE (1) RRH MOUNT • REMOVE (3) HYBRID CABLES
- INSTALL (6) ANTENNAS
- INSTALL (6) RRHs
- INSTALL (4) HYBRID CABLES

GROUND SCOPE OF WORK:

- REMOVE (1) MMBS EQUIPMENT CABINET
- REMOVE (1) BBU EQUIPMENT CABINET • INSTALL (1) 6160 & (1) B160 BATTERY CABINETS
- INSTALL (3) BB 6648 • INSTALL (1) DUG20
- INSTALL (I) PSU 4813
- INSTALL (1) PSU 4813 • INSTALL (1) CSR IXRe V2 (GEN2)
- UPGRADE SERVICE TO 200AMP.

NOTE:

PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION MANAGER.



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:

CODE TYPE
BUILDING
MECHANICAL
ELECTRICAL

2018 CT STATE BUILDING CODE 2015 IMC 2017 NEC

REFERENCE DOCUMENTS:
STRUCTURAL ANALYSIS: MORRISON HERSHFIELD

DATED: 09/28/2021

MOUNT ANALYSIS: B+T GROUP
DATED: 09/08/2021

RFDS REVISION: 1
DATED: 08/03/2021

ORDER ID: 557903

REVISION: 2

CALL CONNECTICUT ONE CALL
(800) 922-4455 CBYD.COM
CALL WORKING DAYS
BEFORE YOU DIG

APPROVALS

APPROVAL SIGNATURE DATE

PROPERTY OWNER OR REP.

LAND USE PLANNER

T-MOBILE

OPERATIONS

RF

NETWORK

BACKHAUL

CONSTRUCTION MANAGER

THE PARTIES ABOVE HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHÂNGES AND MODIFICATIONS THEY MAY IMPOSE.

T - Mobile - -

35 GRIFFIN ROAD BLOOMFIELD, CT 06002





T-MOBILE SITE NUMBER: CTHA667A

> BU #: 876348 ENFIELD

BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

ISSUED FOR:					
REV	DATE	DRWN	DESCRIPTION	DES./QA	
0	06/09/2021	PEG	FINAL	SS	
1	10/12/2021	17	SA REFERENCE	SS	
-				-	
_				_	



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTIC OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET NUMBER:

T-1

REVISION 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.
- "LOOK UP" CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: TOOK OF — GROWN CASILE USA INC. SAFELL CLIMB REQUIREMENTS.

 THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR FOUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
- PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL
- ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REQULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED-STD-10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA-322
- ALL SITE WORK TO COMPLY WITH QAS-STD-1006B "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED-STD-10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA-1019-A-2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."
- F THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTI SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REQUILATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND CAUTHORITY WITH ALL LAWS, ORDINANCES, COLLES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY RECARDING THE PERFORMANCE OF THE WORK, ALL WORK CARRIED ON SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES,
- ORDINANCES AND APPLICABLE REGULATIONS.

 THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

 THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.

 ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE

 WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE

 WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR EXTERME CAUTION SHOULD BE USED BY THE

 CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL
- PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E)
 CONSTRUCTION SAFETY PROCEDURES.
 ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT
 SPECIFICATIONS, LATEST APPROVED REVISION.

- SPECIFICATIONS, LATEST APPROVED REVISION.

 12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IN ENCESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

 13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL
- OF CONTRACTOR, TOWER OWNER, FOROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.

 THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
- 15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- SURFACE APPLICATION.

 THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- 19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY, ANTENNAS REMOVED SHALL BE
- RETURNED TO THE OWNER'S DESIGNATED LOCATION.

 CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED.
- FROM SITE ON A DAILY BASIS.

 22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION CARRIER: T-MOBILE
- CARRIER: T-MOBILE
 TOWER OWNER: CROWN CASTLE USA INC.
 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. IT IS
 ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE
 WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY

- WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

 HESE DRAWINGS, THE CONTRACTOR SHALL BE STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SHALL WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE PROFERED FOR THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE PROFERED FOR THE PROJECT OF THE PROJECT OF
- OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUITING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENCINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

 PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL WISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONDERN THAT THE WORK CAN BE ACCOMPLISHED AS FORMY, ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.

 ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK, CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL URISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURITEMANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

 THE CONTRACTOR SHALL INSTALLATION FOR APPROVAL BY THE CONTRACTOR WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

 IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUTS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE BEST ROUTING OF ALL CONDUTS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE DEWER, TELCO, AND FOR GROUNDING CABLES AS SHOWN IN THE DEWER, TELCO AND FOR GROUNDING PLAN DRAWINGS.

 THE CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUTS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND AND SEDICTURES AND SHOWN IN THE POWER, TELCO, AND STRUCTURES AND STRU

- DRAWINGS.

 THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY
 DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
 CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COXIAL CABLES AND
 OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE A DAILY BASIS

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

- 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.

 UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 pst.
- TO BE 1000 psf.

 ALL GONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (fc) OF 3000 psf at 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90'F AT TIME OF PLACEMENT.
- PLACEMENT.
 CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR
 ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO
 TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.
- ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE SEDILOWS. #4 BARS AND SMALLER...

#6 BARS AND LARGER.....

#5 BARS AND SMALLER.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS.
BEAMS AND COLUMNS.

A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

GREENFIELD GROUNDING NOTES:

- 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
- THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTAL 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.

 THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT
- WITH THE POWER CIRCUITS TO BIS EQUIPMENT.

 EACH CABINET FRAME SHALL BE DIERCITY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.

 CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.

 ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE 2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

 ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

 USE OF 90' BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45' BENDS CAN BE ADEQUATELY SUPPORTED.

 EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

 MICROPHYLIC CONNECTIONS ADDITED TO THE MASTER OF THE CONNECTIONS BELOW GRADE.

- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

 ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

 COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

 ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

 APPROVED ANTIOXIDANT COATINGS (1.e. CONDUCTIVE GEL OR PASTE) SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND CONNECTIONS.

 ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

 MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

 BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.

 GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTININS PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

 ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDULT WITH BUST BE SEALED WITH SILICONE COUNT. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

 BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIP LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

ELECTRICAL INSTALLATION NOTES:

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE
- FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
 CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED
 AND TRIP HAZARDS ARE ELIMINATED.
- AND TRIP HAZARDS ARE ELIMINATED.
 WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
 ALL CIRCUITS SHALL BE SECRECATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
 ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABBL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
- 4.2.
- REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

 ALL OVERCURRENT TO THE NATIONAL ELECTRICAL CODE.

 ALL OVERCURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERYIFY AVAILABLE SHORT CIRCUIT CURRENT D NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.

 EACH END OF EVERT POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV

 PROTECTION, OR EQUIPMENT THE METHOD SHALL CONSERVE WITH NEC AND COME.
- PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
 ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
 ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
 ALL POWER AND CQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
 SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THHW, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.
 POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS
- OTHERWISE SPECIFIED.
- 12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

 13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP—STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AN BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75 C (90° C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA UL. ANSIZIFFE
- 15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FO
- EXPOSED INDOOR LOCATIONS.

 16. ELECTRICAL METALLIC TUBING (EMT) OR METAL—CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

 17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE
- 18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION
- LIQUID-TIGHT FLEXIBLE METALLIC CONDOTI (LIGORIZ-THE FLEX) STATE OF USE OF LIGHT FLEXIBLE METALLIC CONDOTINE FLEXIBLE TO COCCUPANTIAL TO CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION—TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- 20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND
- THE NEC.
 WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS
- (WIREMOLD SPECMATE WIREWAY).
- (WIREMOLD SPECMATE WIREWAY).

 SCONDUTS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY OF THE STRUCTURE AND KEPE CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES, CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERFENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORATY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON DUSTIDE AND INSIDE.

 EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY—COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
- STEEL SHALL MEET OR EXCEED UL 30 AND BE RATED NEMA I (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.

 METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA 0S 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS

- (WP OR BETTER) FOR EXTERIOR LOCATIONS.

 26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

 27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

 28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.

 29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "T-MOBILE".

 30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

COND	UCTOR COL	LOR CODE	
SYSTEM	CONDUCTOR	COLOR	
	A PHASE	BLACK	
120/240V, 1Ø	B PHASE	RED	
120/2404, 10	NEUTRAL	WHITE	
	GROUND	GREEN	
	A PHASE	BLACK	
	B PHASE	RED	
120/208V, 3Ø	C PHASE	BLUE	
	NEUTRAL	WHITE	
	GROUND	GREEN	
	A PHASE	BROWN	
	B PHASE	ORANGE OR PURPLE	
277/480V, 3Ø	C PHASE	YELLOW	
	NEUTRAL	GREY	
	GROUND	GREEN	
DC VOLTAGE	POS (+)	RED**	
DC VOLIAGE	NEG (-)	BLACK**	

SEE NEC 210.5(C)(1) AND (2)
POLARITY MARKED AT TERMINATION

EXISTING FACILITY INTERFACE FRAME

GENERATOR GLOBAL POSITIONING SYSTEM GLOBAL SYSTEM FOR MOBILE LONG TERM EVOLUTION

RADIO BASE STATION
REMOTE ELECTRIC TILT
RADIO FREQUENCY DATA SHEET
REMOTE RADIO HEAD
REMOTE RADIO UNIT
SMART INTEGRATED DEVICE
TOWER MOUNTED AMPLIFIER
TYPICAL

TYPICAL
UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
WORK POINT

MASTER GROUND BAR NATIONAL ELECTRIC CODE

POWER PLANT

QUANTITY

RECTIFIER RADIO BASE STATION

ABBREVIATIONS:

GEN GPS GSM LTE MGB MW

(P)

ANTENNA

APWA UNIFORM COLOR CODE:

WHITE PROPOSED EXCAVATION PINK TEMPORARY SURVEY MARKINGS ELECTRIC POWER LINES, CABLES,

CONDUIT, AND LIGHTING CABLES YELLOW GAS, OIL, STEAM, PETROLEUM, OR GASEOUS MATERIALS ORANGE COMMUNICATION, ALARM OR SIGNAL LINES, CABLES, OR CONDUIT AND TRAFFIC LOOPS

BLUE POTABLE WATER

GREEN SEWERS AND DRAIN LINES

PURPLE RECLAIMED WATER, IRRIGATION, AND

T • • Mobile • •

35 GRIFFIN ROAD BLOOMFIELD, CT 06002



CANONSBURG, PA 15317

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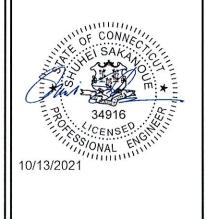
T-MOBILE SITE NUMBER: CTHA667A

> BU #: 876348 **ENFIELD**

BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

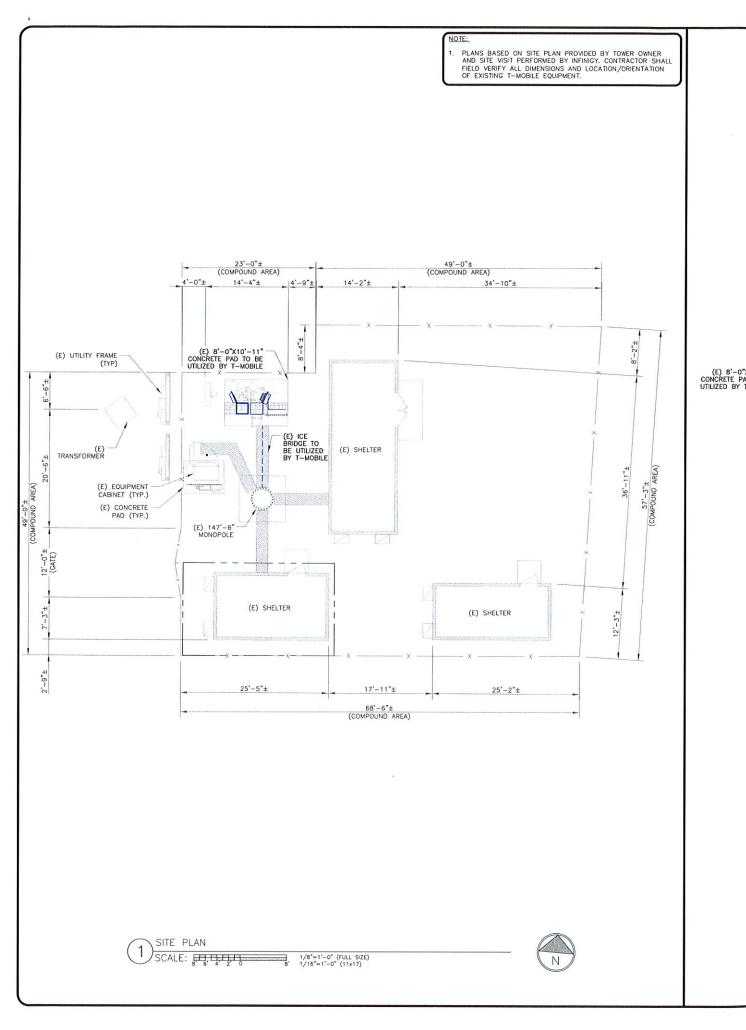
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Ü	06/09/2021	PEG	FINAL	SS
1	10/12/2021	77)	SA REFERENCE	SS
-				-



IT IS A VIOLATION OF LAW FOR ANY PERSON. UNLESS THEY ARE ACTING UNDER THE DIRECTION TO ALTER THIS DOCUMENT.

SHEET NUMBER:

REVISION:



NOTES:

THE POWER DESIGN FOR ANY AC ELECTRICAL POWER CHANGES IS TO BE PERFORMED BY OTHERS AND IS SHOWN HERE FOR REFERENCE PURPOSES ONLY. T—MOBILE IS SOLELY RESPONSIBLE FOR THE ELECTRICAL POWER DESIGN.

T - -Mobile - - -

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T-MOBILE SITE NUMBER: **CTHA667A**

BU #: 876348 ENFIELD

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EXISTING 147'-6" MONOPOLE

		ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./Q.		
0	06/09/2021	PEG	FINAL	SS		
1	10/12/2021	Tj	SA REFERENCE	SS		
				-		



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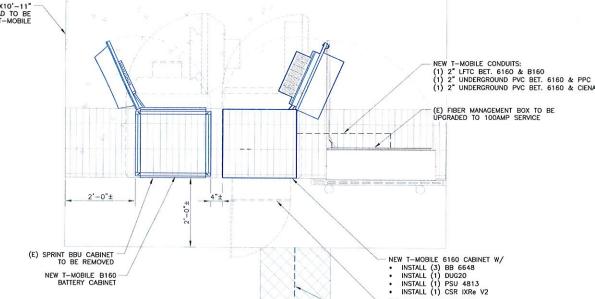
REVISION:

SHEET NUMBER:

C-1

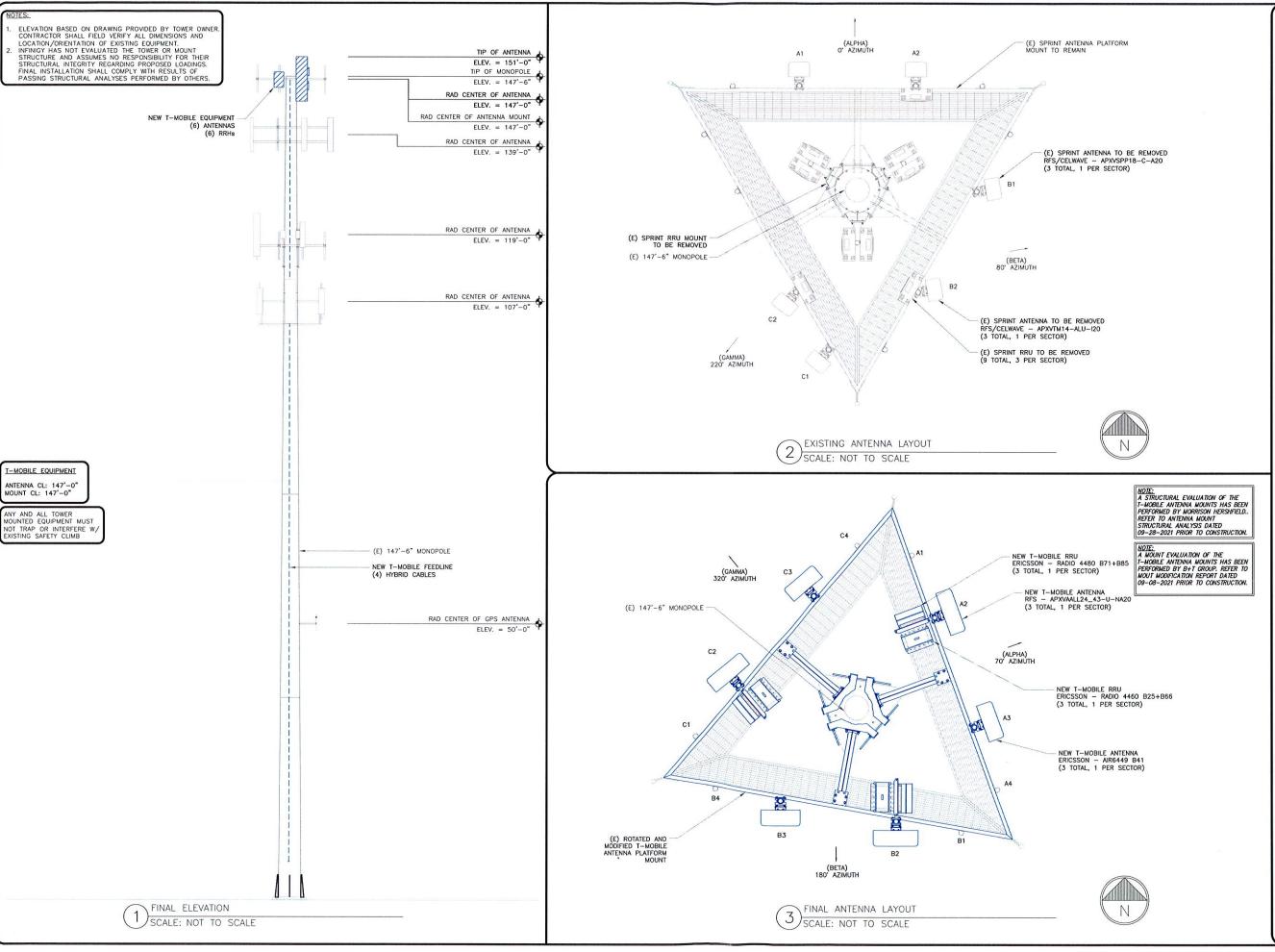
N

NEW T-MOBILE FEEDLINE
(4) HYBRID CABLE
(E) ICE BRIDGE TO BE
UTILIZED BY T-MOBILE



ENLARGED SITE PLAN

SCALE: 6* 0 . 3/4*=1'-0* (FULL SIZE)
3/8*=1'-0* (11x17)





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CANONSBURG, PA 15317

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T-MOBILE SITE NUMBER: CTHA667A

BU #: 876348 ENFIELD

BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

ISSUED FOR:						
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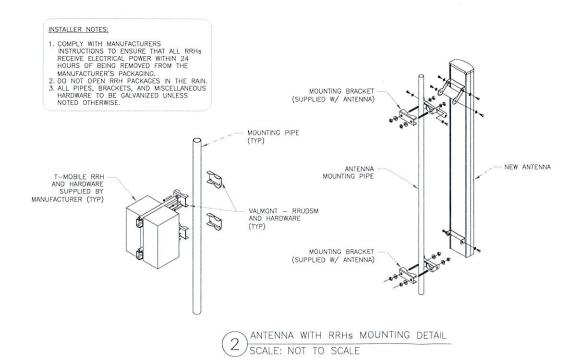
SHEET NUMBER:

C-2

revision:

				Minhael						
						ANTENNA SCHEDULE				
SECTOR	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	ANTENNA MANUFACTURER	ANTENNA MODEL	MECH. TILT	ELECT. TILT	TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE
ALPHA	A1									
ALPHA	A2	L700, L600, N600, L1900, G1900, L2100	147'-0"	70*	RFS	APXVAALL24_43-U-NA20			(1) ERICSSON - RRUS 4480 B71+B85 (1) ERICSSON - RRUS 4460 B25+B66	(4) 6X24 HCS HYBRID (SHARED)
ALPHA	A3	L2500, N2500	147'-0"	70*	ERICSSON	AIR6449 B41				HIBRID (SHARED)
ALPHA	A4									
BETA	В1									
BETA	B2	L700, L600, N600, L1900, G1900, L2100	147'-0"	180'	RFS	APXVAALL24_43-U-NA20			(1) ERICSSON - RRUS 4480 B71+B85 (1) ERICSSON - RRUS 4460 B25+B66	(4) 6X24 HCS HYBRID (SHARED)
BETA	В3	L2500, N2500	147'-0"	180*	ERICSSON	AIR6449 B41				HIBRID (SHARED)
BETA	B4	'								
							1			
GAMMA	C1									
GAMMA	C2	L700, L600, N600, L1900, G1900, L2100	147'-0"	320*	RFS	APXVAALL24_43-U-NA20			(1) ERICSSON - RRUS 4480 B71+B85 (1) ERICSSON - RRUS 4460 B25+B66	(4) 6X24 HCS
GAMMA	C3	L2500, N2500	147'-0"	320°	ERICSSON	AIR6449 B41			72	HYBRID (SHARED)
GAMMA	C4									1

ANTENNA AND CABLE SCHEDULE SCALE: NOT TO SCALE



NOTE:

. CONTRACTOR SHALL INSTALL 3RD DUAL RRH MOUNT TO
ACCOMMODATE ALL RRH BRACKETS HOLES IF NECESSARY



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T-MOBILE SITE NUMBER: CTHA667A

> BU #: 876348 ENFIELD

BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

ISSUED FOR:							
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				-			



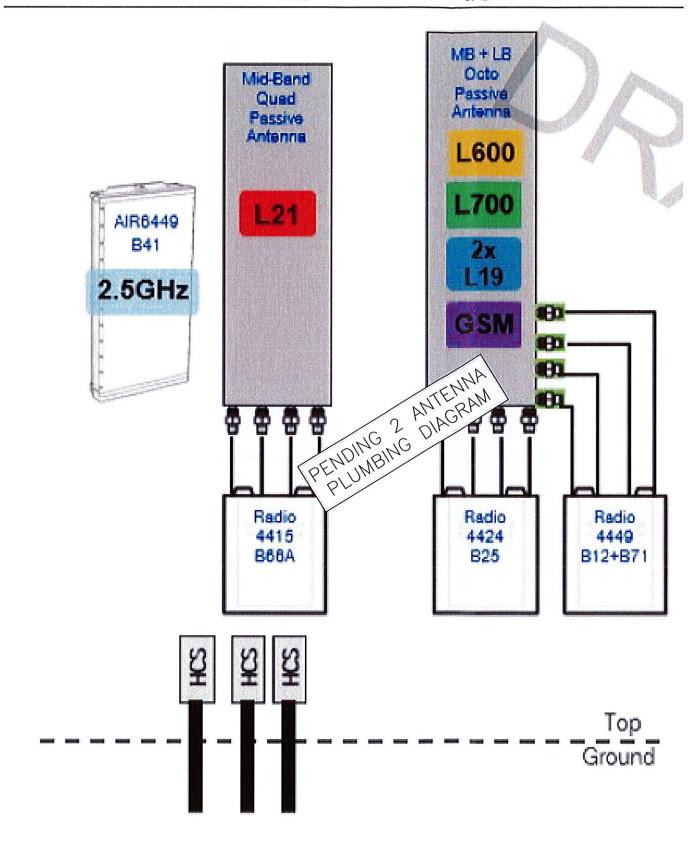
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REVISION:

67D5A998C_1xAIR+1xQP+1xOP.jpg



PLUMBING DIAGRAM 1) SCALE: NOT TO SCALE



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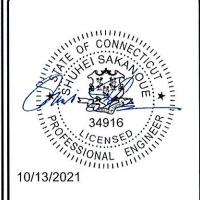
T-MOBILE SITE NUMBER: CTHA667A

> BU #: 876348 **ENFIELD**

BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

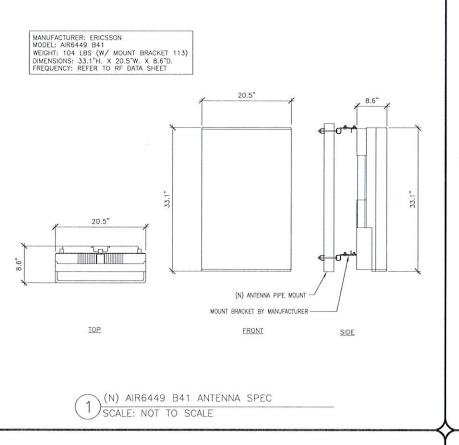
ISSUED FOR:								
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				-				
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17.0"x15.1"x11.9"

-40' TO 55' C

(N) ANTENNA PIPE MOUNT

MOUNTING BRACKET — PROVIDED BY MANUFACTURER

(N) RADIO 4460 -

(N) ANTENNA -PIPE MOUNT

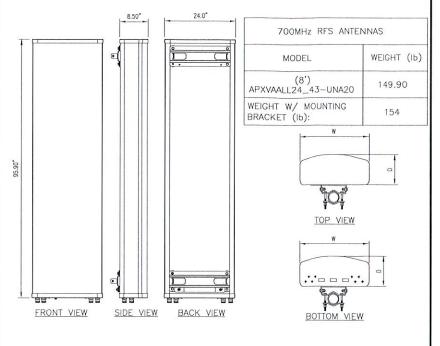
MOUNTING BRACKET

PROVIDED BY MANUFACTURER

SIDE VIEW

109 lbs

4x80W (2x(2x80W))



(N) APXVAALL24_43-UNA20 ANTENNA SPEC

(2) SCALE: NOT TO SCALE

NOT USED
SCALE: NOT TO SCALE

BLOOMFIELD, CT 06002 **CROWN** CASTLE 1500 CORPORATE DRIVE CANONSBURG, PA 15317

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T - Mobile - -

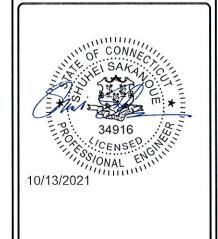
T-MOBILE SITE NUMBER: CTHA667A

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BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

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ERICSSON RADIO-4480 B71 B85 DIMENSIONS, WxDxH: 21.8"x15.7"x7.5" MAX OUTPUT POWER: 4×80W (2×(2×80W)) TOTAL WEIGHT: 93 lbs TEMPERATURE: -40' TO 55' C (N) ANTENNA PIPE MOUNT MOUNTING BRACKET PROVIDED BY MANUFACTURER (N) RADIO 4480 TOP VIEW PLAN VIEW (N) RADIO 4480 SIDE VIEW MOUNTING BRACKET PROVIDED BY MANUFACTURER FRONT VIEW SIDE VIEW (N) RADIO 4480 SPEC

PLAN VIEW

(5) SCALE: NOT TO SCALE

NOT USED (6) SCALE: NOT TO SCALE

(N) RADIO 4460 SPEC (4) SCALE: NOT TO SCALE

SIDE VIEW

ERICSSON RADIO-4460 B25 B66

DIMENSIONS, WxDxH:

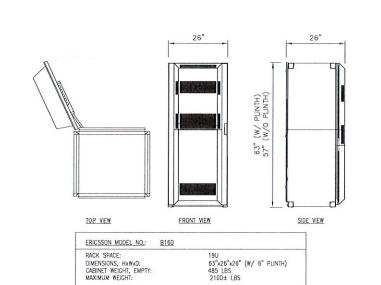
MAX OUTPUT POWER:

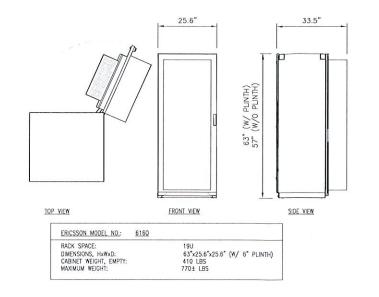
TOP VIEW

FRONT VIEW

TOTAL WEIGHT:

TEMPERATURE:



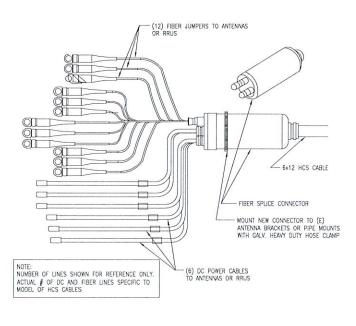


--- NEW EQUIPMENT CABINET PER PLAN (4) KWIK BOLT TZ-CS 1/2 — (3 1/4) ESR-1917 SPECIAL INSPECTION REQUIRED

(N) EQUIPMENT CABINET MOUNTING DETAIL (N) EQUIPMENT CABING

(N) B160 CABINET DETAIL (1) SCALE: NOT TO SCALE

(N) 6160 CABINET DETAIL (N) 6160 CABINET DE SCALE: NOT TO SCALE



TRENCH - UNEXCAVATED AREA (N) CONDUIT TRENCH DETAIL

EXCAVATION / MAGNETIC WARNING TAPE - (1) 2"\$ CONDUIT FOR POWER & (1) 4"\$ CONDUIT FOR FIBER WITH (3) 1-1/4" INNERDUCTS **T** - Mobile - -35 GRIFFIN ROAD BLOOMFIELD, CT 06002



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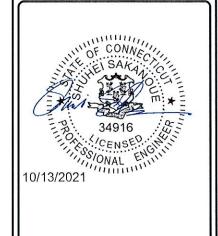
T-MOBILE SITE NUMBER: CTHA667A

> BU #: 876348 **ENFIELD**

BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

REV	DATE	DRWN	DESCRIPTION	DES./Q?
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1	10/12/2021	TJ	SA REFERENCE	SS



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(N) 6X24 HCS CABLE DETAIL (4) SCALE: NOT TO SCALE

SCALE: NOT TO SCALE

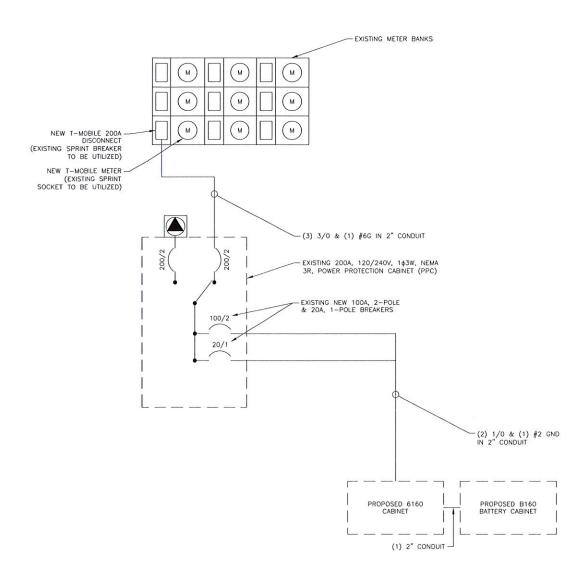
NOT USED (6) SCALE: NOT TO SCALE

				T-MOI	BILE PA	NEL SCH	EDULE				
MAIN: 200A MAIN BREAKE	R		VOTAGE/F	PHASE: 120/	240V, 1-PI	ASE, 3-WIF	RE		SHORT CIF	CUIT CURRE	NT RATING:
MOUNTING: INSIDE PPC E	NCLOSURE		ENCLOSU	RE: NEMA 3	R				SURGE PR	OTECTION D	EVICE: YES
					PHASE LO	ADS (VA)					
DESCRIPTION	LOAD (VA)	CorNC	C/B	CIR No.	Α	В	CIR No.	C/B	CorNC	LOAD (VA)	DESCRIPTION
RBS 6601	1000	С	100	1	1000		2	30	NC	0	GENERATOR
KB2 0001	1000	С	100	3		1000	4	3	NC	0	GENERATOR
6160	7000	С	100	5	7200		6	20	NC	200	TOWER LIGHTS
0100	7000	С	100	7	MARK THE	7200	8	20	NC	200	TOWER LIGHTS
6160 GFI	180	NC	20	9	360		10	20	NC	180	TELCO GFCI
				11		0	12	Alleria access			
				13	0		14				
				15		0	16				
BLANK				17	0		18				BLANK
				19	X 282	0	20				
				21	0		22				
-				23		0	24				
			BASE L	OAD (VA) =	8560	8200	*11	NDICATES I	NEW LOAD.	ALL OTHER L	OADS ARE EXISTING.
	2:	5% OF CON	ITINUOUS L	OAD (VA) =	2050	2050	NEW E	BREAKER TO	D BE SAME	TYPE AND HA	IVE SAME AIC RATING AS
			TOTALL	OAD (VA) =	11610	10250	EXISTIN	NG. CUSTO	MER HAS NO	OT PROVIDE	D LOADS FOR EQUIPMENT
		XXXII 30410 - 3141	TOTAL	LOAD (A) =	89	86	CABINE	TS THEREF	ORE THE CA	BINET LOAD	S SHOWN ARE ESTIMATED
								000000000000000000000000000000000000000		VALUES.	

AC PANEL SCHEDULE

(1) SCALE: NOT TO SCALE

- ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, OR XHHW-2 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE—LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 3. ALL GROUNDING AND BONDING PER THE NEC.





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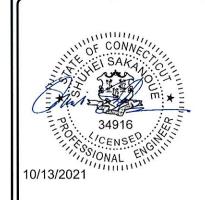
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> BU #: 876348 **ENFIELD**

BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

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ONE LINE DIAGRAM SCALE: NOT TO SCALE SECTOR GROUND BAR (3 TOTAL)

OUTPER TOWER GROUND BAR

BETA

ALPHA

NOTE:

ALL NEW GROUNDS TO BE #6 STRANDED COPPER WITH GREEN INSULATION UNLESS NOTED OTHERWISE.

GAMMA

ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE



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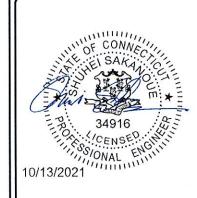
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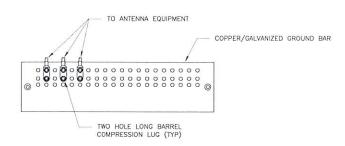


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G-1

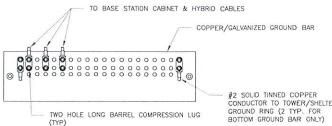
revision:



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.

ANTENNA SECTOR GROUND BAR DETAIL (1) 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.

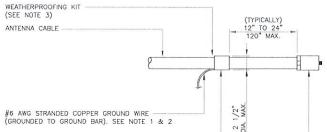
TOWER/SHELTER GROUND BAR DETAIL SCALE: NOT TO SCALE



NOTES:

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

CABLE GROUND KIT CONNECTION SCALE: NOT TO SCALE



1500 CORPORATE DRIVE

CANONSBURG, PA 15317

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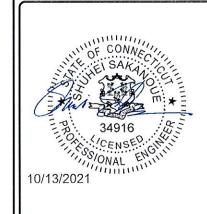
T-MOBILE SITE NUMBER: CTHA667A

> BU #: 876348 **ENFIELD**

BRIGHT MEADOW BLVD. ENFIELD, CT 06082

EXISTING 147'-6" MONOPOLE

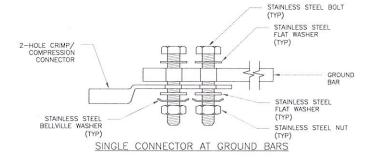
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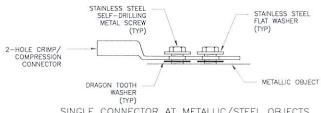
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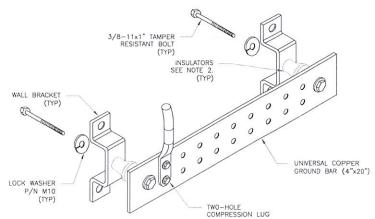
STAINLESS STEEL BOLT STAINLESS STEEL DRAGON TOOTH WASHER STEEL 2-HOLE CRIMP/ COMPRESSION CONNECTOR STAINLESS STEEL STAINLESS STEEL BELLVILLE WASHER STAINLESS STEEL NUT

SINGLE CONNECTOR AT STEEL OBJECTS



SINGLE CONNECTOR AT METALLIC/STEEL OBJECTS

HARDWARE DETAIL FOR EXTERIOR CONNECTIONS SCALE: NOT TO SCALE



NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE <u>NOT</u> 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.

GROUND BAR DETAIL (5) SCALE: NOT TO SCALE

(6) SCALE: NOT TO SCALE