



Crown Castle  
3 Corporate Park Drive, Suite 101  
Clifton Park, NY 12065

May 15, 2019

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

**RE: Notice of Exempt Modification for Sprint DO Macro: 806355**  
**Sprint Site ID: CT52XC084**  
**281 Wood House Road, Fairfield, CT 06432**  
**Latitude: 41° 11' 45.3" / Longitude: -73° 16' 52.9"**

Dear Ms. Bachman:

Sprint currently maintains six (6) antennas and twelve (12) RRH's at the 128-foot level of the existing 171-foot monopole tower at 281 Woodhouse Road in Fairfield, CT. The tower is owned by Crown Castle. The property is owned by Ranjan and Moitrayee Ghosh. Sprint now intends to add one (1) 10'x15' concrete pad and add one (1) ELTEK cabinet. Only ground work is proposed with this Notice.

This facility was approved by the Connecticut Siting Council in Docket No. 86 on February 17, 1988. This approval was given without conditions.

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.S.C.A. § 16-50j-73, a copy of this letter is being sent to First-Selectman Michael C. Tetreau, Town of Fairfield, Planning Director Mr. Jim Wendt Town of Fairfield as well as the property owner, and Crown Castle is the tower 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.

Melanie A. Bachman

May 15, 2019

Page 2

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, Sprint 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). Please send approval/rejection letter to Attn: Jeffrey Barbadora.

Sincerely,



Jeffrey Barbadora

Real Estate Specialist

12 Gill Street, Suite 5800, Woburn, MA 01801

781-729-0053

[Jeff.Barbadora@crowncastle.com](mailto:Jeff.Barbadora@crowncastle.com)

Attachments:

- Tab 1: Exhibit-1: Compound plan and elevation depicting the planned changes
- Tab 2: Exhibit-2: Structural Modification Report
- Tab 3: Exhibit-3: General Power Density Table Report (RF Emissions Analysis Report)

cc: First-Selectman Michael C. Tetreau  
Town of Fairfield  
725 Old Post Road  
Fairfield, CT 06824

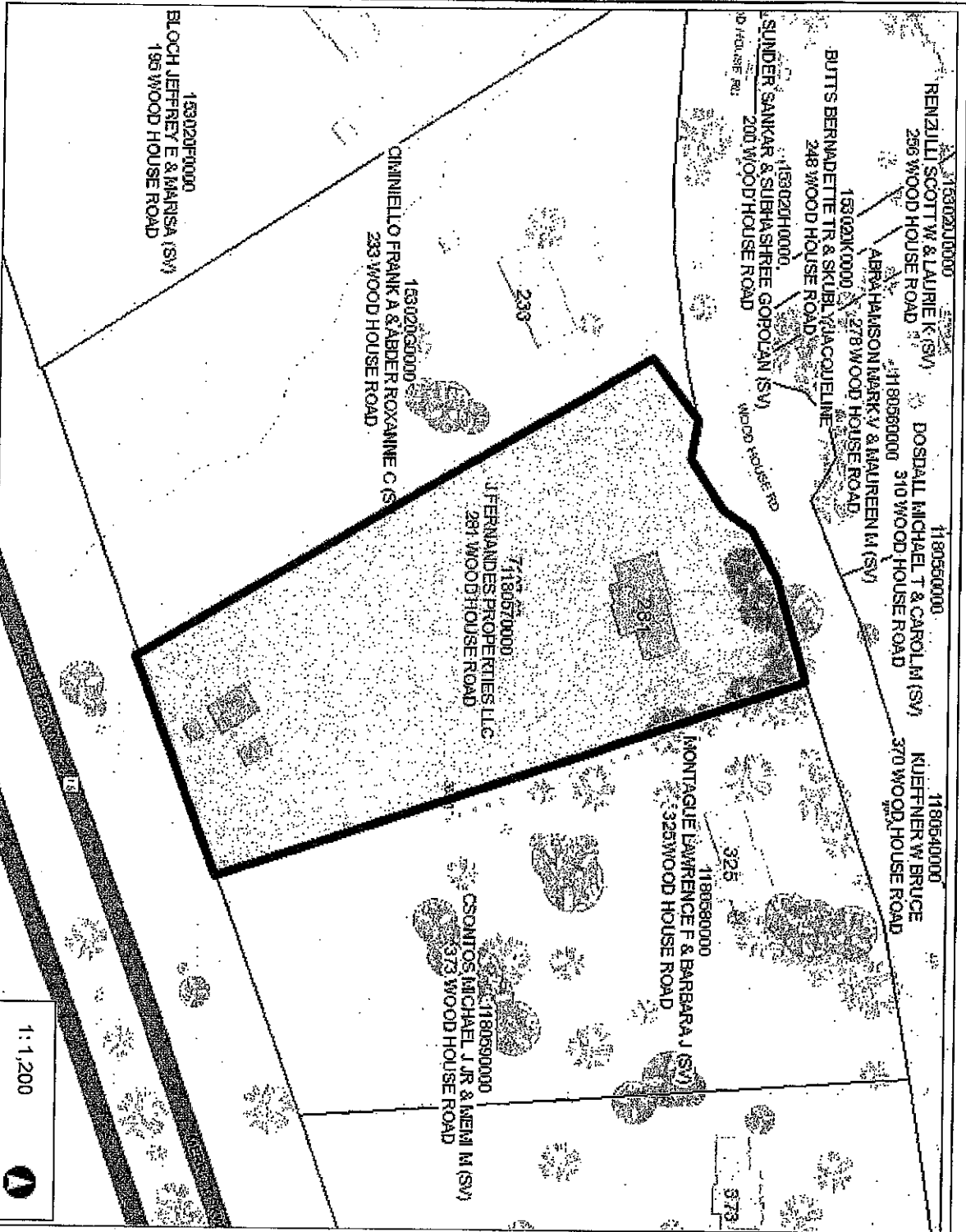
Ranjan & Moitrayee Ghosh  
11 Peterson Road  
Palmer, MA 01069

Town Plan & Zoning Department Mr. Jim Wendt  
Town of Fairfield  
725 Old Post Road  
Fairfield, CT 06824



# Town of Fairfield

## Title



1:1,200

- Legend**
- Parcels
  - Local Basin Boundary
  - Major
  - Regional
  - Subregional
  - Local
  - Local Basin Area

WGS 1984 Web Mercator Auxiliary Sphere  
Created By Greater Bridgeport Regional Council

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
**THIS MAP IS NOT TO BE USED FOR NAVIGATION**



# 281 WOOD HOUSE ROAD

**Location** 281 WOOD HOUSE ROAD

**Mblu** 118/ 57/ / /

**Acct#** 06700

**Owner** J FERNANDES PROPERTIES  
LLC

**Assessment** \$529,200

**Appraisal** \$756,000

**PID** 8854

**Building Count** 1

## Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$387,400	\$368,600	\$756,000

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$271,180	\$258,020	\$529,200

## Owner of Record

**Owner** J FERNANDES PROPERTIES LLC  
**Co-Owner**  
**Address** 281 WOOD HOUSE ROAD  
FAIRFIELD, CT 06824-1823

**Sale Price** \$0  
**Certificate**  
**Book & Page** 5620/ 132  
**Sale Date** 12/08/2017  
**Instrument** 02

## Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
J FERNANDES PROPERTIES LLC	\$0		5620/ 132	02	12/08/2017
J FERNANDES HOME IMPROVEMENT	\$450,000		5592/ 251	25	09/20/2017
GHOSH MOITRAYEE & RANJAN	\$172,000		706/ 293		06/13/1983

## Building Information

### Building 1 : Section 1

**Year Built:** 1968  
**Living Area:** 2,426  
**Replacement Cost:** \$444,461  
**Building Percent** 69  
**Good:**

Replacement Cost  
 Less Depreciation: \$306,700

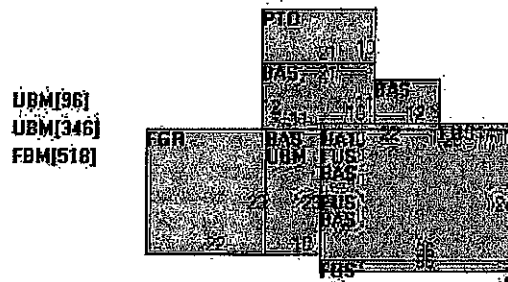
**Building Photo**



(<http://images.vgsi.com/photos2/FairfieldCTPhotos//\02\04\39\1>)

Building Attributes	
Field	Description
Style	Colonial
Stories:	2 Stories
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	Carpet
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	4 Bedrooms
Total Bthrms:	2
Total Half Baths:	1
Total Xtra Fixtrs:	
Total Rooms:	8 Rooms
Bath Style:	Average
Kitchen Style:	Average
FCPZ	

**Building Layout**



(<http://images.vgsi.com/photos2/FairfieldCTPhotos//Sketches/88>)

Building Sub-Areas (sq ft)			
Code	Description	Gross Area	Living Area
BAS	First Floor	1,454	1,454
FUS	Upper Story, Finished	972	972
FBM	Basement, Finished	518	0
FGR	Garage	506	0
PTO	Patio	210	0
UAT	Attic, Unfinished	864	0
UBM	Basement, Unfinished	672	0
		5,196	2,426

**Extra Features**

Extra Features				
Code	Description	Size	Value	Bldg #
FPL3	2.0 STORY FIREPLACE	1 UNITS	\$5,200	1

FPL1	1.0 STORY FIREPLACE	1 UNITS	\$3,500	1
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**Land**

**Land Use**

Use Code 1010  
 Description Single Fam MDL-01  
 Zone AAA  
 Neighborhood 0057  
 Alt Land Appr No  
 Category

**Land Line Valuation**

Size (Acres) 2.00  
 Depth 0  
 Assessed Value \$258,020  
 Appraised Value \$368,600

**Outbuildings**

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
	UTIL BLD			1	\$31,000	1
	UTIL BLD			1	\$31,000	1
	EQUIP SHED			1	\$10,000	1

**Valuation History**

Appraisal			
Valuation Year	Improvements	Land	Total
2017	\$387,400	\$368,600	\$756,000
2016	\$387,400	\$368,600	\$756,000
2015	\$387,400	\$368,600	\$756,000

Assessment			
Valuation Year	Improvements	Land	Total
2017	\$271,180	\$258,020	\$529,200
2016	\$271,180	\$258,020	\$529,200
2015	\$271,180	\$258,020	\$529,200

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# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401  
New Britain, Connecticut 06051  
Phone: 827-7682

BK

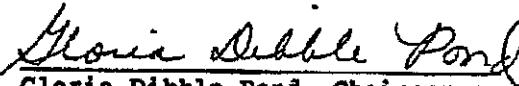
### CERTIFICATE

OF

### ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED

Pursuant to section 15-50k of the General Statutes of Connecticut, as amended, the Connecticut Siting Council hereby issues a Certificate of Environmental Compatibility and Public Need in Docket No. 86 to Metro Mobile CTS of Fairfield County Inc., for tower sites in Greenwich and Fairfield, Connecticut. This Certificate is issued in accordance with and subject to the terms and conditions set forth in the Decision and Order of the Council on February 17, 1988.

By order of the Council,

  
Gloria Dibble Pond, Chairperson

February 17, 1988

1009E



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401  
New Britain, Connecticut 06051-4225  
Phone: 827-7682

August 6, 1992

David S. Malko  
Manager, Engineering and  
Regulatory Services  
Bell Atlantic Metro Mobile  
20 Alexander Drive  
Wallingford, CT 06492

RE: Metro Mobile CTS of Fairfield County, Inc., notice of intent to allow Springwich Cellular Limited Partnership to install cellular telecommunications antennas and associated equipment on an existing facility site located off Wood House Road, Fairfield, Connecticut.

Dear Mr. Malko:

At a meeting held August 4, 1992, the Connecticut Siting Council acknowledged your notice of an exempt modification for an existing tower site on Wood House Road in Fairfield, Connecticut.

As proposed in your notice dated July 21, 1992, the modification is in compliance with the exception criteria specified in Regulations of State Agencies 16-50j-72 for changes to an existing facility site that would not increase the tower height, extend the boundary of the tower site, increase noise levels at the tower site boundary by 6 decibels, and add radio frequency transmitting capability which increases the total power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to Section 22a-162 of the Connecticut General Statutes.

The Council is pleased to acknowledge this first shared use of existing cellular towers by two cellular carriers which meets the Council's long-time goal and the public interest of sharing facilities to avoid the proliferation of additional tower structures.

Very truly yours,

*Mortimer A. Gelston*

Mortimer A. Gelston  
Chairman

MAG/TEF/cp

cc: Peter Van Wilgan

5766E-3



**Bell Atlantic**  
**Metro Mobile**

Bell Atlantic Metro Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492  
203 269-8838

July 21, 1992

Connecticut Siting Council  
136 Main Street  
Suite 401  
New Britain, Connecticut 06051

Attention: Joel M. Rinebold, Executive Director

Re: Metro Mobile CTS of Fairfield County, Inc. - Fairfield Cell

Dear Mr. Rinebold:

Metro Mobile CTS of Fairfield County, Inc. ("Metro Mobile" or the "Company") plans to allow Springwich Cellular Limited Partnership to install cellular antennas and related equipment at the existing tower facility owned by Metro Mobile in Fairfield, Connecticut. Please accept this letter as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b).

The existing facility is a 160' self supporting monopole tower located on a 70' by 70' parcel off of Wood House Road in Fairfield. Metro Mobile plans to add a 15' by 21' addition to the existing equipment building while Springwich Cellular Limited Partnership plans to install 9 antennas to the existing tower and cellular equipment to the building addition.

The addition of Springwich Cellular's antennas and equipment and Metro Mobile's building addition to the tower site does not constitute a modification as defined in C.G.S. Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, Metro Mobile's and Springwich Cellular's planned use of the facility falls squarely within those activities which explicitly do not constitute a modification to an existing tower, as set forth in R.C.S.A. Section 16-50j-72(b).

First, the height of the existing facility will be unaffected. Nine panel type transmit/receive antennas, Model DB-834-RF, will be face mounted on the lower platform at 144' AGL. The antennas will extend upward approximately 3 1/2' from the 144' level points. Thus, Springwich Cellular's antennas will extend no higher than the 148' level of the 173' tower including existing Metro Mobile appurtenances.

Second, the proposed addition will not expand the site (See attached site plan). Metro Mobile's equipment building addition to accommodate Springwich Cellular's equipment will extend 15' from the existing building and will be within the leased parcel. No strengthening of the tower is necessary in order for the tower to support the additional loading.


Third, the proposed addition will not increase the noise levels at the existing facility by six decibels or more. Except during construction, the only noise associate with Springwich Cellular's equipment will be from air conditioning, when in use.

Fourth, Springwich Cellular's additional antennas will not increase the total radio frequency electromagnetic radiation power density measured at the tower site boundary to a level at or above the State Department of Environmental Protection standard. A worst case calculation at the base of the tower indicates that Springwich Cellular's antennas combined with Metro Mobile's operation would result in a power density level of 0.15964 mW/cm<sup>2</sup>. This power density level is 18.3% of the standard for cellular frequencies of 2.92mW/cm<sup>2</sup>.

For the foregoing reasons, Metro Mobile respectfully submits that the planned addition of Springwich Cellular's antennas and equipment, and Metro Mobile's building addition to the existing facility, constitutes an exempt modification under R.C.S.A. Section 16-50j-72(b).

By copy of this letter, the chief elected official of the Town of Fairfield is receiving written notice of the intent to construct an exempt modification to the Metro Mobile facility in Fairfield, as required by R.C.S.A. Section 16-50j-73.

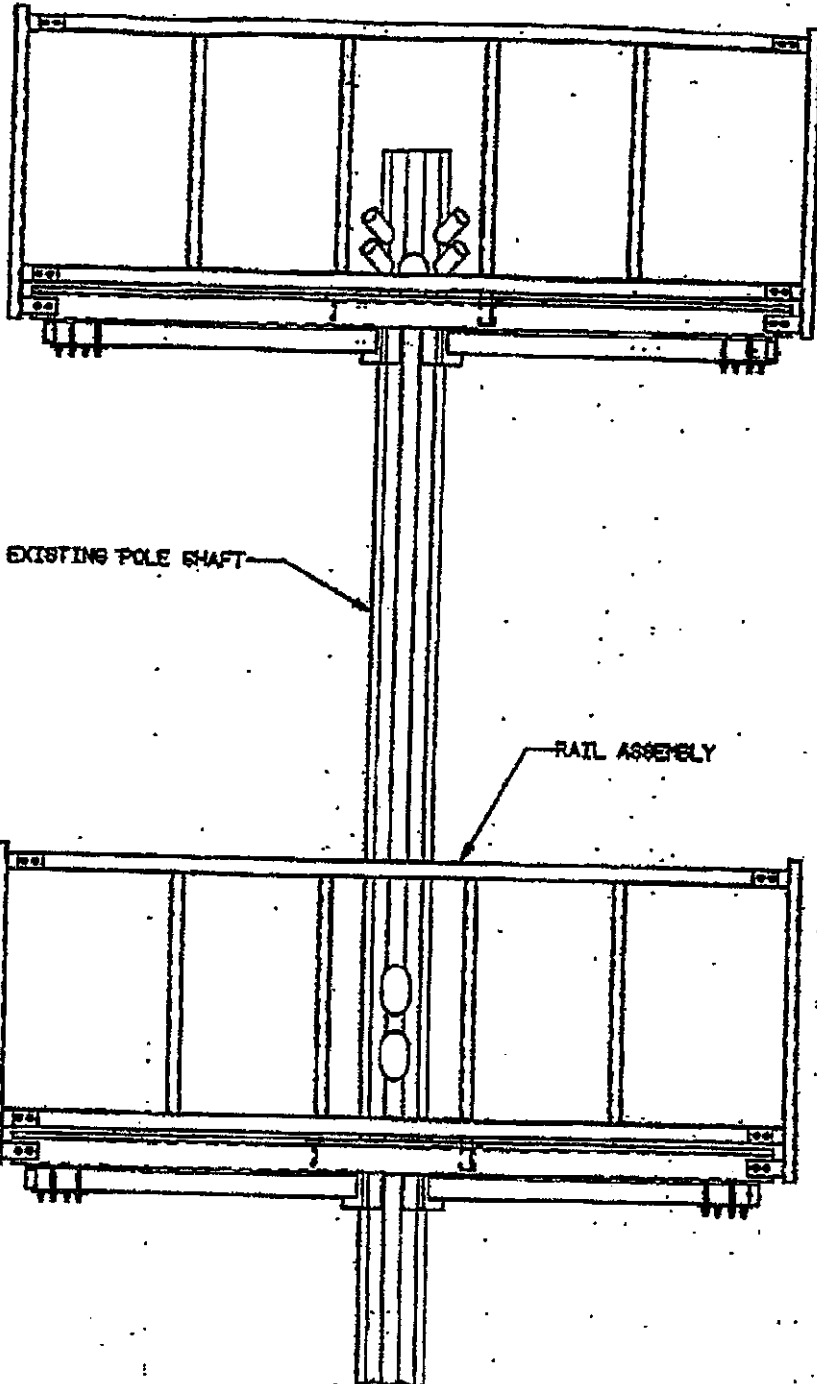
Respectfully,



David S. Malko, P.E.  
Manager, Engineering and Regulatory Services

Attachments

cc: Jacquelyn C. Durrell, 1st Selectman



EXISTING POLE SHAFT

RAIL ASSEMBLY

METROMSILE - CT  
 PROPOSED PLATFORM MODIFICATION  
 FOR THE EXISTING FAIRFIELD SITE

DRAWING 10750-28 SHEET NO. 160 FT	DATE 04-01-92	DRAWN BY MALINONE		<b>VANNONT</b> <small>VALLEY ENGINEERING, INC.          VALLEY, VERMONT, U.S.A.</small>
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**© Bell Atlantic**  
**Metro Mobile**

Bell Atlantic Metro Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492  
203 269-8858

July 31, 1992

Mr. Joel M. Rinebold, Executive Director  
Connecticut Siting Council  
136 Main Street  
New Britain, Connecticut 06051

Re: Fairfield Exempt Modification

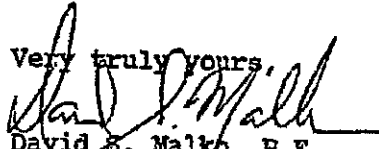
Dear Joel:

This is to provide you additional information in response to the recent memorandum from the Town of Fairfield. As indicated in the original filing, Metro Mobile plans to expand its existing building to accommodate a Springwichee cell site. This building expansion will be accomplished by adding two new sections, identical in all respect, to the two sections currently in place. These sections will house the Springwichee Cellular equipment which, like ours, requires heating, air-conditioning and ventilation. Enclosed are a copy of the manufacturer's engineered drawings and our electrical, mechanical, structural and grounding plans for your information and/or review. Also enclosed are the Valmont drawings for the platform reworking necessary to accommodate Springwichee's antennas.

Our procedure would be to provide these plans and drawings to the town's building department in order to secure the necessary building permits after receipt of the Council's acknowledgement of our exempt modification filing.

I trust this information will answer any outstanding questions raised by either the town or your staff such that a favorable ruling can be issued at your upcoming August 4, 1992 meeting. As always, Metro Mobile remains committed to our common goal of shared tower use as a means of minimizing the proliferation of towers wherever possible.

Very truly yours,

  
David S. Malko, P.E.  
Manager, Engineering &  
Regulatory Services

Enclosures

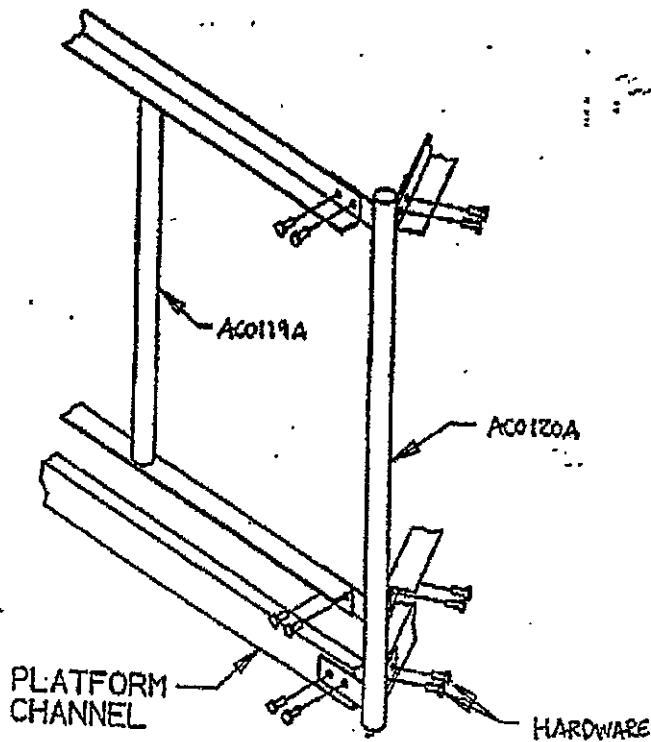
cc: Joseph E. Devonshuk, Director of TPZ

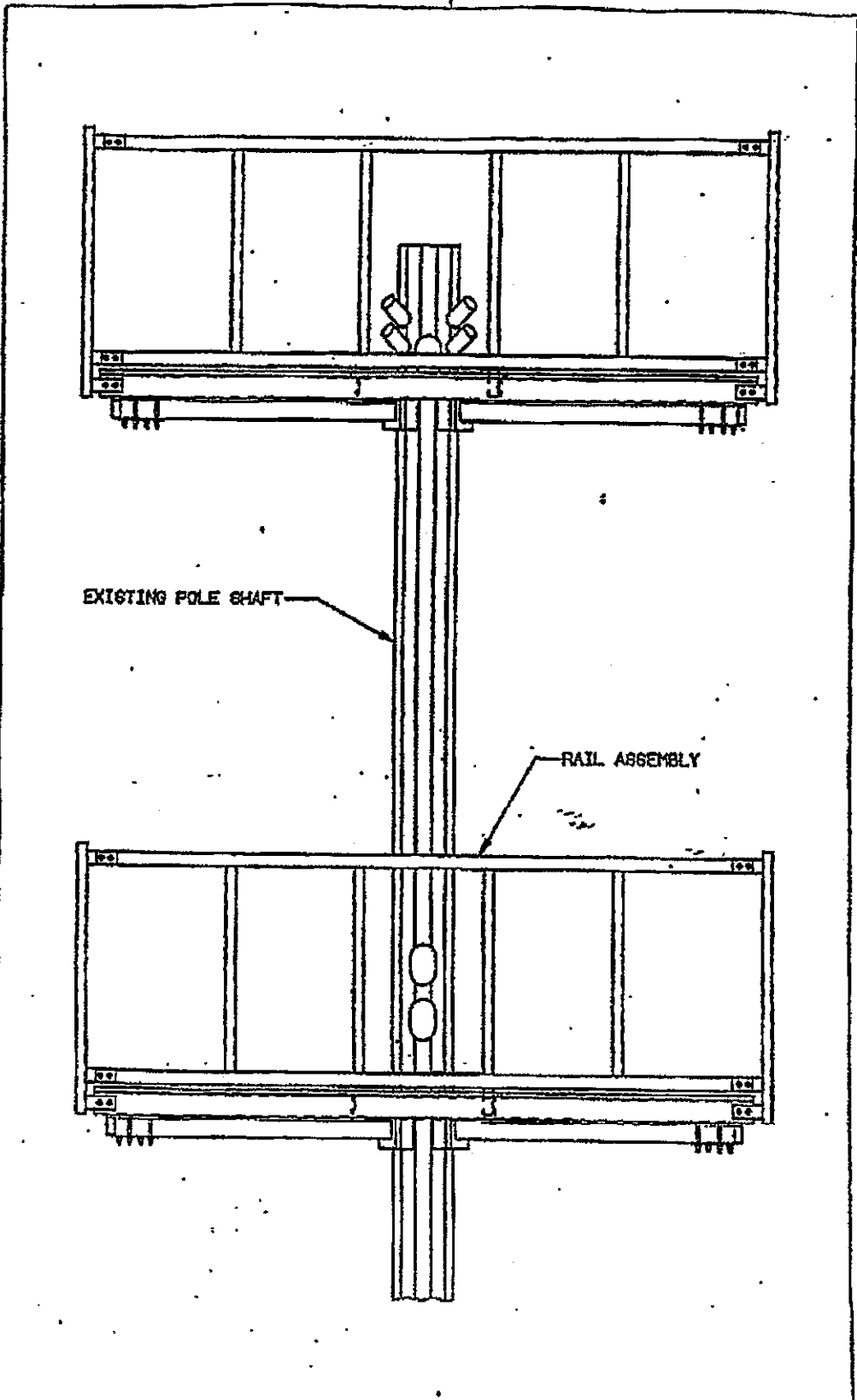
JUNE 24, 1992

ADDITIONAL PARTS FOR ADDING RAILS TO TWO (2) PLATFORMS:

PART NO	DESCRIPTION	WEIGHT	QTY
AC0119A	PLATFORM RAIL ASSEMBLY angle - 3 x 3 x 1/4 x 12'-10" lg pipe - 2" schedule 40 x 3'-8.25" lg	188# 2ea 4ea	6
AC0120A	CORNER POST ASSEMBLY pipe - 2" schedule 40 x 4'-11" lg tabs - 1/2 x 3 x 0'-7 1/4"	28# 1ea 6ea	6
161147	5/8" dia x 1 1/2" lg bolt - A325		76
333014	5/8" dia lock nut - A563		76

Total price for both rail kits and hardware: \$1,750.00





METROMOBILE - CT  
 PROPOSED PLATFORM MODIFICATION  
 FOR THE EXISTING FAIRFIELD RTTP


SCALE	DATE	BY	CHKD	POLE
10730-88	MAL	NONE		
140 FT	04.01.88			



**VALMONT**  
 VALMONT INDUSTRIES, INC.  
 VALLEY SPRING, MO.

TOWN OF FAIRFIELD

INTER-OFFICE CORRESPONDENCE

TO: Sam D. Koutas, Executive Assistant to First Selectman  
FROM: Joseph E. Devonshuk, Director of TPZ.   
SUBJECT: Bell Atlantic Metro Mobile  
DATE: July 29, 1992

This memo is in response to the letters from the Bell Atlantic Metro Mobile concerning expansion of their existing tower facility.

Please be advised that based on the information submitted, the Town Plan and Zoning department feels that the addition of Springwich Cellular's antennas and equipment and Metro Mobiles building addition to the tower site does constitute a modification and does significantly change and alter the physical characteristics of this facility.

This department, therefore, requests additional information including engineered building plans for the 15' by 21' addition to the existing equipment building and for the installation of the nine (9) antennas. A more specific explanation of the use of this facility is, also, required including an explanation for the need of air-conditioning equipment. Section 5.1.4. of the Fairfield Zoning Regulations states that public utility substations are subject to the securing of a special exception from the Town Plan and Zoning Commission.

This requested information is essential to determine if a special exception is required. If you have any questions or need any further comment please do not hesitate to contact me.

cc: David S. Malko, P.E., Bell Atlantic Metro Mobile  
Joel M. Rinebond, Executive Director, CT. Siting Council



**Town of Fairfield**  
FAIRFIELD, CONNECTICUT 06430

tel # 256-3000

Jacquelyn C. Durrell  
First Selectman

July 29, 1992

Mr. David S. Malko, P.E.  
Manager, Engineering and Regulatory Services  
Bell Atlantic Metro Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492

Dear Mr. Malkos:

Please be advised that based on the information submitted, the Fairfield Town Plan and Zoning Department feels that the addition of Springwich Cellular's antennas and equipment and Metro Mobile's building addition to the tower site does constitute a modification and does significantly change and alter the physical characteristics of this facility.

Town Plan and Zoning, therefore, requests additional information including engineered building plans for the 15' by 21' addition to the existing equipment building and for the installation of the nine (9) antennas. A more specific explanation of the use of this facility is, also, required including an explanation for the need of air-conditioning equipment. Section 5.1.4. of the Fairfield Zoning Regulations states that public utility substations are subject to the securing of a special exception from the Town Plan and Zoning Commission.

This requested information is essential to determine if a special exception is required. If you have any questions or need any further comment please do not hesitate to contact Mr. Joe Devonshuk, Planning Director, or me.

Sincerely,

Sam D. Koutas  
Executive Assistant



Sublease  
#/30/92 (in 1st option)

Lease Information Management System (LIMS) v. 1.08 07/94  
Lease Abstract Module (Version 1.5)

**Property Information**

File Number: [ ] Name: SPRINGFIELD COLLEGE LTD *SPRINGFIELD COLLEGE*  
 Property Type: [ ] Address 1: 5501 LONG WINDY *CR 30*  
 Parcel ID: 0 Address 2: 97<sup>th</sup> FLOOR  
 Alternate Name: [ ] City/State: NEW HAVEN CT 06511

**Owner Information** Owner ID: 0 **Lease Information**

Name: METRO MOBILE CTS OFFICE *fieldcity.*  
 S. Address: 180 WASHINGTON VALLEY RD.  
 City/State: REDMANSIA IN 47421

**Lease Information**

Quantity: 200  Mobile Lease?  Abstract Date: [ ]  
 Description: 1,000 (m)  Purchase?  Abstract By: [ ]  
 Annual Base Amount: \$0.00  Option?  Base Approved Date: [ ]  
 Reverse: 0 Base Approved By: [ ]  
 Lease Terms: option to renew same as overlease, if sublease still in effect, w/ 90 days notice.

**Lease Critical Dates**

Date Type	Schedule Date	Notify Date	Action Date	Action Amount	Rate
[ ]	[ ]	[ ]	[ ]	\$0.00	[ ]
[ ]	[ ]	[ ]	[ ]	\$0.00	[ ]
[ ]	[ ]	[ ]	[ ]	\$0.00	[ ]

**Lease Payments**

Increase Type	Next Date	Action Date	Period (months)	Increase Amount	Rate
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

Standard Lease Notes:  Standard Lease?  Gas Purchase?  Insurance Notes:  Additional Insurance Required?  Cartridge Required?

\* Sublease

Sublease Language:  
 sublease to expire 90(1) day prior to term of overlease.

File Name:  
 NO CONSENTS REQ'D FROM OVERLEASED to this sublease.

\* sublessee to furnish/install a 290' tower in addition to existing shelter, all antennas, cabling and remote cables to sublessee's equipment bldg. sublessee to provide cable rack support

Parcel: 4, 773 #  
 run (9) transmit cellular receive antennas mounted on existing 160 FT tower

© Bell Atlantic  
Metro Mobile

Bell Atlantic Metro Mobile  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492  
203 269-8858

July 21, 1992

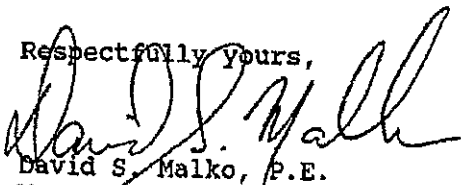
The Honorable Jacquelyn C. Durrell  
Office of the First Selectman  
725 Old Post Road  
Fairfield, Connecticut 06430

Dear Ms. Durrell:

Metro Mobile CTS of Fairfield County, Inc. and Springwichee Cellular Limited Partnership plan to install cellular antennas and related equipment at an existing tower site owned by Metro Mobile CTS of Fairfield County, Inc. in Fairfield, Connecticut. As required by Section 16-50j-73 of the Regulations of Connecticut State Agencies (R.C.S.A.), please accept this letter and the attached letter to the Connecticut Siting Council dated May 27, 1992, as notice of intent of our exempt modification to an existing tower pursuant to R.C.S.A. Section 16-50j-72(b).

The attached letter fully sets forth Metro Mobile's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please contact the undersigned at 294-7403, or Mr. Joel M. Rinebold, Executive Director, Connecticut Siting Council at 827-7682.

Respectfully yours,



David S. Malko, P.E.  
Manager, Engineering and Regulatory Services

Attachments

ORIGIN ID: BEDA (781) 970-0053  
JEFF BARBADORA  
CROWN CASTLE  
12 GILL STREET  
SUITE 5800  
MORBURN MA 01801  
UNITED STATES US

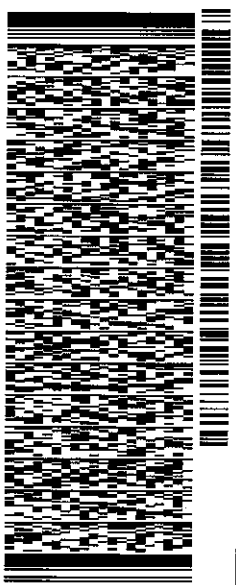
SHIP DATE: 15MAY19  
ACTWGT: 0.50 LB  
CAD: 10492419/INET/1:100

BILL SENDER

TO FIRST SELECTMAN-MICHAEL TETREAU  
TOWN OF FAIRFIELD  
725 OLD POST ROAD

FAIRFIELD CT 06824

(203) 256-3030 REF: 1766 6690  
INV. DEPT.  
PO.

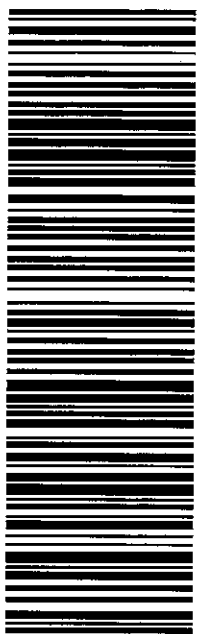


J191013010701us

TRK# 7752 2260 1982 THU - 16 MAY 10:30A  
0201 PRIORITY OVERNIGHT

EB OXCA

06824  
CT-US BDL



555J1D66CZ3AD

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID: BEDA (781) 970-0033  
JEFF BARBADORA  
CROWN CASTLE  
12 GILL STREET  
SUITE 5800  
WOBBURN MA 01804  
UNITED STATES US

SHIP DATE: 15MAY19  
ACTWGWT: 0.50 LB  
CAD: 104924191INET4100

BILL SENDER

TO JIM WENDT-TOWN PLANNER  
TOWN OF FAIRFIELD  
725 OLD POST ROAD

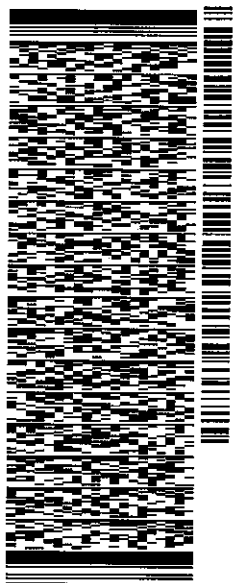
FAIRFIELD CT 06824

REF: 17666890

(203) 256-3050  
INV/  
PO:

DEPT:

565J1D66C23AD



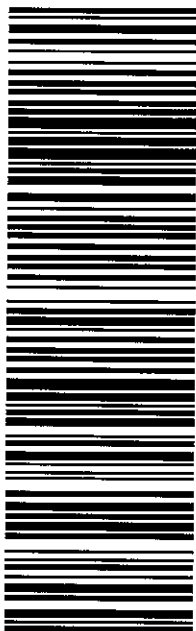
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ORIGIN ID: BEDA (781) 970-0053  
JEFF BARBADORA  
CROWN CASTLE  
12 GILL STREET  
SUITE 5800  
WOBURN, MA 01801  
UNITED STATES US

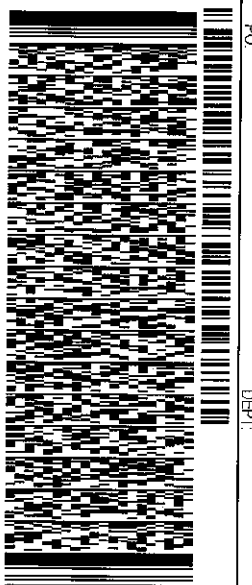
SHIP DATE: 15MAY19  
ACTWGT: 0.50 LB  
CAD: 10492419/INET14100

BILL SENDER

TO **RANJAN & MOITRAYEE GHOSH**  
**RANJAN & MOITRAYEE GHOSH**  
**11 PETERSON ROAD**

**PALMER MA 01069**  
(781) 970-0053 REF: 17660300  
INV. DEPT.  
PO.

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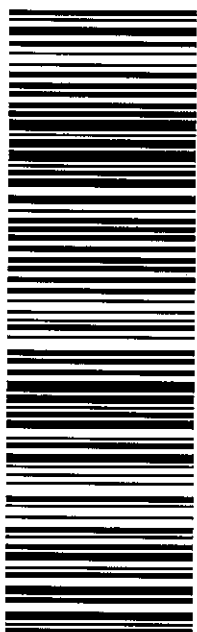
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# Sprint



# CROWN CASTLE

**SITE INFORMATION**

**TOWER OWNER:**  
 CROWN ATLANTIC COMPANY LLC  
 2000 CORPORATE DRIVE  
 CANONSBURG, PA 15317  
 (704) 405-6555

**LATITUDE (NAD83):**  
 41° 11' 45.3" N  
 41.195917

**LONGITUDE (NAD83):**  
 -73° 16' 52.9" W  
 -73.281361

**COUNTY:**  
 FAIRFIELD

**ZONING JURISDICTION:**  
 CITY OF FAIRFIELD

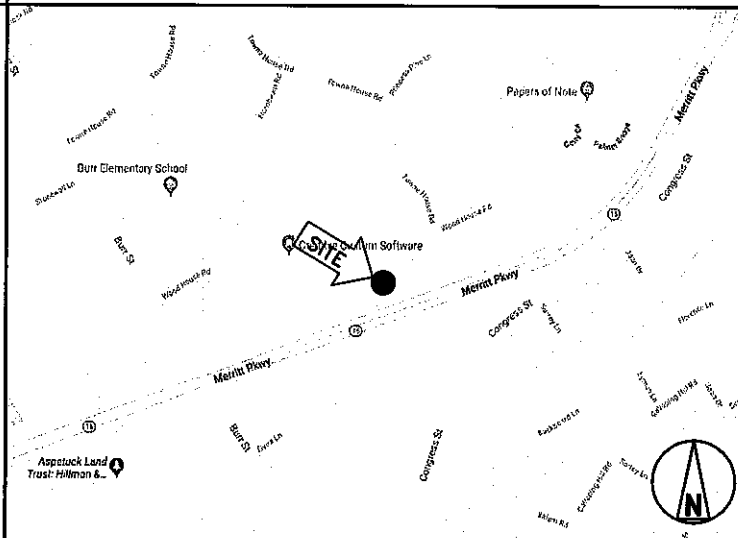
**ZONING DISTRICT:**  
 CDD-1

**POWER COMPANY:**  
 UNITED ILLUMINATING COMPANY  
 (800) 722-5584

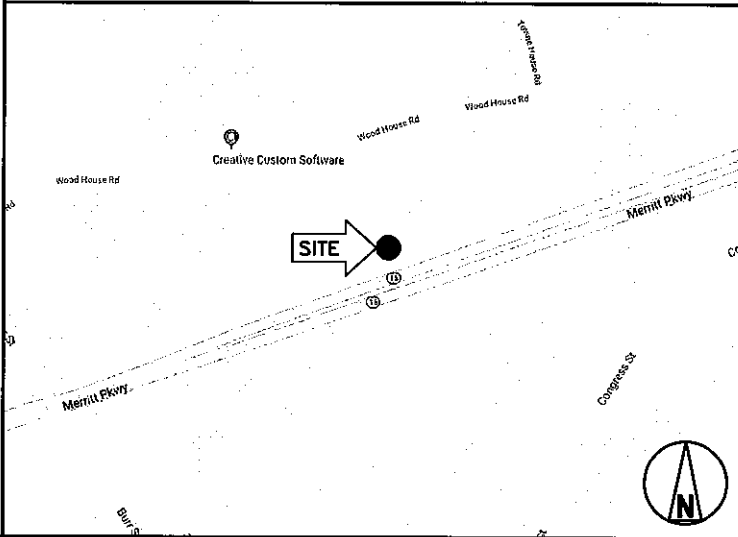
**SPRINT CONSTRUCTION:**  
 TBD

**CROWN PM:**  
 SCOTT WIATROSKI  
 (201) 236-9228

**AREA MAP**



**LOCATION MAP**



**SPRINT PROPOSES TO TELECOMMUNICATIONS**

- REMOVE (1) CLEAF
- INSTALL (1) NEW I
- REMOVE EXISTING NEW COMBO PPC.
- REMOVE (3) ANTEN
- INSTALL (6) PANEL
- INSTALL (12) RRRH
- INSTALL (4) HYBRID
- REMOVE (6) COAX
- REMOVE (3) STAN
- INSTALL (1) ANTEN
- RELOCATE (1) MW
- INSTALL (1) 10'x1'

THESE PLANS HAVE BE UNMANNED TELECOMM ACCORDANCE WITH THE INCORPORATED THIS SK FOR CONSTRUCTION UN STABILITY ANALYSIS PR STRUCTURAL ANALYSIS

ALL WORK SHALL ACCORDANCE WITH CODES AS ADOPTED NOTHING IN THESE WORK NOT CONF

1. 2018 CONN
2. INTERNATIONAL
3. TIA-222-G
4. NFPA 780 -
5. 2014 NATION
6. ANY OTHER MOST RECENT
7. LOCAL BUILD
8. CITY/COUNTY

THESE OUTLINE SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT STANDARD CONSTRUCTION SPECIFICATIONS, INCLUDING AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.

## SECTION 01 100 – SCOPE OF WORK

### **PART 1 – GENERAL**

- 1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATIONS IN CONJUNCTION WITH THE SPRINT CONSTRUCTION STANDARDS FOR WIRELESS SITES, CONTRACT DOCUMENTS AND THE CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE PERFORMED BY THE CONTRACTOR.
- 1.2 RELATED DOCUMENTS:
  - A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SECTIONS IN THIS SPECIFICATION.
  - B. SPRINT "STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES" ARE INCLUDED IN AND MADE A PART OF THESE SPECIFICATIONS HERewith.
- 1.3 PRECEDENCE: SHOULD CONFLICTS OCCUR BETWEEN THE STANDARD CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES INCLUDING THE STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND THE CONSTRUCTION DRAWINGS, INFORMATION ON THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE. NOTIFY SPRINT CONSTRUCTION MANAGER IF THIS OCCURS.
- 1.4 NATIONALLY RECOGNIZED CODES AND STANDARDS:
  - A. THE WORK SHALL COMPLY WITH APPLICABLE NATIONAL AND LOCAL CODES AND STANDARDS, LATEST EDITION, AND PORTIONS THEREOF, INCLUDED BUT NOT LIMITED TO THE FOLLOWING:
    1. GR-63-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION
    5. GR-78-CORE GENERIC REQUIREMENTS FOR THE PHYSICAL DESIGN AND MANUFACTURE OF TELECOMMUNICATIONS EQUIPMENT.
    3. GR-1089 CORE, ELECTROMAGNETIC COMPATIBILITY AND ELECTRICAL SAFETY -GENERIC CRITERIA FOR NETWORK TELECOMMUNICATIONS EQUIPMENT.
    4. NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NFPA) INCLUDING NFPA 70 (NATIONAL ELECTRICAL CODE – "NEC") AND NFPA 101 (LIFE SAFETY CODE).
    5. AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTM)
    6. INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS (IEEE)
    7. AMERICAN CONCRETE INSTITUTE (ACI)
    8. AMERICAN WIRE PRODUCERS ASSOCIATION (AWPA)
    9. CONCRETE REINFORCING STEEL INSTITUTE (CRSI)
    10. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
    11. PORTLAND CEMENT ASSOCIATION (PCA)
    12. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)
    13. BRICK INDUSTRY ASSOCIATION (BIA)
    14. AMERICAN WELDING SOCIETY (AWS)
    15. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA)
    16. SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)
    17. DOOR AND HARDWARE INSTITUTE (DHI)
    18. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
    19. APPLICABLE BUILDING CODES INCLUDING UNIFORM BUILDING CODE, SOUTHERN BUILDING CODE, BOCA, AND THE INTERNATIONAL BUILDING CODE.

#### 1.5 DEFINITIONS:

- A. WORK: THE SUM OF TASKS AND RESPONSIBILITIES IDENTIFIED IN THE CONTRACT DOCUMENTS.
- B. COMPANY: SPRINT CORPORATION
- C. ENGINEER: SYNONYMOUS WITH ARCHITECT & ENGINEER AND "A&E". THE DESIGN PROFESSIONAL HAVING PROFESSIONAL RESPONSIBILITY FOR DESIGN OF THE PROJECT.
- D. CONTRACTOR: CONSTRUCTION CONTRACTOR; CONSTRUCTION VENDOR; INDIVIDUAL OR ENTITY WHO AFTER EXECUTION OF A CONTRACT IS BOUND TO ACCOMPLISH THE WORK.
- E. THIRD PARTY VENDOR OR AGENCY: A VENDOR OR AGENCY ENGAGED SEPARATELY BY THE COMPANY, A&E, OR CONTRACTOR TO PROVIDE MATERIALS OR TO ACCOMPLISH SPECIFIC TASKS RELATED TO BUT NOT INCLUDED IN THE WORK.
- F. OFCI: OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT.
- G. CONSTRUCTION MANAGER – ALL PROJECTS RELATED COMMUNICATION TO FLOW THROUGH SPRINT REPRESENTATIVE IN CHARGE OF PROJECT...

1.6 SITE FAMILIARITY: CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND (PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BRING TO THE ATTENTION OF THE SPRINT CONSTRUCTION MANAGER PRIOR TO WORK. NO COMPENSATION WILL BE AWARDED BASED ON LACK OF KNOWLEDGE OR FIELD CONDITIONS.

1.7 POINT OF CONTACT: COMMUNICATION BETWEEN SPRINT AND SPRINT THROUGH THE SINGLE SPRINT CONSTRUCTION MANAGER FOR THE PROJECT FOR SPRINT.

1.8 ON-SITE SUPERVISION: THE CONTRACTOR SHALL SUPERVISE AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES, AND PROCEDURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDING ENGINEER ATTENDANCE AT THE SITE AT ALL TIMES DURING PERFORMANCE OF THE WORK.

1.9 DRAWINGS, SPECIFICATIONS AND DETAILS REQUIRED AT JOB SITE: CONTRACTOR SHALL MAINTAIN A FULL SET OF THE CONTRACT DOCUMENTS AND STANDARD CONSTRUCTION DETAILS FOR WIRELESS SITES AND CONSTRUCTION SPECIFICATIONS FOR WIRELESS SITES AT THE JOB SITE THROUGHOUT CONSTRUCTION COMPLETION.

A. THE JOBSITE DRAWINGS, SPECIFICATIONS AND DETAILS SHALL BE MARKED DAILY IN RED PENCIL WITH ANY CHANGES IN CONSTRUCTION DOCUMENTS DEPICTED IN THE DOCUMENTS. AT CONSTRUCTION COMPLETION, THE MARKUP SET SHALL BE DELIVERED TO THE COMPANY REPRESENTATIVE TO BE FORWARDED TO THE COMPANY'S REPRESENTATIVE FOR PRODUCTION OF "AS-BUILT" DRAWINGS.

B. DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, A MARKUP SHALL BE INCLUDED AS PART OF THE WORK. CONTRACTOR SHALL NOTIFY THE SPRINT CONSTRUCTION MANAGER OF ANY VARIATIONS PRIOR TO WORK.

C. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE REQUIRED CLEARANCE. IF ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE SPRINT CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.

1.10 USE OF JOB SITE: THE CONTRACTOR SHALL CONFINE ALL RELATED OPERATIONS INCLUDING STAGING AND STORAGE OF EQUIPMENT, PARKING, TEMPORARY FACILITIES, AND WASTE STORAGE TO THE PARCEL UNLESS OTHERWISE PERMITTED BY THE CONTRACT DOCUMENTS.

1.11 UTILITIES SERVICES: WHERE NECESSARY TO CUT EXISTING CONDUITS, CABLES, ETC., OF UTILITY SERVICES, OR OF FIRE ALARM AND COMMUNICATIONS SYSTEMS, THEY SHALL BE CUT AND CAPPED WHERE SHOWN. ALL SUCH ACTIONS SHALL BE COORDINATED WITH THE COMPANY INVOLVED.

1.12 PERMITS / FEES: WHEN REQUIRED THAT A PERMIT OR CONNECTION FROM A PUBLIC UTILITY PROVIDER FOR NEW SERVICE TO THE JOB SITE, THE PAYMENT OF SUCH FEE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

1.13 CONTRACTOR SHALL TAKE ALL MEASURES AND PROVIDE ALL NECESSARY PROTECTION FOR PROTECTING EXISTING EQUIPMENT AND PROPERTY.

1.14 METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTION: CONTRACTOR SHALL PERFORM WORK AS DESCRIBED IN THE FOLLOWING INSTALLATION AND MAINTENANCE MOPS.

NOTE: IN SHORT-FORM SPECIFICATIONS ON THE DRAWINGS, THE CONTRACTOR SHALL APPLY APPLICABLE MOPS INCLUDING EN-2012-001, EN-2013-001, AND EN-2014-001.

1.15 USE OF ELECTRONIC PROJECT MANAGEMENT SYSTEMS:

### **PART 2 – PRODUCTS (NOT USED)**

### **PART 3 – EXECUTION**

3.1 TEMPORARY UTILITIES AND FACILITIES: THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY UTILITIES AND FACILITIES NECESSARY EXCEPT AS SHOWN IN THE CONSTRUCTION DOCUMENTS. TEMPORARY UTILITIES SHALL INCLUDE POTABLE WATER, HEAT, HVAC, ELECTRICITY, SANITARY FACILITIES, AND TELEPHONE/COMMUNICATION SERVICES. PROTECTIVE FACILITIES AND FACILITIES IN ACCORDANCE WITH OSHA AND THE AUTHORITY CONTRACTOR MAY UTILIZE THE COMPANY ELECTRICAL SERVICES FOR THE WORK WHEN IT BECOMES AVAILABLE. USE OF THE LESSER UTILITIES OR FACILITIES IS EXPRESSLY FORBIDDEN EXCEPT AS SHOWN IN THE CONTRACT DOCUMENTS.

3.2 ACCESS TO WORK: THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL WORK AREAS TO AUTHORIZED COMPANY PERSONNEL AND AUTHORIZED REPRESENTATIVES OF THE ARCHITECT/ENGINEER DURING ALL PHASES OF THE WORK.

3.3 TESTING: REQUIREMENTS FOR TESTING BY THIS CONTRACTOR SHALL BE SHOWN HEREWITH, ON THE CONSTRUCTION DRAWINGS, AND IN THE CONTRACT DOCUMENTS. THESE SPECIFICATIONS. SHOULD COMPANY CHOOSE TO ENGAGE AN INDEPENDENT TESTING AGENCY, THE CONTRACTOR SHALL COORDINATE WITH THE AGENCY A WORK AREA FOR COMPANY'S TEST AGENCY.

3.4 DIMENSIONS: VERIFY DIMENSIONS INDICATED ON DRAWINGS BEFORE FABRICATION OR ORDERING OF MATERIALS. DO NOT

CONTINUE FROM SP-1

1. PERFORM ANY REQUIRED SITE ENVIRONMENTAL MITIGATION.
2. PREPARE GROUND SITES; PROVIDE DE-GRUBBING; AND ROUGH AND FINAL GRADING, AND COMPOUND SURFACE TREATMENTS.
3. MANAGE AND CONDUCT ALL ACTIVITIES FOR INSTALLATION OF UTILITIES INCLUDING ELECTRICAL AND TELCO BACKHAUL.
4. INSTALL UNDERGROUND FACILITIES INCLUDING UNDERGROUND POWER AND COMMUNICATIONS CONDUITS, AND UNDERGROUND GROUNDING SYSTEM.
5. INSTALL ABOVE GROUND GROUNDING SYSTEMS.
6. PROVIDE NEW HVAC INSTALLATIONS AND MODIFICATIONS.
7. INSTALL "H-FRAMES", CABINETS AND SHELTERS AS INDICATED.
8. INSTALL ROADS, ACCESS WAYS, CURBS AND DRAINS AS INDICATED.
9. ACCOMPLISH REQUIRED MODIFICATION OF EXISTING FACILITIES.
10. PROVIDE ANTENNA SUPPORT STRUCTURE FOUNDATIONS.
11. PROVIDE SLABS AND EQUIPMENT PLATFORMS.
12. INSTALL COMPOUND FENCING, SIGHT SHIELDING, LANDSCAPING AND ACCESS BARRIERS.
13. PERFORM INSPECTION AND MATERIAL TESTING AS REQUIRED HEREINAFTER.
14. CONDUCT SITE RESISTANCE TO EARTH TESTING AS REQUIRED HEREINAFTER
15. INSTALL FIXED GENERATOR SETS AND OTHER STANDBY POWER SOLUTIONS.
16. INSTALL TOWERS, ANTENNA SUPPORT STRUCTURES AND PLATFORMS ON EXISTING TOWERS AS REQUIRED.
17. INSTALL CELL SITE RADIOS, MICROWAVE, GPS, COAXIAL MAINLINE, ANTENNAS, CROSS BAND COUPLERS, TOWER TOP AMPLIFIERS, LOW NOISE AMPLIFIERS AND RELATED EQUIPMENT.
18. PERFORM, DOCUMENT, AND CLOSE OUT ANY CONSTRUCTION CONTROL DOCUMENTS THAT MAY BE REQUIRED BY GOVERNMENT AGENCIES AND LANDLORDS.
19. PERFORM ANTENNA AND CDAX SWEEP TESTING AND MAKE ANY AND ALL NECESSARY CORRECTIONS.
20. REMAIN ON SITE MOBILIZED THROUGHOUT HAND-OFF AND INTEGRATION TO ASSIST AS NEEDED UNTIL SITE IS DEEMED SUBSTANTIALLY COMPLETE AND PLACED "ON AIR."

3.2 GENERAL REQUIREMENTS FOR CIVIL CONSTRUCTION:

- A. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL REMAINING RUBBISH, IMPLEMENTS, TEMPORARY FACILITIES, AND SURPLUS MATERIALS.
- B. EQUIPMENT ROOMS SHALL AT ALL TIMES BE MAINTAINED "BROOM CLEAN" AND CLEAR OF DEBRIS.
- C. CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO DISCOVER AND LOCATE ANY HAZARDOUS CONDITION.
  1. IN THE EVENT CONTRACTOR ENCOUNTERS ANY HAZARDOUS CONDITION WHICH HAS NOT BEEN ABATED OR OTHERWISE MITIGATED, CONTRACTOR AND ALL OTHER PERSONS SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY COMPANY IN WRITING. THE WORK IN THE AFFECTED AREA SHALL NOT BE RESUMED EXCEPT BY WRITTEN NOTIFICATION BY COMPANY.
  2. CONTRACTOR AGREES TO USE CARE WHILE ON THE SITE AND SHALL NOT TAKE ANY ACTION THAT WILL OR MAY RESULT IN OR CAUSE THE HAZARDOUS CONDITION TO BE FURTHER RELEASED IN THE ENVIRONMENT, OR TO FURTHER EXPOSE INDIVIDUALS TO THE HAZARD.
- D. CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS. SHOULD AREAS OUTSIDE THE PROJECT LIMITS BE AFFECTED BY CONTRACTOR'S ACTIVITIES, CONTRACTOR SHALL IMMEDIATELY RETURN THEM TO ORIGINAL CONDITION
- E. CONDUCT TESTING AS REQUIRED HEREIN.

3.3 DELIVERABLES:

- A. CONTRACTOR SHALL REVIEW, APPROVE, AND SUBMIT TO SPRINT SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS AS REQUIRED HEREINAFTER
- B. PROVIDE DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING. DOCUMENTATION SHALL BE FORWARDED IN ORIGINAL FORMAT AND/OR UPLOADED INTO SMS.
  1. ALL CORRESPONDENCE AND PRELIMINARY CONSTRUCTION REPORTS.
  2. PROJECT PROGRESS REPORTS.
  3. CIVIL CONSTRUCTION START DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
  4. ELECTRICAL SERVICE COMPLETION DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).

5. LINES AND ANTENNA INSTALL DATE (POPULATE FIELD FORWARD NOTIFICATION).
6. POWER INSTALL DATE (POPULATE FIELD IN SMS AND NOTIFICATION).
7. TELCO READY DATE (POPULATE FIELD IN SMS AND NOTIFICATION).
8. PPC (OR SHELTER) INSTALL DATE (POPULATE FIELD NOTIFICATION).
9. TOWER CONSTRUCTION START DATE (POPULATE FIELD FORWARD NOTIFICATION).
10. TOWER CONSTRUCTION COMPLETE DATE (POPULATE FORWARD NOTIFICATION).
11. BTS AND RADIO EQUIPMENT DELIVERED AT SITE DATE (POPULATE FIELD IN SMS AND/OR FORWARD NOTIFICATION).
12. NETWORK OPERATIONS HANDOFF CHECKLIST (HOC V FORM IN SMS)
13. CIVIL CONSTRUCTION COMPLETE DATE (POPULATE FIELD FORWARD NOTIFICATION).
14. SITE CONSTRUCTION PROGRESS PHOTOS UNLOADED

**SECTION 01 400 - SUBMITTALS & TESTS**

**PART 1 - GENERAL**

1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATION THE OTHER CONTRACT DOCUMENTS AND THE CONSTRUCTION WORK TO BE PERFORMED BY THE CONTRACTOR.

1.2 RELATED DOCUMENTS:

- A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SPECIFICATION.
- B. SPRINT "STANDARD CONSTRUCTION DETAILS FOR WIRELESS" AND MADE A PART OF THESE SPECIFICATIONS HEREWITH

1.3 SUBMITTALS:

- A. THE WORK IN ALL ASPECTS SHALL COMPLY WITH THE SPECIFICATIONS AND THESE SPECIFICATIONS.
- B. SUBMIT THE FOLLOWING TO COMPANY REPRESENTATIVE:
  1. CONCRETE MIX-DESIGNS FOR TOWER FOUNDATIONS
  2. CONCRETE BREAK TESTS AS SPECIFIED HEREIN.
  3. SPECIAL FINISHES FOR INTERIOR SPACES, IF ANY.
  4. ALL EQUIPMENT AND MATERIALS SO IDENTIFIED ON DRAWINGS.
  5. CHEMICAL GROUNDING DESIGN
- D. ALTERNATES: AT THE COMPANY'S REQUEST, ANY ALTERNATE METHODS SPECIFIED SHALL BE SUBMITTED TO SPRINT MANAGER FOR APPROVAL PRIOR TO BEING SHIPPED TO AND APPROVE ONLY THOSE REQUESTS MADE IN WRITING WILL BE CONSIDERED. SUBMITTAL FOR APPROVAL SHALL OF COST REDUCTION PROPOSED FOR USE OF ALTERNATE

1.4 TESTS AND INSPECTIONS:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION INSPECTIONS AND PROJECT DOCUMENTATION.
- B. CONTRACTOR SHALL ACCOMPLISH TESTING INCLUDING THE FOLLOWING:
  1. COAX SWEEPS AND FIBER TESTS PER CURRENT VERBOSITY-0200 ANTENNA LINE ACCEPTANCE STANDARDS.
  2. AZIMUTH AND DOWNTILT USING ELECTRONIC COAXIAL MADE-FOR-THE-PURPOSE ANTENNA ALIGNMENT TOOL
  3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION AS A RESULT OF TESTING.
- C. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES, BUT NOT LIMITED TO, THE FOLLOWING:
  1. AZIMUTH, DOWNTILT, AGL - UPLOAD REPORT FROM SPRINT TASK 465. INSTALLED AZIMUTH, DOWNTILT, AGL CONFORM TO THE RF DATA SHEETS. SWEEP AND FIBER
  2. SCANABLE BARCODE PHOTOGRAPHS OF TOWER TOP EQUIPMENT
  3. ALL AVAILABLE JURISDICTIONAL INFORMATION
  4. PDF SCAN OF REDLINES PRODUCED IN FIELD



CONTINUE FROM SP-2

7. VERIFICATION DOCUMENTED WITH THE ANTENNA CHECKLIST REPORT, BY A&E, SITE DEVELOPMENT REP, OR RF REP.
  8. FINAL INSPECTION CHECKLIST AND HANDOFF WALK (HOC.). SIGNED FORM SHOWING ACCEPTANCE BY FIELD OPS IS TO BE UPLOADED INTO SMS.
  9. COAX SWEEP AND FIBER TESTING DOCUMENTS SUBMITTED VIA SMS FOR RF APPROVAL.
  10. SCAN-ABLE BARCODE PHOTOGRAPHS OF TOWER TOP AND INACCESSIBLE SERIALIZED EQUIPMENT
  11. ALL AVAILABLE JURISDICTIONAL INFORMATION
  12. PDF SCAN OF REDLINES PRODUCED IN FIELD
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CORRECTIONS TO ANY WORK IDENTIFIED AS UNACCEPTABLE IN SITE INSPECTION ACTIVITIES AND/OR AS A RESULT OF TESTING.
- D. CONSTRUCTION INSPECTIONS AND CORRECTIVE MEASURES SHALL BE DOCUMENTED BY THE CONTRACTOR WITH WRITTEN REPORTS AND PHOTOGRAPHS. PHOTOGRAPHS MUST BE DIGITAL AND OF SUFFICIENT QUALITY TO CLEARLY SHOW THE SITE CONSTRUCTION. PHOTOGRAPHS MUST CLEARLY IDENTIFY THE PHOTOGRAPHED ITEM AND BE LABELED WITH THE SITE CASCADE NUMBER, SITE NAME, DESCRIPTION, AND DATE.
- 3.4 DELIVERABLES: TEST AND INSPECTION REPORTS AND CLOSEOUT DOCUMENTATION SHALL BE UPLOADED TO THE SMS AND/OR FORWARDED TO SPRINT FOR INCLUSION INTO THE PERMANENT SITE FILES.
- A. THE FOLLOWING TEST AND INSPECTION REPORTS SHALL BE PROVIDED AS APPLICABLE.
1. CONCRETE MIX AND CYLINDER BREAK REPORTS.
  2. STRUCTURAL BACKFILL COMPACTION REPORTS.
  3. SITE RESISTANCE TO EARTH TEST.
  4. ANTENNA AZIMUTH AND DOWN TILT VERIFICATION
  5. TOWER ERECTION INSPECTIONS AND MEASUREMENTS DOCUMENTING TOWER INSTALLED PER SUPPLIER'S REQUIREMENTS AND THE APPLICABLE SECTIONS HEREIN.
  6. COAX CABLE SWEEP TESTS PER COMPANY'S "ANTENNA LINE ACCEPTANCE STANDARDS".
- B. REQUIRED CLOSEOUT DOCUMENTATION INCLUDES THE FOLLOWING;
1. TEST WELLS AND TRENCHES: PHOTOGRAPHS OF ALL TEST WELLS; PHOTOGRAPHS SHOWING ALL OPEN EXCAVATIONS AND TRENCHING PRIOR TO BACKFILLING SHOWING A TAPE MEASURE VISIBLE IN THE EXCAVATIONS INDICATING DEPTH.
  2. CONDUITS, CONDUCTORS AND GROUNDING: PHOTOGRAPHS SHOWING TYPICAL INSTALLATION OF CONDUCTORS AND CONNECTORS; PHOTOGRAPHS SHOWING TYPICAL BEND RADIUS OF INSTALLED GROUND WIRES AND GROUND ROD SPACING;
  3. CONCRETE FORMS AND REINFORCING: CONCRETE FORMING AT TOWER AND EQUIPMENT/SHELTER PAD/FOUNDATIONS - PHOTOGRAPHS SHOWING ALL REINFORCING STEEL, UTILITY AND CONDUIT STUB OUTS; PHOTOGRAPHS SHOWING CONCRETE POUR OF SHELTER SLAB/FOUNDATION, TOWER FOUNDATION AND GUY ANCHORS WITH VIBRATOR IN USE; PHOTOGRAPHS SHOWING EACH ANCHOR ON GUYED TOWERS, BEFORE CONCRETE POUR.
  4. TOWER, ANTENNAS AND MAINLINE: INSPECTION AND PHOTOGRAPHS OF SECTION STACKING; INSPECTION AND PHOTOGRAPHS OF PLATFORM COMPONENT ATTACHMENT POINTS; PHOTOGRAPHS OF TOWER TOP GROUNDING; PHOTOS OF TOWER COAX LINE COLOR CODING AT THE TOP AND AT GROUND LEVEL; INSPECTION AND PHOTOGRAPHS OF OPERATIONAL OF TOWER LIGHTING, AND PLACEMENT OF FAA REGISTRATION SIGN; PHOTOGRAPHS SHOWING ADDITIONAL GROUNDING POINTS FOR TOWERS GREATER THAN 200 FEET.; PHOTOS OF ANTENNA GROUND BAR, EQUIPMENT GROUND BAR, AND MASTER GROUND BAR; PHOTOS OF GPS ANTENNA(S); PHOTOS OF EACH SECTOR OF ANTENNAS; ONE PHOTOGRAPH LOOKING AT THE SECTOR AND ONE FROM BEHIND SHOWING THE PROJECTED COVERAGE AREA; PHOTOS OF COAX WEATHERPROOFING - TOP AND BOTTOM; PHOTOS OF COAX GROUNDING--TOP AND BOTTOM; PHOTOS OF ANTENNA AND MAST GROUNDING; PHOTOS OF COAX CABLE ENTRY INTO SHELTER; PHOTOS OF PLATFORM MECHANICAL CONNECTIONS TO TOWER/MONPOLE.
  5. ROOF TOPS: PRE-CONSTRUCTION AND POST-CONSTRUCTION VISUAL INSPECTION AND PHOTOGRAPHS OF THE ROOF AND INTERIOR TO DETERMINE AND DOCUMENT CONDITIONS; ROOF TOP CONSTRUCTION INSPECTIONS AS REQUIRED BY THE JURISDICTION; PHOTOGRAPHS OF CABLE TRAY AND/OR ICE BRIDGE; PHOTOGRAPHS OF DOGHOUSE/CABLE EXIT FROM ROOF;
  6. SITE LAYOUT - PHOTOGRAPHS OF THE OVERALL COMPOUND, INCLUDING EQUIPMENT PLATFORM FROM ALL FOUR CORNERS.
  7. FINISHED UTILITIES: CLOSE-UP PHOTOGRAPHS OF THE PPC BREAKER PANEL; CLOSE-UP PHOTOGRAPH OF THE INSIDE OF THE TELCO PANEL AND NIU; CLOSE-UP PHOTOGRAPH OF THE POWER METER AND DISCONNECT; PHOTOS OF POWER AND TELCO ENTRANCE TO COMPANY ENCLOSURE; PHOTOGRAPHS AT METER BOX AND/OR FACILITY DISTRIBUTION PANEL.
  8. REQUIRED MATERIALS CERTIFICATIONS: CONCRETE MIX DESIGNS; MILL CERTIFICATION FOR ALL REINFORCING AND STRUCTURAL STEEL; AND ASPHALT PAVING MIX DESIGN.
  9. ANY AND ALL SUBMITTALS BY THE JURISDICTION OR COMPANY.

SECTION 01 400 - SUBMITTALS & TESTS

**PART 1 - GENERAL**

1.1 THE WORK: THESE STANDARD CONSTRUCTION SPECIFICATION THE OTHER CONTRACT DOCUMENTS AND THE CONSTRUCTION WORK TO BE PERFORMED BY THE CONTRACTOR.

1.2 RELATED DOCUMENTS:

A. THE REQUIREMENTS OF THIS SECTION APPLY TO ALL SI SPECIFICATION.

B. SPRINT STANDARD CONSTRUCTION DETAILS FOR WIRELE AND MADE A PART OF THESE SPECIFICATIONS HEREWIT

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION**

3.1 WEEKLY REPORTS:

A. CONTRACTOR SHALL PROVIDE SPRINT WITH WEEKLY REP STATUS. THIS STATUS REPORT FORMAT WILL BE PROVIDI SPRINT. THE REPORT WILL CONTAIN SITE ID NUMBER, T SITE, INCLUDING THE BASELINE DATE, ESTIMATED COMPLETION DATE.

B. REPORT INFORMATION WILL BE TRANSMITTED TO SPRINT REQUIRED. THIS INFORMATION WILL PROVIDE A BASIS FC AND PAYMENT.

3.2 PROJECT CONFERENCE CALLS:

A. SPRINT MAY HOLD WEEKLY PROJECT CONFERENCE CALL REQUIRED TO COMMUNICATE SITE STATUS, MILESTONE C MILESTONE PROJECTIONS, AND ANSWER ANY OTHER SITE NECESSARY.

3.3 PROJECT TRACKING IN SMS:

A. CONTRACTOR SHALL PROVIDE SCHEDULE UPDATES AND SYSTEM ON A WEEKLY BASIS.

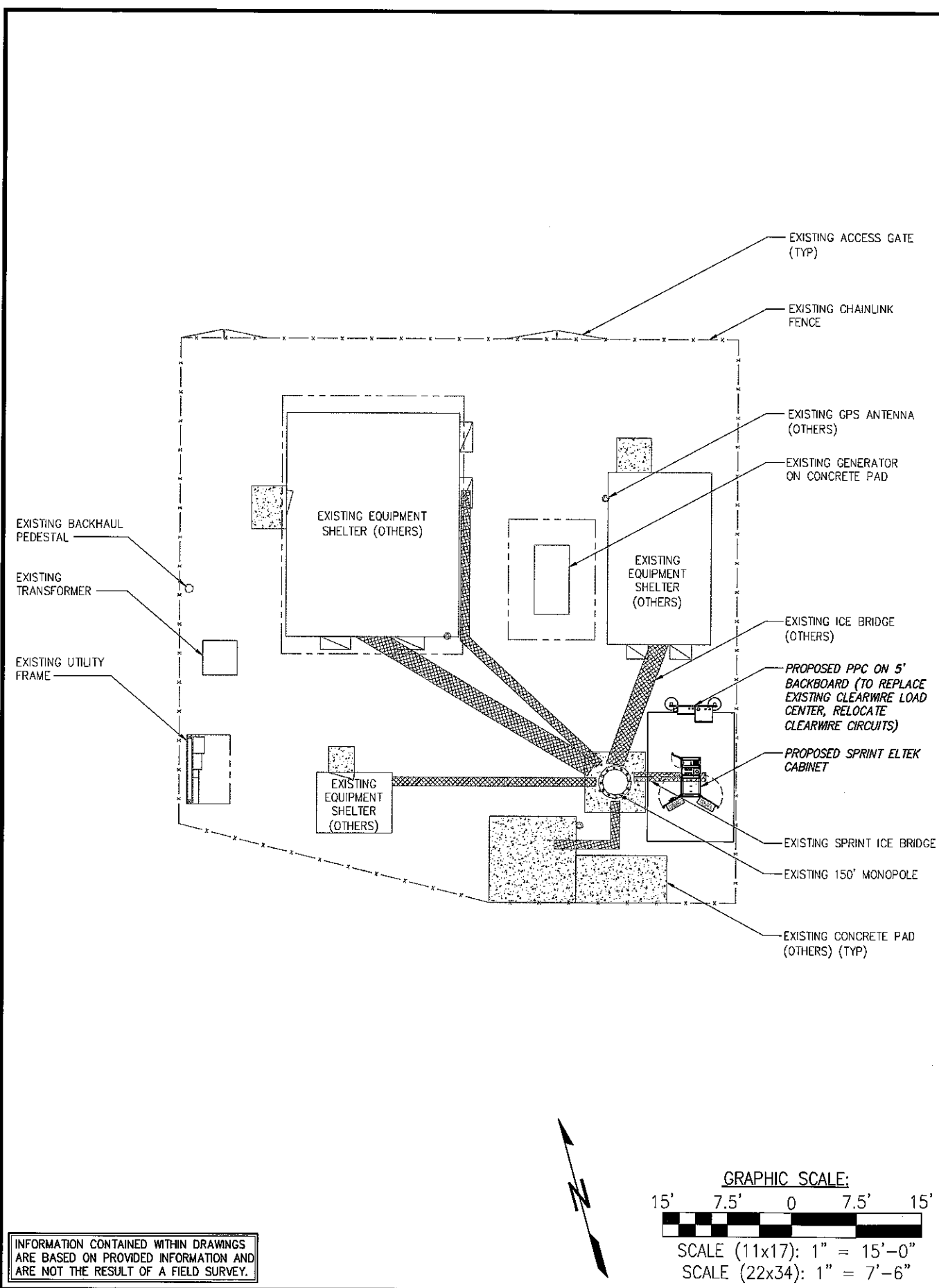
3.4 ADDITIONAL REPORTING:

A. ADDITIONAL OR ALTERNATE REPORTING REQUIREMENTS M REPORT AS DETERMINED TO BE REASONABLY NECESSAR

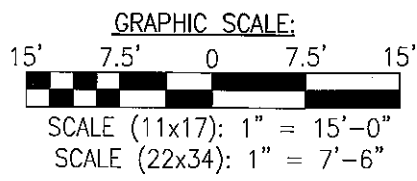
3.5 PROJECT PHOTOGRAPHS:

A. FILE DIGITAL PHOTOGRAPHS OF COMPLETED SITE IN JPE PHOTO LIBRARY FOR THE RESPECTIVE SITE. PHOTOGRAPH LABELLED WITH SITE NUMBER, NAME AND DESCRIPTION, / MINIMUM THE FOLLOWING AS APPLICABLE:

1. SHELTER AND TOWER OVERVIEW.
2. TOWER FOUNDATION(S) - FORMS AND STEEL BEFORE ON GUYED TOWERS).
3. TOWER FOUNDATION(S) POUR WITH VIBRATOR IN USE GUYED TOWERS).
4. TOWER STEEL AS BEING INSTALLED INTO HOLE (SHO GUYED TOWERS).
5. PHOTOS OF TOWER SECTION STACKING.
6. CONCRETE TESTING / SAMPLES.
7. PLACING OF ANCHOR BOLTS IN TOWER FOUNDATION.
8. BUILDING/WATER TANK FROM ROAD FOR TENANT IMP
9. SHELTER FOUNDATION--FORMS AND STEEL BEFORE
10. SHELTER FOUNDATION POUR WITH VIBRATOR IN USE.
11. COAX CABLE ENTRY INTO SHELTER.
12. PLATFORM MECHANICAL CONNECTIONS TO TOWER/MO
13. ROOFTOP PRE AND POST CONSTRUCTION PHOTOS TO AND INTERIOR CEILING.
14. PHOTOS OF TOWER TOP COAX LINE COLOR CODING . GROUND LEVEL.
15. PHOTOS OF ALL APPROPRIATE COMPANY OR REGULA
16. PHOTOS OF EQUIPMENT BOLT DOWN INSIDE SHELTER
17. POWER AND TELCO ENTRANCE TO COMPANY ENCLOSURE TELCO SUPPLY LOCATIONS INCLUDING METER/DISCON
18. ELECTRICAL TRENCH(S) WITH ELECTRICAL / CONDUIT
19. ELECTRICAL TRENCH(S) WITH FOIL-BACKED TAPE BEF
20. TELCO TRENCH WITH TELEPHONE / CONDUIT BEFORE
21. TELCO TRENCH WITH FOIL-BACKED TAPE BEFORE FU
22. SHELTER GROUND-RING TRENCH WITH GROUND-WIRE ( ALL CAD WELDS AND BEND RADII).
23. TOWER GROUND-RING TRENCH WITH GROUND-WIRE ( ALL CAD WELDS AND BEND RADII).



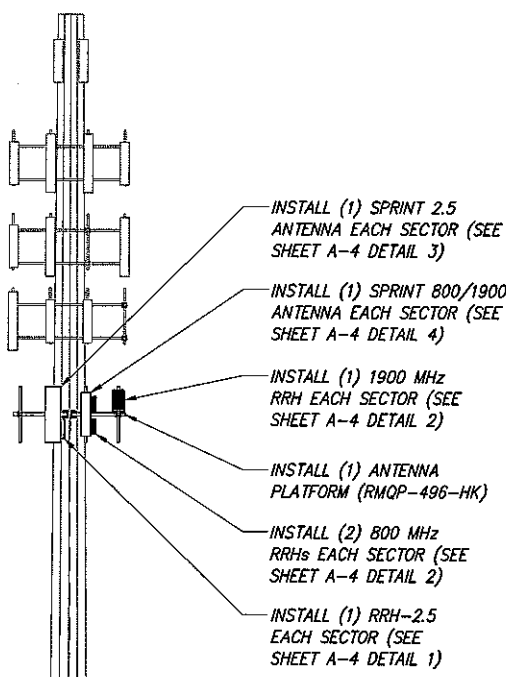
INFORMATION CONTAINED WITHIN DRAWINGS ARE BASED ON PROVIDED INFORMATION AND ARE NOT THE RESULT OF A FIELD SURVEY.



**OVERALL SITE PLAN**

**NOTE:**  
SEE DETAIL 2 ON A-3  
FOR ANTENNA LAYOUT

- TOP OF EXISTING MONOPOLE  
ELEV. = ±171'-0" A.G.L.
- $\phi$  OF EXISTING OTHER CARRIER ANTENNA  
ELEV. = ±166'-0" A.G.L.
- $\phi$  OF EXISTING OTHER CARRIER ANTENNA  
ELEV. = ±155'-0" A.G.L.
- $\phi$  OF EXISTING OTHER CARRIER ANTENNA  
ELEV. = ±146'-0" A.G.L.
- TOP OF EXISTING OTHER CARRIER ANTENNA  
ELEV. = ±138'-0" A.G.L.
- $\phi$  OF EXISTING/TO BE INSTALLED SPRINT  
ANTENNAS ELEV. = ±128'-0" A.G.L.



INSTALL (4) HYBRID CABLES FROM EXISTING SPRINT FIBER JUNCTION BOX TO PROPOSED RRH UNIT (TO REPLACE (6) COAX CABLES (CONTRACTOR TO VERIFY PRIOR TO MATERIALS ORDER) (175'±) (SEE SHEET A-5)

**NOTE:**

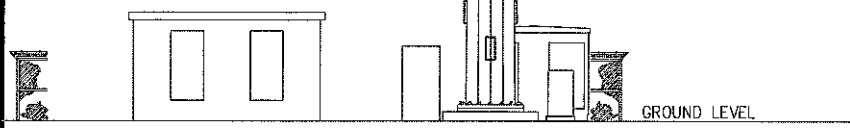
- STRUCTURAL ANALYSIS COMPLETED BY: JACOBS. FOR ADDITIONAL INFORMATION SEE REPORT TITLED: "STRUCTURAL ANALYSIS REPORT, CARRIER SITE NUMBER: CT52XC084", DATED: "MAY 18, 2018". ACCORDING TO THE RESULTS OF STRUCTURAL ANALYSIS THE STRUCTURE HAS SUFFICIENT CAPACITY TO SUPPORT THE PROPOSED LOADING.
- MOUNT ANALYSIS NOT COMPLETED AT ISSUANCE OF DRAWING. REFER TO PASSING MOUNT ANALYSIS PRIOR TO INSTALLATION OF PROPOSED EQUIPMENT.

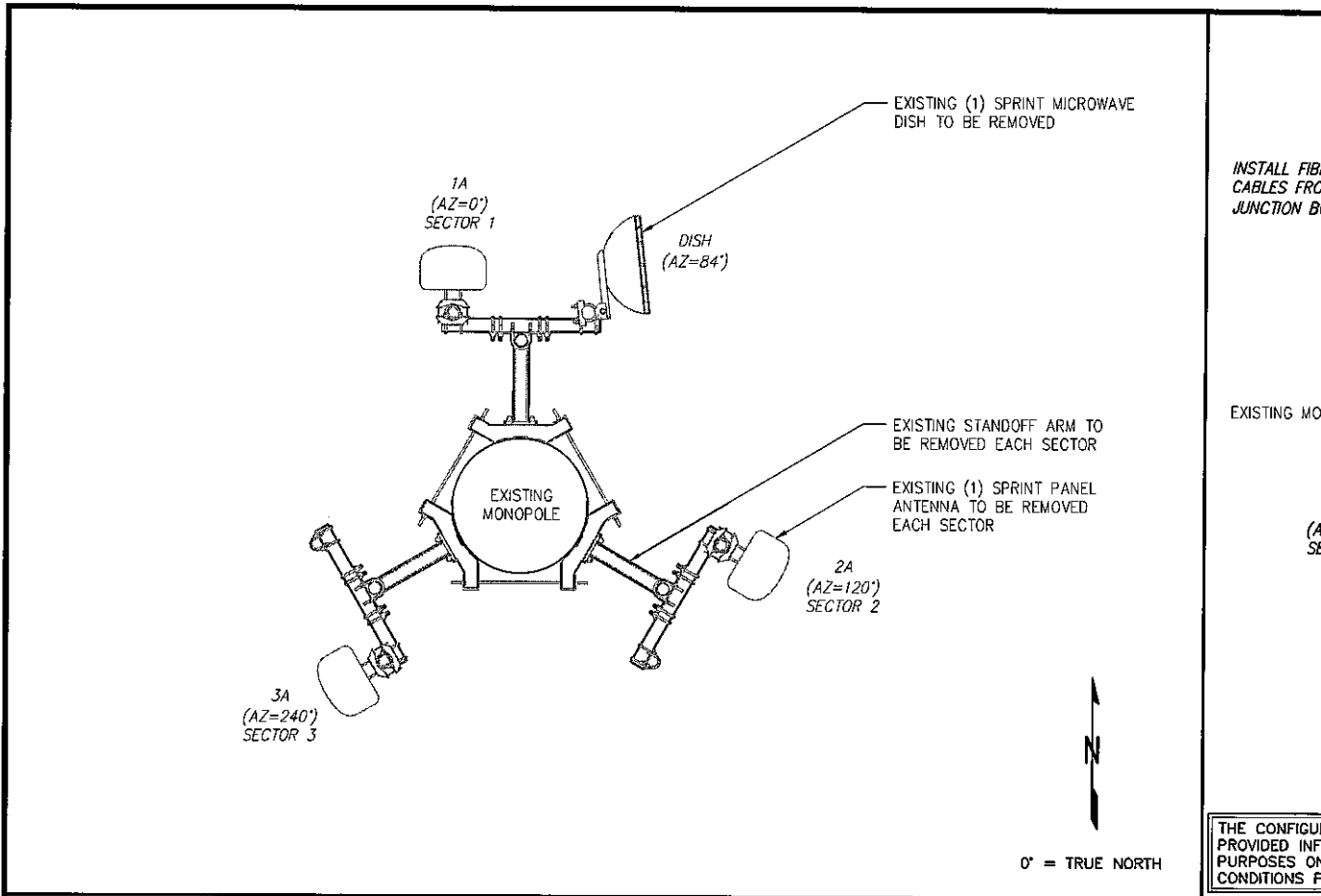
**NOTE:**  
CONTRACTOR TO LINE UP WITH MARKINGS ON JUMPER AND RI IP-MPO CONNECTORS AND SLIP RISER CONNECTOR TO THE JUMPER CONNECTOR. PUSH THE WHITE ON THE JUMPER CONNECTOR AGAIN THE RED SEAL ON THE CONNECTOR.  
  
CONTRACTOR TO ROTATE THE HOUSING CLOCKWISE UNTIL YOU A CLICK SOUND TO ENSURE A PROPER CONNECTION IS IN PL

FINA	
SECTOR	ANTENNA MANUFACTURER
1	COMMSCOPE
	RFS
2	COMMSCOPE
	RFS
3	COMMSCOPE
	RFS

M

LEGEND
EXISTING
PROPOSED





INSTALL FIBER CABLES FROM JUNCTION BOX

EXISTING MONOPOLE

(A) SECTOR

THE CONFIGURATION PROVIDED IS FOR INFORMATION PURPOSES ONLY. CONDITIONS APPLY.

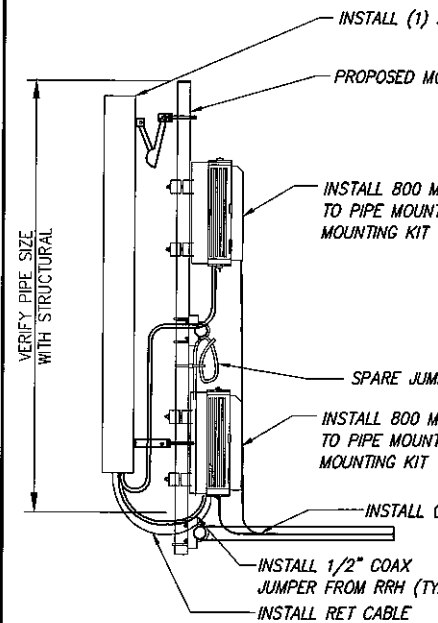
**EXISTING ANTENNA LAYOUT**

NO SCALE

1

**NOTES:**

1. ALL ANTENNA HEIGHTS ARE TO CENTER OF HORIZONTAL ANTENNA.
2. VERIFY AZIMUTH AND CL HEIGHT WITH AS-BUILT DRAWINGS IF AVAILABLE.
3. NO OBJECT IS TO BE WITHIN 45 DEGREES OF BORE-SIGHT OF 2.5G OR ANY OTHER TOWER ANTENNA. IF NECESSARY, 2.5G ANTENNA CAN BE PLACED AT FAR EDGE OF HORIZONTAL ANTENNA MOUNT MEMBER FOR CLEAR LINE OF SITE OR EVEN ON ANOTHER SECTOR FOR CLEAR LINE OF SITE.
4. 2.5G ANTENNA MUST BE AT LEAST 6" FROM 1900MHZ ANTENNA, 30" FROM 800MHZ ANTENNA AND 30MHZ FROM DUAL BAND 1900MHZ AND 800MHZ ANTENNA.
5. IF ANTENNAS ARE MOUNTED ON A FACE SURFACE SUCH AS A BUILDING WALL, PARAPET WALL, OR WATER TOWER WALL, THIS RFDS MUST BE ACCOMPANIED BY A SKETCH PROVIDED BY ITS ORIGINATING RF ENGINEER CALLING OUT THE EXACT LOCATION OF WHERE ANTENNA IS TO BE LOCATED. CONTACT SPRINT RF ENGINEER IF THE SKETCH IS MISSING.
6. GENERAL CONTRACTOR TO FIELD VERIFY AZIMUTH AND CL HEIGHT AND MECHANICAL DOWNTILT. IF DIFFERENT THAN CALLED OUT BELOW, HALT ANTENNA WORK FOR ONE HOUR, CALL SPRINT RF ENGINEER (OR MANAGER IF RF ENGINEER DOES NOT ANSWER, BUT STILL LEAVE A MESSAGE TO RF ENGINEER) USING CONTACT INFORMATION ABOVE FOR FURTHER INSTRUCTIONS. IF SPRINT DOES NOT RESPOND WITHIN ONE HOUR, PLACE 2.5G ANTENNA AT SAME CL HEIGHT AS 1.9G ANTENNA AND EMAIL CORRECT CL HEIGHT AND AZIMUTH TO SPRINT RF ENGINEER. UPDATE AS-BUILT DRAWING WITH CORRECT CL HEIGHT. ALSO EMAIL CORRECT 1900 MHZ AND 800 MHZ ANTENNA CL HEIGHT, AZIMUTH AND MECHANICAL DOWNTILT TO RF ENGINEER.
7. AISG TESTS TO VERIFY OPERATION IS TO BE PERFORMED AFTER FINAL INSTALLATION OF ANTENNAS AND AISG CABLES HAVE BEEN CONNECTED. VERIFY OPERATION OF ALL EXISTING SPRINT AISG EQUIPMENT INCLUDING 800MHZ, 1.9GHZ AND 2.5G. TEST INCLUDE COMPLETE DOWNTILT, AZIMUTH (IF APPLICABLE) AND BEAMWIDTH SWINGS (IF APPLICABLE). DOCUMENT AISG TEST RESULTS IN COAX SWEEP TEST SPREADSHEET.
8. GENERAL CONTRACTOR MUST INSURE THAT NO OBJECT IS LOCATED IN FRONT OF ANTENNA. THIS MEANS NO OBJECT IS TO BE LOCATED 45 DEGREES LEFT AND RIGHT OF FRONT OF ANTENNA OR 7 DEGREES UP AND DOWN FROM CENTER OF ANTENNA. IF THIS IS NOT POSSIBLE, CONTACT RF ENGINEER FOR FURTHER INSTRUCTION. IN ADDITION, 2.5G ANTENNA IS NOT TO BE PLACED IN FRONT OF ANY OTHER ANTENNA USING THE SAME 45 DEGREE RULE. THIS INCLUDES SPRINT AND NON-SPRINT ANTENNAS.
9. GENERAL CONTRACTOR IS REQUIRED TO USE A DIGITAL ALIGNMENT TOOL TO SET AZIMUTH, ROLL AND DOWNTILT. AZIMUTH ACCURACY IS TO BE WITHIN 1 DEGREE. DOWNTILT AND ROLL (LEFT TO RIGHT TILT) IS TO BE WITHIN 0.1 DEGREES. IF FOR SOME REASON THIS ACCURACY CANNOT BE ACHIEVED, UPDATE AS-BUILT DRAWINGS AND EMAIL SPRINT RF ENGINEER WITH AS-BUILT SETTINGS. USE 3Z RF ALIGNMENT TOOL OR EQUIVALENT TOOL. [HTTP://WWW.3ZTELECOM.COM/ANTENNA-ALIGNMENT-TOOL/](http://www.3ztelecom.com/antenna-alignment-tool/)



**NOTES:**

1. CUT DC CONDUCTORS TO LENGTH.
2. COIL FIBER CABLE AND SECURE AT SIDE OF RRH.
3. DO NOT EXCEED BEND RADIUS.

**NOTE:** CONTRACTOR TO BEHIND ANTENNA PLATFORM/TOWER

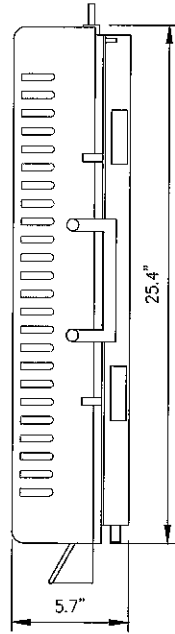
**NOTES**

NO SCALE

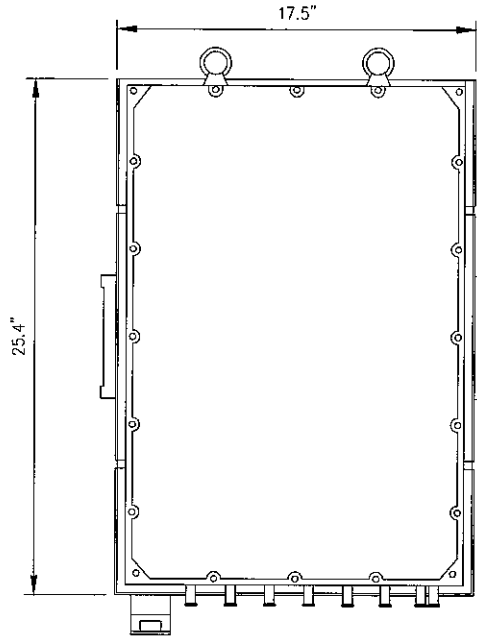
3

RRH: ALCATEL LUCENT TD-RRH8X20

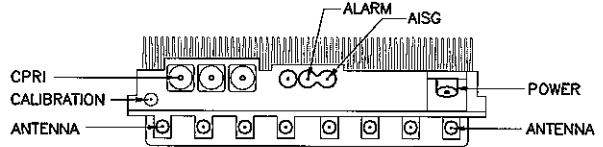
COLOR: LIGHT GREY  
WEIGHT: 70 LBS.



SIDE VIEW



FRONT VIEW



PLAN VIEW

**NOTES**

COMPLY WITH MANUFACTURERS INSTRUCTIONS TO ENSURE THAT ALL RRH'S RECEIVE ELECTRICAL POWER WITHIN 24 HOURS OF BEING REMOVED FROM THE MANUFACTURER'S PACKAGING. DO NOT OPEN RRH PACKAGES IN THE RAIN.

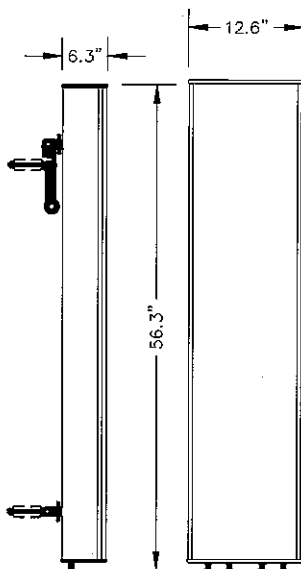
2.5 RRH'S

NO SCALE

1



**ANTENNA: RFS APXVTM14-ALU-120**  
DIMENSIONS (HxWxD): 56.3"x12.6"x6.3"  
WEIGHT: 56.2 LBS.



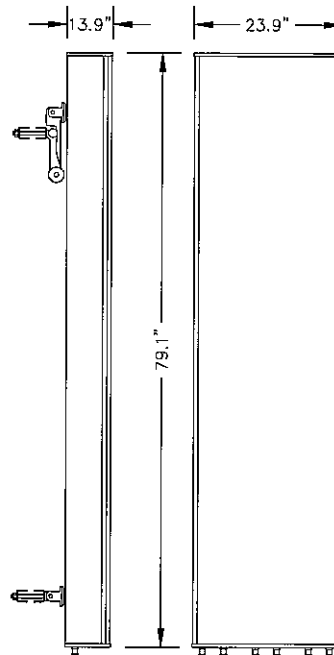
2.5 ANTENNA

NO SCALE

3



**ANTENNA: COMMSCOPE NNVV-65B-R4**  
DIMENSIONS (HxWxD): 79.1"x23.9"x13.9"  
WEIGHT: 108 LBS.



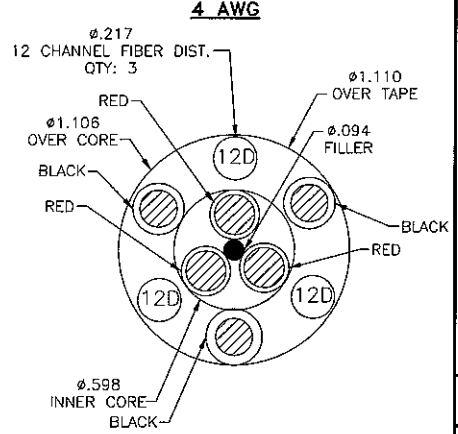
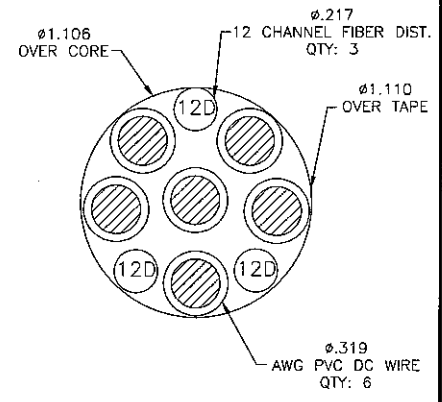
1900/800 ANTENNA

NO SCALE

4

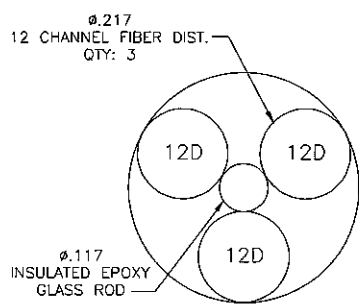
RFS HYBRIFLEX RISER CABLE SCHEDULE

Fiber Only (Existing DC Power)	Hybrid cable MN: HB058-M12-050F 12x multi-mode fiber pairs, Top: Outdoor protected connectors, Bottom: LC Connectors, 5/8 cable, 50 ft	50 ft
	MN: HB058-M12-075F	75 ft
	MN: HB058-M12-100F	100 ft
	MN: HB058-M12-125F	125 ft
	MN: HB058-M12-150F	150 ft
	MN: HB058-M12-175F	175 ft
MN: HB058-M12-200F	200 ft	
3 AWG Power	Hybrid cable MN: HB114-08U3M12-050F 3x 8 AWG power pairs, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 50 ft	50 ft
	MN: HB114-08U3M12-075F	75 ft
	MN: HB114-08U3M12-100F	100 ft
	MN: HB114-08U3M12-125F	125 ft
	MN: HB114-08U3M12-175F	175 ft
MN: HB114-08U3M12-200F	200 ft	
6 AWG Power	Hybrid cable MN: HB114-13U3M12-225F 3x 6 AWG power pair, 12x multi-mode fiber pairs, Outdoor rated connectors & LC Connectors, 1 1/4 cable, 225 ft	225 ft
	MN: HB114-13U3M12-250F	250 ft
	MN: HB114-13U3M12-275F	275 ft
	MN: HB114-13U3M12-300F	300 ft
	MN: HB114-21U3M12-325F	325 ft
MN: HB114-21U3M12-350F	350 ft	
MN: HB114-21U3M12-375F	375 ft	



RFS HYBRIFLEX JUMPER CABLE SCHEDULE

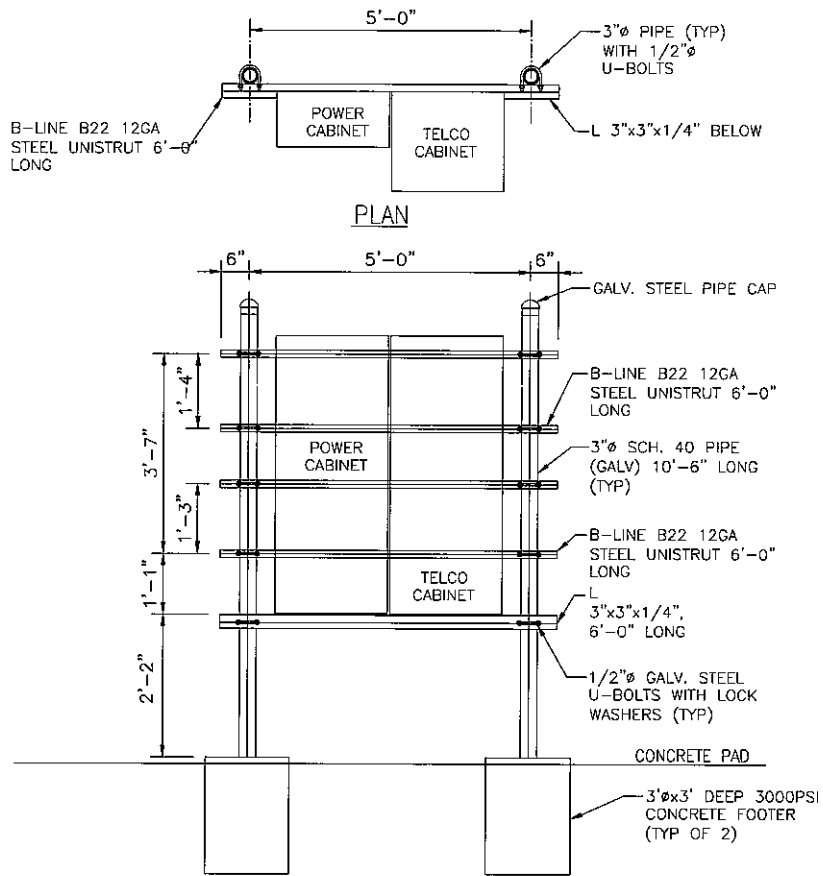
Fiber Only	Hybrid Jumper cable MN: HBF012-M3-5F1 5 ft, 3x multi-mode fiber pairs, Outdoor & LC connectors, 1/2 cable	5 ft
	MN: HBF012-M3-10F1	10 ft
	MN: HBF012-M3-15F1	15 ft
	MN: HBF012-M3-20F1	20 ft
	MN: HBF012-M3-25F1	25 ft
	MN: HBF012-M3-30F1	30 ft
3 AWG Power	Hybrid Jumper cable MN: HBF058-08U1M3-5F1 5 ft, 1x 8 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 5/8 cable	5 ft
	MN: HBF058-08U1M3-15F1	15 ft
	MN: HBF058-08U1M3-25F1	25 ft
	MN: HBF058-08U1M3-30F1	30 ft
6 AWG Power	Hybrid Jumper cable MN: HBF058-13U1M3-5F1 5 ft, 1x 6 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 5/8 cable	5 ft
	MN: HBF058-13U1M3-10F1	10 ft
	MN: HBF058-13U1M3-15F1	15 ft
	MN: HBF058-13U1M3-20F1	20 ft
	MN: HBF058-13U1M3-25F1	25 ft
	MN: HBF058-13U1M3-30F1	30 ft
4 AWG Power	Hybrid Jumper cable MN: HBF078-21U1M3-5F1 5 ft, 1x 4 AWG power pair, 3x multi-mode fiber pairs, Outdoor & LC Connectors, 7/8 cable	5 ft
	MN: HBF078-21U1M3-10F1	10 ft
	MN: HBF078-21U1M3-15F1	15 ft
	MN: HBF078-21U1M3-20F1	20 ft
	MN: HBF078-21U1M3-25F1	25 ft
	MN: HBF078-21U1M3-30F1	30 ft



NOTE:  
SPRINT CM TO CONFIRM HYBRID OR FIBER RISER CABLE  
AND HYBRID OR FIBER JUMPER CABLE MODEL NUMBERS IF  
HYBRID CABLES ARE REQUIRED BEFORE PREPARING BOM.

THE "UNDISTURBED" BE COMPACTED MODIFIED PROX PER ASTM D 1 EXCAVATE AS I VEGETATION & UNDISTURBED A MINIMUM OF PASS A ONE II

3/4" CHAMFER



PPC H-FRAME DETAIL

NO SCALE

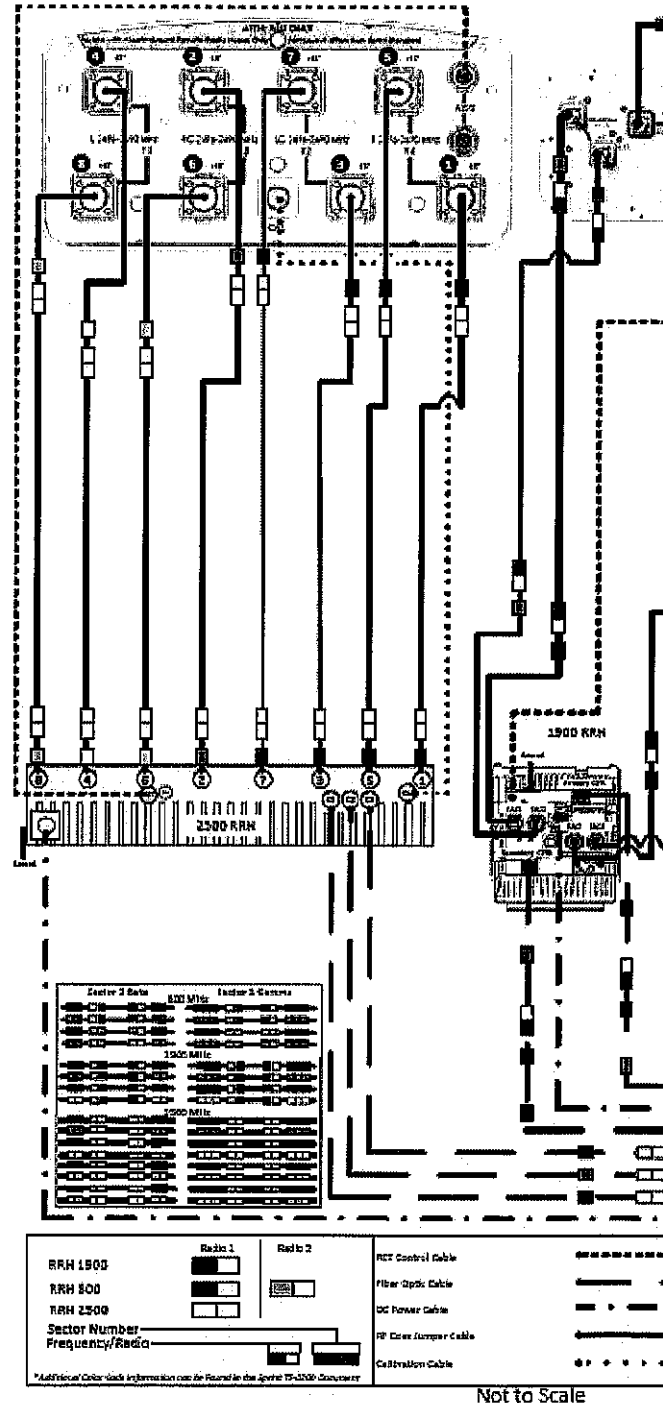
1

DETAIL NOT USED

NO SCALE

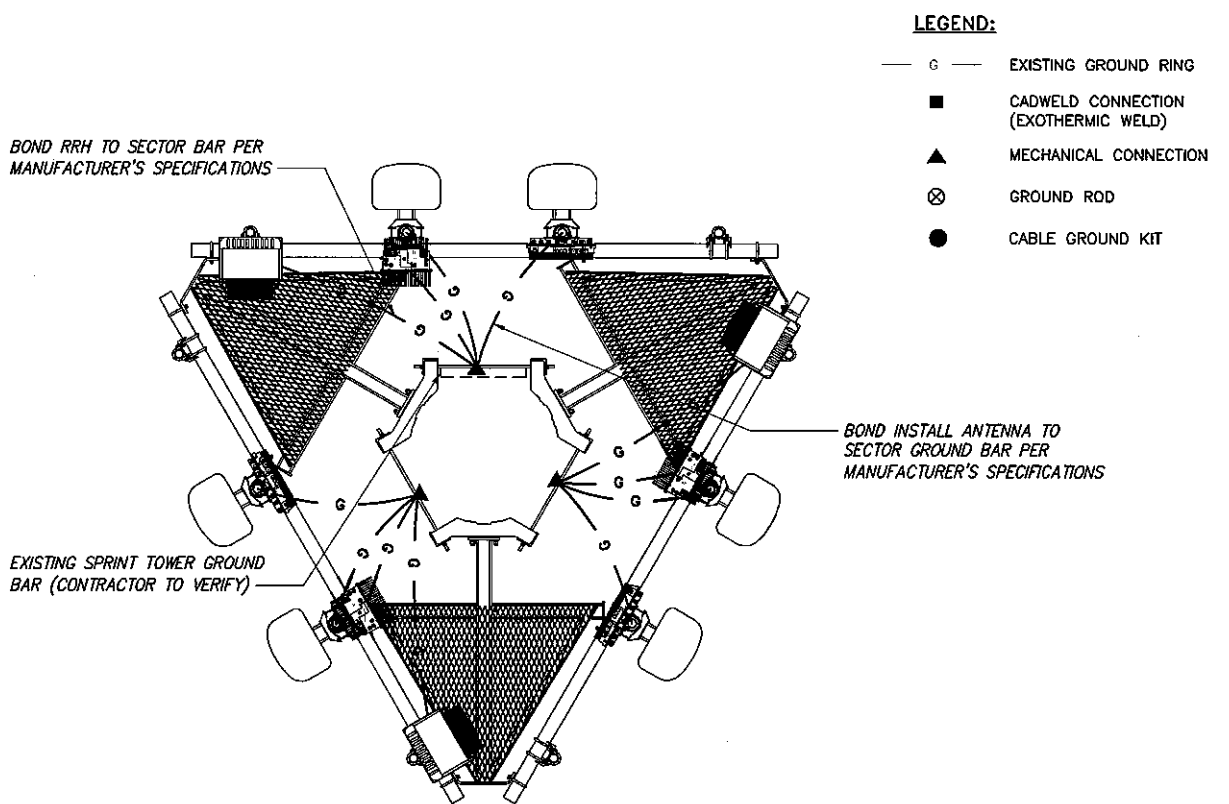
3

ALU 211 APXVTM14-ALU-I20 & NNVV-I





PLAN NOT USED



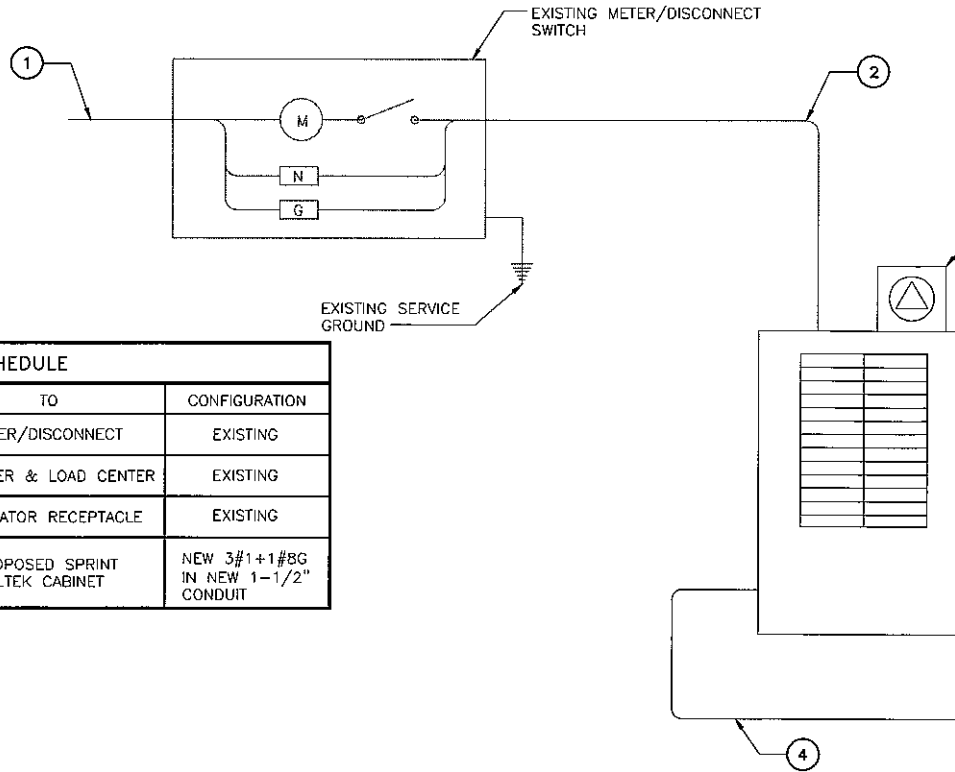
TYPICAL ANTENNA GROUNDING PLAN

NO SCALE

2

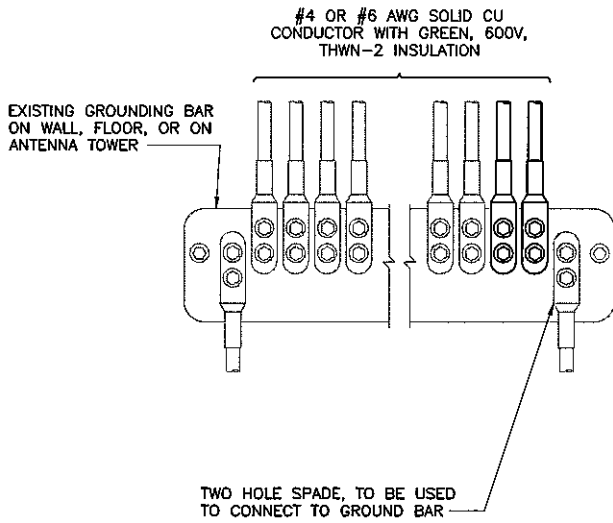
**NOTES**

CG SHALL REFERENCE ALL SPECS FOR "CONNECTING THE POWER SUPPLY" OF THE NEW INSTALLATION DOCUMENTS, FOR ALL CONNECTION SPECIFICATIONS.



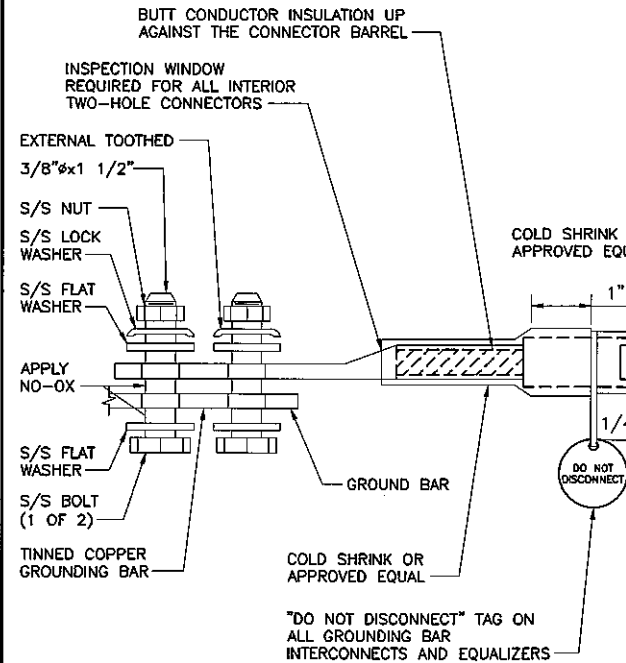
CIRCUIT SCHEDULE			
NO	FROM	TO	CONFIGURATION
①	UTILITY SOURCE	METER/DISCONNECT	EXISTING
②	METER/DISCONNECT	TRANSFER & LOAD CENTER	EXISTING
③	TRANSFER & LOAD CENTER	GENERATOR RECEPTACLE	EXISTING
④	TRANSFER & LOAD CENTER	PROPOSED SPRINT ELTEK CABINET	NEW 3#1+1#8G IN NEW 1-1/2" CONDUIT

**ELECTRICAL ONE-LINE DIAG**



**NOTES**

1. APPLY NO-OX TO LUG AND BAR CONTACT SURFACE. DO NOT COAT INLINE LUG.
2. IF STOLEN GROUND BARS ARE ENCOUNTERED, CONTACT SPRINT CM FOR REPLACEMENT THREADED ROD KIT.



**Barbadora, Jeff**

**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, May 16, 2019 10:22 AM  
**To:** Barbadora, Jeff  
**Subject:** FedEx Shipment 775222642375 Delivered

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

## Your package has been delivered

Tracking # 775222642375

Ship date:  
**Wed, 5/15/2019**

Jeff Barbadora

Crown Castle  
WOBURN, MA 01801  
US

Delivery date:  
**Thu, 5/16/2019 10:20  
am**

Jim Wendt-Town Planner

Town of Fairfield  
725 Old Post Road  
FAIRFIELD, CT 06824  
US



**FedEx**

### Shipment Facts

Our records indicate that the following package has been delivered.

**Tracking number:** 775222642375  
**Status:** Delivered: 05/16/2019 10:20 AM Signed for By: J.WENDT  
**Reference:** 1766.6680  
**Signed for by:** J.WENDT  
**Delivery location:** FAIRFIELD, CT  
**Delivered to:** Receptionist/Front Desk  
**Service type:** FedEx Priority Overnight®  
**Packaging type:** FedEx® Envelope  
**Number of pieces:** 1  
**Weight:** 1.00 lb.  
**Special handling/Services:** Deliver Weekday

**Barbadora, Jeff**

**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, May 16, 2019 10:21 AM  
**To:** Barbadora, Jeff  
**Subject:** FedEx Shipment 775222601982 Delivered

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

## Your package has been delivered

Tracking # 775222601982

Ship date:  
**Wed, 5/15/2019**

Jeff Barbadora  
Crown Castle  
WOBURN, MA 01801  
US

Delivery date:  
**Thu, 5/16/2019 10:19  
am**

First Selectman-Michael  
Tetreau  
Town of Fairfield  
725 Old Post Road  
FAIRFIELD, CT 06824  
US



### Shipment Facts

Our records indicate that the following package has been delivered.

**Tracking number:** 775222601982  
**Status:** Delivered: 05/16/2019 10:19 AM  
Signed for By: L.KUROGHLIAN  
**Reference:** 1766.6680  
**Signed for by:** L.KUROGHLIAN  
**Delivery location:** FAIRFIELD, CT  
**Delivered to:** Receptionist/Front Desk  
**Service type:** FedEx Priority Overnight®  
**Packaging type:** FedEx® Envelope  
**Number of pieces:** 1

**Barbadora, Jeff**

**From:** TrackingUpdates@fedex.com  
**Sent:** Thursday, May 16, 2019 9:57 AM  
**To:** Barbadora, Jeff  
**Subject:** FedEx Shipment 775222663513 Delivered

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

## Your package has been delivered

Tracking # 775222663513

Ship date:  
Wed, 5/15/2019

Jeff Barbadora  
Crown Castle  
WOBURN, MA 01801  
US

Delivery date:  
Thu, 5/16/2019 9:52 am

Ranjan & Moitrayee Ghosh  
Ranjan & Moitrayee Ghosh  
11 Peterson Road  
PALMER, MA 01069  
US



### Shipment Facts

Our records indicate that the following package has been delivered.

**Tracking number:** 775222663513

**Status:** Delivered: 05/16/2019 09:52 AM  
Signed for By: Signature not required

**Reference:** 1766.6680

**Signed for by:** Signature not required

**Delivery location:** PALMER, MA

**Delivered to:** Residence

**Service type:** FedEx Priority Overnight®

**Packaging type:** FedEx® Envelope

**Number of pieces:** 1

**Weight:** 1.00 lb.

**Special handling/Services:** Residential Delivery