



Filed by:

Rick Woods Site Development Manager - SBA Communications
134 Flanders Rd., Suite 125, Westborough, MA 01581
508.251.0720 x 3800 - rwoods@sbasite.com

January 13, 2025

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

RE: **Notice of Exempt Modification**
113 Brush Hill Road Goshen, CT 06756
Latitude: 41.797169
Longitude: -73.221669
T-Mobile Site #: CTNH548A

Dear Ms. Bachman:

T-Mobile currently has (6) antennas at 160' on the existing 195' monopole tower at 113 Brush Hill Road Goshen, CT. The 195' tower is owned by SBA Towers V, LLC. The property is owned by the Woodbridge Lake Sewer District. T-Mobile now intends to replace (3) antennas at 160' and other ancillary equipment listed below.

Planned Modifications:

TOWER

Install New:

- (3) RFS APXVLL19P_43-C-A20 antennas
- (3) Ericsson 4460 B25+B66 RRUs
- (2) 2" (6x24) Hybrid cables
- (1) SitePro1 RMQP-4126-HK low-profile platform

Existing Equipment to be Removed

- (3) RFS APX16DWV-16DWV-S-E-A20 antennas
- (6) Ericsson RRUS11 RRUs
- (3) 1 5/8" coax
- (2) 2" (6x24) fiber cables

Existing Equipment to Remain

- (3) APXVAALL24_43-U-NA20 antennas
- (3) Ericsson 4480 B71+B85 RRUs

Reserved Lease Entitlements

- (3) RFS APX16DWV-16DWV-S-E-A20 antennas
- (6) Ericsson RRUS11 RRUs
- (2) 1 5/8" hybrid cables

GROUND

Install New:

- (1) Ericsson 6160 equipment cabinet
- (1) Ericsson B160 battery cabinet
- (1) Slackbox fiber management box

Existing Equipment to be Removed

- (1) Ericsson RBS6102 equipment cabinet

Existing Equipment to Remain

- (1) Diesel Generator
- (1) Emerson fiber cabinet
- (1) 200A PPC

This facility was approved by the Connecticut Siting Council on November 20, 2003 under Docket 260.

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 Todd Carusillo, First Selectman, Janell Mullen, Town Planner, and Woodridge Lake Sewer District, property owner. (Separate notice is not being sent to tower owner, as it belongs to SBA.)

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. §16.50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modification will not require the extension of the site boundary.
3. The proposed modifications 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 Communications Commission safety standard.
5. The proposed modification 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-referenced telecommunication facility constitute an exempt modifications under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Rick Woods

Site Development Manager



SBA Communications Corporation

134 Flanders Road
Suite 125
Westborough, MA 01581

508.251.0720 x3800 + **T**

508.614.0389 + **C**

rwoods@sbsite.com

Your Signal Starts Here.

Attachments:

cc: Todd Carusillo, Town Manager

The Town of Goshen, 42A North Street, Goshen, CT 06756

Janell Mullen, Town Planner

The Town of Goshen, 42A North Street, Goshen, CT 06756

Woodridge Lake Sewer District

113 Brush Hill Road Goshen, CT 06756

EXHIBIT LIST

Exhibit 1	Copy of Check	X
Exhibit 2	Notification Receipts	X
Exhibit 3	Property Card	X
Exhibit 4	Property Map	X
Exhibit 5	Original Zoning Approval	CSC 11/20/2003
Exhibit 6	EME Report	Centerline 12/20/2024
Exhibit 7	Structural Analysis	TES 11/7/2024
Exhibit 8	Mount Analysis	TES 11/4/2024
Exhibit 9	Construction Drawings	Chappell 11/25/2024



Exhibit 1



Exhibit 2

ORIGIN ID:BBFA
JOHN MORRISON
SBA COMMUNICATIONS CORPORATION
134 FLANDERS
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

(508) 768-7960
SHIP DATE: 13JAN25
ACTWGT: 1.00 LB
CAD: 255382542/NET4535

TO **TODD CARUSILLO**
FIRST SELECTMAN TOWN OF GOSHEN
42A NORTH STREET

BILL SENDER

58CJ1/5046/C6C4

GOSHEN CT 06756

(508) 614-0389 REF: 10-56-92009-6089
INV: PO: DEPT:

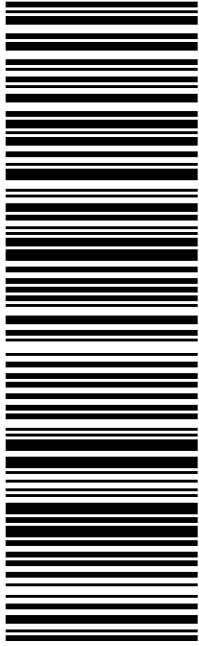


TRK# 7713 9314 4525 0201

WED - 15 JAN 5:00P
** 2DAY **

SP HFDA

06756
CT-US BDL



After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

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 Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID:BBFA (508) 768-7960
JOHN MORRISON
SBA COMMUNICATIONS CORPORATION
134 FLANDERS
SUITE 125
WESTBOROUGH, MA 01581
UNITED STATES US

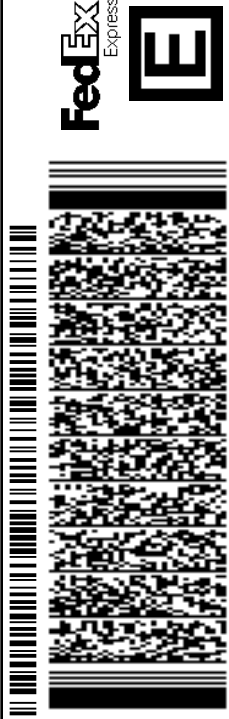
SHIP DATE: 13JAN25
ACTWGT: 1.00 LB
CAD: 255382542/NET4535
BILL SENDER

TO WOODRIDGE LAKE SEWER DISTRICT

113 BRUSH HILL ROAD

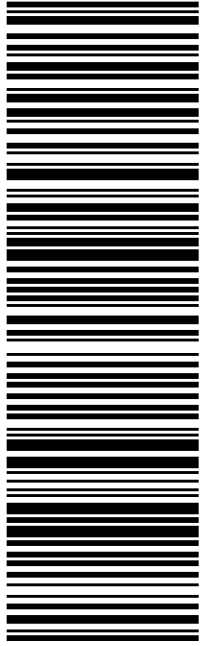
GOSHEN CT 06756

(508) 614-0389 REF: 10-56-92009-6089
INV: PO: DEPT:



WED - 15 JAN 5:00P
TRK# 7713 9334 1955
0201 ** 2DAY **

SP HFDA 06756
CT-US BDL



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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
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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.
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BILL SENDER

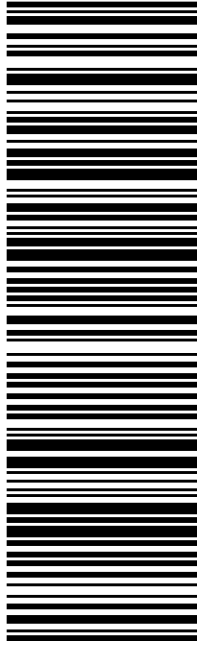
TO **JANELL MULLEN**
TOWN PLANNER TOWN OF GOSHEN
42A NORTH STREET

GOSHEN CT 06756
(508) 614-0389 REF: 10-56-92009-6089
INV: PO: DEPT:

58CJ1/5046/C6C4



WED - 15 JAN 5:00P
** 2DAY **
TRK# 7713 9321 5782
0201
SP HFDA
06756
CT-US BDL



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Exhibit 3



Town of Goshen, CT

Property Listing Report

Map Block Lot

04-006-007-00

Building # 1

PID

232

Account

00023400

Property Information

Property Location	113 BRUSH HILL ROAD
Owner	WOODRIDGE SEWER DIST
Co-Owner	na
Mailing Address	113 BRUSH HILL RD GOSHEN CT 06756
Land Use	937 Sewer Treatmnt
Land Class	E
Zoning Code	RA5
Census Tract	

Neighborhood	C2
Acreage	114.67
Utilities	UNKNOWN
Lot Setting/Desc	UNKNOWN UNKNOWN
Book / Page	0055/0121
Additional Info	

Primary Construction Details

Year Built	1974
Building Desc.	Sewer Treatmnt
Building Style	Commercial
Building Grade	C
Stories	1
Occupancy	1.00
Exterior Walls	Concr/Cinder
Exterior Walls 2	Vinyl Siding
Roof Style	Flat
Roof Cover	T & G/Rubber
Interior Walls	Minim/Masonry
Interior Walls 2	NA
Interior Floors 1	Concr-Finished
Interior Floors 2	NA

Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Fin Bsmt Area	
Fin Bsmt Quality	
Bsmt Gar	0
Fireplaces	0

Photo



Sketch



(*Industrial / Commercial Details)

Building Use	Commercial
Building Condition	G
Sprinkler %	NA
Heat / AC	None
Frame Type	Masonry
Baths / Plumbing	Average
Ceiling / Wall	Sus-Ceil/Mn Wa
Rooms / Prtns	Average
Wall Height	10.00
First Floor Use	NA
Foundation	NA

Report Created On

7/21/2022

Town of Goshen, CT

Property Listing Report

Map Block Lot

04-006-007-00

Building # 1

PID

232

Account

00023400

Valuation Summary (Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	65200	45640
Extras	0	0
Improvements		
Outbuildings	664700	465290
Land	657560	460300
Total	1387460	971230

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
First Floor	1748	1748
Basement	1748	0
Patio - Concrete	152	0
Unfinished Enclosed Porch	66	0
Total Area	3714	1748

Outbuilding and Extra Features

Type	Description
Fence 8'	1125.00 L.F.
Paving Asph.	3000.00 S.F.
Light (1)	1.00 UNITS
Light (2)	2.00 UNITS
Garage	1496.00 S.F.
Sewer Plant	100000.00 GALS
Paving Asph.	5000.00 S.F.
Pump House Comm	308.00 S.F.

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
WOODRIDGE SEWER DIST	0055/0121	12/15/1975	0



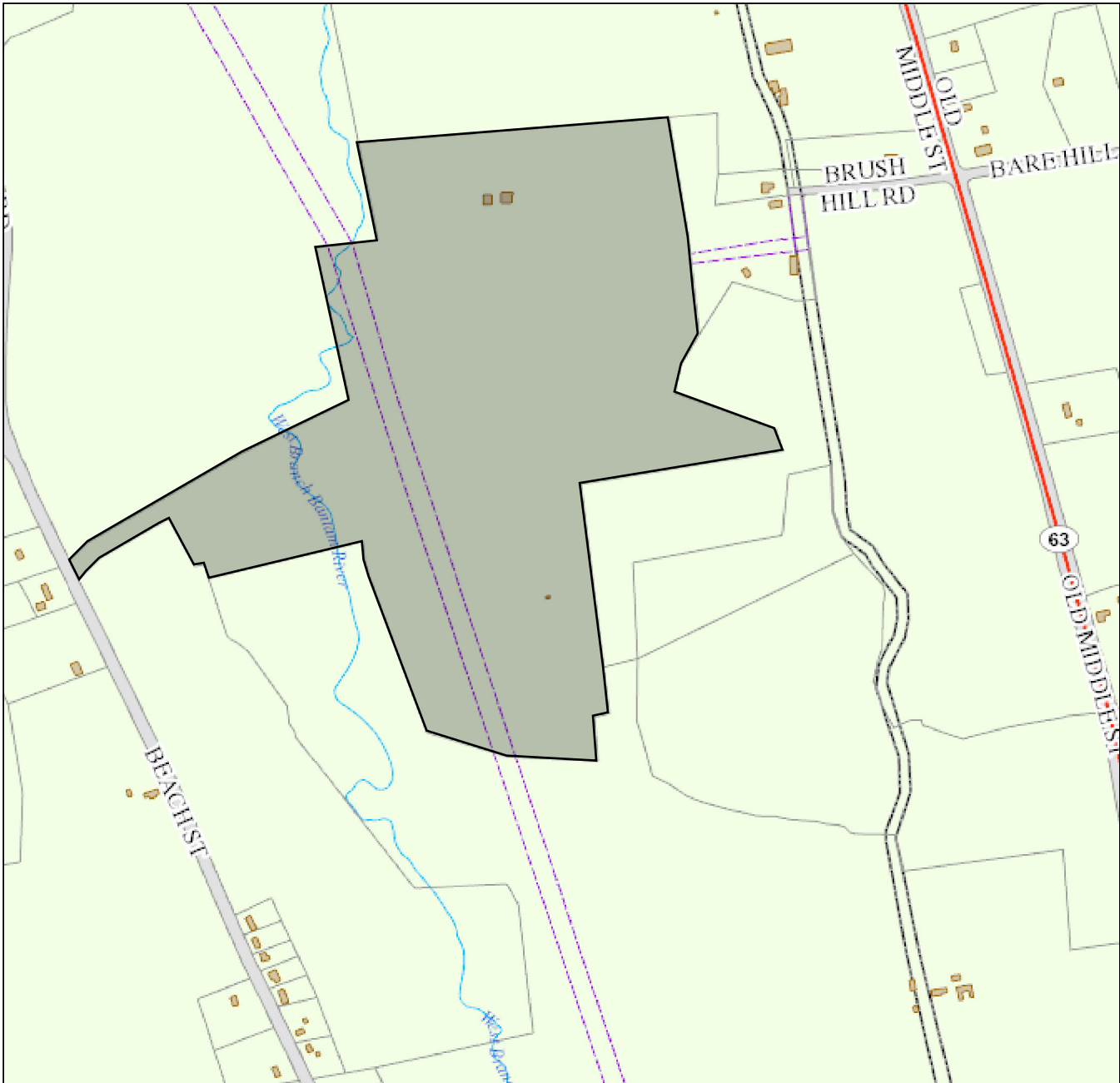
Exhibit 4

Town of Goshen

Geographic Information System (GIS)



Date Printed: 7/21/2022



MAP DISCLAIMER - NOTICE OF LIABILITY

This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Goshen and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 800 feet

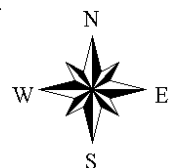




Exhibit 5

Connecticut Siting Council^(/CSC)

[CT.gov Home](#) [\(/\)](#) [Connecticut Siting Council](#) [\(/CSC\)](#) DO 260 Goshen D&O

DOCKET NO. 260 – Bay Communications Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility in Goshen, Connecticut.	}	Connecticut
	}	Siting
	}	Council
		November 20, 2003

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Sprint Spectrum, L.P. (Sprint) for the construction, maintenance and operation of a wireless telecommunications facility at a site located at 113 Brush Hill Road, Goshen, Connecticut. The Council denies certification of the site located at 416 Old Middle Street, Goshen, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole not to exceed a height of 195 feet above ground level.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be submitted to and approved by the Council prior to the commencement of facility construction and shall include:
 - a) a detailed site development plan that depicts the location of the access road, compound, tower, and utility line;
 - b) specifications for the tower, tower foundation, antennas, equipment building, and security fence;
 - c) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.
3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power densities of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall provide a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
4. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing. Upon request, the Certificate Holder shall provide space on its tower for Town of Goshen antennas at no cost to the Town.

6. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.
8. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Waterbury Republican and in the Torrington Register Citizen.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

<u>Applicant</u>	<u>Its Representative</u>
Sprint Spectrum, L.P.	Thomas J. Regan, Esquire
d/b/a Sprint PCS	Brown Rudnick Berlack Israels LLP
	CityPlace I, 38 th Floor
	185 Asylum Street
	Hartford, CT 06103-3402



Exhibit 6



CENTERLINE

Radio Frequency Exposure Analysis Report

December 20, 2024

T-Mobile

Site Name: CTNH548A

Site ID: CTNH548A

Site Address: 113 Brush Hill Road, Goshen, CT 06756



Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2025

Signed 20 December 2024

Site Compliance Summary

T-Mobile Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	0.46056 $\mu\text{W}/\text{cm}^2$
Cumulative General Population % MPE (Ground Level):	0.05270%



December 20, 2024

T-Mobile

Attn: Adam Sullivan, Regulatory Compliance and Real Estate Consultant
15 Commerce Way, Suite B
Norton, MA 02379

RF Exposure Analysis for Site: **CTNH548A**

Centerline was contracted to analyze the proposed T-Mobile facility at **113 Brush Hill Road, Goshen, CT 06756** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{\text{MHz}}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of $1 \text{ mW}/\text{cm}^2$ ($1000 \mu\text{W}/\text{cm}^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.



Calculation Methodology

Centerline has performed theoretical modeling of the site using a software tool, RoofMaster®, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.



Data & Results

The following table details the antennas and operating parameters for the T-Mobile antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at ground level.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table(s) below. The cumulative power density and cumulative % MPE are displayed at the bottom of the table(s) below.



Maximum Calculated Cumulative Power Density
(Location: Base of the monopole)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
T-Mobile A 1	RFS APXVLL19P 43-C-A20	1900	16.24	160.00	4.00	40.00	6731.63	0.00004	1000.00	0.00000
T-Mobile A 1	RFS APXVLL19P 43-C-A20	1900	16.24	160.00	4.00	40.00	6731.63	0.00004	1000.00	0.00000
T-Mobile A 1	RFS APXVLL19P 43-C-A20	2100	17.33	160.00	4.00	60.00	12978.10	0.00004	1000.00	0.00000
T-Mobile A 2	RFS APXVAALL24 43-U-NA20	600	12.95	160.00	4.00	60.00	4733.81	0.00010	400.00	0.00003
T-Mobile A 2	RFS APXVAALL24 43-U-NA20	700	13.65	160.00	4.00	20.00	1853.92	0.00000	466.67	0.00000
T-Mobile B 3	RFS APXVLL19P 43-C-A20	1900	16.24	160.00	4.00	40.00	6731.63	0.00002	1000.00	0.00000
T-Mobile B 3	RFS APXVLL19P 43-C-A20	1900	16.24	160.00	4.00	40.00	6731.63	0.00002	1000.00	0.00000
T-Mobile B 3	RFS APXVLL19P 43-C-A20	2100	17.33	160.00	4.00	60.00	12978.10	0.00002	1000.00	0.00000
T-Mobile B 4	RFS APXVAALL24 43-U-NA20	600	12.95	160.00	4.00	60.00	4733.81	0.00004	400.00	0.00001
T-Mobile B 4	RFS APXVAALL24 43-U-NA20	700	13.65	160.00	4.00	20.00	1853.92	0.00005	466.67	0.00001
T-Mobile C 5	RFS APXVLL19P 43-C-A20	1900	16.24	160.00	4.00	40.00	6731.63	0.01186	1000.00	0.00119
T-Mobile C 5	RFS APXVLL19P 43-C-A20	1900	16.24	160.00	4.00	40.00	6731.63	0.01186	1000.00	0.00119
T-Mobile C 5	RFS APXVLL19P 43-C-A20	2100	17.33	160.00	4.00	60.00	12978.10	0.01819	1000.00	0.00182
T-Mobile C 6	RFS APXVAALL24 43-U-NA20	600	12.95	160.00	4.00	60.00	4733.81	0.01316	400.00	0.00329
T-Mobile C 6	RFS APXVAALL24 43-U-NA20	700	13.65	160.00	4.00	20.00	1853.92	0.00500	466.67	0.00107
Verizon A 7	Generic Panel	3700	23.35	185.00	2.00	160.00	69206.99	0.00496	1000.00	0.00050
Verizon A 8	Generic Panel	700	12.31	185.00	2.00	40.00	1361.73	0.00001	466.67	0.00000
Verizon A 8	Generic Panel	850	12.25	185.00	2.00	40.00	1343.04	0.00003	566.67	0.00001
Verizon A 8	Generic Panel	1900	15.05	185.00	4.00	40.00	5118.23	0.00005	1000.00	0.00001
Verizon A 9	Generic Panel	700	12.31	185.00	2.00	40.00	1361.73	0.00001	466.67	0.00000
Verizon A 9	Generic Panel	850	12.25	185.00	2.00	40.00	1343.04	0.00003	566.67	0.00001
Verizon A 9	Generic Panel	2100	15.53	185.00	2.00	40.00	2858.18	0.00004	1000.00	0.00000
Verizon A 9	Generic Panel	2100	15.53	185.00	2.00	40.00	2858.18	0.00004	1000.00	0.00000
Verizon A 10	Generic Panel	3600	8.50	185.00	4.00	5.00	141.59	0.00000	1000.00	0.00000
Verizon B 11	Generic Panel	3700	23.35	185.00	2.00	160.00	69206.99	0.00484	1000.00	0.00048
Verizon B 12	Generic Panel	700	12.31	185.00	2.00	40.00	1361.73	0.00004	466.67	0.00001
Verizon B 12	Generic Panel	850	12.25	185.00	2.00	40.00	1343.04	0.00001	566.67	0.00000
Verizon B 12	Generic Panel	1900	15.05	185.00	4.00	40.00	5118.23	0.00002	1000.00	0.00000
Verizon B 13	Generic Panel	700	12.31	185.00	2.00	40.00	1361.73	0.00004	466.67	0.00001
Verizon B 13	Generic Panel	850	12.25	185.00	2.00	40.00	1343.04	0.00001	566.67	0.00000
Verizon B 13	Generic Panel	2100	15.53	185.00	2.00	40.00	2858.18	0.00001	1000.00	0.00000
Verizon B 13	Generic Panel	2100	15.53	185.00	2.00	40.00	2858.18	0.00001	1000.00	0.00000
Verizon B 14	Generic Panel	3600	8.50	185.00	4.00	5.00	141.59	0.00001	1000.00	0.00000
Verizon C 15	Generic Panel	3700	23.35	185.00	2.00	160.00	69206.99	0.27232	1000.00	0.02723
Verizon C 16	Generic Panel	700	12.31	185.00	2.00	40.00	1361.73	0.00501	466.67	0.00107
Verizon C 16	Generic Panel	850	12.25	185.00	2.00	40.00	1343.04	0.00475	566.67	0.00084
Verizon C 16	Generic Panel	1900	15.05	185.00	4.00	40.00	5118.23	0.00996	1000.00	0.00100
Verizon C 17	Generic Panel	700	12.31	185.00	2.00	40.00	1361.73	0.00501	466.67	0.00107
Verizon C 17	Generic Panel	850	12.25	185.00	2.00	40.00	1343.04	0.00475	566.67	0.00084
Verizon C 17	Generic Panel	2100	15.53	185.00	2.00	40.00	2858.18	0.00540	1000.00	0.00054
Verizon C 17	Generic Panel	2100	15.53	185.00	2.00	40.00	2858.18	0.00540	1000.00	0.00054
Verizon C 18	Generic Panel	3600	8.50	185.00	4.00	5.00	141.59	0.00335	1000.00	0.00034
AT&T A 19	Generic Panel	3450	17.05	172.00	1.00	54.22	2748.90	0.00002	1000.00	0.00000
AT&T A 19	Generic Panel	3700	16.95	172.00	1.00	81.33	4029.50	0.00004	1000.00	0.00000
AT&T A 20	Generic Panel	700	12.31	172.00	4.00	40.00	2723.45	0.00002	466.67	0.00000
AT&T A 20	Generic Panel	1900	15.05	172.00	4.00	40.00	5118.23	0.00006	1000.00	0.00001
AT&T A 20	Generic Panel	2100	15.53	172.00	4.00	40.00	5716.37	0.00009	1000.00	0.00001
AT&T A 21	Generic Panel	850	12.25	172.00	4.00	40.00	2686.09	0.00008	566.67	0.00001
AT&T A 21	Generic Panel	2300	15.17	172.00	4.00	25.00	3288.52	0.00002	1000.00	0.00000
AT&T B 22	Generic Panel	3450	17.05	172.00	1.00	54.22	2748.90	0.00002	1000.00	0.00000
AT&T B 22	Generic Panel	3700	16.95	172.00	1.00	81.33	4029.50	0.00003	1000.00	0.00000
AT&T B 23	Generic Panel	700	12.31	172.00	4.00	40.00	2723.45	0.00008	466.67	0.00002
AT&T B 23	Generic Panel	1900	15.05	172.00	4.00	40.00	5118.23	0.00003	1000.00	0.00000
AT&T B 23	Generic Panel	2100	15.53	172.00	4.00	40.00	5716.37	0.00002	1000.00	0.00000
AT&T B 24	Generic Panel	850	12.25	172.00	4.00	40.00	2686.09	0.00001	566.67	0.00000
AT&T B 24	Generic Panel	2300	15.17	172.00	4.00	25.00	3288.52	0.00000	1000.00	0.00000



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	General Population MPE Limit ($\mu\text{W}/\text{cm}^2$)	General Population % MPE
AT&T C 25	Generic Panel	3450	17.05	172.00	1.00	54.22	2748.90	0.00771	1000.00	0.00077
AT&T C 25	Generic Panel	3700	16.95	172.00	1.00	81.33	4029.50	0.01106	1000.00	0.00111
AT&T C 26	Generic Panel	700	12.31	172.00	4.00	40.00	2723.45	0.01172	466.67	0.00251
AT&T C 26	Generic Panel	1900	15.05	172.00	4.00	40.00	5118.23	0.01166	1000.00	0.00117
AT&T C 26	Generic Panel	2100	15.53	172.00	4.00	40.00	5716.37	0.01264	1000.00	0.00126
AT&T C 27	Generic Panel	850	12.25	172.00	4.00	40.00	2686.09	0.01113	566.67	0.00196
AT&T C 27	Generic Panel	2300	15.17	172.00	4.00	25.00	3288.52	0.00757	1000.00	0.00076
							Cumulative Power Density:	0.46056 $\mu\text{W}/\text{cm}^2$	Cumulative % MPE:	0.05270%



Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground level that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **compliant** with FCC rules and regulations.

Samuel Cosgrove
RF EME Technical Writer III
Centerline



Exhibit 7



A **CONGRUEX**® COMPANY

Tower Engineering Solutions, LLC
1320 Greenway Drive, Suite 600, Irving, Texas 75038
Phone: (972) 483-0607, Fax: (972) 975-9615

Structural Analysis Report

<u>Structure Information</u>	<i>Tower Type</i>	<i>Existing 194 ft EEI Monopole</i>
<u>Customer Information</u>	<i>Name</i>	<i>SBA Communications Corp</i>
	<i>Site Number</i>	<i>CT12210-A</i>
	<i>Site Name</i>	<i>Goshen 3 CT</i>
<u>Carrier Information</u>	<i>Name</i>	<i>T-Mobile</i>
	<i>Site ID / Name</i>	<i>CTNH548A / CTNH548A</i>
	<i>App #</i>	<i>262776-V1</i>
<u>Site Information</u>	<i>Address:</i>	<i>113 Brush Hill Road</i> <i>Goshen, Connecticut 06756, Litchfield County</i>
	<i>Latitude:</i>	<i>41.797172°</i>
	<i>Longitude:</i>	<i>-73.221674°</i>

Analysis Result:

Max Structural Usage: **83.2% [Pass]**

Max Foundation Usage: **64.0% [Pass]**

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Vidhya Sivakumar





Tower Engineering Solutions, LLC
1320 Greenway Drive, Suite 600, Irving, Texas 75038
Phone: (972) 483-0607, Fax: (972) 975-9615

Structural Analysis Report

<u>Structure Information</u>	<i>Tower Type</i>	<i>Existing 194 ft EEI Monopole</i>
<u>Customer Information</u>	<i>Name</i>	<i>SBA Communications Corp</i>
	<i>Site Number</i>	<i>CT12210-A</i>
	<i>Site Name</i>	<i>Goshen 3 CT</i>
<u>Carrier Information</u>	<i>Name</i>	<i>T-Mobile</i>
	<i>Site ID / Name</i>	<i>CTNH548A / CTNH548A</i>
	<i>App #</i>	<i>262776-V1</i>
<u>Site Information</u>	<i>Address:</i>	<i>113 Brush Hill Road</i> <i>Goshen, Connecticut 06756, Litchfield County</i>
	<i>Latitude:</i>	<i>41.797172°</i>
	<i>Longitude:</i>	<i>-73.221674°</i>

Analysis Result:

Max Structural Usage: **83.2% [Pass]**
Max Foundation Usage: **64.0% [Pass]**
Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Vidhya Sivakumar

Introduction

The purpose of this report is to summarize the analysis results on the 194 ft EEI Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Document Type	Remarks
Tower Drawings	Engineered Endeavors Incorporated Project #12782, Drawing #GS55363, Dated 07/28/04
Foundation Drawing	Engineered Endeavors Incorporated Project #12782, Drawing #12782-195, Dated 07/28/04
Geotechnical Report	Dr. Clarence Welti, PE, PC Geotechnical Report, Dated 12/18/03
Modification Drawings	N/A
Mount Analysis	TES, Project #152517 dated 11/03/2024

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H. In accordance with this standard, the structure was analyzed using TESPoles, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Codes and Standards	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code	
Wind Parameters	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} :	114.0 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00"
	Service Load Wind Speed:	60 mph + 0" Radial ice
	Exposure Category:	C
	Risk Category:	II
	Ground Elevation Factor (K_e):	1.000
Topographic Parameters	Method:	Method 1
	Feature Type:	Flat
	Crest Height (H):	0 ft
	Length of Feature (L):	0.0 ft
	Distance to crest (x):	0.0 ft
Seismic Parameters:	S_s	0.174 g
	S_1	0.054 g

This structural analysis is based upon the tower being classified as a Risk Category II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
-	196.0	1	-	Low Profile Platform	-	-
1	186.0	1	Andrew - FPA5250 - Dish	Modified Platform W/ (1) support rail kit & (1) kicker kit	(17) 1 5/8" (1) 1 5/8" Hybrid (2) 1/2"	Verizon
2	185.0	6	Commscope NHH-65C-R2B - Panel			
3		3	Samsung MT6407-77A - Panel			
4		3	Commscope TD-850B-LTE78-43-Diplexer			
5		3	Samsung RFV01U-D2A RRU			
6		3	Samsung RFV01U-D1A RRU			
7		1	RFS DB-C1-12C-24AB-0Z-OVP			
8	172.5	6	Cci DMP65R-BU6DA - Panel	14.5' Platform W/ Site Pro 1 # HRK14	(1) 7/16" Fiber (6) 1 5/8" (1) 3" Innerduct* (4) 3/4" DC	AT&T
9		3	Powerwave 7770- Panel			
10		3	Ericsson RRUS 4478 B14			
11		3	Ericsson RRUS 8843 B2 B66A			
12		3	Ericsson RRUS 4449 B5/B12			
13		3	Raycap DC6-48-60-18-8F			
14		1	Commscope ABT-DFM-ADBH			
-	160.0	3	RFS APXVAALL24 43-U-NA20 - Panel	RMQP-4126-HK w/ (12) 2-3/8" mounting Pipes	(2) 1 5/8" Hybrid (2) 1.9" Hybrid (1) 1/2" Coax	T-Mobile
-		3	RFS - APX16DWV-16DWVS-E-A20 - Panel			
-		3	96"x15.6"x9" (110 lb) - Panel			
-		3	Ericsson - RRUS 11 Band 4 - RRU			
-		3	Ericsson - RRUS 11 Band 12 - RRU			
-		3	Ericsson - RRUS 11 B2 - RRU			
-		3	Ericsson 4480 B71 + B85 - RRU			

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
15	160.0	3	RFS APXVAALL24 43-U-NA20 - Panel	RMQP-4126-HK w/ (12) 2-3/8" mounting Pipes	(2) 1 5/8" Hybrid (2) 1.9" Hybrid (1) 1/2" Coax	T-Mobile
16		3	RFS APX16DWV-16DWVS-E-A20 - Panel			
17		3	RFS APXVLL19P 43-C-A20 - Panel			
18		3	Ericsson RRUS 11 Band 4 RRU			
19		3	Ericsson RRUS11 B2 RRU			
20		3	Ericsson 4460 B25 + B66 RRU			
21	50.0	3	Ericsson 4480 B71 + B85 RRU			
22		1	Symmetricon 58532A - GPS			

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

Tower Component	Utilization %	Pass / Fail
Pole Shaft	73.2%	Pass
Anchor Bolt	64.3%	Pass
Base Plate	83.2%	Pass
Structure Rating – (Controlling Utilization of all Components)		83.2%

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	5257.3	37.5	66.1

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Service Load Condition (Rigidity)

The maximum twist and sway of the microwave dishes under the operational wind speed as specified in the Analysis Criteria are listed in the table below:

Elevation (ft)	Antenna / Dish	Carrier	Twist (deg)	Sway (deg)
186.0	Andrew - FPA5250 - Dish	Verizon	0.000	2.233

It is recommended that the carriers review the twist and sway values of the microwave dishes.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a comprehensive structural analysis.

Usage Diagram - Max Ratio 73.22% at 53.3ft

Structure: CT12210-A-SBA
Site Name: Goshen 3 CT
Height: 193.50 (ft)
Base Elev: 0.000 (ft)

Code: EIA/TIA-222-H
Exposure: C
Gh: 1.1

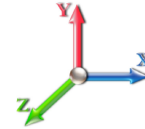
11/7/2024

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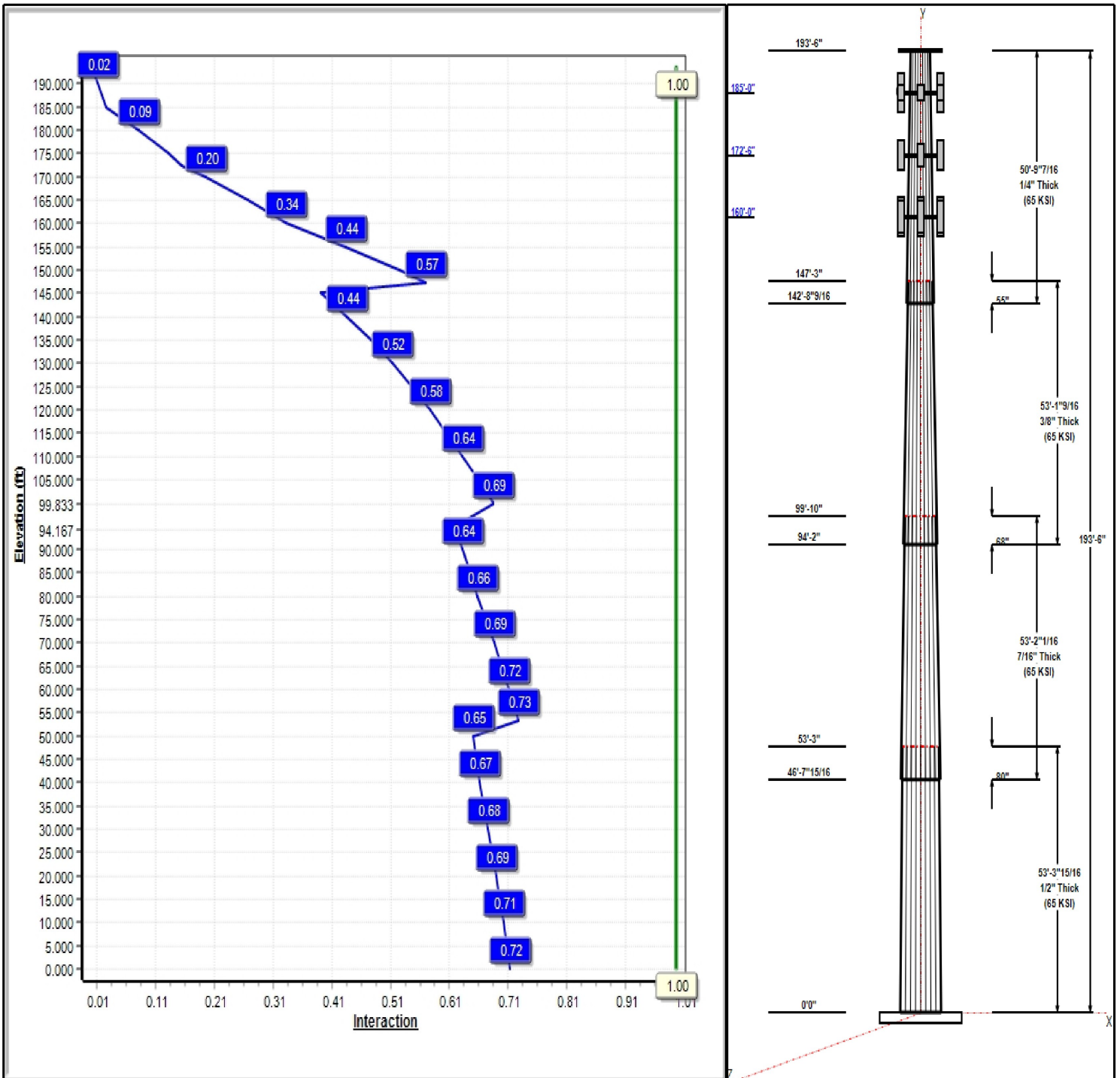
Dead Load Factor: 1.20
Wind Load Factor: 1.00

Load Case : 1.2D + 1.0W 114 mph Wind at 60°



Iterations: 31

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Structure: CT12210-A-SBA

Type: Tapered
Site Name: Goshen 3 CT
Height: 193.50 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.18928

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Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	53.33	46.91	57.00	0.500		0.18928	65
2	53.17	38.98	49.04	0.438	Slip	0.18928	65
3	53.13	30.75	40.80	0.375	Slip	0.18928	65
4	50.79	22.50	32.11	0.250	Slip	0.18928	65

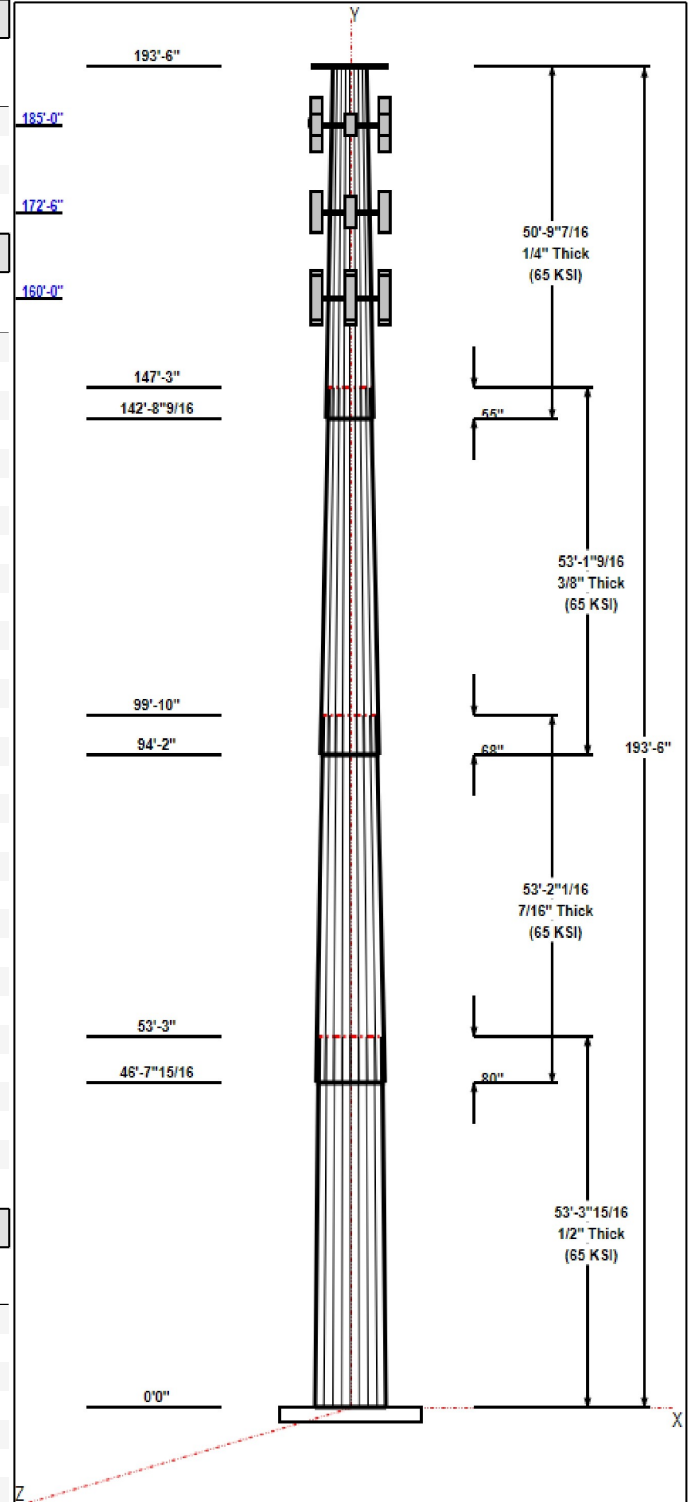
Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
193.50	196.00	1	Low Profile Platform	
185.00	185.00	1	Low Profile	Verizon
185.00	186.00	1	FPA5250	Verizon
185.00	185.00	6	Commscope	Verizon
185.00	185.00	3	Samsung MT6407-77A	Verizon
185.00	185.00	3	Commscope	Verizon
185.00	185.00	3	Samsung RFV01U-D2A	Verizon
185.00	185.00	3	Samsung RFV01U-D1A	Verizon
185.00	185.00	1	RFS	Verizon
185.00	185.00	1	support rail kit	Verizon
185.00	185.00	1	kicker kit	Verizon
172.50	172.50	6	DMP65R-BU6DA	AT&T
172.50	172.50	1	HRK14	AT&T
172.50	172.50	1	14.5' Platform	AT&T
172.50	172.50	3	RRUS 4478 B14	AT&T
172.50	172.50	3	RRUS 8843 B2 B66A	AT&T
172.50	172.50	3	RRUS 4449 B5/B12	AT&T
172.50	172.50	3	DC6-48-60-18-8F	AT&T
172.50	172.50	1	ABT-DMDF-ADBH	AT&T
172.50	172.50	3	7770.00	AT&T
160.00	160.00	3	RFS	T-Mobile
160.00	160.00	3	Ericsson RRUS 11 Band 4	T-Mobile
160.00	160.00	3	Ericsson RRUS11 B2	T-Mobile
160.00	160.00	1	RMQP-4126-HK	T-Mobile
160.00	160.00	12	2-3/8" mounting Pipes	T-Mobile
160.00	160.00	3	RFS	T-Mobile
160.00	160.00	3	RFS	T-Mobile
160.00	160.00	3	Ericsson 4460 B25 + B66	T-Mobile
160.00	160.00	3	Ericsson 4480 B71 + B85	T-Mobile
50.00	50.00	1	Symmetricon 58532A -	T-Mobile

Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	185.00	Inside	1 5/8"	Verizon
0.00	185.00	Inside	1 5/8" Hybrid	Verizon
0.00	185.00	Inside	1/2"	Verizon
0.00	172.50	Inside	1 5/8"	AT&T
0.00	172.50	Inside	3" Innerduct	AT&T
0.00	172.50	Inside	3/4" DC	AT&T
0.00	172.50	Inside	7/16" Fiber	AT&T
0.00	160.00	Inside	1 5/8" Hybrid	T-Mobile
0.00	160.00	Inside	1.9" Hybrid	T-Mobile
0.00	160.00	Inside	1/2"	T-Mobile

Anchor Bolts



Structure: CT12210-A-SBA

Type: Tapered
Site Name: Goshen 3 CT
Height: 193.50 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.18928

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Qty	Specifications	Grade (ksi)	Arrangement
24	2.25" 18J	75.0	Radial

Base Plate

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.2500	72.0	60.0	Round

Reactions

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 114 mph Wind	5256.9	37.5	66.1
1.2D + 1.0W 114 mph Wind at 30°	4552.9	32.5	66.1
1.2D + 1.0W 114 mph Wind at 60°	2628.7	18.8	66.1
1.2D + 1.0W 114 mph Wind at 90°	0.0	0.0	66.1
1.2D + 1.0W 114 mph Wind at 120°	2628.7	18.8	66.1
1.2D + 1.0W 114 mph Wind at 150°	4552.9	32.5	66.1
1.2D + 1.0W 114 mph Wind at 180°	5256.9	37.5	66.1
1.2D + 1.0W 114 mph Wind at 210°	4552.9	32.5	66.1
1.2D + 1.0W 114 mph Wind at 240°	2628.7	18.8	66.1
1.2D + 1.0W 114 mph Wind at 270°	0.0	0.0	66.1
1.2D + 1.0W 114 mph Wind at 300°	2628.7	18.8	66.1
1.2D + 1.0W 114 mph Wind at 330°	4552.9	32.5	66.1
0.9D + 1.0W 114 mph Wind	5163.7	37.5	49.5
0.9D + 1.0W 114 mph Wind at 30°	4472.0	32.5	49.5
0.9D + 1.0W 114 mph Wind at 60°	2582.0	18.7	49.5
0.9D + 1.0W 114 mph Wind at 90°	0.0	0.0	49.5
0.9D + 1.0W 114 mph Wind at 120°	2582.0	18.7	49.5
0.9D + 1.0W 114 mph Wind at 150°	4472.0	32.5	49.5
0.9D + 1.0W 114 mph Wind at 180°	5163.7	37.5	49.5
0.9D + 1.0W 114 mph Wind at 210°	4472.0	32.5	49.5
0.9D + 1.0W 114 mph Wind at 240°	2582.0	18.7	49.5
0.9D + 1.0W 114 mph Wind at 270°	0.0	0.0	49.5
0.9D + 1.0W 114 mph Wind at 300°	2582.0	18.7	49.5
0.9D + 1.0W 114 mph Wind at 330°	4472.0	32.5	49.5
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1535.9	11.1	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	1330.3	9.6	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	768.0	5.5	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	0.0	0.0	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	768.0	5.5	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	1330.3	9.6	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	1535.9	11.1	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	1330.3	9.6	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	768.0	5.5	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	0.0	0.0	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	768.0	5.5	82.7
1.2D + 1.0Di + 1.0Wi 50 mph Wind at	1330.3	9.6	82.7
1.0D + 1.0W 60 mph Wind	1442.7	10.4	55.1
1.0D + 1.0W 60 mph Wind at 30°	1249.5	9.0	55.1
1.0D + 1.0W 60 mph Wind at 60°	721.4	5.2	55.1
1.0D + 1.0W 60 mph Wind at 90°	0.0	0.0	55.1
1.0D + 1.0W 60 mph Wind at 120°	721.4	5.2	55.1
1.0D + 1.0W 60 mph Wind at 150°	1249.5	9.0	55.1
1.0D + 1.0W 60 mph Wind at 180°	1442.7	10.4	55.1
1.0D + 1.0W 60 mph Wind at 210°	1249.5	9.0	55.1
1.0D + 1.0W 60 mph Wind at 240°	721.4	5.2	55.1

Structure: CT12210-A-SBA

Type: Tapered
Site Name: Goshen 3 CT
Height: 193.50 (ft)
Base Elev: 0.00 (ft)

Base Shape: 18 Sided
Taper: 0.18928

11/7/2024

Page: 4



1.0D + 1.0W 60 mph Wind at 270°	0.0	0.0	55.1
1.0D + 1.0W 60 mph Wind at 300°	721.4	5.2	55.1
1.0D + 1.0W 60 mph Wind at 330°	1249.5	9.0	55.1
1.2D + 1.0Ev + 1.0Eh	122.5	0.7	68.2
0.9D + 1.0Ev + 1.0Eh	120.5	0.7	51.6

Structure: CT12210-A-SBA - Coax Line Placement

Type: Monopole
Site Name: Goshen 3 CT
Height: 193.50 (ft)

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Page: 5

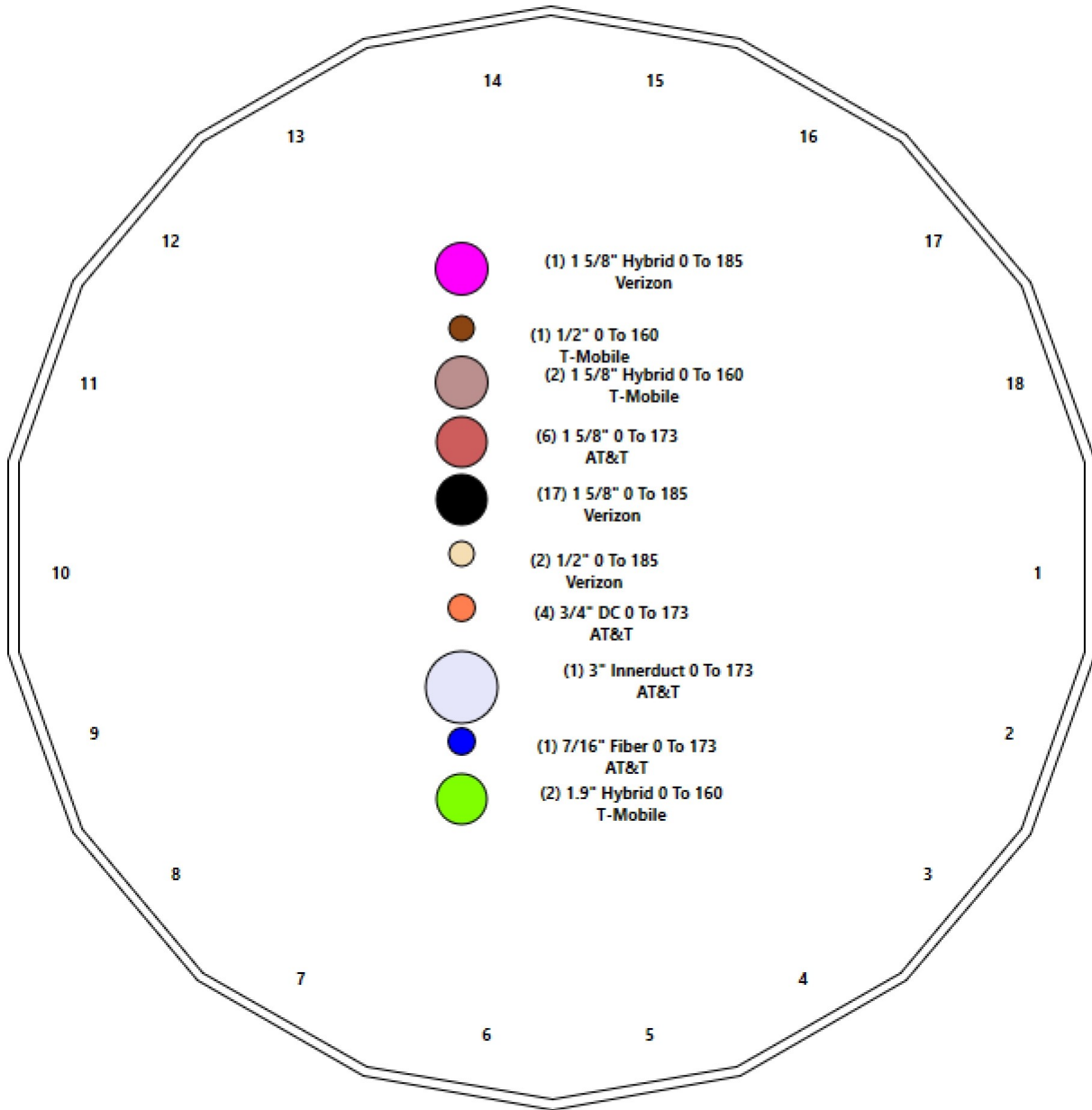




Exhibit 8



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
1320 Greenway Drive, Suite 600, Irving, Texas 75038

Antenna Mount Analysis Report

Existing 194-Ft Monopole Tower

Customer Name: SBA Communications Corp

Customer Site Number: CT12210-A-SBA

Customer Site Name: Goshen 3 CT

Carrier Name: T-Mobile (App#: 262776, V1)

Carrier Site ID / Name: CTNH548A / CTNH548A

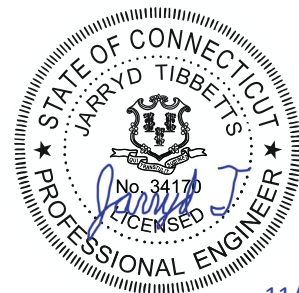
Site Location: 113 Brush Hill Road

Goshen, Connecticut

Litchfield County

Latitude: 41.797172

Longitude: -73.221674



11/4/2024

Analysis Result:

Max Structural Usage: 52.90% [Pass]

Report Prepared By: Sarath Basamsetti

NOTE: The proposed mount SitePro RMQP-4126-HK was assumed to be installed properly to the existing tower per the manufacturer's instructions. Tower Engineering Solutions, LLC is not liable for any fit-up issues during installation.

Introduction

The purpose of this report is to summarize the analysis results on the (1) SitePro1 RMPQ-4126-HK at 160.00' elevation to support the proposed antenna configuration. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Mount Drawings	Mount Assembly Drawing, SitePro1 RMPQ-4126-HK
Antenna Loading	SBA Application #: 226907, v1, dated 5/15/2023
Modification Drawings	N/A

Analysis Criteria

Wind Speed Used in the Analysis: 114 mph (3-Sec. Gust) (Ultimate Wind Speed)

Wind Speed with Ice: 30 mph (3-Sec. Gust) with 1" radial ice concurrent

Service Load Wind Speed: 30 mph +0" Radial ice

Standard/Codes: ANSI/TIA/EIA 222-H/IBC-2021

Exposure Category: C

Risk Category: II

Topographic Category: 1

Crest Height (Ft): 0

Ground Elevation Factor: 0.956

The site is a Risk Category II structure per IBC Table 1604.5. This site does not support emergency communication equipment for first responders such as fire departments, police, hospitals, ambulance services or any of the facilities listed for Risk Categories III and IV. The scope of work detailed in this structural analysis does not include items that are a part of emergency service as the 911 or essential facility service of an emergency response system.

Mount Information

(1) SitePro1 RMPQ-4126-HK at 160.00' elevation.

Final Antenna Configuration

3	RFS APXVAALL24_43-U-NA20
3	RFS APX16DWV-16DWVS-E-A20
3	Ericsson RRUS 11 Band 4
3	Ericsson RRUS11 B2
3	Ericsson 4480 B71 + B85
3	Ericsson 4460 B25 + B66
3	RFS APXVLL19P_43-C-A20

In addition to the proposed equipment loading, a 500 lb serviceability load was also considered in this analysis in accordance with TIA requirements.

Analysis Results

Our calculations have determined that under design wind load the proposed mounts will be structurally adequate to support the proposed antenna configuration. The maximum structural usage is 52.90%, which occurs in the mount pipe. The proposed equipment must be installed as stipulated in the Final Antenna Configuration section of this report. The analysis results are void if the proposed equipment is not installed in accordance with this report.

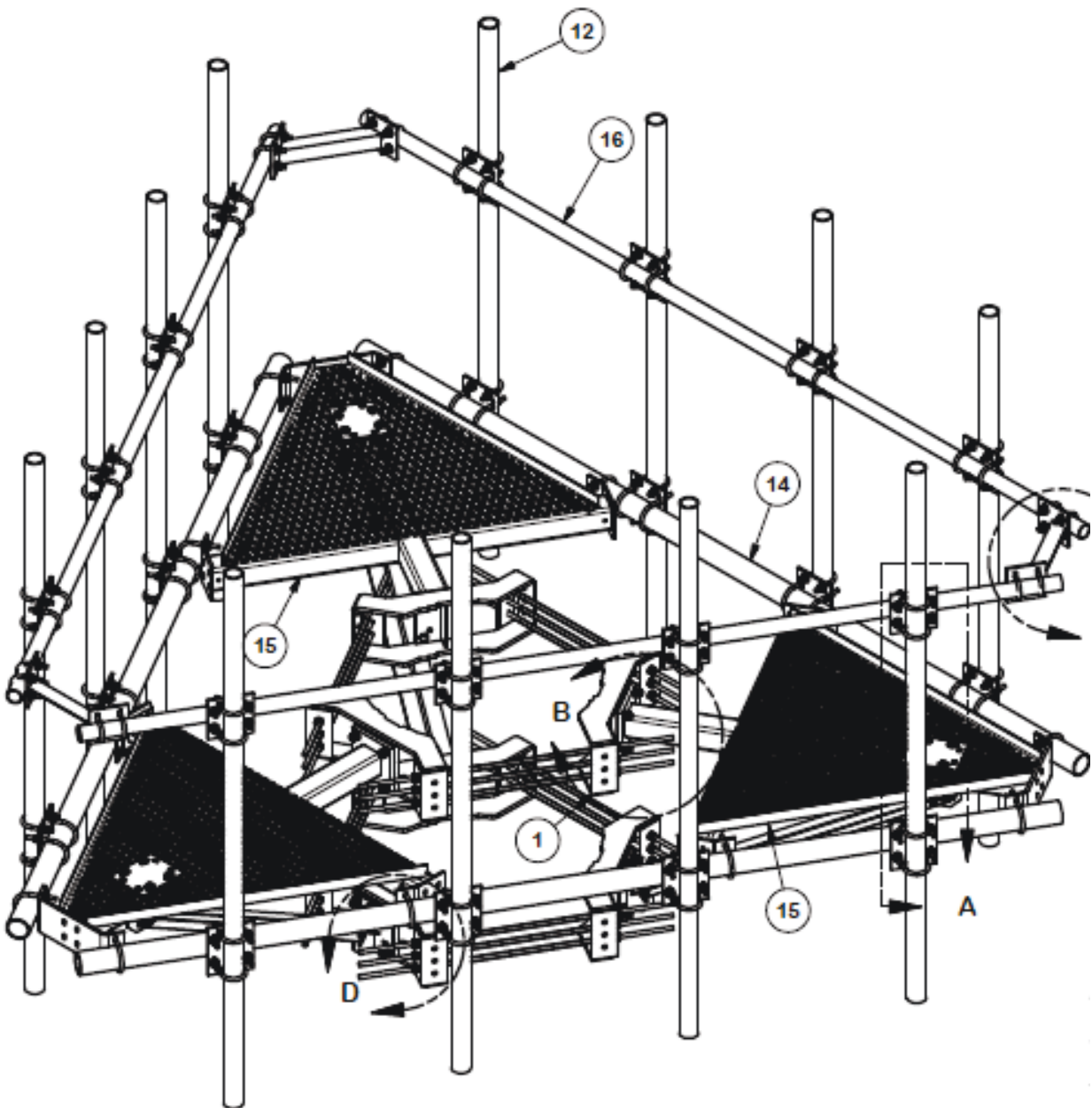
NOTE: The proposed mount SitePro RMQP-4126-HK was assumed to be installed properly to the existing tower per the manufacturer's instructions. Tower Engineering Solutions, LLC is not liable for any fit-up issues during installation.

Attachments

1. Mount Diagrams
2. Antenna Placement Diagram
3. Analysis Calculations

Standard Conditions

1. The loading configuration as analyzed in this report is as provided from the customer. Any deviation from this design shall be communicated to TES to verify deviation will not adversely impact the analysis.
2. The analysis is based on the presumption that the antenna mount members and components along with any existing reinforcement items have been correctly and properly designed, manufactured, installed and maintained.
3. All the existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion. The mount analysis is not a condition assessment of the mount.
4. The mount analysis was performed in accordance with the loading provided, and if applicable the modification required to support the additional loading.
5. If the mount is modified, installation must adhere to the configuration communicated in the modification drawings.
6. The modification drawings are not intended to convey means or methods. These are the responsibility of the installing contractor.
7. Rigging plan review is available if the contractor requires for a construction class IV or other if required. Review fee would apply.
8. The mount modification package was created based upon information provided for the mount loading. The underlying tower is assumed to provide support and sufficient rigidity to support the mount loads as a tower analysis was not part of the mount analysis.
9. TES is not responsible for modifications to climbing facilities unless communicated to TES in writing.



SitePro RMQP-4126-HK

Structure: CT12210-A-SBA - Goshen 3 CT

Sector: **A**

11/3/2024

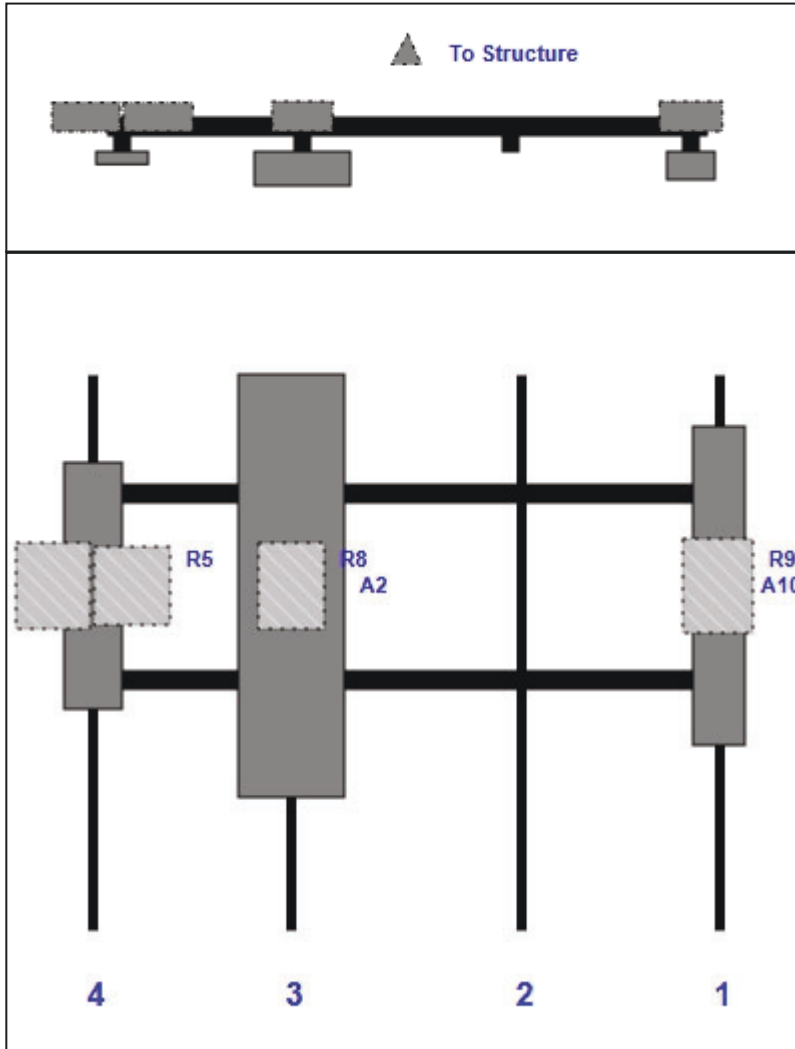
Structure Type: Monopole

Mount Elev: 160.00

Page: 1



Plan View



Front View

Looking Toward Structure

Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A10	APXVLL19P_43-C-A20	72.00	12.00	146.00	1	a	Front	48.00		Added	
R9	4460 B25 + B66	21.80	15.70	146.00	1	a	Behind	48.00		Added	
A2	APXVAALL24_43-U-NA20	95.90	24.00	49.00	3	a	Front	48.00		Retained	
R8	4480 B71 + B85	19.20	15.10	49.00	3	a	Behind	48.00		Retained	
A3	APX16DWV-16DWVS-E-A20	55.90	13.00	4.00	4	a	Front	48.00		Retained	
R5	RRUS 11 Band 4	17.80	17.30	4.00	4	a	Behind	48.00	9.00	Retained	
R6	RRUS11 B2	19.70	17.00	4.00	4	a	Behind	48.00	-9.00	Retained	

Structure: CT12210-A-SBA - Goshen 3 CT

Sector: **B**

11/3/2024

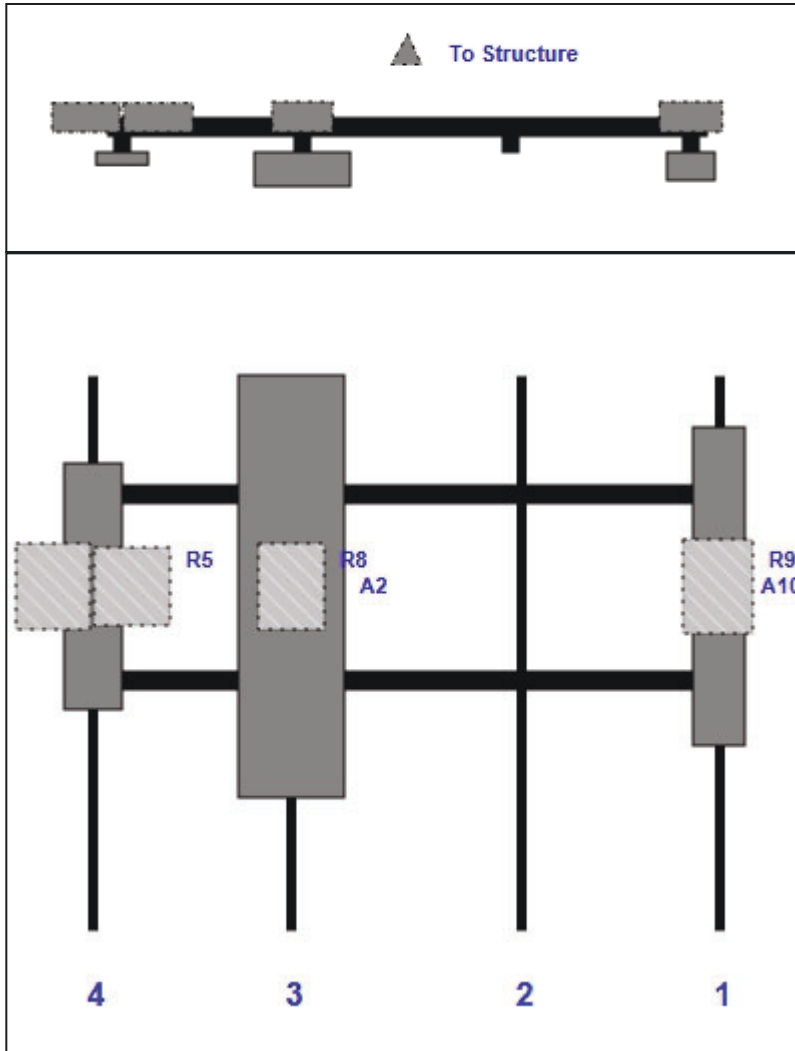
Structure Type: Monopole

Mount Elev: 160.00

Page: 2



Plan View



Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A10	APXVLL19P_43-C-A20	72.00	12.00	146.00	1	a	Front	48.00		Added	
R9	4460 B25 + B66	21.80	15.70	146.00	1	a	Behind	48.00		Added	
A2	APXVAALL24_43-U-NA20	95.90	24.00	49.00	3	a	Front	48.00		Retained	
R8	4480 B71 + B85	19.20	15.10	49.00	3	a	Behind	48.00		Retained	
A3	APX16DWV-16DWVS-E-A20	55.90	13.00	4.00	4	a	Front	48.00		Retained	
R5	RRUS 11 Band 4	17.80	17.30	4.00	4	a	Behind	48.00	9.00	Retained	
R6	RRUS11 B2	19.70	17.00	4.00	4	a	Behind	48.00	-9.00	Retained	

Structure: CT12210-A-SBA - Goshen 3 CT

Sector: **C**

11/3/2024

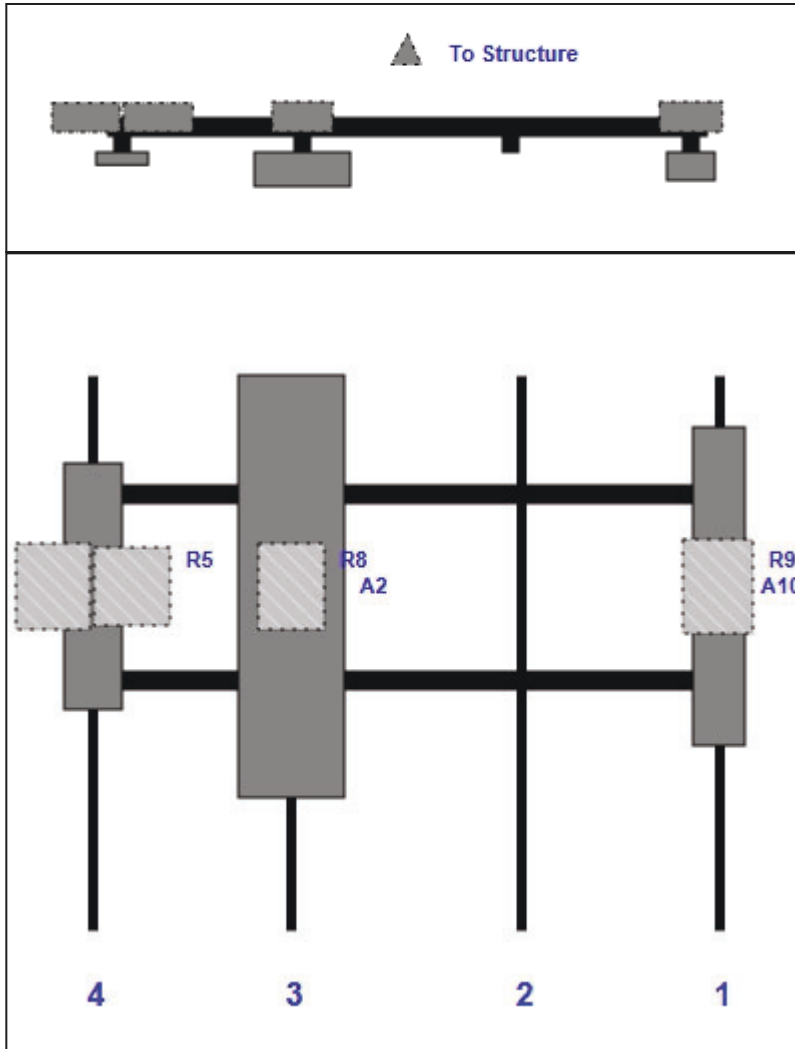
Structure Type: Monopole

Mount Elev: 160.00

Page: 3



Plan View



Ref #	Model	Height (in)	Width (in)	H Dist Left	Pipe #	Pipe Pos V	Pos	From Top	H Offset	Status	Validation
A10	APXVLL19P_43-C-A20	72.00	12.00	146.00	1	a	Front	48.00		Added	
R9	4460 B25 + B66	21.80	15.70	146.00	1	a	Behind	48.00		Added	
A2	APXVAALL24_43-U-NA20	95.90	24.00	49.00	3	a	Front	48.00		Retained	
R8	4480 B71 + B85	19.20	15.10	49.00	3	a	Behind	48.00		Retained	
A3	APX16DWV-16DWVS-E-A20	55.90	13.00	4.00	4	a	Front	48.00		Retained	
R5	RRUS 11 Band 4	17.80	17.30	4.00	4	a	Behind	48.00	9.00	Retained	
R6	RRUS11 B2	19.70	17.00	4.00	4	a	Behind	48.00	-9.00	Retained	





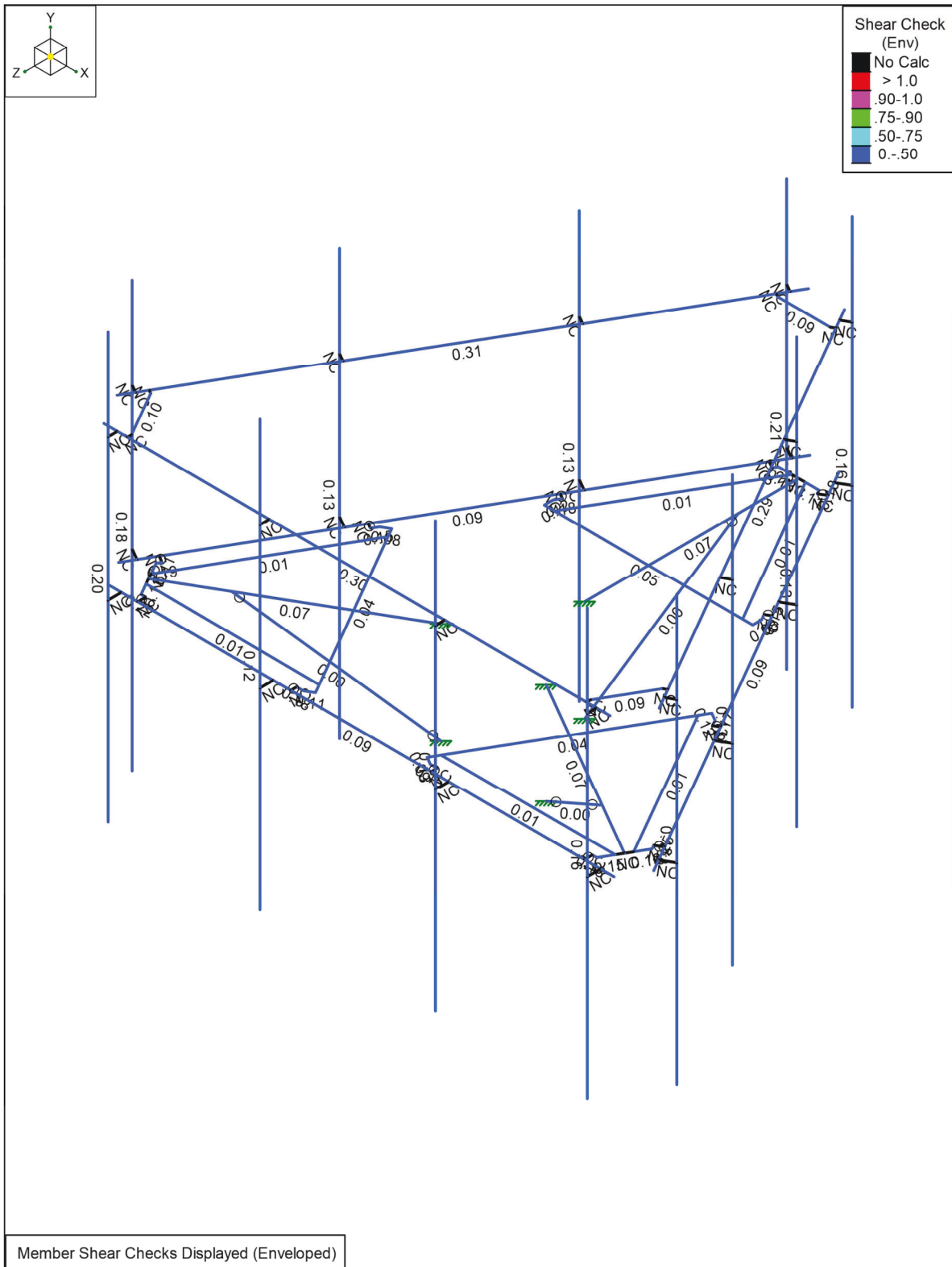




Exhibit 9

T-Mobile

APPROVALS			
PROJECT MANAGER:	DATE:	ZONING/SITE ACQ.:	DATE:
CONSTRUCTION:	DATE:	OPERATIONS:	DATE:
RF ENGINEERING:	DATE:	TOWER OWNER:	DATE:

T-MOBILE TECHNICIAN SITE SAFETY NOTES	
LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS BY CERTIFIED CLIMBER
SECTOR B:	ACCESS BY CERTIFIED CLIMBER
SECTOR C:	ACCESS BY CERTIFIED CLIMBER
SECTOR D:	ACCESS BY CERTIFIED CLIMBER
GPS/LMU:	UNRESTRICTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T DEMARC:	UNRESTRICTED
OTHER/SPECIAL:	NONE

GENERAL NOTES	
1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.	SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.	13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OWNPOINT REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.	14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.	15. THE CONTRACTOR SHALL NOTIFY THE PROJECT OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BID OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.	17. ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.	
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.	
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.	
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.	
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.	
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR	

AT LEAST 72 HOURS PRIOR TO DIGGING, THE CONTRACTOR IS REQUIRED TO CALL DIG SAFE AT 811



VICINITY MAP	
SCALE: 1" = 1000'	
DIRECTIONS	
FROM NORTON, TAKE I-495 NORTH TOWARD MANSFIELD/MARLBORO. TAKE EXIT 58 FOR I-90 WEST TOWARD ALBANY. USE RIGHT 2 LANES FOR EXIT 78 FOR I-84 TOWARD HARTFORD CT/NEW YORK CITY. CONTINUE ONTO I-84. TAKE EXIT 39 TOWARD FARMINGTON. CONTINUE ONTO STATE HIGHWAY 508. TAKE SLIGHT RIGHT ONTO CT-4 WEST. TURN RIGHT ONTO CT-177 NORTH. TAKE SLIGHT LEFT ONTO CT-4 WEST. TURN LEFT TO STAY ON CT-4. CONTINUE ONTO CT-118 WEST. TAKE SLIGHT RIGHT ONTO EAST STREET. TURN RIGHT ONTO NORTH STREET. CONTINUE ONTO GOSHEN ROAD. TURN LEFT ONTO BRUSH HILL ROAD. SITE IS LOCATED ON THE LEFT HAND SIDE	

SHEET INDEX		
SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND & EQUIPMENT PLANS	1
A-2	TOWER ELEVATIONS & ANTENNA PLANS	1
A-3	SITE DETAILS	1
RF-1	RF DATA	1
E-1	ELECTRIC & GROUNDING DETAILS	1
DO NOT SCALE DRAWINGS		
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.		

SCOPE OF WORK	
REMOVE:	INSTALL:
<ul style="list-style-type: none">(1) TRIPLE T-ARM MOUNT(3) ANTENNAS(6) RADIOS(2) HYBRID CABLES(3) COAXIAL CABLES(1) RBS6102 MU AC EQUIPMENT CABINET	<ul style="list-style-type: none">(1) LOW-PROFILE PLATFORM(3) ANTENNAS(3) RADIOS(2) HYBRID CABLES(1) SLACKBOX FOR FIBER MANAGEMENT(1) 6160 V2 AC EQUIPMENT CABINET(1) B160 BATTERY CABINETRAN EQUIPMENT (REFER TO SHEET RF-1)(1) CIRCUIT BREAKER
RELOCATE:	
<ul style="list-style-type: none">(3) ANTENNAS(3) RADIOS	
SITE NOTES	
<ol style="list-style-type: none">THIS IS AN UNMANNED AND RESTRICTED ACCESS TELECOMMUNICATION FACILITY, AND IS NOT FOR HUMAN HABITATION. IT WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNAL FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE.<ul style="list-style-type: none">ADA COMPLIANCE NOT REQUIRED.POTABLE WATER OR SANITARY SERVICE IS NOT REQUIRED.NO OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES REQUIRED.CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON JOB SITE. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. FAILURE TO NOTIFY THE ARCHITECT/ENGINEER PLACE THE RESPONSIBILITY ON THE CONTRACTOR TO CORRECT THE DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.NEW CONSTRUCTION WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.<ul style="list-style-type: none">BUILDING CODE: 2022 CONNECTICUT STATE BUILDING CODEELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODESTRUCTURAL CODE: TIA/EIA-222-H STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.	

PROJECT SUMMARY	
SITE NUMBER:	CTNH548A
SITE NAME:	CTNH548A
SBA SITE NUMBER:	CT12210-A
SBA SITE NAME:	GOSHEN 3, CT
SBA COLLO APP NUMBER:	N/A
SITE ADDRESS:	113 BRUSH HILL ROAD GOSHEN, CT 06756
PROPERTY OWNER:	WOODRIDGE SEWER DISTRICT 113 BRUSH HILL ROAD GOSHEN, CT 06756
TOWER OWNER:	SBA TOWERS V, LLC 8501 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561-226-9523
COUNTY:	LITCHFIELD
ZONING DISTRICT:	RA5 (RESIDENTIAL)
STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	195'±
STRUCTURE HEIGHT W/APPERT.:	200'±
GROUND ELEVATION:	1,241±
TOTAL AMSL:	1,441±
APPLICANT:	T-MOBILE NORTHEAST LLC 15 COMMERCE WAY, SUITE B NORTON, MA 02766
ARCHITECT:	CHAPPELL ENGINEERING ASSOCIATES, LLC 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
STRUCTURAL ENGINEER:	CHAPPELL ENGINEERING ASSOCIATES, LLC 201 BOSTON POST ROAD WEST, SUITE 101 MARLBOROUGH, MA 01752
SITE CONTROL POINT:	LATITUDE: 41.79717° N41°47'49.81" LONGITUDE: -73.22167° W73°13'18.01"
SPECIAL ZONING NOTE: BASED ON INFORMATION PROVIDED BY T-MOBILE REGULATORY COMPLIANCE PROFESSIONALS AND LEGAL COUNSEL, THIS TELECOMMUNICATIONS EQUIPMENT DEPLOYMENT IS CONSIDERED AN ELIGIBLE FACILITY UNDER THE MIDDLE CLASS TAX RELIEF AND JOB CREATION ACT OF 2012, 47 USC 1455(A), SECTION 6409(A), AND IS SUBJECT TO AN ELIGIBLE FACILITY REQUEST, EXPEDITED REVIEW, AND LIMITED/PARTIAL ZONING PRE-EMPTION FOR LOCAL DISCRETIONARY PERMITS (VARIANCE, SPECIAL PERMIT, SITE PLAN REVIEW, OR ADMINISTRATIVE REVIEW).	

T-Mobile

15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700

SBA

SBA COMMUNICATIONS CORP.
134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251-0720

CHAPPELL
ENGINEERING
ASSOCIATES, LLC

Civil Structural-Land Surveying

R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com

STATE OF CONNECTICUT
CEMENT J. SAKS
2025
LICENSED
PROFESSIONAL ENGINEER

CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	11/25/24	ISSUED FOR CONSTRUCTION	CNC
0	08/26/24	ISSUED FOR REVIEW	NWC

SITE NUMBER:
CTNH548A

SITE ADDRESS:
113 BRUSH HILL ROAD
GOSHEN, CT 06756

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

1815.564

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – T–MOBILE
SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)
OWNER – T–MOBILE
OEM – ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR 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.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
13. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
14. SUBCONTRACTOR SHALL NOTIFY CHAPPELL ENGINEERING ASSOCIATES, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
15. CONSTRUCTION SHALL COMPLY WITH ALL T–MOBILE STANDARDS AND SPECIFICATIONS.
16. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
17. THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
18. IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. 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 ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR 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.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
6. 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.
7. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
8. 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 ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
9. 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 IN THE PROJECT SPECIFICATIONS.
10. SUBCONTRACTOR 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.
11. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T–MOBILE SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST–IN–PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (400PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER2 IN.
#5 AND SMALLER & WWF1½ IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER
OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL¾ IN.
BEAMS AND COLUMNS½ IN.
5. A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
7. CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER;
(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
8. AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
9. EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND T–MOBILE SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM–A–36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (¾") AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
4. NON–STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ¾" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
6. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
3. AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
5. AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND–OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E). AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL–GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT:

1. HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

1. FIELD VERIFICATION:
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T–MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
2. COORDINATION OF WORK:
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
3. CABLE LADDER RACK:
SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

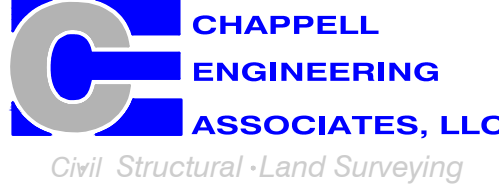
1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER–STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, ½ INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN–2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN–2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN–2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND NEC.
24. CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY–COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED, OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.



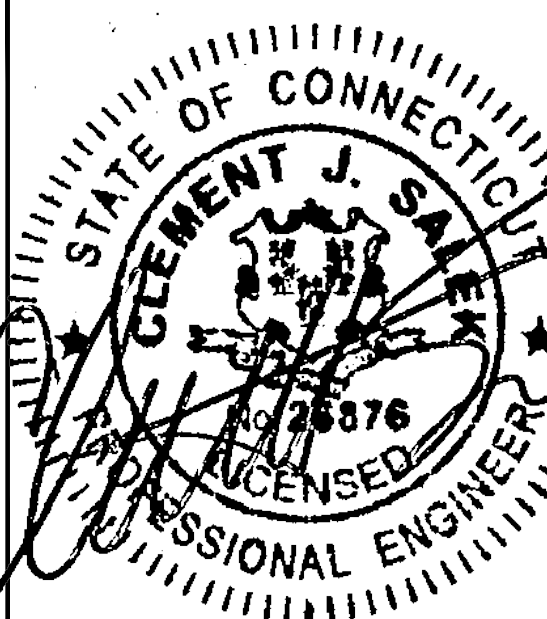
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(508) 286–2700



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134 FLANDERS ROAD, SUITE 125
WESTBOROUGH, MA 01581
(508) 251–0720



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SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	11/25/24	ISSUED FOR CONSTRUCTION	CMC
0	08/26/24	ISSUED FOR REVIEW	NWC

SITE NUMBER:
CTNH548A

SITE ADDRESS:
113 BRUSH HILL ROAD
GOSHEN, CT 06756

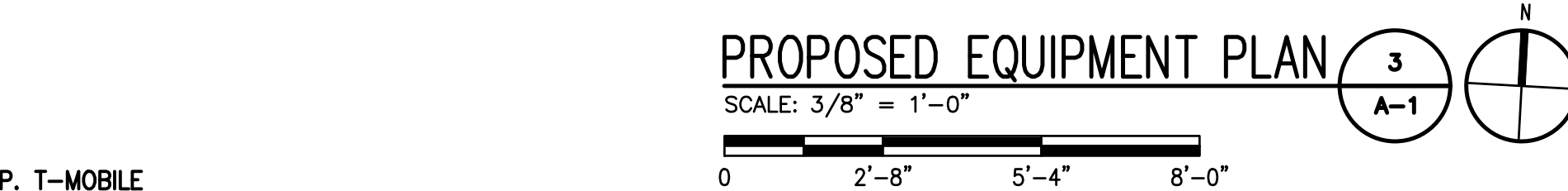
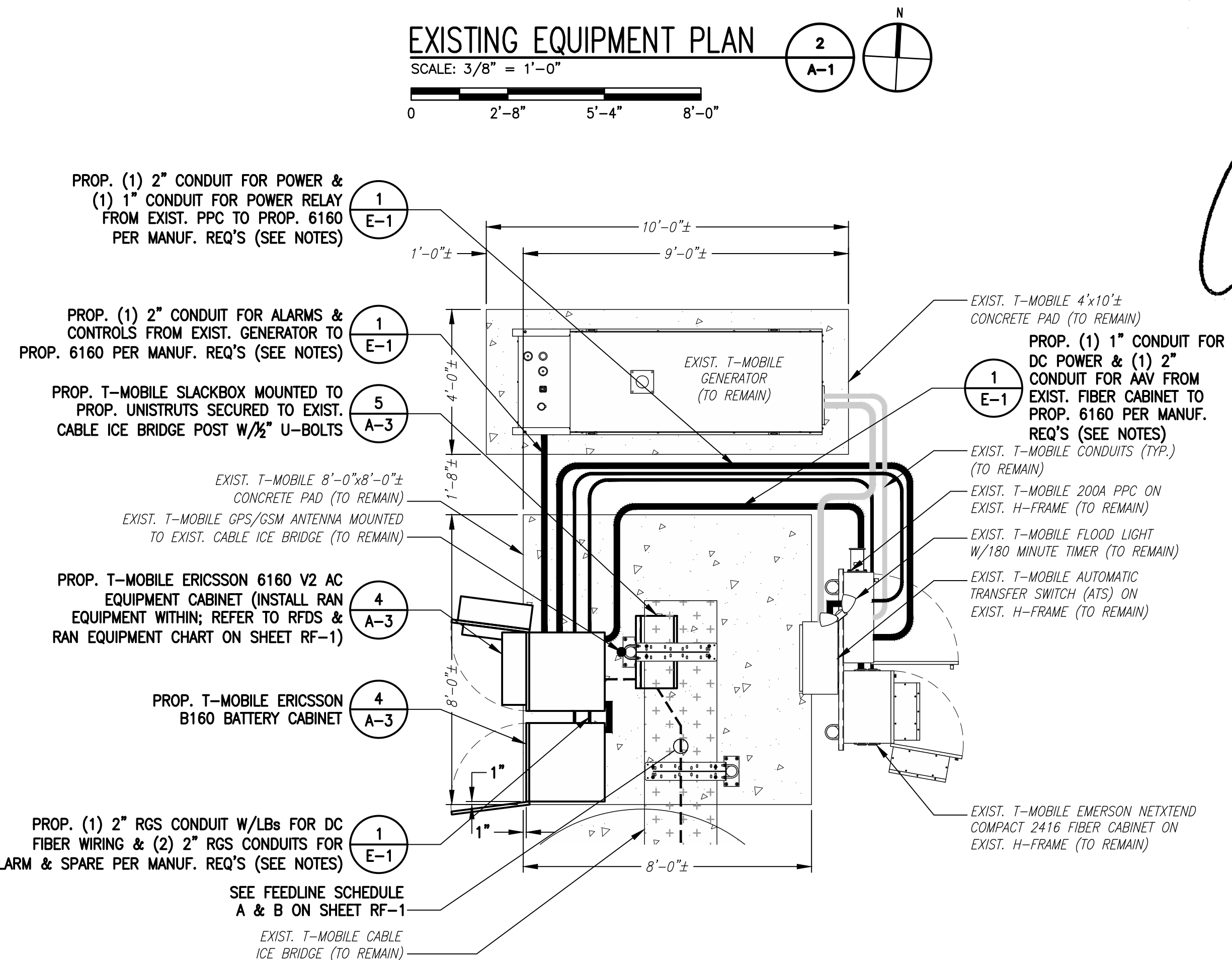
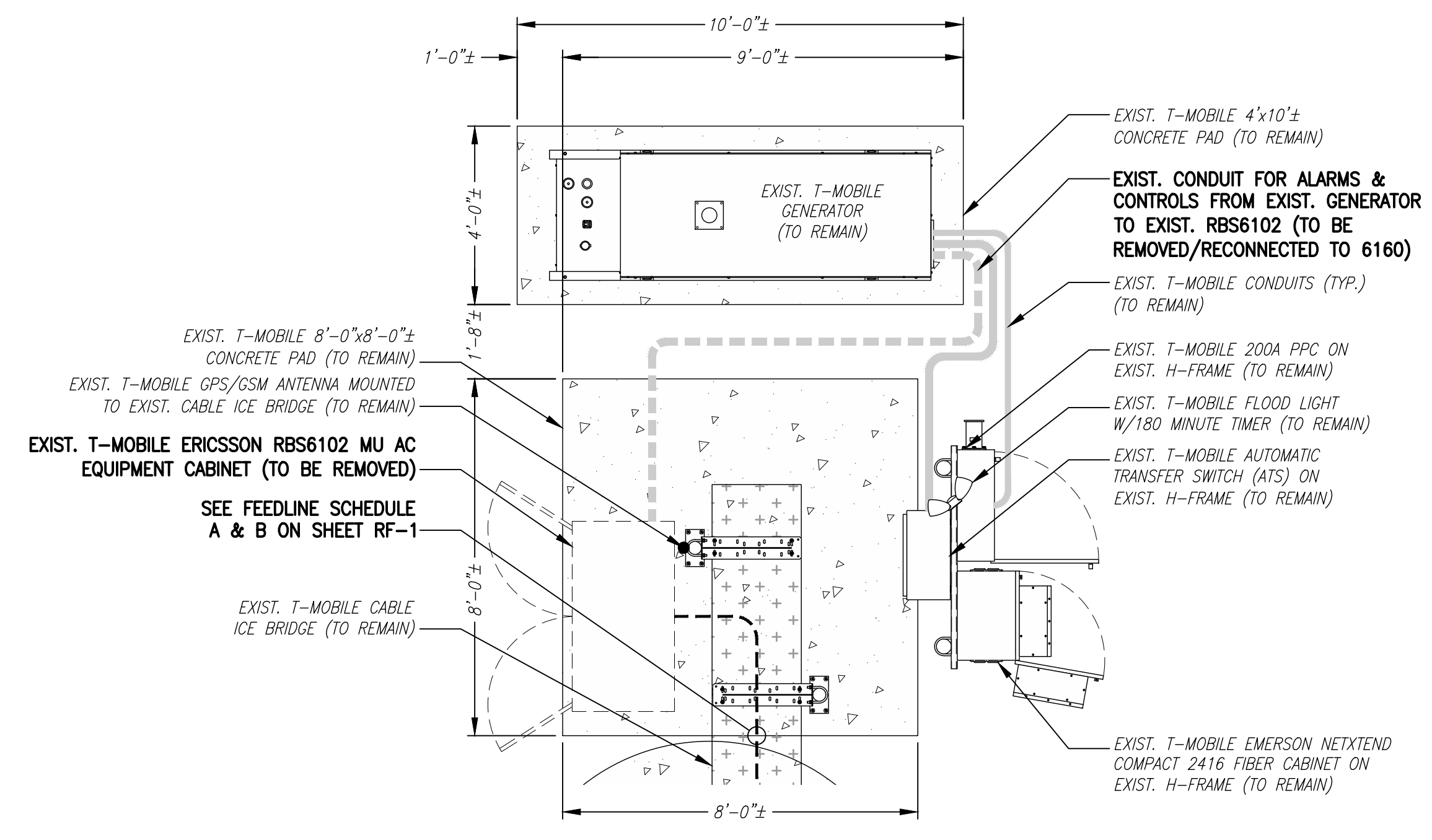
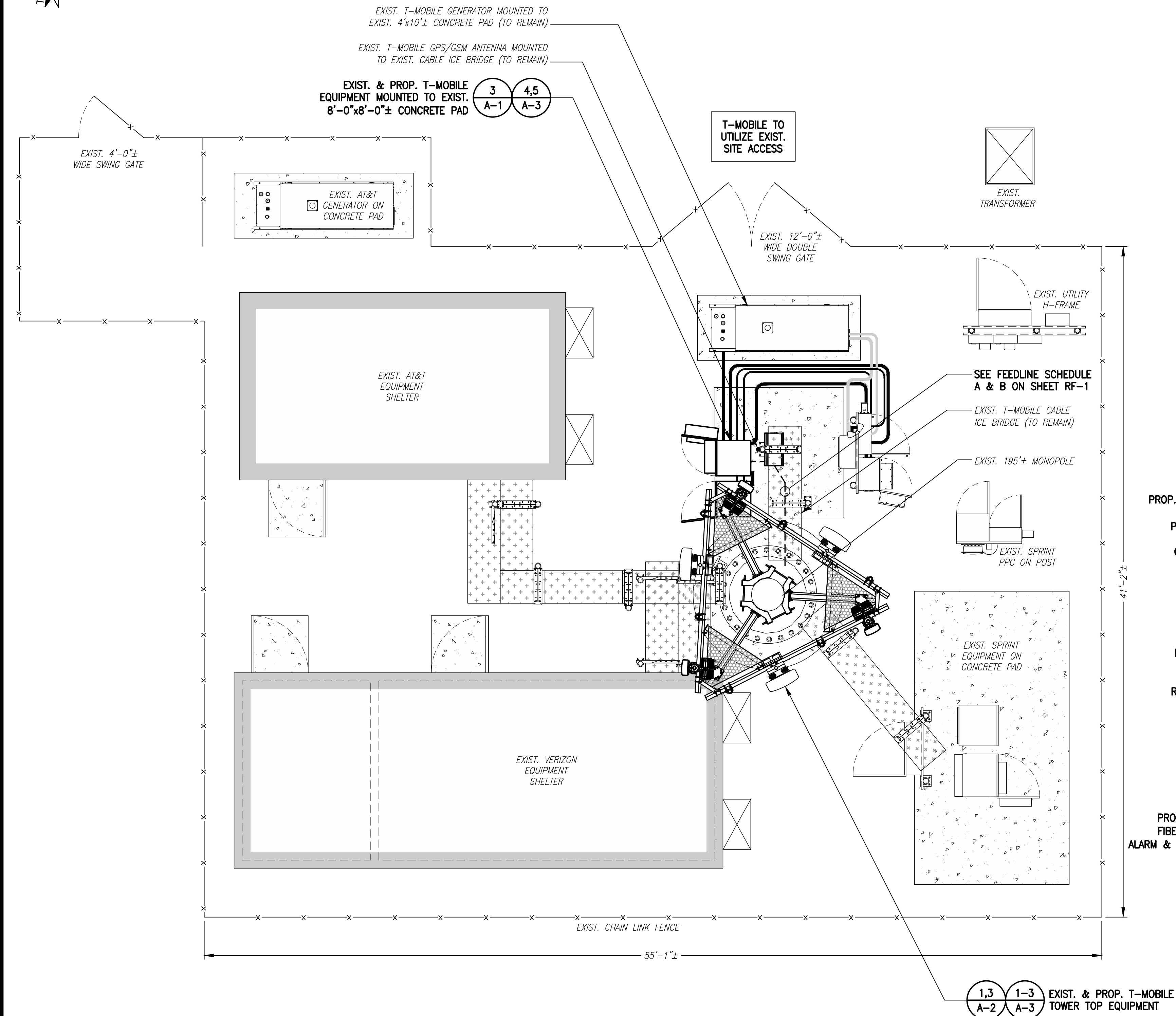
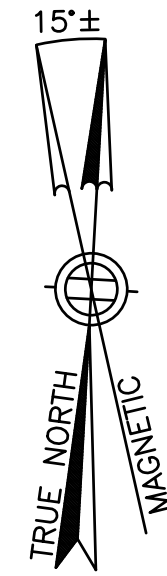
SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY SPECIAL SHIELDING OF TOWER TOP EQUIPMENT AND FOR ANY SPECIAL FEEDLINE BUNDLING OR RELOCATION.



CONDUIT NOTES:

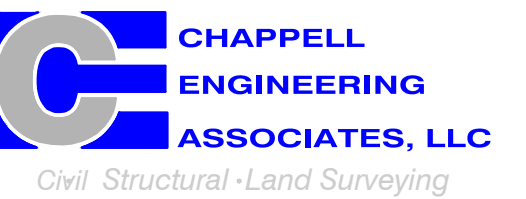
1. ALL EXISTING CONDUITS FROM EXISTING RBS6102 SHALL BE REMOVED.
2. ALL NEW CONDUITS SHALL BE ROUTED UNDERGROUND TO AVOID TRIP HAZARD, WHERE APPLICABLE.
3. ALL UNDERGROUND CONDUITS SHALL BE PVC. ALL ABOVEGROUND CONDUITS SHALL BE RGS.



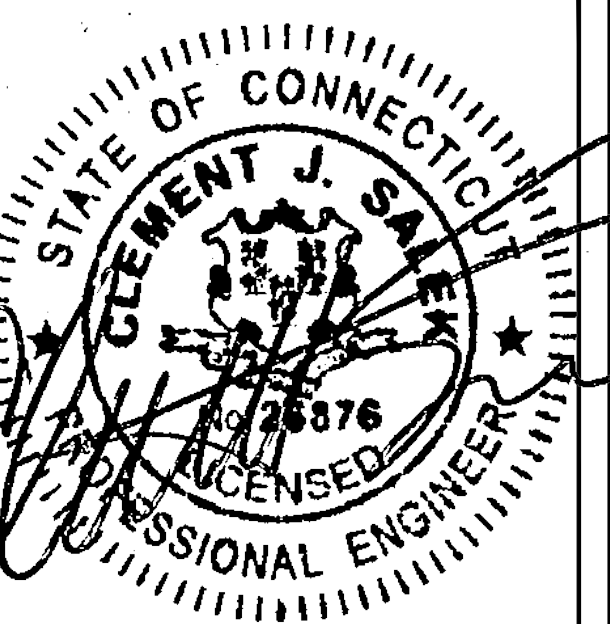
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SITE NUMBER:
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SITE ADDRESS:
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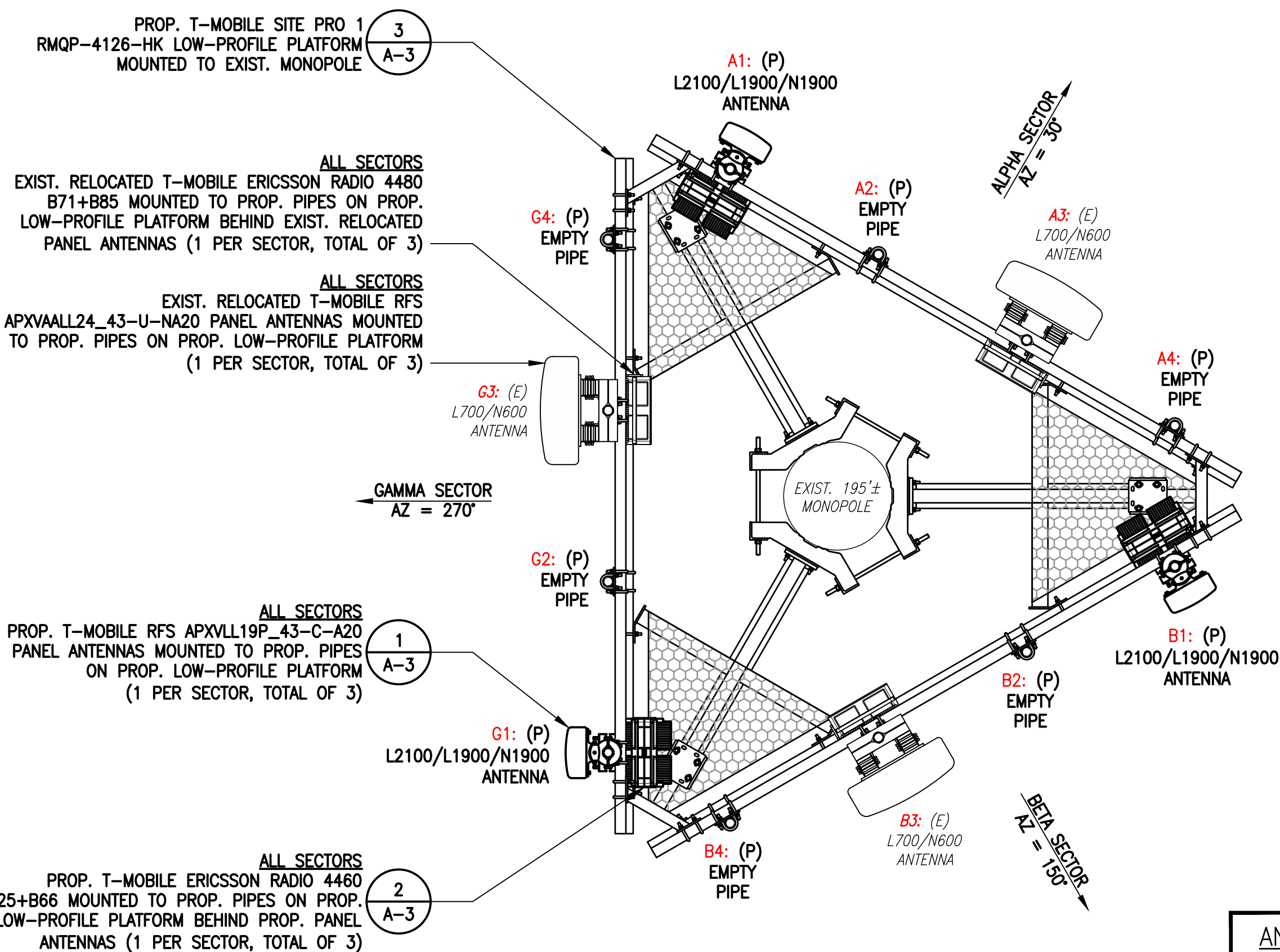
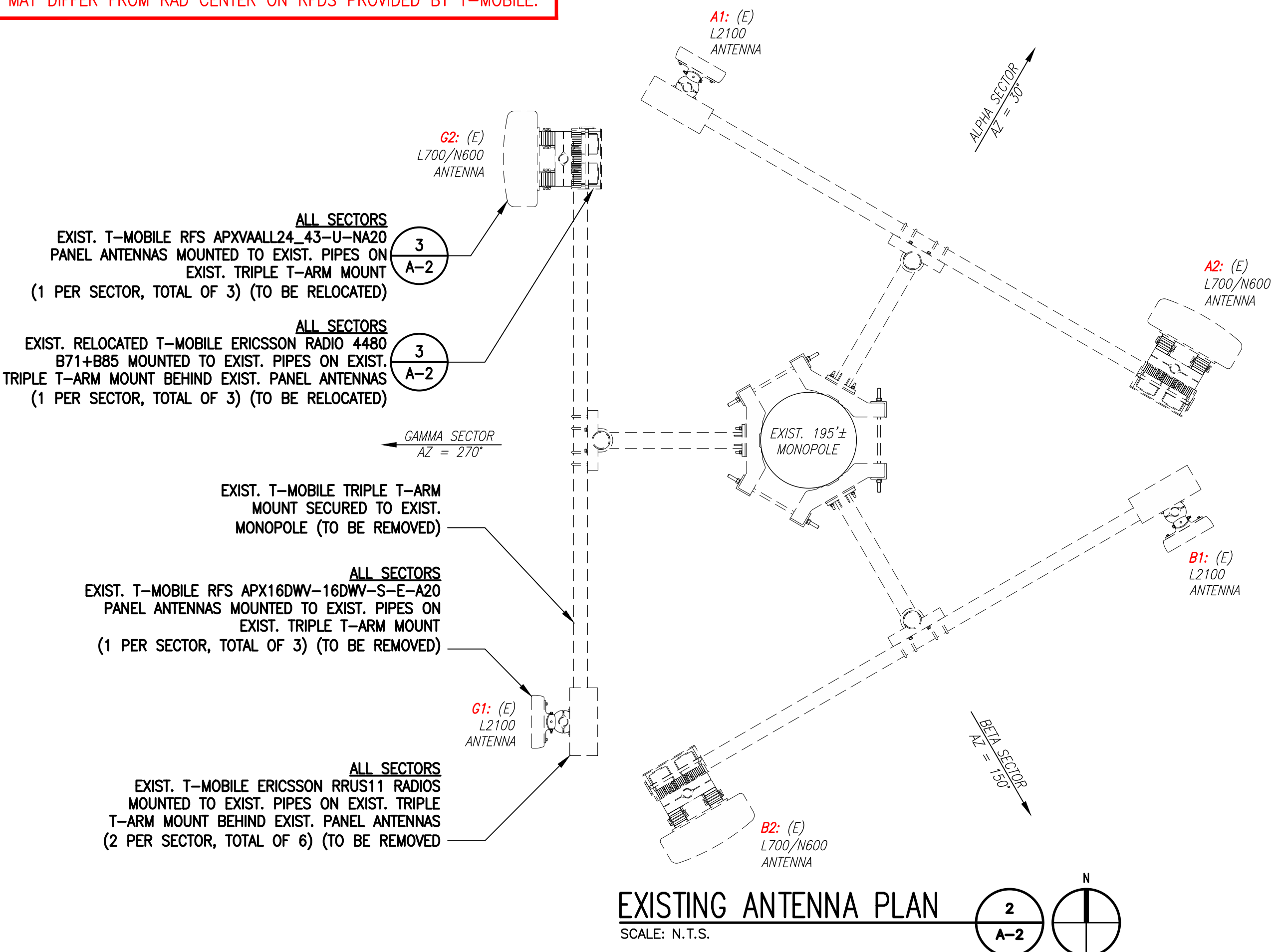
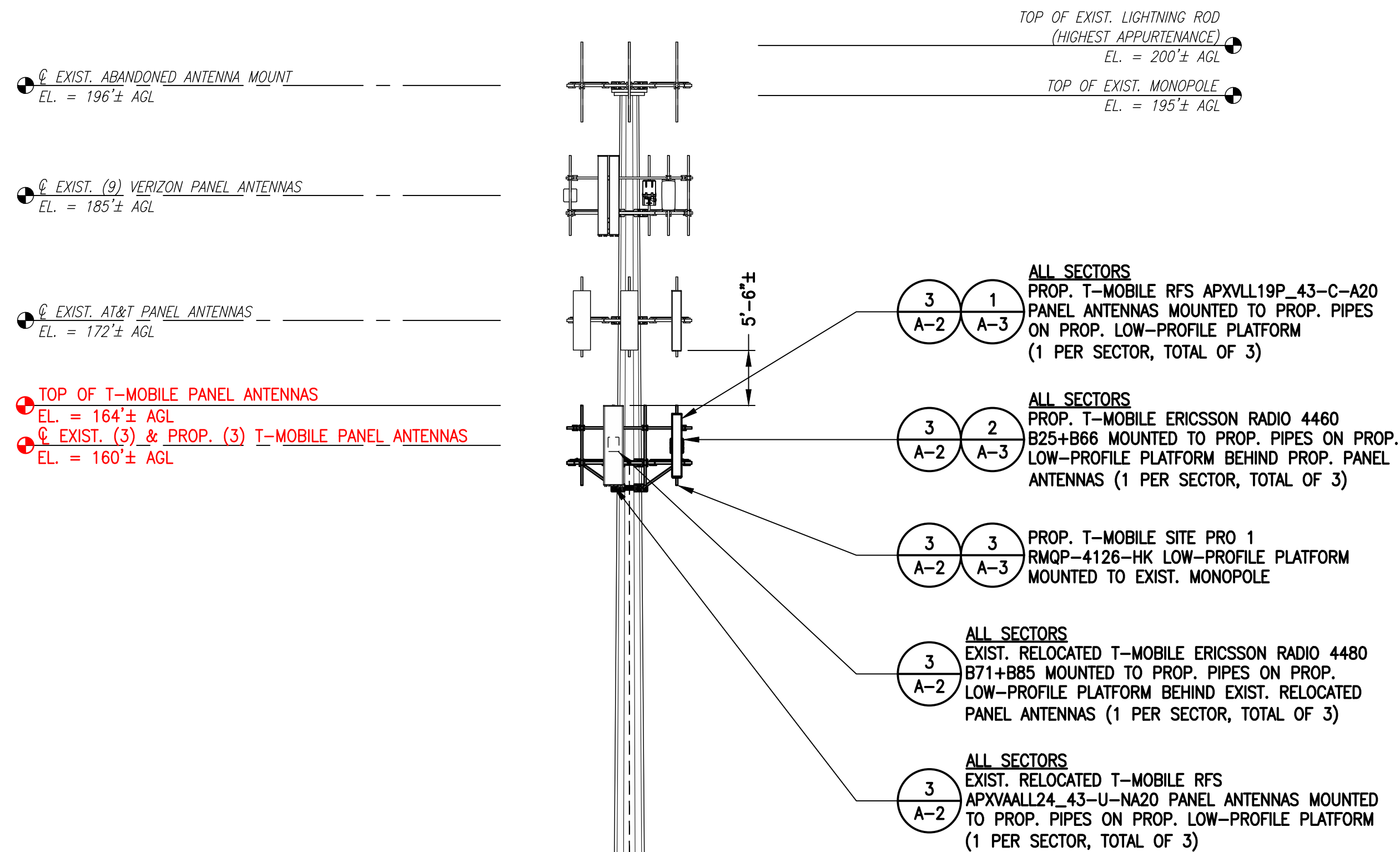
COMPOUND & EQUIPMENT PLANS

SHEET NUMBER

A-1

SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
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RAD CENTER NOTE:
T-MOBILE ANTENNA AND MOUNT RAD CENTER SHOWN IN ELEVATION
ARE ACCORDING TO STRUCTURAL ANALYSIS DONE BY OTHERS AND
MAY DIFFER FROM RAD CENTER ON RFDS PROVIDED BY T-MOBILE.



NOTE:
VERIFY PROPOSED AZIMUTHS
WITH RF ENGINEER PRIOR
TO INSTALLATION.

ANTENNA STATUS LEGEND:

EMPTY - EMPTY PIPE

(E) - EXISTING

(P) - INSTALL

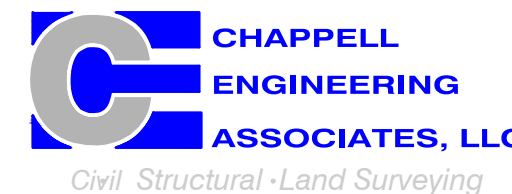
(F) - FUTURE

T-Mobile

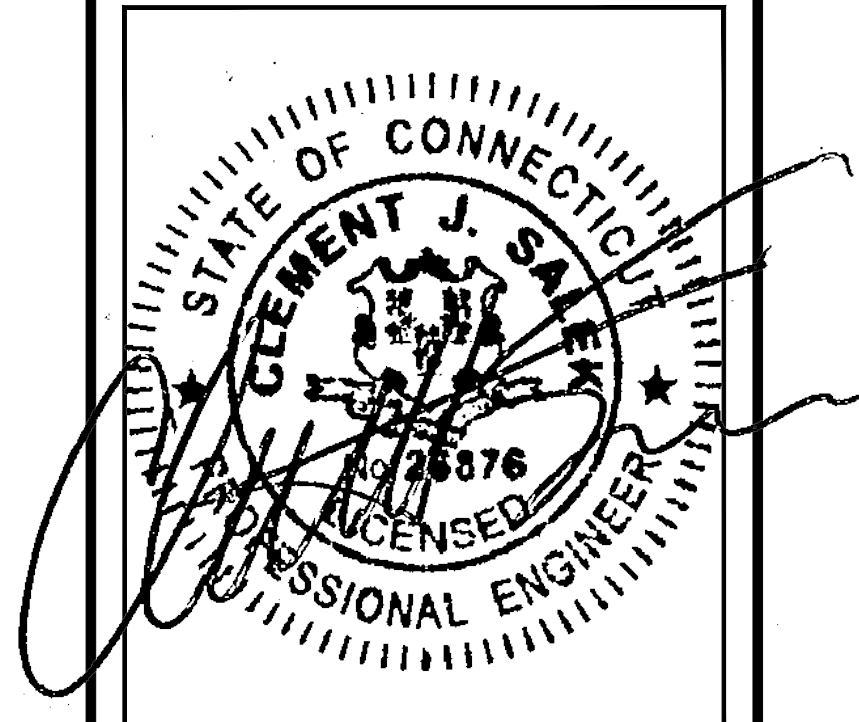
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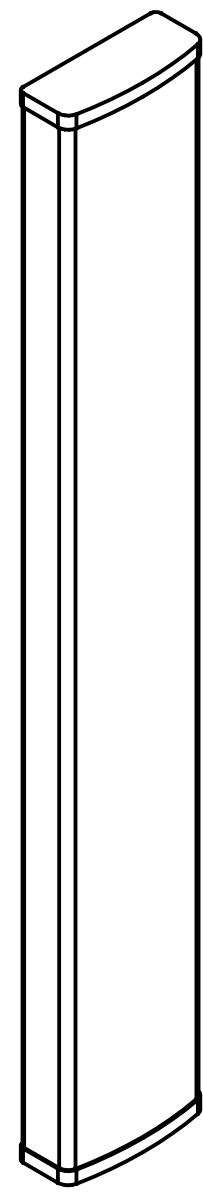
SITE ADDRESS:
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GOSHEN, CT 06756

SHEET TITLE

TOWER ELEVATION &
ANTENNA PLANS

SHEET NUMBER

A-2



RFS APXVLL19P 43-C-A20 ANTENNA

DIMENSIONS: 75.8"H x 11.3"W x 4.6"D
WEIGHT: 49.3 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3
SECTORS: ALPHA, BETA, GAMMA

ANTENNA DETAILS

SCALE: N.T.S.

1
A-3



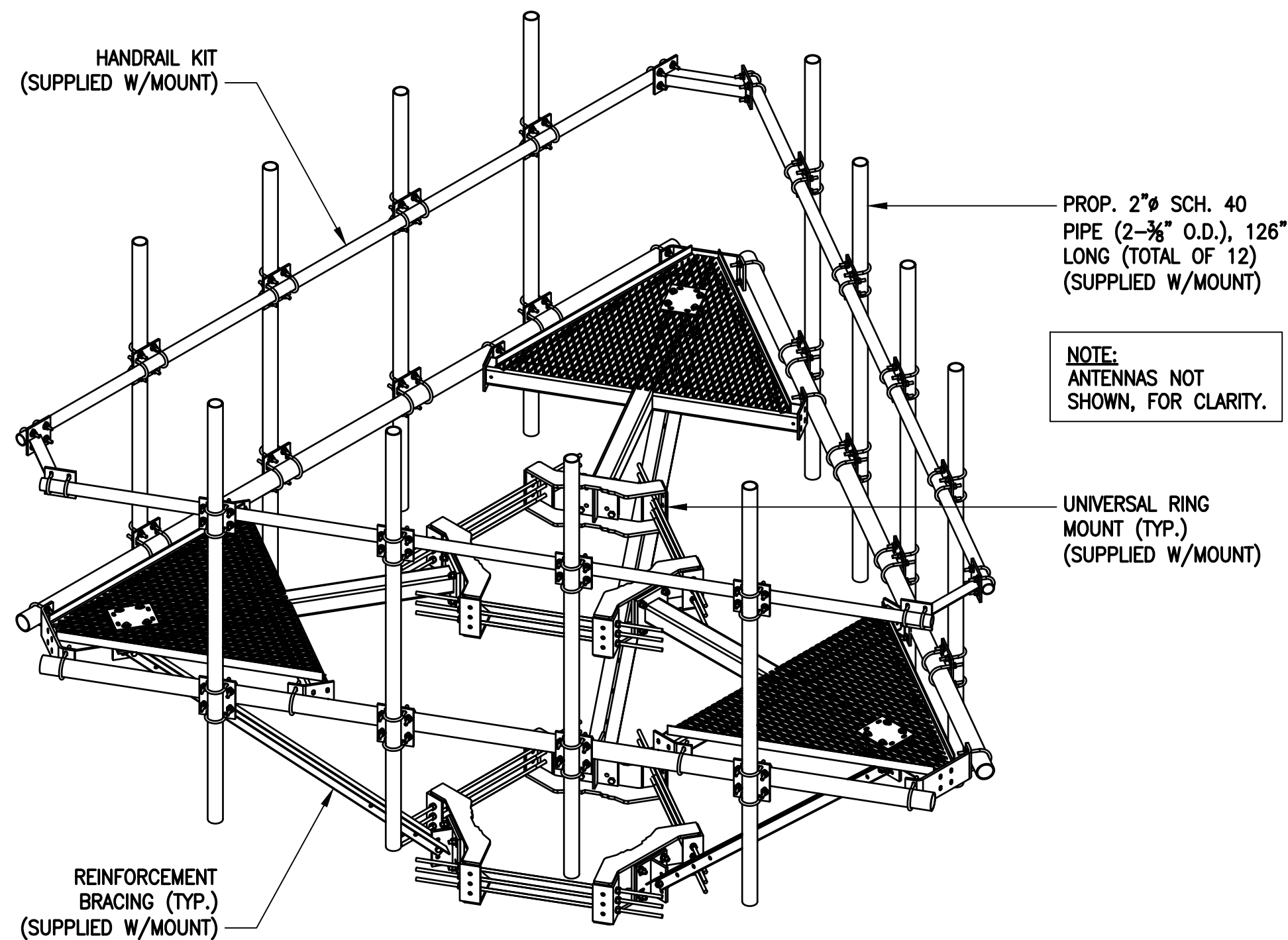
ERICSSON RADIO 4460 B25+B66

DIMENSIONS: 17.0"H x 15.1"W x 11.9"D
WEIGHT: 104.0 lbs
QUANTITY: 1 PER SECTOR, TOTAL OF 3
SECTORS: ALPHA, BETA, GAMMA

RADIO DETAIL

SCALE: N.T.S.

2
A-3



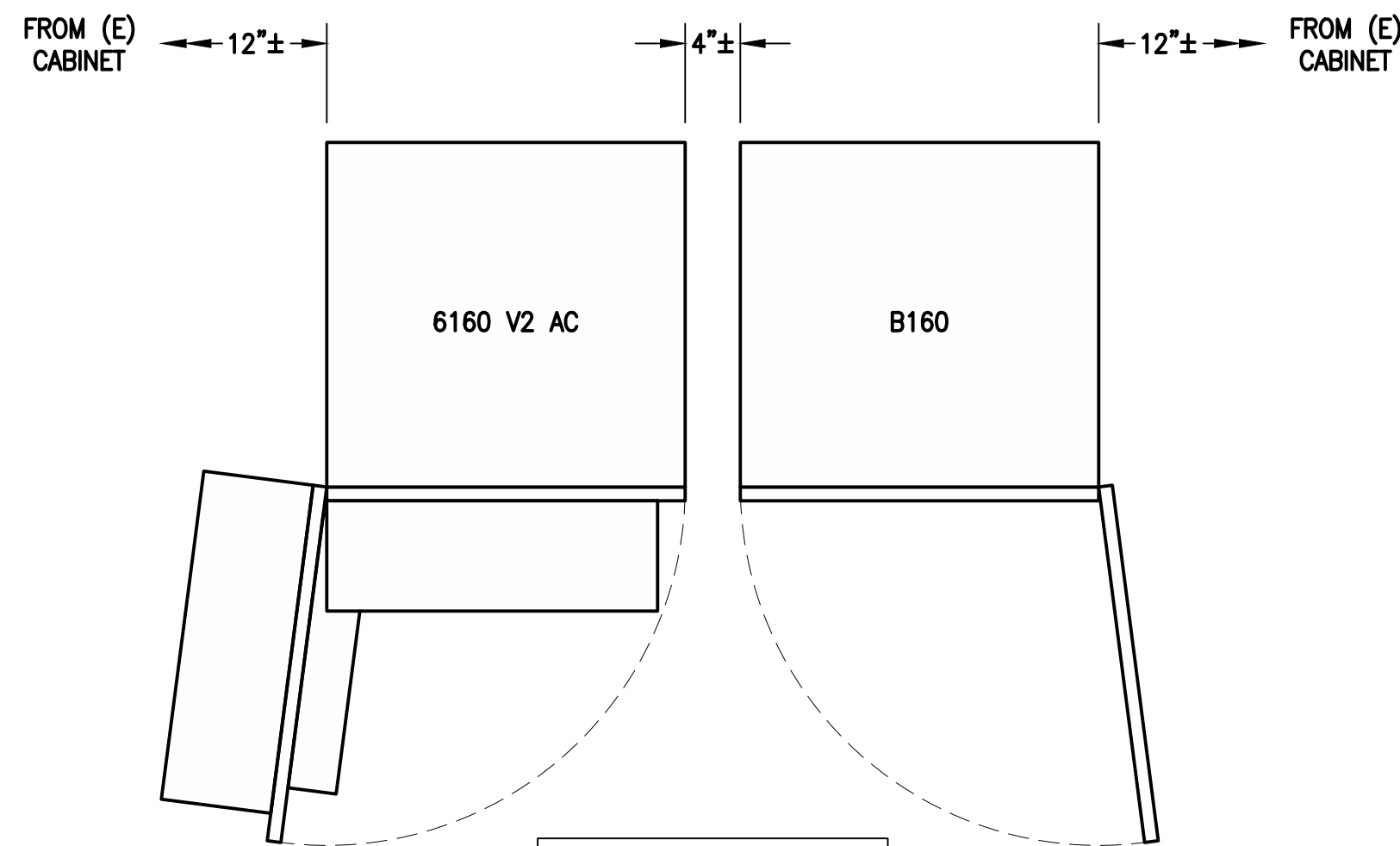
**SITE-PRO 1 12'-6" LOW-PROFILE
CO-LOCATION PLATFORM W/HANDRAIL KIT**

PART NUMBER: RMQP-4126-HK
QUANTITY: TOTAL OF 1

ANTENNA MOUNT DETAIL

SCALE: N.T.S.

3
A-3



**ERICSSON 6160 V2 AC
EQUIPMENT CABINET**

DIMENSIONS: 63.25"H x 26.0"W x 34.0"D
QUANTITY: TOTAL OF 1

**ERICSSON B160
BATTERY CABINET**

DIMENSIONS: 63.25"H x 26.0"W x 26.0"D
QUANTITY: TOTAL OF 1

EQUIPMENT DETAIL

SCALE: N.T.S.

4
A-3



**SLACKBOX - HOFFMAN 32FH91
NEMA 3R ENCLOSURE**

DIMENSIONS: 24.0"H x 24.0"W x 12.0"D
QUANTITY: TOTAL OF 1

SSC DETAILS

SCALE: N.T.S.

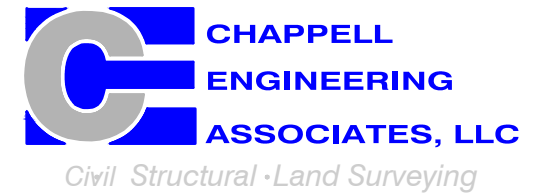
5
A-3



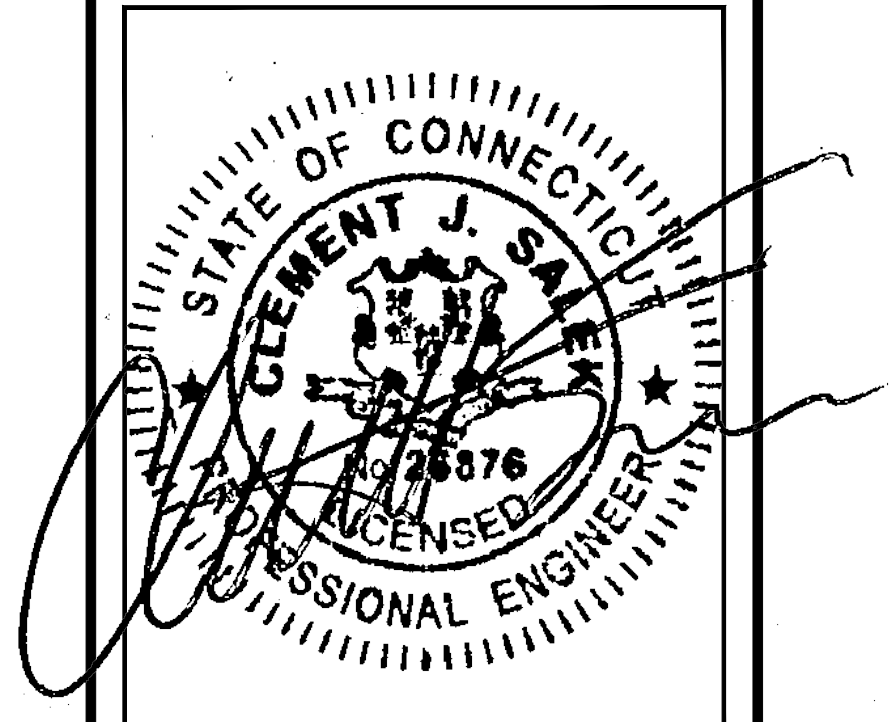
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(508) 286-2700



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(508) 251-0720



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MARLBOROUGH, MA 01752
(508) 481-7400
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CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	11/25/24	ISSUED FOR CONSTRUCTION	CMC
0	08/26/24	ISSUED FOR REVIEW	NWC

SITE NUMBER:
CTNH548A

SITE ADDRESS:
113 BRUSH HILL ROAD
GOSHEN, CT 06756

SHEET TITLE

SITE DETAILS

SHEET NUMBER

A-3

FINAL ANTENNA CONFIGURATION								
SECTOR	ANTENNA	RAD CENTER	AZIMUTH (TRUE NORTH)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	BAND	SBTS/TMAS/MULTIPLEXERS/RADIOS	CABLES
ALPHA	A1 RFS APXVLL19P_43-C-A20	160'± AGL	30°	-	-	L2100/L1900/N1900	ERICSSON RADIO 4460 B25+B66	PROP. (2) 2" (6x24) HCS FIBER CABLE (60m±)
	A2 EMPTY PIPE	-	-	-	-	-	-	
	A3 RFS APXVAALL24_43-U-NA20	160'± AGL	30°	-	-	L700/N600	ERICSSON RADIO 4480 B71+B85	
	A4 EMPTY PIPE	-	-	-	-	-	-	
	BETA	B1 RFS APXVLL19P_43-C-A20	160'± AGL	150°	-	-	L2100/L1900/N1900	
B2 EMPTY PIPE	-	-	-	-	-	-		
B3 RFS APXVAALL24_43-U-NA20	160'± AGL	150°	-	-	L700/N600	ERICSSON RADIO 4480 B71+B85		
B4 EMPTY PIPE	-	-	-	-	-	-		
GAMMA	G1 RFS APXVLL19P_43-C-A20	160'± AGL	270°	-	-	L2100/L1900/N1900	ERICSSON RADIO 4460 B25+B66	
	G2 EMPTY PIPE	-	-	-	-	-	-	
	G3 RFS APXVAALL24_43-U-NA20	160'± AGL	270°	-	-	L700/N600	ERICSSON RADIO 4480 B71+B85	
	G4 EMPTY PIPE	-	-	-	-	-	-	
	CABLE NOTE: EXISTING (2) 1-5/8" (6x12) HCS FIBER CABLES & (1) 2" (6x24) HCS FIBER CABLE TO BE REMOVED. SEE FEEDLINE SCHEDULE A & B BELOW.							
NOTE: RFDS REV4 - 09/06/24								

RAD CENTER NOTE:
T-MOBILE ANTENNA RAD CENTER SHOWN IN ABOVE SCHEDULE IS
ACCORDING TO RFDS PROVIDED BY T-MOBILE AND MIGHT DIFFER
FROM ACTUAL ANTENNA RAD CENTER ON STRUCTURAL ANALYSIS.

FEEDLINE SCHEDULE		
SCHEDULE	FEEDLINES	LOCATION
A	<div>EXISTING TO REMAIN: (1) 1/2" COAXIAL CABLE FOR GPS ANTENNA</div> <div>EXISTING TO BE REMOVED: (3) 1-5/8" COAXIAL CABLES (2) 2" (6x24) HCS FIBER CABLE</div>	ROUTED PER STRUCTURAL ANALYSIS
B	PROPOSED: (2) 2" (6x24) HCS FIBER CABLES (60m±)	
<div>NOTE:</div> <div>EXISTING T-MOBILE EQUIPMENT FEEDLINE INVENTORY BASED ON OBSERVED FIELD CONDITIONS. RFDS AND FEEDLINE LEASING ENTITLEMENTS MAY DIFFER.</div>		

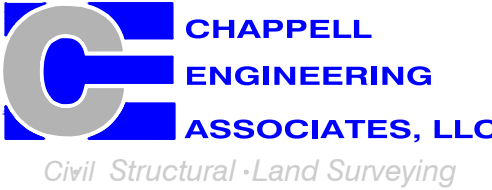
RAN EQUIPMENT		
CABINET	EXISTING	PROPOSED
EXIST. ERICSSON 6102 MU AC EQUIPMENT CABINET (TO BE REMOVED)	(1) BB 5216 (1) RP 6651 (1) DUW30 (1) CSR 7705 SAR M	N/A
PROP. ERICSSON 6160 V2 AC EQUIPMENT CABINET	N/A	(2) RP 6651 (1) CSR IXR® V2 (GEN2)
NOTE: RAN EQUIPMENT IS BASED ON RFDS REV4 DATED 09/06/24.		



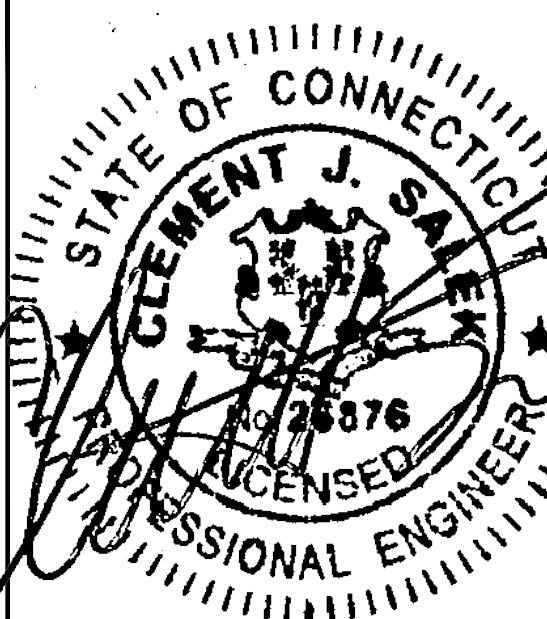
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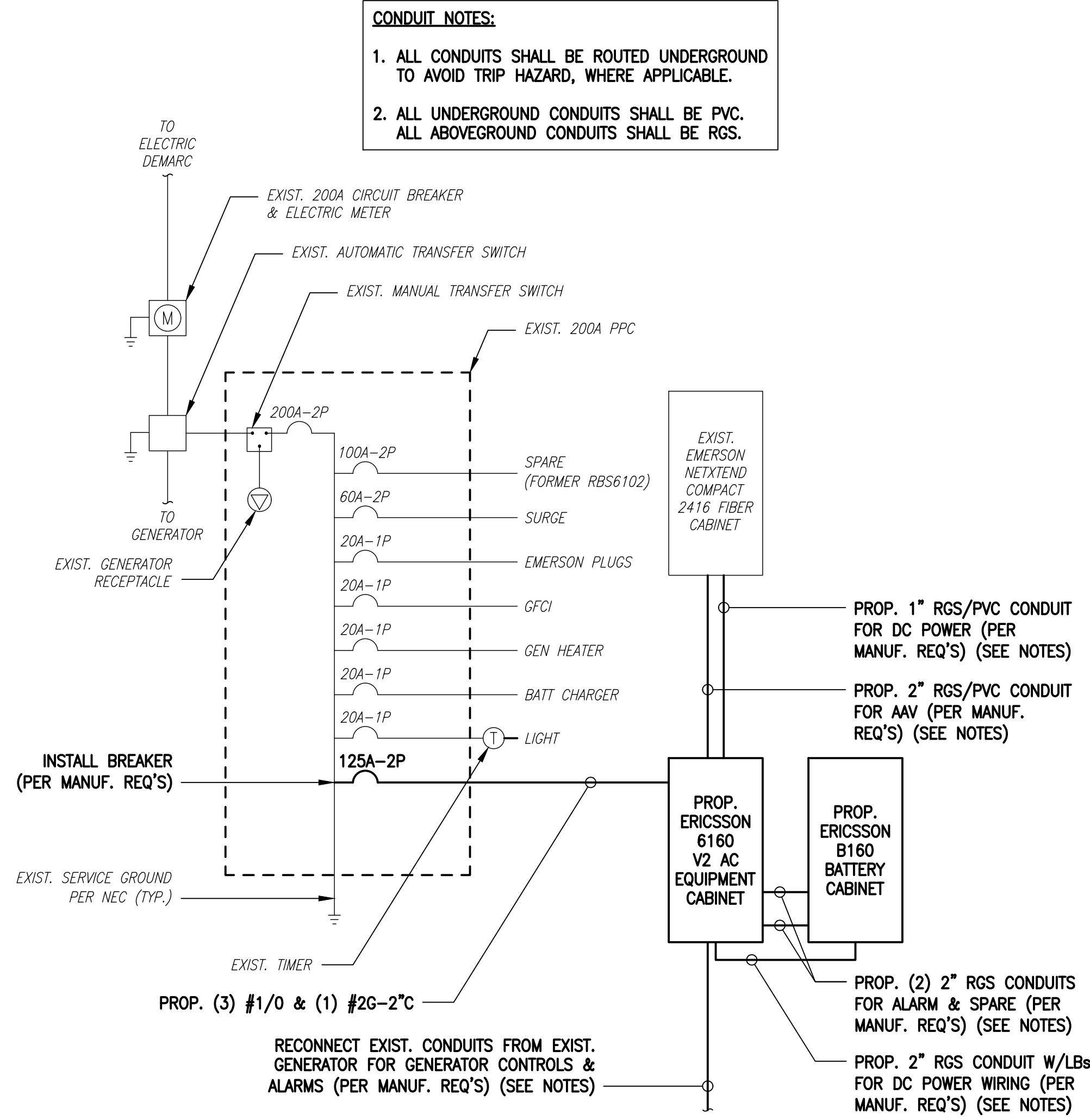
SITE ADDRESS:
113 BRUSH HILL ROAD
GOSHEN, CT 06756

SHEET TITLE

RF DATA

SHEET NUMBER

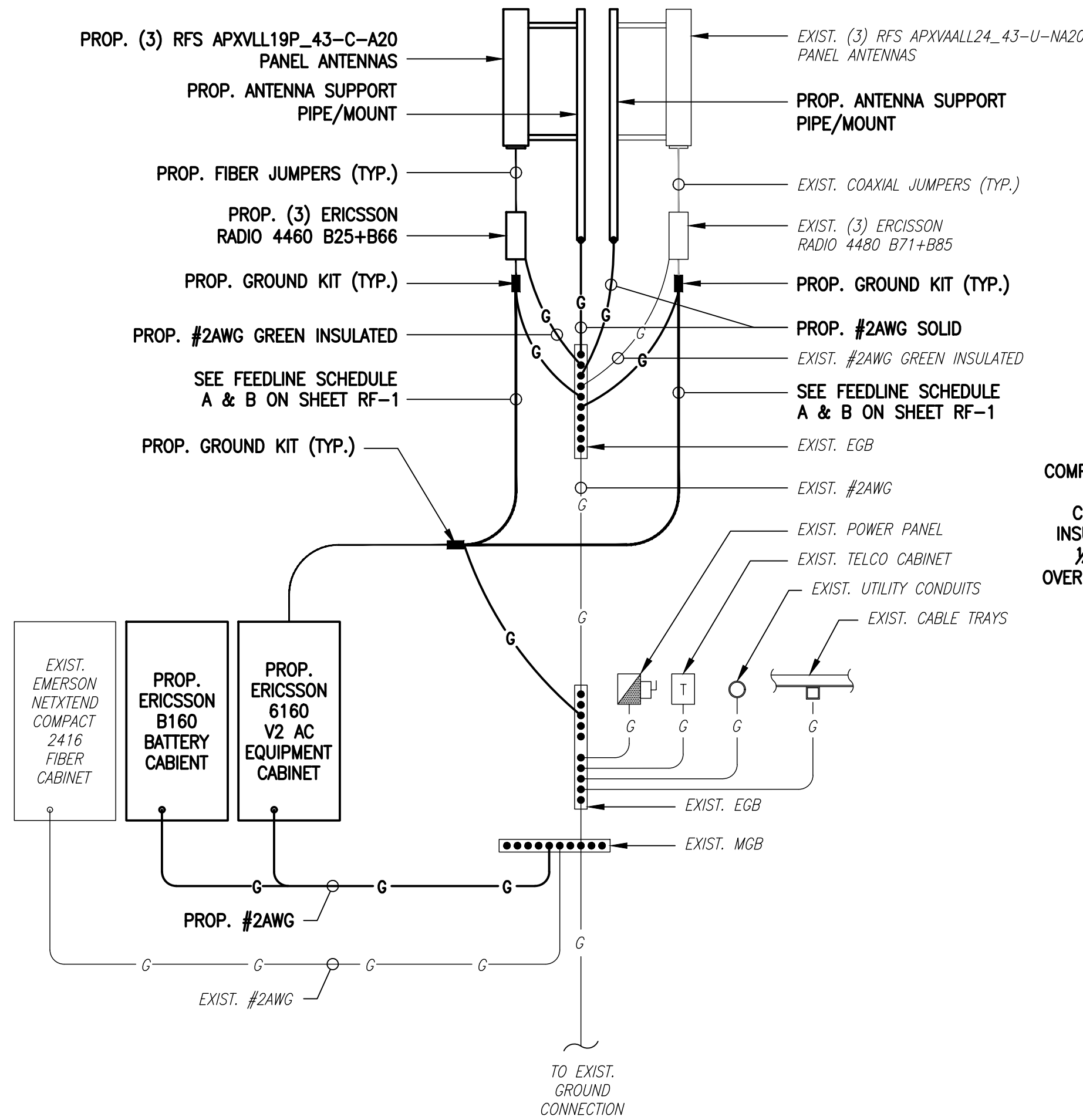
RF-1



ONE-LINE DIAGRAM

SCALE: NOT TO SCALE

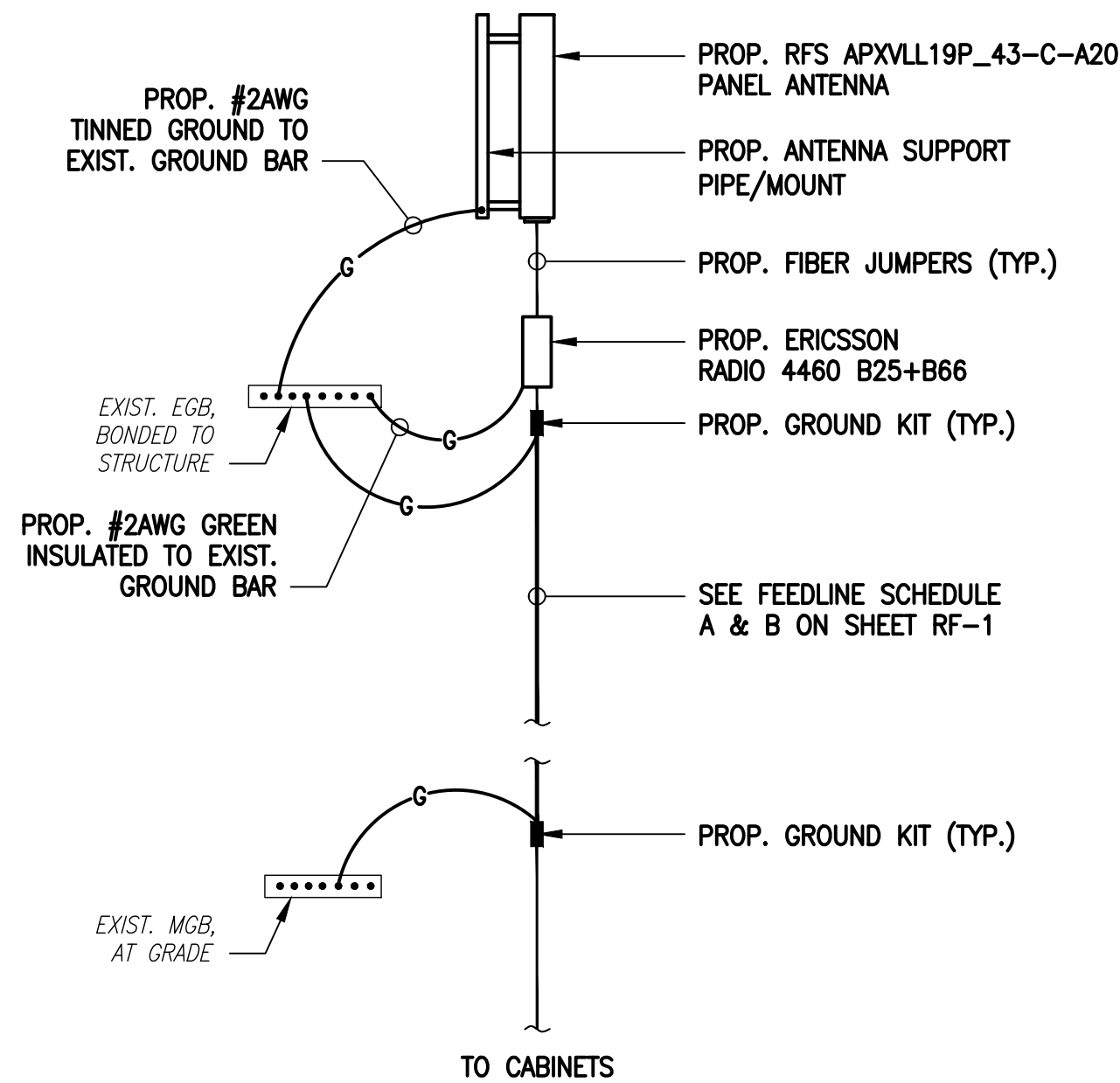
1
E-1



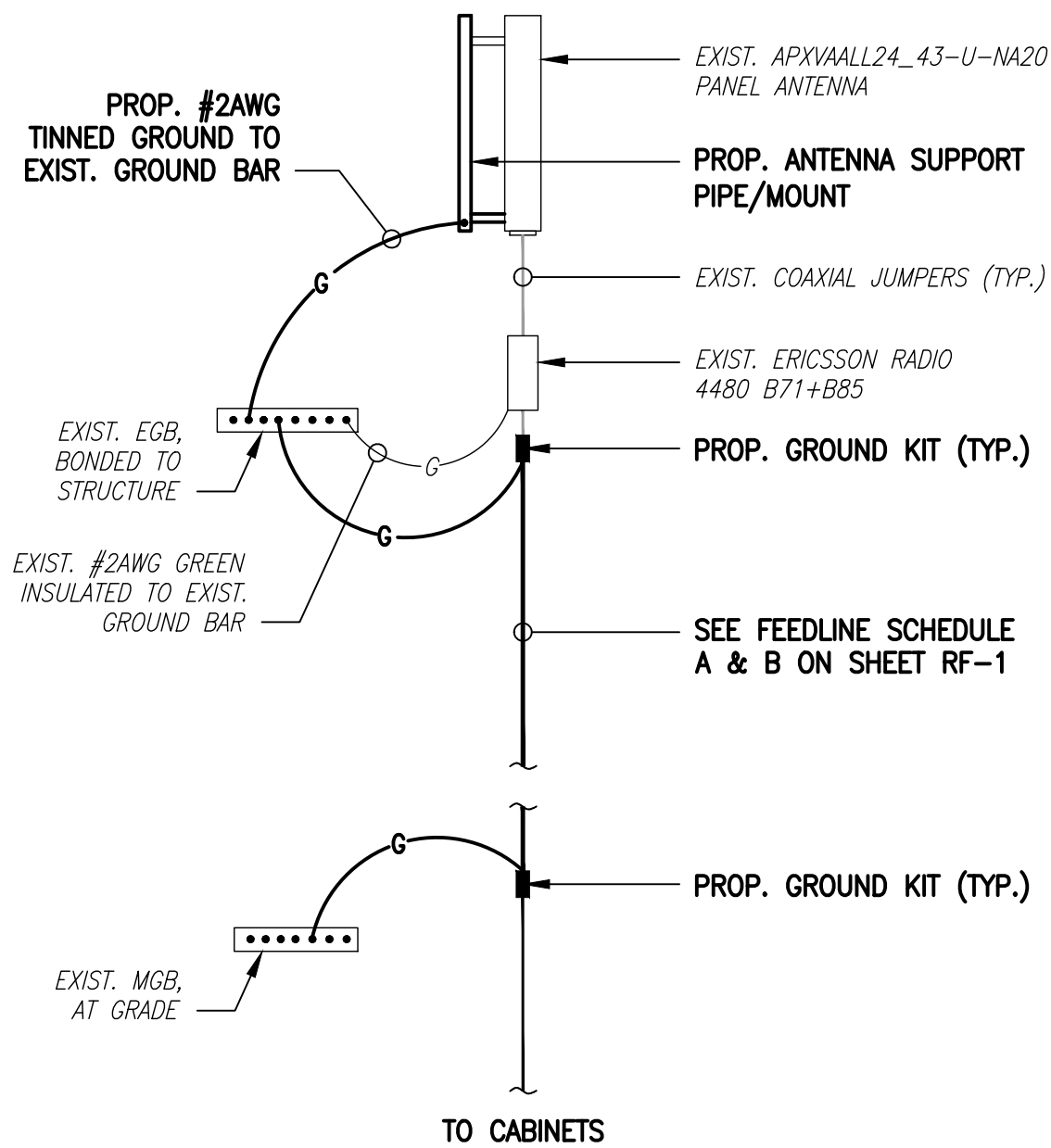
GROUNDING RISER DIAGRAM

SCALE: NOT TO SCALE

2
E-1



**L2100/L1900/N1900
ANTENNA**

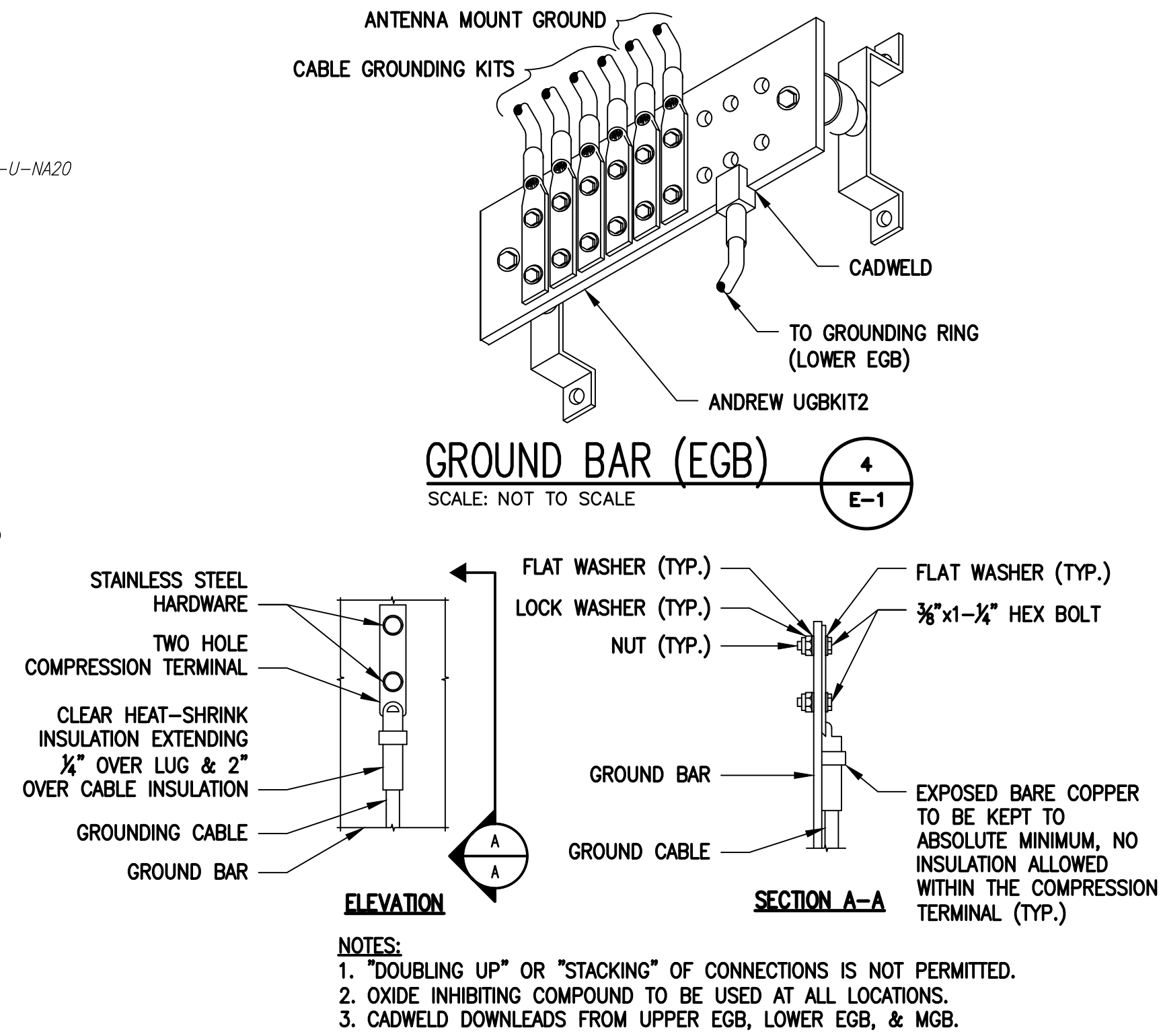


**L700/N600
ANTENNA**

**COAX CABLE CONNECTION
AND GROUNDING DETAIL**

SCALE: NOT TO SCALE

3
E-1



ELECTRICAL & GROUNDING NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION.
8. RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING PROVIDE FULL LENGTH PULL ROPE IN INSTALLED TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
10. WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
12. PPC SUPPLIED BY PROJECT OWNER.
13. GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
15. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
16. ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
17. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
18. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
19. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
20. CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXIST. TOWER/MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
21. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
22. CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.

T-Mobile

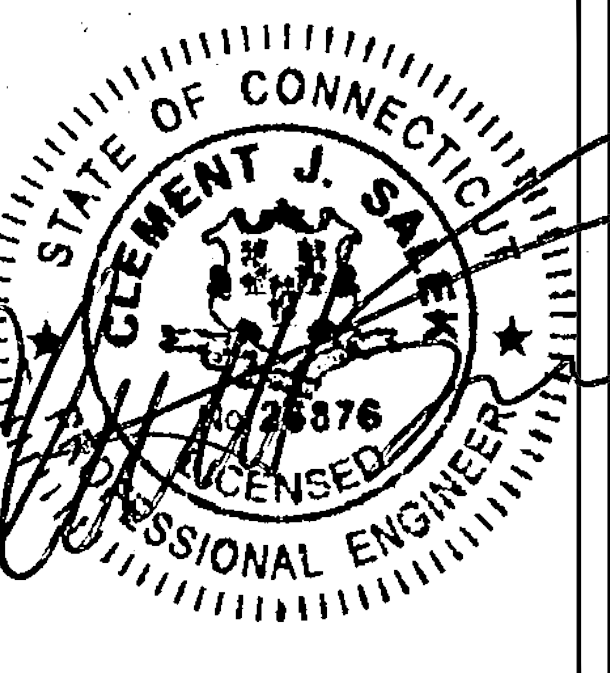
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GOSHEN, CT 06756

SHEET TITLE

**ELECTRIC & GROUNDING
DETAILS**

SHEET NUMBER

E-1