

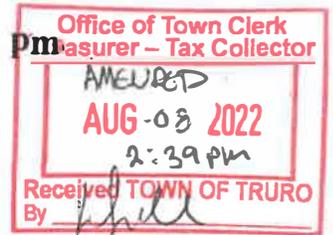


Truro Planning Board Agenda

Remote Meeting

Wednesday, August 10, 2022 – 5:00 pm

www.truro-ma.gov



AMENDED

Open Meeting

This will be a remote public meeting. Citizens can view the meeting on Channel 18 in Truro and on the web on the "Truro TV Channel 18" button under "Helpful Links" on the homepage of the Town of Truro website (www.truro-ma.gov). Click on the green "Watch" button in the upper right corner of the page. Please note that there may be a slight delay (approx. 15-30 seconds) between the meeting and the television broadcast/live stream.

Citizens can join the meeting to listen and provide public comment by entering the meeting link; clicking on the Agenda's highlighted link; clicking on the meeting date in the Event Calendar; or by calling in toll free at [1-866-899-4679](tel:1-866-899-4679) and entering the access code [814-992-693#](tel:814-992-693#) when prompted. Citizens will be muted upon entering the meeting until the public comment portion of the hearing. If you are joining the meeting while watching the television broadcast/live stream, please lower or mute the volume on your computer or television during public comment so that you may be heard clearly. Citizens may also provide written comment via postal mail or by emailing Liz Sturdy, Planning Department Administrator, at esturdy@truro-ma.gov.

Meeting link: <https://meet.goto.com/814992693>

Public Comment Period

The Commonwealth's Open Meeting Law limits any discussion by members of the Board of an issue raised to whether that issue should be placed on a future agenda. Speakers are limited to no more than 5 minutes.

1. Planner Report

2. Chair Report

3. Temporary Sign Permit Applications

Pete Fasano – Vinegrass Music Festival at Truro Vineyards, for one (1) sign 4' x 6', to be located at the junction of Route 6 and 6A. The sign will be installed on September 18th and removed October 2nd for an event on Sunday, October 2nd.

Nicholas Ward – Wellfleet Harbor Actors Theater, for two (2) signs, 36" x 24", to be located at: (1) the junction of Route 6 and 6A, and (2) North side of Route 6 near Whitmanville Road. The signs will be installed on August 16th and removed October 16th.

Public Hearing – Continued

2022-002/SPR – Debra Hopkins, Pure Joy Farm, LLC (High Dune Craft Cooperative) for property located at 23 Old Bridge Road (Atlas Map 50, Parcel 232, Registry of Deeds title reference: Book 377, Page 44). Applicant seeks a Residential Site Plan Review under §70 and §100 of the Truro Zoning Bylaw for a Recreational Marijuana Establishment (RME).

- ◆ Request to Withdraw Without Prejudice

2022-004/SPR – Outer Shore Nominee Trust, Rachel Kalin, Trustee for property located at 17 Coast Guard Road (Atlas Map 34, Parcel 3, Registry of Deeds title reference: Book 34387, Page 1). Applicant seeks Residential Site Plan Review under §70 of the Truro Zoning Bylaw for a lot in the Seashore District. Demolition of 5 of 6 pre-existing, non-conforming cottages (multiple dwellings on a lot) and associated structures; construction of a new one-story single-family dwelling with pool and landscaping; renovation of remaining cottage. **[Material in 4/20/2022, 5/18/2022, 6/8/2022, 6/22/2022, and 7/13/2022 packets]**

- ◆ Extension Agreement

2022-008/SPR – SBA Communications, on property located at 5 Town Dump Road (Atlas Map 55, Parcel 2-A). Applicant seeks a Site Plan Review under Section 40.5 of the Truro Zoning Bylaw to modify an existing tower, by swapping three (3) antennas with three (3) new antennas, and related lines and equipment. No changes are being made to the tower height. **[Material in 7/27/2022 packet] {New material included in this packet}**

New Public Hearings

- ◆ None

Development of Warrant Articles

- ◆ Outreach



Application Completeness

Minutes

- ◆ June 8, 2022
- ◆ June 22, 2022
- ◆ July 20, 2022 Work Session

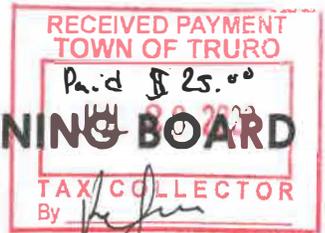
Next Meeting: Wednesday, August 24, 2022 at 5:00 pm

Adjourn

TOWN OF TRURO



PLANNING BOARD



Application for Temporary Sign Permit

Pursuant to Section 11 of the Truro Sign Code

Fee: \$25.00 (for each 30-day period)

Applicant Name: VINEGRASS - PETE FASANO Date: 7.27.22

Applicant Contact Information: 12 LOVE RD

Phone: 6178774510 Mailing Address: Petefasano@vinegrass.org
Email

Number of Signs Requested: 1

Temporary Sign Dimensions:

- (1) Height 4' Width 6'
- (2) Height _____ Width _____
- (3) Height _____ Width _____
- (4) Height _____ Width _____

Location(s) of Proposed Temporary Sign(s): _____

INTERSECTION OF 6/LA
TOWARDS TRURO VINEYARD

Date(s) of the Event in Which the Sign is Intended: 10.2.2022

Date When Sign(s) will be Installed: 9-18-2022 Removed: 10.2.2022

Applicant Signature: [Signature] Date: 7.27.2022

Applicant Printed Name: PETER FASANO

If sign(s) to be placed on private property, please have Owner print and sign name below:

Owner Signature: _____ Date: _____
(which also authorizes the use of the property)

Owner Printed Name: _____

Planning Board Action: **Approved** _____ **Approved w/Conditions** _____ **Denied** _____

Conditions: _____

Board Signature: _____ Date: _____
Chair, Planning Board

RECEIVED PAYMENT
TOWN OF TRURO

PAID \$25.00

JUL 26 2022

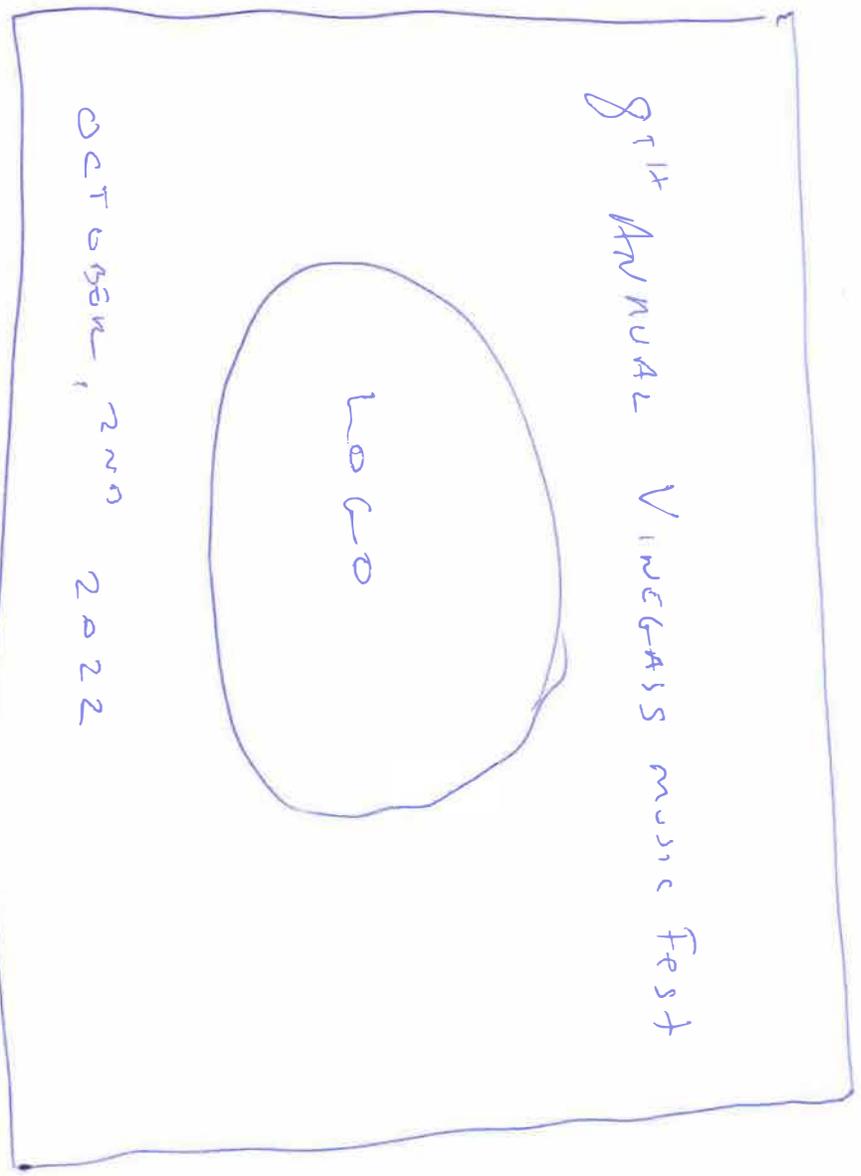
TAX COLLECTOR

By



5

61



\$ PAID
MC \$50.00



TOWN OF TRURO

PLANNING BOARD
TOWN OF TRURO
11:40AM
JUL 29 2022

Application for Temporary Sign Permit

Pursuant to Section 11 of the Truro Sign Code

Fee: \$25.00 (for each 30-day period)

RECEIVED
TOWN CLERK

Applicant Name: Wellfleet Harbor Actors Theater **Date:** 7/29/22

Applicant Contact Information: PO Box 797, Wellfleet, MA, 02667
Mailing Address
917-922-5217 Nick@what.org
Phone Email

Number of Signs Requested: 2

Temporary Sign Dimensions:

- (1) Height 36^{ft} Width 24^{ft}
- (2) Height 36^{ft} Width 24^{ft}
- (3) Height _____ Width _____
- (4) Height _____ Width _____

Location(s) of Proposed Temporary Sign(s): Along Rt 6 where 6 and 6A split, North side of 6 near Whitmanville Road

Date(s) of the Event in Which the Sign is Intended: August 16th - Oct 16, 2022

Date When Sign(s) will be: Installed: August 16th Removed: Oct 16, 2022

Applicant Signature M R W 7/29/22
Applicant Printed Name Nicholas Ward Date

If sign(s) to be placed on private property, please have Owner print and sign name below:

Owner Signature _____ Date _____
(which also authorizes the use of the property)
Owner Printed Name _____

Planning Board Action: **Approved** _____ **Approved w/Conditions** _____ **Denied** _____

Conditions: _____

Board Signature: _____ Date: _____
Chair, Planning Board

JUNE 1 - 24, 2022

A THOUGHTFUL CONTEMPORARY COMEDY

STRAIGHT WHITE MEN

BY YOUNG JEAN LEE
DIRECTED BY SASHA BRATT

JUNE 29 - JULY 22, 2022

A SALUTE TO SONDHEIM

MARRY ME A LITTLE

MUSIC & LYRICS BY STEPHEN SONDHEIM
CONCEIVED BY CRAIG LUCAS & NORMAN RENE
DIRECTED BY CHRISTOPHER OSTROM

JULY 27 - AUGUST 19, 2022

WHO'S GOING TO CLEAN UP THIS MESS?

GARY: A SEQUEL TO TITUS ANDRONICUS

BY TAYLOR MAC
DIRECTED BY RJ TOLAN

AUGUST 25 - SEPTEMBER 17, 2022

LIBERTY! EQUALITY! SISTERHOOD!

THE REVOLUTIONISTS

BY LAUREN GUNDERSON
DIRECTED BY MEGAN NUSSLE

SEPTEMBER 22 - OCTOBER 16, 2022

A TIMELESS STORY, A LEGENDARY PLAYWRIGHT

BETRAYAL

BY HAROLD PINTER
DIRECTED BY DANA GREENFIELD

WELLFLEET
HARBOR ACTORS
THEATER
what.org



WHAT for Kids!
**HOW TO COOK
UP A GOOD IDEA**

A PLAY FOR THE WHOLE FAMILY

by M.J. Halberstadt | directed by Amie Lytle
Supporting the Young Artists of what's Professional Development Learning Program

July 5 - August 11
Tuesdays - Thursdays at 7:00
performed outdoors in the
Lauri Phillips Performance Pavilion
All seats \$12 or Pay WHAT You Want Every Wednesday!

TICKETS AVAILABLE AT **WHAT ORG**
OR CALL (508) 349-0478

**WELLFLEET
HARBOR ACTORS
THEATER**

From: dirtnymph@mac.com
To: [Elizabeth Sturdy](#)
Cc: [Barbara Carboni](#)
Subject: 23 Old Bridge Road/ HDCC
Date: Saturday, August 6, 2022 3:15:05 PM

Hello Elizabeth,

I'm requesting that the Planning Board dismiss my application on 23 Old Bridge Road without prejudice. I need additional time to amend my application and have the engineered plans changed to reflect the new plans.

Thank you,
Debra Hopkins

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



TOWN OF TRURO

Planning Department

24 Town Hall Road, P.O. Box 2030, Truro, MA 02666
Tel: (508) 349-7004, Ext. 127 Fax: (508) 349-5505

EXTENSION AGREEMENT FOR CASE NO. 2022- 004/SPR

I, Benjamin Flander, as authorized agent of
Rachel Kalin, Trustee, with respect to property
located at 17 Coast Guard Road, Truro, agree to an extension of
time through August 24, 2022 for action by the Planning Board on the above Application.

Signature of Applicant/Agent

8/3/22

Date

Filed with the Planning Department:

Elizabeth Sturdy 8/3/2022
Name Date

Filed with the Town Clerk:

Chris Fullerton 8/3/2022
Name Date



ELIGIBLE FACILITIES REQUEST (EFR) APPLICATION FORM

Original Date of Submittal: 6/21/2022

Submitted by:

Name: John Morrison

Title: Site Development Specialist on behalf of SBA Network Services and T-Mobile

Contact Information: JoMorrison@sbsite.com
508-768-7960

Name of Jurisdiction: Town of Truro

Address of Jurisdiction: 24 Town Hall Road

Contact Name for Jurisdiction: Elizabeth Sturdy

Name of Local Government Permit Application: Planning Application for Special Permit

Local Government File #: Click here to enter text.

Street Address of Site: 5 Town Dump Rd

Tax Parcel # of Site: Click here to enter text.

Latitude/Longitude of Site: 41.98578; -70.04133

List Each Piece of Transmission Equipment that will be Collocated or Added:

(3) Ericsson Antenas, (3) Ericsson 4480 Radios, (1) HCS Fiber Cable

List Each Piece of Transmission Equipment that will be Removed:

(3) Antennas, (3) Radios, (3) TMAs

List Cabinets that will be Collocated or Added at the Site:

None

List Cabinets that will be Removed at the Site:

None

Permit Application Amount: \$350

Municipal Consultant Review Fee Deposit: Click here to enter text.



Eligible Facilities Request to Modify Transmission Equipment at an Existing Communications Tower

Location: 5 Town Dump Rd, Truro Ma
T-Mobile Site No: 4HY0520A
SBA Communications: Agent for SBA Network Services LLC and T-Mobile

T-Mobile is Filing an Eligible Facilities Request

SBA Properties, LLC, on behalf of T-Mobile and SBA Network Services, LLC as General Contractor, is submitting an Eligible Facilities Request to add (collocate) Transmission Equipment on an existing SBA Telecommunications Tower located at 5 Town Dump Rd.

The existing Tower is a structure that is 190' high and presently contains wireless facilities. The existing Tower meets the Federal Communications Commission ("FCC") definition of a Tower and T-Mobile is an FCC licensed wireless carrier.

The list of equipment identified in this Eligible Facilities Request application is Transmission Equipment as determined by the FCC, and as defined as follows: "any equipment that facilitates transmission for any Commission-licensed or authorized wireless communication service, including, but not limited to, radio transceivers, antennas and other relevant equipment associated with and necessary to their operation, including coaxial or fiber-optic cable, and regular and back-up power supply. This definition includes equipment used in any technological configuration associated with any Commission-authorized wireless transmission, licensed or unlicensed, terrestrial or satellite, including commercial mobile, private mobile, broadcast and public safety services, as well as fixed wireless services such as microwave backhaul or fixed broadband."

Administrative Review and Approval

While local jurisdictions retain discretionary zoning review over the construction of new towers, **collocations and/or equipment upgrades such as reflected in this application must now be approved administratively.** The new law provides, in part, that:

"a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." (Emphasis added.)

The FCC, in a Report and Order adopted on October 17, 2014, determined that **any modification to an existing telecommunications Tower that meets the following six criteria does not substantially change the physical dimensions of the existing Tower and therefore is an Eligible Facilities Request which must be granted:**

1. The modifications to the Transmission Equipment do not increase the height of the Tower by twenty feet or ten percent, whichever is greater;



2. The modifications to the Transmission Equipment do not protrude from the edge of the Tower by twenty feet or more than the width of the Tower (whichever of these two dimensions is greater) at the level where the transmission equipment modifications are made;
3. The modifications to the Transmission Equipment do not involve the installation of more than the standard number of equipment cabinets for the technology involved, not to exceed four;
4. The modifications to the Transmission Equipment do not entail any excavation or deployment outside of the Tower site;
5. The modifications to the Transmission Equipment do not defeat any existing concealment elements of the Tower;
6. The modifications to the Transmission Equipment comply with prior conditions of approval of the Tower, unless the non-compliance is due to an increase in height, increase in width, addition of equipment cabinets, or new excavation that does not exceed the corresponding “substantial change” thresholds in numbers 1-4.

We are providing certification that each of the six review criteria identified by the FCC will be met, and that the proposed collocation fully conforms to Section 6409(a) as enacted by Congress and as interpreted by the FCC.

Expedited Permit Processing and Deemed Granted Designation

Under federal law, an Eligible Facilities Request is deemed granted sixty (60) days after a complete application is filed with a local jurisdiction. Accordingly, this Eligible Facilities Request must be approved within 60 days, as required by federal law and FCC regulations. If sixty days pass after the submission of T-Mobile’s application and the Truro Planning Board has not acted to grant or deny the request, it will be deemed granted.



ELIGIBLE FACILITIES REQUEST (EFR) CERTIFICATION OF NON-SUBSTANTIAL
CHANGES TO A WIRELESS TOWER NOT LOCATED WITHIN A PUBLIC RIGHT OF WAY

- 1) Address of the Wireless Tower: 5 Town Dump Road, Truro MA. 02666
- 2) The height (measured in feet above ground level) of the existing Tower as originally approved, including any modifications approved prior to February 22, 2012: 190
- 3) What is the height (measured in feet above ground level) at which the modifications to the Transmission Equipment will occur on the Tower? 175
- 4) What will be the height (measured in feet above ground level) of the existing Tower after the modifications to the Transmission Equipment are installed? 190'
- 5) Effect of modifications of Transmission Equipment on Tower height:
 - a. Will the modifications in Transmission Equipment (addition, removal or replacement of Transmission Equipment) result in increasing the height above ground level of the existing Tower?
 Yes No
 - b. Will the modifications in Transmission Equipment result in increasing the height above ground level of the existing Tower by more than: (i) 10% of the height of the existing Tower, as originally approved, including any modifications approved prior to February 22, 2012; or (ii) twenty feet above the height of the existing Tower, as originally approved, including any modifications approved prior to February 22, 2012, whichever height increase is greater?
 Yes No
- 6) Will the modifications in Transmission Equipment (measured at the height above ground level where the Transmission Equipment will be attached to the tower) result in any Transmission Equipment protruding horizontally from the edge of tower by more than twenty (20) feet or by more than the existing width of the tower at that height, whichever of these dimensions is greater?
 Yes No
- 7) Will the proposed changes in Transmission Equipment involve excavation or placement of new equipment outside the existing Tower site or outside any access or utility easements currently related to the site?
 Yes No



8) Will the proposed modification in Transmission Equipment involve installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four?
 Yes No

9) Will the proposed modification in Transmission Equipment defeat the existing concealment elements of the Tower?
 Yes No

10) Prior Conditions of Approval

a. Will the proposed modification in Transmission Equipment comply with conditions of approval imposed on the Tower prior to February 22, 2012?

Yes No

b. If the answer to 10(a) is "No," is the non-compliance due solely to any of the conditions addressed in questions 5-9 above?

Yes No

If the answer to either question 5(a) or 5(b) is "No," and the answers to questions 6-9 are "No," and the answer to either 10(a) or 10(b) is "Yes," then the proposed modifications do not substantially change the physical dimensions of the existing Tower. Click here to enter text.

This certification is dated this Twenty-First day of June, 2022 (amended 7/28/2022)


Signature

John Morrison / Site Development Specialist on behalf of SBA Network Services LLC and T-Mobile

Name & Title



Tower Engineering Solutions

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

Structural Analysis Report

Existing 190 ft Cellxion Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: MA12227-A

Customer Site Name: Truro

Carrier Name: T-Mobile (App#: 188222-1)

Carrier Site ID / Name: 4HY0520A / HY520/Bay Comm.-Truro

Site Location: 5 Town Dump Road

Truro, Massachusetts

Barnstable County

Latitude: 41.985783

Longitude: -70.041333

Exp.06/30/2024



08/02/2022

Analysis Result:

Max Structural Usage: 83.1% [Pass]

Max Foundation Usage: 54.0% [Pass]

Additional Usage Caused by New Mount: +2%

Report Prepared By : Tawfeeq Alajaj



Tower Engineering Solutions

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

Structural Analysis Report

Existing 190 ft Cellxion Self Supporting Tower

Customer Name: SBA Communications Corp

Customer Site Number: MA12227-A

Customer Site Name: Truro

Carrier Name: T-Mobile (App#: 188222-1)

Carrier Site ID / Name: 4HY0520A / HY520/Bay Comm.-Truro

Site Location: 5 Town Dump Road

Truro, Massachusetts

Barnstable County

Latitude: 41.985783

Longitude: -70.041333

Analysis Result:

Max Structural Usage: 83.1% [Pass]

Max Foundation Usage: 54.0% [Pass]

Additional Usage Caused by New Mount: +2%

Report Prepared By : Tawfeeq Alajaj

Introduction

The purpose of this report is to summarize the analysis results on the 190 ft Cellxion Self Supporting Tower 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

Tower Drawings	Cellxion Drawing # TBAY01793, dated 01/13/2004
Foundation Drawing	Cellxion Drawing # TBAY01793, dated 01/13/2004
Geotechnical Report	Paul B. Aldinger & Associates Project # 03135, dated 11/19/2003
Modification Drawings	N/A
Mount Analysis	Verizon MA by Maser Consulting 21777817A. Dated 11/23/2021. T-Mobile MA by TES# 126141. Dated 03/17/2022.

Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESTowers**, 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.

Wind Speed Used in the Analysis:	Ultimate Design Wind Speed $V_{ult} = 139.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 108.0$ mph (3-Sec. Gust)
Wind Speed with Ice:	40 mph (3-Sec. Gust) with 3/4" radial ice concurrent
Operational Wind Speed:	60 mph + 0" Radial ice
Standard/Codes:	TIA-222-G-2 / 2015 IBC / Massachusetts State Building Code, Ninth Edition
Exposure Category:	B
Structure Class:	II
Topographic Category:	1
Crest Height:	0 ft
Seismic Parameters:	$S_S = 0.164$, $S_1 = 0.057$

This structural analysis is based upon the tower being classified as a Structure Class 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
1	187.3	3	KMW - AM-X-CD-16-65-00T-RET - Panel	(3) Sector Frames (Site Pro USF12-XX-U) + (3) Pipe Mounts	(12) 1 5/8" *(4) 3/4" DC *(2) 7/16" Fiber *(Inside (2) 3" Conduits)	AT&T
2		3	Cci - DMP5R-BU4DA - Panel			
3		3	Css - DUO1417-8686-0 - Panel			
4		3	Kathrein - 800-10121 - Panel			
5		6	Powerwave - LGP17201 - TMA			
6		3	Ericsson - RRUS 12 B4 - RRU			
7		3	Ericsson - RRUS 4478 B14 - RRU			
8		3	Ericsson - RRUS 4449 B5/B12 - RRU			
9		2	Raycap - DC6-48-60-18-8F - OVP			
-	175.0	3	Ericsson S11B12 RRU	(3) T-Frames	(6) 1 5/8" (1) 1-1/4" LMU (3) 7/8" Fiber	T-Mobile
-		3	Ericsson - AIR21 B2A B4P - Panel			
-		3	Ericsson - AIR21 B4A B2P - Panel			
-		3	Andrew LNX-65 antenna- Panel			
-	173.0	3	Ericsson - KRY 112 144 - TMA			
13	165.0	3	Swedcom - SWCP 2X7014 - Panel	(3) Modified Sector Frames with (3) BSAMNT-SBS-1-2, (3) VZWSMART-P40-238X150, (12) VZWSMART-MSK1, (3) VZWSMART-SFK1 and (3) VZWSMART-SFK3	(1) 1 5/8" Hybrid (1) W/G Ladder	Verizon
14		6	CommScope - NHH-65B-R2B - Panel			
15		3	Samsung - MT6407-77A - Panel			
16		3	B2/B66A RRH-BR049 (RFV01U-D1A)			
17		3	B5/B13 RRH-BR04C (RFV01U-D2A)			
18	1	Raycap RVZDC-6627-PF-48 - OVP				
18	155.0	3	JMA Wireless MX08FRO665-21 Panel	(3) Commscope MTC3975083 Sector frames	(1) 1.75" Hybrid	Dish Wireless
19		3	Fujitsu TA08025-B605 RRU			
20		3	Fujitsu TA08025-B604 RRU			
21		1	Raycap RDIDC-9181-PF-48 OVP			
22	138.0	3	RFS - APXVTM14-C-I20 - Panel	(3) T-Frame	(3) 1 1/4" (1) 5/8" Fiber	Sprint Nextel
23		3	RFS - APXVSP18 - Panel			
24		3	ALU - 2500 MHz - RRU			
25		3	ALU - 1900 MHz - RRU			
26		3	ALU - 800 MHz - RRU			
27		3	ALU - 800MHz Filter			
28		4	RFS - ACU-A20-N - RET			

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
10	175.0	3	Ericsson - AIR 21 B2A/B4P - Panel	(3) VFA12-HD	(4) 1 5/8" (1) 1-1/4" Fiber (1) 1.9" Fiber (3) 7/8" Hybrid	T-Mobile
11		3	Ericsson - AIR 21 B4A/B2P - Panel			
12		3	Ericsson - 840590966 - Panel			
13		3	Ericsson KRY 112 144/1			
14		3	Ericsson 4480 B71 + B85			

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	Legs	Diagonals	Horizontals
Max. Usage:	53.3%	83.1%	2.3%
Pass/Fail	Pass	Pass	Pass

Foundations

	Compression (Kips)	Uplift (Kips)	Shear (Kips)
Analysis Reactions	407.4	339.3	39.3

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.

Operational Condition (Rigidity):

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 0.0785 degrees under the operational wind speed as specified in the Analysis Criteria.

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 rigorous structural analysis.

Structure: MA12227-A-SBA

Site Name: Truro	Code: TIA-222-G	3/23/2022
Type: Self Support	Base Shape: Triangle	Basic WS: 108.00
Height: 190.00 (ft)	Base Width: 22.50	Basic Ice WS: 40.00
Base Elev: 0.00 (ft)	Top Width: 5.41	Operational WS: 60.00



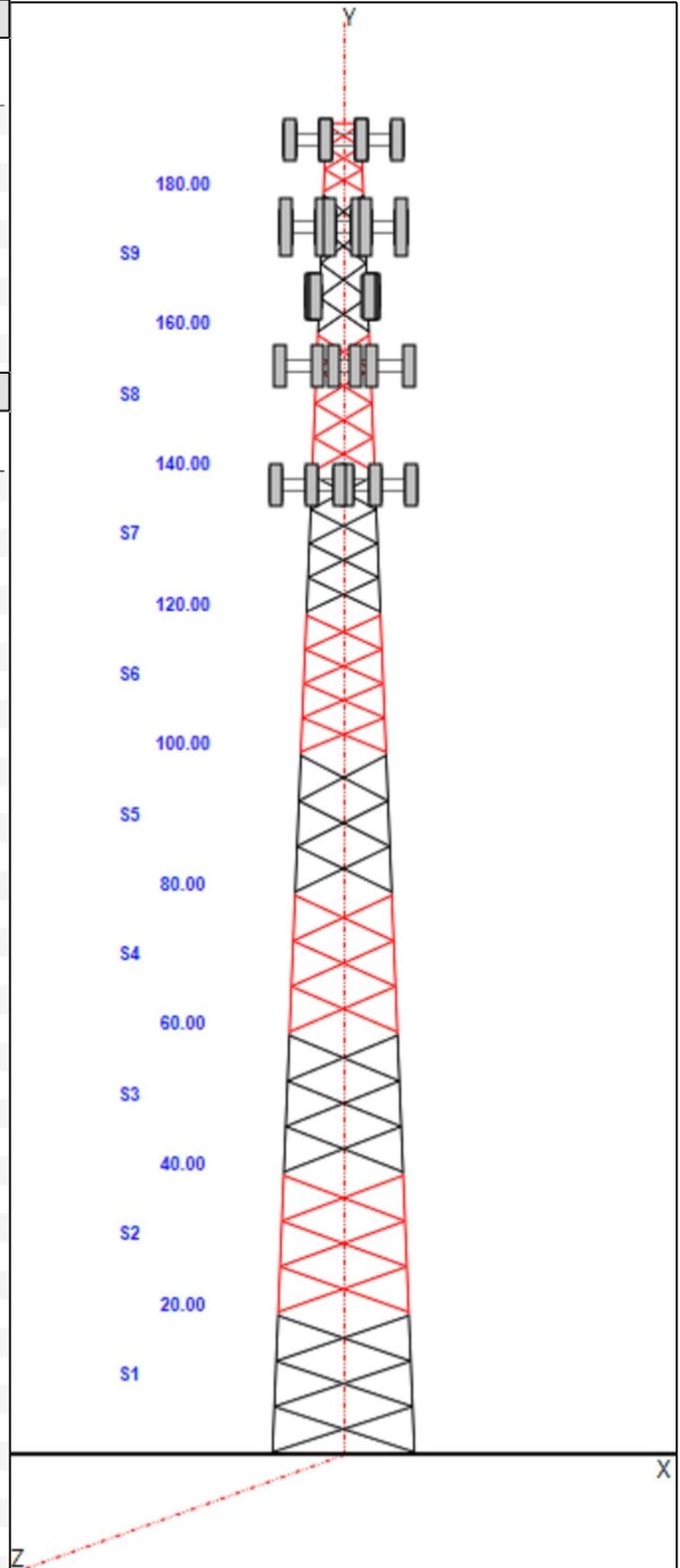
Page: 1

Section Properties

Sect	Leg Members	Diagonal Members	Horizontal Members
1-2	SOL 5 1/4" SOLID	SAE 4X4X0.25	
3	SOL 5" SOLID	SAE 4X4X0.25	
4	SOL 5" SOLID	SAE 3.5X3.5X0.25	
5	SOL 4 3/4" SOLID	SAE 3.5X3.5X0.25	
6	SOL 4 1/4" SOLID	SAE 3X3X0.1875	
7	SOL 4" SOLID	SAE 2.5X2.5X0.25	
8	SOL 3 3/4" SOLID	SAE 2.5X2.5X0.1875	
9	SOL 3 1/2" SOLID	SAE 2.5X2.5X0.1875	
10	SOL 3" SOLID	SAE 2X2X0.1875	SAE 2X2X0.1875

Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description
190.00	190.00	1	Lightning Rod
190.00	190.00	1	Beacon
187.30	187.30	1	(3) USF12-496-U
187.30	187.30	3	AM-X-CD-16-65-00T-RET
187.30	187.30	3	HPA65R-KE4A
187.30	187.30	3	DUO1417-8686-0
187.30	187.30	3	800 10121
187.30	187.30	6	LGP17201
187.30	187.30	3	RRUS 12
187.30	187.30	3	RRUS 4478 B14
187.30	187.30	3	4449 B5/B12
187.30	187.30	2	DC6-48-60-18-8F
175.00	175.00	3	AIR 21 B2A/B4P
175.00	175.00	3	AIR 21 B4A/B2P
175.00	175.00	3	840590966
175.00	175.00	3	Ericsson KRY 112 144/1
175.00	175.00	3	Ericsson 4480 B71 + B85
175.00	175.00	3	VFA12-HD
165.00	165.00	3	SWCP 2X7014
165.00	165.00	6	NHH-65B-R2B
165.00	165.00	3	MT6407-77A
165.00	165.00	3	B2/B66A RRH-BR049 (RFV01U-D1A)
165.00	165.00	3	B5/B13 RRH-BR04C (RFV01U-D2A)
165.00	165.00	1	Raycap RVZDC-6627-PF-48
165.00	165.00	1	(3) V-Brace Kits
165.00	165.00	1	(3) Stabilizer Kit
155.00	155.00	3	MX08FRO665-21
155.00	155.00	1	(3) MTC3975083
155.00	155.00	3	TA08025-B605
155.00	155.00	3	TA08025-B604
155.00	155.00	1	RDIDC-9181-PF-48
138.00	138.00	3	T-Arm (Flat)
138.00	138.00	3	APXVTM14-C-I20
138.00	138.00	3	APXVSP18-C
138.00	138.00	3	1900MHz RRH
138.00	138.00	3	1900MHz RRH
138.00	138.00	3	800 MHz RRH
138.00	138.00	3	ALU 800MHz External Notch Filt
138.00	138.00	4	ACU-A20-N



Linear Appurtenances

Structure: MA12227-A-SBA

Site Name: Truro	Code: TIA-222-G	3/23/2022
Type: Self Support	Base Shape: Triangle	Basic WS: 108.00
Height: 190.00 (ft)	Base Width: 22.50	Basic Ice WS: 40.00
Base Elev: 0.00 (ft)	Top Width: 5.41	Operational WS: 60.00



Page: 2

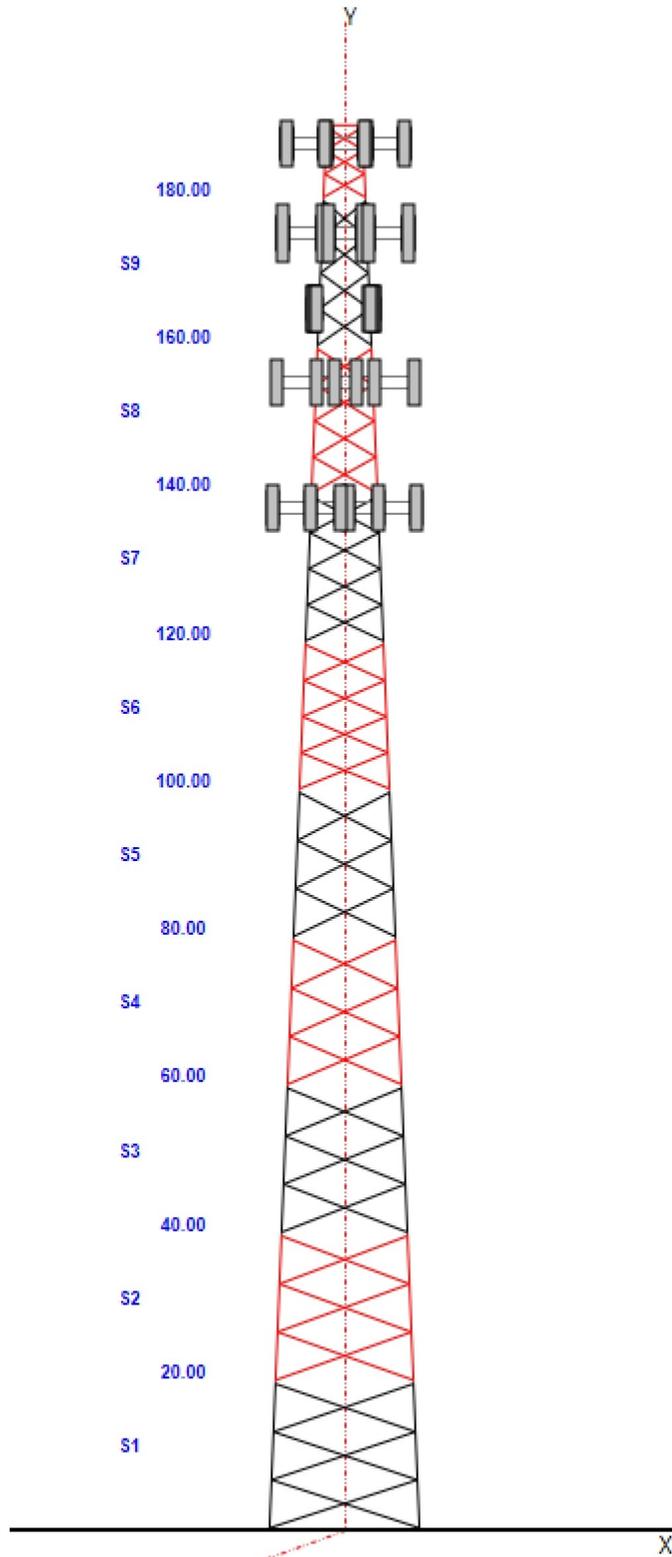
Elev From (ft)	Elev To (ft)	Qty	Description
0.00	187.00	12	1 5/8" Coax
0.00	187.00	2	3" Conduit
0.00	187.00	4	3/4" DC
0.00	187.00	2	7/16" Fiber
0.00	187.00	1	Climbing Ladder
0.00	187.00	1	Safety Cable
0.00	187.00	1	W/G Ladder
0.00	175.00	4	1 5/8" Coax
0.00	175.00	1	1-1/4" Fiber
0.00	175.00	1	1.9" Fiber
0.00	175.00	3	7/8" Hybrid
0.00	175.00	1	W/G Ladder
0.00	165.00	1	1 5/8" Hybrid
0.00	165.00	1	W/G Ladder
0.00	155.00	1	1.75" Hybrid
0.00	138.00	3	1 1/4" Coax
0.00	138.00	1	5/8" Fiber
0.00	138.00	1	W/G Ladder

Base Reactions

Leg	Overtuning
Max Uplift: -339.30 (kips)	Moment: 7401.92 (ft-kips)
Max Down: 407.36 (kips)	Total Down: 82.48 (kips)
Max Shear: 39.25 (kips)	Total Shear: 66.75 (kips)

Structure: MA12227-A-SBA

Site Name: Truro	Code: TIA-222-G	3/23/2022
Type: Self Support	Basic WS: 108.00	
Height: 190.00 (ft)	Basic Ice WS: 40.00	
Base Elev: 0.00 (ft)	Operational WS: 60.00	Page: 3
Base Shape: Triangle		
Base Width: 22.50		
Top Width: 5.41		



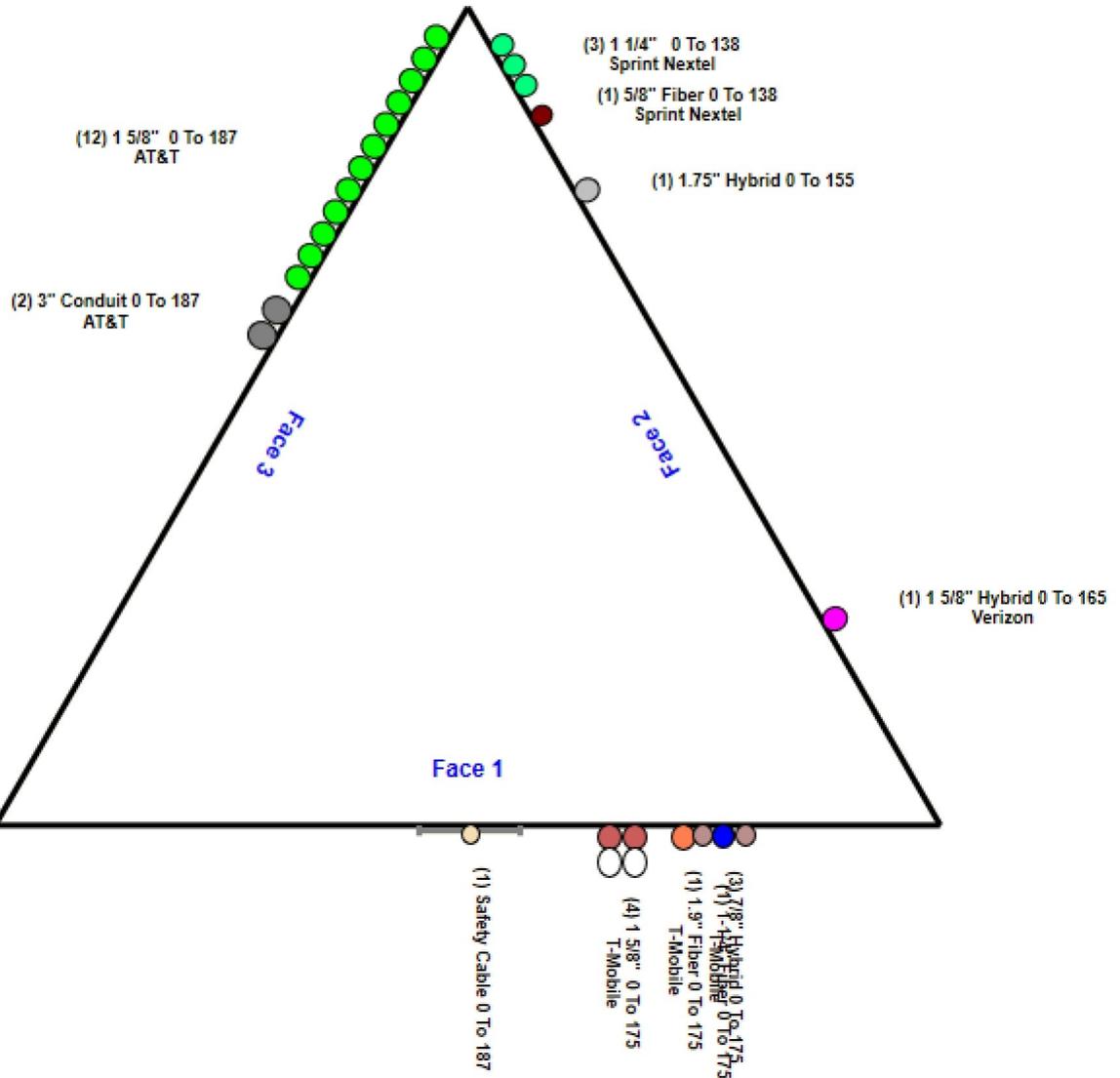
Structure: MA12227-A-SBA - Coax Line Placement

Type: Self Support
Site Name: Truro
Height: 190.00 (ft)

3/23/2022



Page: 4



Loading Summary

Structure: MA12227-A-SBA	Code: TIA-222-G	3/23/2022
Site Name: Truro	Exposure: B	
Height: 190.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 5

Discrete Appurtenances Properties

Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
190.00	Lightning Rod	1	5.00	0.500	26.39	2.282	72.000	1.000	1.000	1.00	1.00	0.000
190.00	Beacon	1	36.00	2.720	172.02	3.689	28.000	17.500	17.500	1.00	1.00	0.000
187.30	(3) USF12-496-U	1	1598.0	34.800	3876.37	72.012	0.000	0.000	0.000	0.75	1.00	0.000
187.30	AM-X-CD-16-65-00T-RET	3	48.50	8.020	214.22	10.873	72.000	11.800	5.900	0.80	0.79	0.000
187.30	HPA65R-KE4A	3	20.30	8.280	228.20	9.531	48.000	20.700	7.700	0.80	0.71	0.000
187.30	DUO1417-8686-0	3	20.30	5.830	182.13	6.881	48.400	14.000	9.000	0.80	0.84	0.000
187.30	800 10121	3	46.30	5.150	163.60	7.301	54.500	10.300	5.900	0.80	0.82	0.000
187.30	LGP17201	6	31.00	1.950	70.03	2.968	13.900	14.400	3.700	0.80	0.50	0.000
187.30	RRUS 12	3	60.00	2.700	128.44	3.374	18.200	17.800	8.000	0.80	0.67	0.000
187.30	RRUS 4478 B14	3	59.40	1.650	101.75	2.179	15.000	13.200	7.300	0.80	0.67	0.000
187.30	4449 B5/B12	3	71.00	1.970	125.51	2.529	17.900	13.200	9.400	0.80	0.67	0.000
187.30	DC6-48-60-18-8F	2	31.80	0.920	94.93	1.367	24.000	11.000	11.000	0.80	1.00	0.000
175.00	AIR 21 B2A/B4P	3	91.50	6.090	262.93	7.202	56.000	12.100	7.900	0.80	0.86	0.000
175.00	AIR 21 B4A/B2P	3	90.30	6.090	261.73	7.202	56.000	12.100	7.900	0.80	0.86	0.000
175.00	840590966	3	101.40	19.880	509.28	21.791	95.900	23.500	7.100	0.80	0.69	0.000
175.00	Ericsson KRY 112 144/1	3	11.00	0.410	21.92	0.891	6.900	6.100	2.700	0.80	0.70	0.000
175.00	Ericsson 4480 B71 + B85	3	93.00	2.850	165.84	3.533	21.800	15.700	7.500	0.80	0.67	0.000
175.00	VFA12-HD	3	774.00	18.900	1539.97	42.948	0.000	0.000	0.000	0.75	1.00	0.000
165.00	SWCP 2X7014	3	30.00	9.940	313.11	11.362	76.700	14.000	11.300	0.80	0.93	0.000
165.00	NHH-65B-R2B	6	43.70	8.080	248.34	9.389	72.000	11.900	7.100	0.80	0.83	0.000
165.00	MT6407-77A	3	79.40	4.690	200.77	5.650	35.100	16.100	5.500	0.80	0.70	0.000
165.00	B2/B66A RRH-BR049	3	84.40	1.880	136.30	2.438	15.000	15.000	10.000	0.80	0.67	0.000
165.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	70.30	1.880	119.55	2.438	15.000	15.000	8.100	0.80	0.67	0.000
165.00	Raycap RVZDC-6627-PF-48	1	32.00	4.060	147.36	4.892	29.500	16.500	12.600	0.80	1.00	0.000
165.00	(3) V-Brace Kits	1	650.00	15.500	1477.05	31.935	0.000	0.000	0.000	0.75	1.00	0.000
165.00	(3) Stabilizer Kit	1	180.00	6.100	409.03	12.568	0.000	0.000	0.000	0.75	1.00	0.000
155.00	MX08FRO665-21	3	64.50	12.490	355.37	13.955	72.000	20.000	8.000	0.80	0.74	0.000
155.00	(3) MTC3975083	1	1056.4	29.450	2088.86	66.456	0.000	0.000	0.000	0.75	1.00	0.000
155.00	TA08025-B605	3	75.00	1.960	127.30	2.521	15.800	15.000	9.100	0.80	0.67	0.000
155.00	TA08025-B604	3	63.90	1.960	114.53	2.521	15.800	15.000	7.900	0.80	0.67	0.000
155.00	RDIDC-9181-PF-48	1	21.85	2.010	74.98	2.578	16.570	14.570	8.460	1.00	1.00	0.000
138.00	T-Arm (Flat)	3	400.00	10.000	675.27	18.602	0.000	0.000	0.000	0.75	0.75	0.000
138.00	APXVTM14-C-I20	3	56.20	6.340	212.18	7.435	56.300	12.600	6.300	0.80	0.78	0.000
138.00	APXVSP18-C	3	57.00	8.020	227.40	10.774	72.000	11.800	7.000	0.80	0.83	0.000
138.00	1900MHz RRH	3	44.00	3.800	151.61	5.170	23.000	13.000	17.000	0.80	0.67	0.000
138.00	1900MHz RRH	3	44.00	3.800	151.61	5.170	23.000	13.000	17.000	0.80	0.67	0.000
138.00	800 MHz RRH	3	53.00	2.490	125.91	3.618	19.700	13.000	10.800	0.80	0.67	0.000
138.00	ALU 800MHz External Notch Filt	3	8.80	0.780	26.19	1.418	10.000	8.000	3.000	0.80	0.50	0.000
138.00	ACU-A20-N	4	1.00	0.140	5.24	0.432	4.000	2.000	3.500	0.80	0.50	0.000
Totals:		107	11,947.56		30,920.91						Number of Appurtenances :	39

Loading Summary

Structure: MA12227-A-SBA	Code: TIA-222-G	3/23/2022
Site Name: Truro	Exposure: B	
Height: 190.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 6

Linear Appurtenances Properties

Elev. From (ft)	Elev. To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	187.00	1 5/8" Coax	12	1.98	1.04	100.00	3	Individual IR		N	0.50	1.00	
0.00	187.00	3" Conduit	2	3.02	1.78	100.00	3	Individual IR		N	0.50	1.00	
0.00	187.00	3/4" DC	4	0.75	0.40	100.00	3	Individual NR		N	0.50	1.00	0
0.00	187.00	7/16" Fiber	2	0.44	0.16	100.00	3	Individual NR		N	0.50	1.00	0
0.00	187.00	Climbing Ladder	1	3.00	6.90	100.00	1	Individual NR		N	0.50	1.00	
0.00	187.00	Safety Cable	1	0.38	0.27	100.00	1	Individual NR		N	0.50	1.00	
0.00	187.00	W/G Ladder	1	0.25	6.00	100.00	3	Individual NR		N	0.50	1.00	
0.00	175.00	1 5/8" Coax	4	1.98	1.04	50.00	1	Block		N	0.50	0.78	
0.00	175.00	1-1/4" Fiber	1	1.25	0.95	100.00	1	Individual NR		N	0.50	1.00	
0.00	175.00	1.9" Fiber	1	1.90	0.95	100.00	1	Individual NR		N	0.50	1.00	
0.00	175.00	7/8" Hybrid	3	0.88	0.65	100.00	1	Individual IR		N	0.50	0.70	
0.00	175.00	W/G Ladder	1	1.50	6.00	100.00	1	Individual NR		N	0.50	1.00	
0.00	165.00	1 5/8" Hybrid	1	1.98	1.04	100.00	2	Individual IR		N	0.50	0.76	
0.00	165.00	W/G Ladder	1	2.50	6.00	100.00	2	Individual NR		N	0.50	1.00	
0.00	155.00	1.75" Hybrid	1	1.75	1.99	100.00	2	Individual NR		N	1.00	1.00	
0.00	138.00	1 1/4" Coax	3	1.55	0.66	100.00	2	Individual IR		N	0.50	0.65	
0.00	138.00	5/8" Fiber	1	0.63	0.15	100.00	2	Individual NR		N	0.50	1.00	
0.00	138.00	W/G Ladder	1	2.00	6.00	100.00	1	Individual NR		N	0.50	1.00	

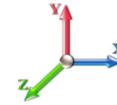
Section Forces

Structure: MA12227-A-SBA
Site Name: Truro
Height: 190.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

3/23/2022



Page: 7

Load Case: 1.2D + 1.6W Normal Wind

1.2D + 1.6W 108 mph Wind at Normal To Face

Wind Load Factor: 1.60
Dead Load Factor: 1.20
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	17.77	44.239	17.52	0.00	0.14	2.81	1.00	1.00	0.00	53.54	104.28	0.00	10,021.0	0.0	3632.60	1879.02	5,511.62
2	30.0	17.78	40.806	17.52	0.00	0.14	2.79	1.00	1.00	0.00	50.12	104.28	0.00	9,777.1	0.0	3385.31	1880.61	5,265.92
3	50.0	20.58	37.445	16.69	0.00	0.15	2.78	1.00	1.00	0.00	46.25	104.28	0.00	9,040.8	0.0	3601.03	2176.13	5,777.15
4	70.0	22.65	29.822	16.69	0.00	0.14	2.81	1.00	1.00	0.00	38.44	104.28	0.00	8,499.4	0.0	3326.19	2395.71	5,721.91
5	90.0	24.34	26.961	15.85	0.00	0.14	2.79	1.00	1.00	0.00	35.21	104.28	0.00	7,822.6	0.0	3253.28	2574.06	5,827.34
6	110.0	25.77	26.314	14.19	0.00	0.16	2.75	1.00	1.00	0.00	33.95	104.28	0.00	6,419.3	0.0	3270.69	2725.96	5,996.64
7	130.0	27.03	19.196	13.35	0.00	0.15	2.79	1.00	1.00	0.00	26.45	103.06	0.00	5,958.2	0.0	2708.50	2821.22	5,529.72
8	150.0	28.16	16.544	12.52	0.00	0.16	2.75	1.00	1.00	0.00	23.45	91.41	0.00	4,903.1	0.0	2469.73	2562.55	5,032.28
9	170.0	29.19	14.015	11.68	0.00	0.17	2.69	1.00	1.00	0.00	20.58	78.73	0.00	4,171.5	0.0	2201.24	2223.22	4,424.47
10	185.0	29.90	7.266	5.01	0.00	0.20	2.59	1.00	1.00	0.00	10.14	21.76	0.00	1,526.8	0.0	1069.39	609.01	1,678.40
														68,140.8	0.0			50,765.45

Load Case: 1.2D + 1.6W 60° Wind

1.2D + 1.6W 108 mph Wind at 60° From Face

Wind Load Factor: 1.60
Dead Load Factor: 1.20
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	17.77	44.239	17.52	0.00	0.14	2.81	0.80	1.00	0.00	44.69	104.28	0.00	10,021.0	0.0	3032.26	1879.02	4,911.29
2	30.0	17.78	40.806	17.52	0.00	0.14	2.79	0.80	1.00	0.00	41.95	104.28	0.00	9,777.1	0.0	2834.02	1880.61	4,714.63
3	50.0	20.58	37.445	16.69	0.00	0.15	2.78	0.80	1.00	0.00	38.76	104.28	0.00	9,040.8	0.0	3017.87	2176.13	5,194.00
4	70.0	22.65	29.822	16.69	0.00	0.14	2.81	0.80	1.00	0.00	32.47	104.28	0.00	8,499.4	0.0	2810.09	2395.71	5,205.80
5	90.0	24.34	26.961	15.85	0.00	0.14	2.79	0.80	1.00	0.00	29.82	104.28	0.00	7,822.6	0.0	2755.10	2574.06	5,329.16
6	110.0	25.77	26.314	14.19	0.00	0.16	2.75	0.80	1.00	0.00	28.69	104.28	0.00	6,419.3	0.0	2763.68	2725.96	5,489.64
7	130.0	27.03	19.196	13.35	0.00	0.15	2.79	0.80	1.00	0.00	22.61	103.06	0.00	5,958.2	0.0	2315.29	2821.22	5,136.51
8	150.0	28.16	16.544	12.52	0.00	0.16	2.75	0.80	1.00	0.00	20.14	91.41	0.00	4,903.1	0.0	2121.28	2562.55	4,683.84
9	170.0	29.19	14.015	11.68	0.00	0.17	2.69	0.80	1.00	0.00	17.78	78.73	0.00	4,171.5	0.0	1901.49	2223.22	4,124.71
10	185.0	29.90	7.266	5.01	0.00	0.20	2.59	0.80	1.00	0.00	8.69	21.76	0.00	1,526.8	0.0	916.18	609.01	1,525.19
														68,140.8	0.0			46,314.76

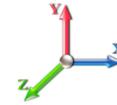
Section Forces

Structure: MA12227-A-SBA
Site Name: Truro
Height: 190.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

3/23/2022



Page: 8

Load Case: 1.2D + 1.6W 90° Wind

1.2D + 1.6W 108 mph Wind at 90° From Face

Wind Load Factor: 1.60
Dead Load Factor: 1.20
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	17.77	44.239	17.52	0.00	0.14	2.81	0.85	1.00	0.00	46.90	104.28	0.00	10,021.1	0.0	3182.35	1879.02	5,061.37
2	30.0	17.78	40.806	17.52	0.00	0.14	2.79	0.85	1.00	0.00	43.99	104.28	0.00	9,777.1	0.0	2971.84	1880.61	4,852.45
3	50.0	20.58	37.445	16.69	0.00	0.15	2.78	0.85	1.00	0.00	40.63	104.28	0.00	9,040.8	0.0	3163.66	2176.13	5,339.79
4	70.0	22.65	29.822	16.69	0.00	0.14	2.81	0.85	1.00	0.00	33.97	104.28	0.00	8,499.4	0.0	2939.12	2395.71	5,334.83
5	90.0	24.34	26.961	15.85	0.00	0.14	2.79	0.85	1.00	0.00	31.17	104.28	0.00	7,822.6	0.0	2879.64	2574.06	5,453.70
6	110.0	25.77	26.314	14.19	0.00	0.16	2.75	0.85	1.00	0.00	30.00	104.28	0.00	6,419.3	0.0	2890.43	2725.96	5,616.39
7	130.0	27.03	19.196	13.35	0.00	0.15	2.79	0.85	1.00	0.00	23.57	103.06	0.00	5,958.2	0.0	2413.59	2821.22	5,234.81
8	150.0	28.16	16.544	12.52	0.00	0.16	2.75	0.85	1.00	0.00	20.97	91.41	0.00	4,903.1	0.0	2208.40	2562.55	4,770.95
9	170.0	29.19	14.015	11.68	0.00	0.17	2.69	0.85	1.00	0.00	18.48	78.73	0.00	4,171.5	0.0	1976.43	2223.22	4,199.65
10	185.0	29.90	7.266	5.01	0.00	0.20	2.59	0.85	1.00	0.00	9.05	21.76	0.00	1,526.8	0.0	954.48	609.01	1,563.49
														68,140.8	0.0			47,427.44

Load Case: 0.9D + 1.6W Normal Wind

0.9D + 1.6W 108 mph Wind at Normal To Face

Wind Load Factor: 1.60
Dead Load Factor: 0.90
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	17.77	44.239	17.52	0.00	0.14	2.81	1.00	1.00	0.00	53.54	104.28	0.00	7,516.4	0.0	3632.60	1879.02	5,511.62
2	30.0	17.78	40.806	17.52	0.00	0.14	2.79	1.00	1.00	0.00	50.12	104.28	0.00	7,332.9	0.0	3385.31	1880.61	5,265.92
3	50.0	20.58	37.445	16.69	0.00	0.15	2.78	1.00	1.00	0.00	46.25	104.28	0.00	6,780.6	0.0	3601.03	2176.13	5,777.15
4	70.0	22.65	29.822	16.69	0.00	0.14	2.81	1.00	1.00	0.00	38.44	104.28	0.00	6,374.5	0.0	3326.19	2395.71	5,721.91
5	90.0	24.34	26.961	15.85	0.00	0.14	2.79	1.00	1.00	0.00	35.21	104.28	0.00	5,867.0	0.0	3253.28	2574.06	5,827.34
6	110.0	25.77	26.314	14.19	0.00	0.16	2.75	1.00	1.00	0.00	33.95	104.28	0.00	4,814.4	0.0	3270.69	2725.96	5,996.64
7	130.0	27.03	19.196	13.35	0.00	0.15	2.79	1.00	1.00	0.00	26.45	103.06	0.00	4,468.7	0.0	2708.50	2821.22	5,529.72
8	150.0	28.16	16.544	12.52	0.00	0.16	2.75	1.00	1.00	0.00	23.45	91.41	0.00	3,677.3	0.0	2469.73	2562.55	5,032.28
9	170.0	29.19	14.015	11.68	0.00	0.17	2.69	1.00	1.00	0.00	20.58	78.73	0.00	3,128.6	0.0	2201.24	2223.22	4,424.47
10	185.0	29.90	7.266	5.01	0.00	0.20	2.59	1.00	1.00	0.00	10.14	21.76	0.00	1,145.1	0.0	1069.39	609.01	1,678.40
														51,105.6	0.0			50,765.45

Section Forces

Structure: MA12227-A-SBA
Site Name: Truro
Height: 190.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

3/23/2022



Page: 9

Load Case: 0.9D + 1.6W 60° Wind

0.9D + 1.6W 108 mph Wind at 60° From Face

Wind Load Factor: 1.60
Dead Load Factor: 0.90
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	Wind qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	17.77	44.239	17.52	0.00	0.14	2.81	0.80	1.00	0.00	44.69	104.28	0.00	7,516.4	0.0	3032.26	1879.02	4,911.29
2	30.0	17.78	40.806	17.52	0.00	0.14	2.79	0.80	1.00	0.00	41.95	104.28	0.00	7,332.9	0.0	2834.02	1880.61	4,714.63
3	50.0	20.58	37.445	16.69	0.00	0.15	2.78	0.80	1.00	0.00	38.76	104.28	0.00	6,780.6	0.0	3017.87	2176.13	5,194.00
4	70.0	22.65	29.822	16.69	0.00	0.14	2.81	0.80	1.00	0.00	32.47	104.28	0.00	6,374.5	0.0	2810.09	2395.71	5,205.80
5	90.0	24.34	26.961	15.85	0.00	0.14	2.79	0.80	1.00	0.00	29.82	104.28	0.00	5,867.0	0.0	2755.10	2574.06	5,329.16
6	110.0	25.77	26.314	14.19	0.00	0.16	2.75	0.80	1.00	0.00	28.69	104.28	0.00	4,814.4	0.0	2763.68	2725.96	5,489.64
7	130.0	27.03	19.196	13.35	0.00	0.15	2.79	0.80	1.00	0.00	22.61	103.06	0.00	4,468.7	0.0	2315.29	2821.22	5,136.51
8	150.0	28.16	16.544	12.52	0.00	0.16	2.75	0.80	1.00	0.00	20.14	91.41	0.00	3,677.3	0.0	2121.28	2562.55	4,683.84
9	170.0	29.19	14.015	11.68	0.00	0.17	2.69	0.80	1.00	0.00	17.78	78.73	0.00	3,128.6	0.0	1901.49	2223.22	4,124.71
10	185.0	29.90	7.266	5.01	0.00	0.20	2.59	0.80	1.00	0.00	8.69	21.76	0.00	1,145.1	0.0	916.18	609.01	1,525.19
														51,105.6	0.0			46,314.76

Load Case: 0.9D + 1.6W 90° Wind

0.9D + 1.6W 108 mph Wind at 90° From Face

Wind Load Factor: 1.60
Dead Load Factor: 0.90
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

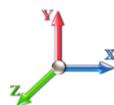
Sect Seq	Wind Height (ft)	Wind qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	17.77	44.239	17.52	0.00	0.14	2.81	0.85	1.00	0.00	46.90	104.28	0.00	7,516.4	0.0	3182.35	1879.02	5,061.37
2	30.0	17.78	40.806	17.52	0.00	0.14	2.79	0.85	1.00	0.00	43.99	104.28	0.00	7,332.9	0.0	2971.84	1880.61	4,852.45
3	50.0	20.58	37.445	16.69	0.00	0.15	2.78	0.85	1.00	0.00	40.63	104.28	0.00	6,780.6	0.0	3163.66	2176.13	5,339.79
4	70.0	22.65	29.822	16.69	0.00	0.14	2.81	0.85	1.00	0.00	33.97	104.28	0.00	6,374.5	0.0	2939.12	2395.71	5,334.83
5	90.0	24.34	26.961	15.85	0.00	0.14	2.79	0.85	1.00	0.00	31.17	104.28	0.00	5,867.0	0.0	2879.64	2574.06	5,453.70
6	110.0	25.77	26.314	14.19	0.00	0.16	2.75	0.85	1.00	0.00	30.00	104.28	0.00	4,814.4	0.0	2890.43	2725.96	5,616.39
7	130.0	27.03	19.196	13.35	0.00	0.15	2.79	0.85	1.00	0.00	23.57	103.06	0.00	4,468.7	0.0	2413.59	2821.22	5,234.81
8	150.0	28.16	16.544	12.52	0.00	0.16	2.75	0.85	1.00	0.00	20.97	91.41	0.00	3,677.3	0.0	2208.40	2562.55	4,770.95
9	170.0	29.19	14.015	11.68	0.00	0.17	2.69	0.85	1.00	0.00	18.48	78.73	0.00	3,128.6	0.0	1976.43	2223.22	4,199.65
10	185.0	29.90	7.266	5.01	0.00	0.20	2.59	0.85	1.00	0.00	9.05	21.76	0.00	1,145.1	0.0	954.48	609.01	1,563.49
														51,105.6	0.0			47,427.44

Section Forces

Structure: MA12227-A-SBA
Site Name: Truro
Height: 190.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

3/23/2022

 Page: 10



Load Case: 1.2D + 1.0Di + 1.0Wi Normal Wind

1.2D + 1.0Di + 1.0Wi 40 mph Wind at Normal From Face

Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 1.00	Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Area (sqft)	Area (sqft)					
1	10.0	2.44	44.239	56.44	38.91	0.23	2.51	1.00	1.00	1.33	76.95	166.42	48.81	17,862.	7840.7	400.25	342.42	742.67
2	30.0	2.44	40.806	58.41	40.88	0.24	2.46	1.00	1.00	1.49	74.86	172.09	54.48	18,378.	8601.1	382.02	357.48	739.50
3	50.0	2.82	37.445	57.05	40.37	0.25	2.43	1.00	1.00	1.56	70.86	169.73	62.55	17,807.	8766.7	412.88	426.23	839.11
4	70.0	3.11	29.822	55.72	39.03	0.25	2.43	1.00	1.00	1.62	62.46	171.51	64.69	16,874.	8375.0	400.50	476.34	876.85
5	90.0	3.34	26.961	53.13	37.27	0.27	2.39	1.00	1.00	1.66	58.25	172.89	66.33	16,101.	8278.7	395.32	515.75	911.07
6	110.0	3.54	26.314	55.96	41.77	0.31	2.27	1.00	1.00	1.69	60.02	174.01	67.68	14,876.	8457.0	409.04	543.61	952.65
7	130.0	3.71	19.196	52.02	38.67	0.31	2.27	1.00	1.00	1.72	50.55	172.43	68.24	13,717.	7758.8	360.91	566.44	927.35
8	150.0	3.86	16.544	47.99	35.48	0.34	2.20	1.00	1.00	1.75	45.87	149.62	62.54	11,865.	6962.6	332.04	508.82	840.85
9	170.0	4.00	14.015	43.98	32.30	0.37	2.12	1.00	1.00	1.77	41.49	128.27	51.54	10,202.	6031.0	299.54	425.18	724.72
10	185.0	4.10	7.266	24.43	19.42	0.50	1.91	1.00	1.00	1.78	23.93	33.58	14.55	3,825.8	2299.0	159.08	92.91	251.99
														141,511.5	73370.7			7,806.77

Load Case: 1.2D + 1.0Di + 1.0Wi 60° Wind

1.2D + 1.0Di + 1.0Wi 40 mph Wind at 60° From Face

Wind Load Factor: 1.00	Wind Importance Factor: 1.00
Dead Load Factor: 1.20	
Ice Dead Load Factor: 1.00	Ice Importance Factor: 1.00

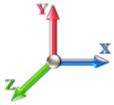
Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Area (sqft)	Area (sqft)					
1	10.0	2.44	44.239	56.44	38.91	0.23	2.51	0.80	1.00	1.33	68.10	166.42	48.81	17,862.	7840.7	354.23	342.42	696.65
2	30.0	2.44	40.806	58.41	40.88	0.24	2.46	0.80	1.00	1.49	66.70	172.09	54.48	18,378.	8601.1	340.37	357.48	697.85
3	50.0	2.82	37.445	57.05	40.37	0.25	2.43	0.80	1.00	1.56	63.37	169.73	62.55	17,807.	8766.7	369.25	426.23	795.48
4	70.0	3.11	29.822	55.72	39.03	0.25	2.43	0.80	1.00	1.62	56.50	171.51	64.69	16,874.	8375.0	362.26	476.34	838.60
5	90.0	3.34	26.961	53.13	37.27	0.27	2.39	0.80	1.00	1.66	52.86	172.89	66.33	16,101.	8278.7	358.73	515.75	874.48
6	110.0	3.54	26.314	55.96	41.77	0.31	2.27	0.80	1.00	1.69	54.76	174.01	67.68	14,876.	8457.0	373.17	543.61	916.79
7	130.0	3.71	19.196	52.02	38.67	0.31	2.27	0.80	1.00	1.72	46.71	172.43	68.24	13,717.	7758.8	333.50	566.44	899.93
8	150.0	3.86	16.544	47.99	35.48	0.34	2.20	0.80	1.00	1.75	42.56	149.62	62.54	11,865.	6962.6	308.08	508.82	816.90
9	170.0	4.00	14.015	43.98	32.30	0.37	2.12	0.80	1.00	1.77	38.69	128.27	51.54	10,202.	6031.0	279.30	425.18	704.48
10	185.0	4.10	7.266	24.43	19.42	0.50	1.91	0.80	1.00	1.78	22.48	33.58	14.55	3,825.8	2299.0	149.42	92.91	242.33
														141,511.5	73370.7			7,483.51

Section Forces

Structure: MA12227-A-SBA
Site Name: Truro
Height: 190.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

3/23/2022

 Page: 11



Load Case: 1.2D + 1.0Di + 1.0Wi 90° Wind

1.2D + 1.0Di + 1.0Wi 40 mph Wind at 90° From Face

Wind Load Factor: 1.00
Dead Load Factor: 1.20
Ice Dead Load Factor: 1.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Linear Area (sqft)	Linear Area (sqft)					
1	10.0	2.44	44.239	56.44	38.91	0.23	2.51	0.85	1.00	1.33	70.31	166.42	48.81	17,862.7	7840.7	365.73	342.42	708.15
2	30.0	2.44	40.806	58.41	40.88	0.24	2.46	0.85	1.00	1.49	68.74	172.09	54.48	18,378.0	8601.1	350.78	357.48	708.27
3	50.0	2.82	37.445	57.05	40.37	0.25	2.43	0.85	1.00	1.56	65.25	169.73	62.55	17,807.0	8766.7	380.16	426.23	806.39
4	70.0	3.11	29.822	55.72	39.03	0.25	2.43	0.85	1.00	1.62	57.99	171.51	64.69	16,874.0	8375.0	371.82	476.34	848.16
5	90.0	3.34	26.961	53.13	37.27	0.27	2.39	0.85	1.00	1.66	54.21	172.89	66.33	16,101.0	8278.7	367.88	515.75	883.63
6	110.0	3.54	26.314	55.96	41.77	0.31	2.27	0.85	1.00	1.69	56.07	174.01	67.68	14,876.0	8457.0	382.14	543.61	925.75
7	130.0	3.71	19.196	52.02	38.67	0.31	2.27	0.85	1.00	1.72	47.67	172.43	68.24	13,717.0	7758.8	340.35	566.44	906.79
8	150.0	3.86	16.544	47.99	35.48	0.34	2.20	0.85	1.00	1.75	43.38	149.62	62.54	11,865.0	6962.6	314.07	508.82	822.89
9	170.0	4.00	14.015	43.98	32.30	0.37	2.12	0.85	1.00	1.77	39.39	128.27	51.54	10,202.0	6031.0	284.36	425.18	709.54
10	185.0	4.10	7.266	24.43	19.42	0.50	1.91	0.85	1.00	1.78	22.84	33.58	14.55	3,825.8	2299.0	151.84	92.91	244.75
													141,511.5	73370.7			7,564.32	

Load Case: 1.0D + 1.0W Normal Wind

1.0D + 1.0W 60 mph Wind at Normal To Face

Wind Load Factor: 1.00
Dead Load Factor: 1.00
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
												Linear Area (sqft)	Linear Area (sqft)					
1	10.0	5.48	44.239	17.52	0.00	0.14	2.81	1.00	1.00	0.00	54.17	104.28	0.00	8,351.6	0.0	708.99	362.47	1,071.45
2	30.0	5.49	40.806	17.52	0.00	0.14	2.79	1.00	1.00	0.00	50.74	104.28	0.00	8,147.6	0.0	661.18	362.77	1,023.95
3	50.0	6.35	37.445	16.69	0.00	0.15	2.78	1.00	1.00	0.00	46.91	104.28	0.00	7,534.0	0.0	704.66	419.78	1,124.43
4	70.0	6.99	29.822	16.69	0.00	0.14	2.81	1.00	1.00	0.00	39.28	104.28	0.00	7,082.8	0.0	655.62	462.14	1,117.76
5	90.0	7.51	26.961	15.85	0.00	0.14	2.79	1.00	1.00	0.00	35.95	104.28	0.00	6,518.9	0.0	640.71	496.54	1,137.25
6	110.0	7.96	26.314	14.19	0.00	0.16	2.75	1.00	1.00	0.00	34.37	104.28	0.00	5,349.4	0.0	638.81	525.84	1,164.65
7	130.0	8.34	19.196	13.35	0.00	0.15	2.79	1.00	1.00	0.00	26.77	103.06	0.00	4,965.2	0.0	528.86	544.22	1,073.08
8	150.0	8.69	16.544	12.52	0.00	0.16	2.75	1.00	1.00	0.00	23.66	91.41	0.00	4,085.9	0.0	480.54	494.32	974.86
9	170.0	9.01	14.015	11.68	0.00	0.17	2.69	1.00	1.00	0.00	20.68	78.73	0.00	3,476.2	0.0	426.50	428.86	855.36
10	185.0	9.23	7.266	5.01	0.00	0.20	2.59	1.00	1.00	0.00	10.14	21.76	0.00	1,272.3	0.0	206.29	117.48	323.77
													56,784.0	0.0			9,866.56	

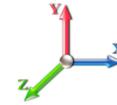
Section Forces

Structure: MA12227-A-SBA
Site Name: Truro
Height: 190.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

3/23/2022



Page: 12

Load Case: 1.0D + 1.0W 60° Wind

1.0D + 1.0W 60 mph Wind at 60° From Face

Wind Load Factor: 1.00
Dead Load Factor: 1.00
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	5.48	44.239	17.52	0.00	0.14	2.81	0.80	1.00	0.00	45.32	104.28	0.00	8,351.6	0.0	593.18	362.47	955.65
2	30.0	5.49	40.806	17.52	0.00	0.14	2.79	0.80	1.00	0.00	42.58	104.28	0.00	8,147.6	0.0	554.83	362.77	917.61
3	50.0	6.35	37.445	16.69	0.00	0.15	2.78	0.80	1.00	0.00	39.42	104.28	0.00	7,534.0	0.0	592.16	419.78	1,011.94
4	70.0	6.99	29.822	16.69	0.00	0.14	2.81	0.80	1.00	0.00	33.31	104.28	0.00	7,082.8	0.0	556.07	462.14	1,018.20
5	90.0	7.51	26.961	15.85	0.00	0.14	2.79	0.80	1.00	0.00	30.56	104.28	0.00	6,518.9	0.0	544.61	496.54	1,041.15
6	110.0	7.96	26.314	14.19	0.00	0.16	2.75	0.80	1.00	0.00	29.11	104.28	0.00	5,349.4	0.0	541.01	525.84	1,066.85
7	130.0	8.34	19.196	13.35	0.00	0.15	2.79	0.80	1.00	0.00	22.93	103.06	0.00	4,965.2	0.0	453.01	544.22	997.23
8	150.0	8.69	16.544	12.52	0.00	0.16	2.75	0.80	1.00	0.00	20.35	91.41	0.00	4,085.9	0.0	413.33	494.32	907.65
9	170.0	9.01	14.015	11.68	0.00	0.17	2.69	0.80	1.00	0.00	17.87	78.73	0.00	3,476.2	0.0	368.68	428.86	797.54
10	185.0	9.23	7.266	5.01	0.00	0.20	2.59	0.80	1.00	0.00	8.69	21.76	0.00	1,272.3	0.0	176.73	117.48	294.21
														56,784.0	0.0			9,008.02

Load Case: 1.0D + 1.0W 90° Wind

1.0D + 1.0W 60 mph Wind at 90° From Face

Wind Load Factor: 1.00
Dead Load Factor: 1.00
Ice Dead Load Factor: 0.00

Wind Importance Factor: 1.00
Ice Importance Factor: 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Flat Area (sqft)	Total Round Area (sqft)	Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Linear Area (sqft)	Linear Area (sqft)	Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
1	10.0	5.48	44.239	17.52	0.00	0.14	2.81	0.85	1.00	0.00	47.53	104.28	0.00	8,351.6	0.0	622.13	362.47	984.60
2	30.0	5.49	40.806	17.52	0.00	0.14	2.79	0.85	1.00	0.00	44.62	104.28	0.00	8,147.6	0.0	581.42	362.77	944.19
3	50.0	6.35	37.445	16.69	0.00	0.15	2.78	0.85	1.00	0.00	41.30	104.28	0.00	7,534.0	0.0	620.29	419.78	1,040.06
4	70.0	6.99	29.822	16.69	0.00	0.14	2.81	0.85	1.00	0.00	34.80	104.28	0.00	7,082.8	0.0	580.95	462.14	1,043.09
5	90.0	7.51	26.961	15.85	0.00	0.14	2.79	0.85	1.00	0.00	31.91	104.28	0.00	6,518.9	0.0	568.64	496.54	1,065.18
6	110.0	7.96	26.314	14.19	0.00	0.16	2.75	0.85	1.00	0.00	30.43	104.28	0.00	5,349.4	0.0	565.46	525.84	1,091.30
7	130.0	8.34	19.196	13.35	0.00	0.15	2.79	0.85	1.00	0.00	23.89	103.06	0.00	4,965.2	0.0	471.97	544.22	1,016.19
8	150.0	8.69	16.544	12.52	0.00	0.16	2.75	0.85	1.00	0.00	21.17	91.41	0.00	4,085.9	0.0	430.13	494.32	924.45
9	170.0	9.01	14.015	11.68	0.00	0.17	2.69	0.85	1.00	0.00	18.57	78.73	0.00	3,476.2	0.0	383.13	428.86	812.00
10	185.0	9.23	7.266	5.01	0.00	0.20	2.59	0.85	1.00	0.00	9.05	21.76	0.00	1,272.3	0.0	184.12	117.48	301.60
														56,784.0	0.0			9,222.66

Force/Stress Compression Summary

Structure: MA12227-A-SBA

Code: TIA-222-G

3/23/2022

Site Name: Truro

Exposure: B

Height: 190.00 (ft)

Crest Height: 0.00

Base Elev: 0.000 (ft)

Site Class: D - Stiff Soil

Gh: 0.85

Topography: 1

Struct Class: II



Page: 13

LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
						X	Y	Z				
1	20	SOL - 5 1/4" SOLID	-400.81	1.2D + 1.6W Normal Wind	6.51	100	100	100	59.51	50.00	751.93	53.3 Member X
2	40	SOL - 5 1/4" SOLID	-359.56	1.2D + 1.6W Normal Wind	6.51	100	100	100	59.51	50.00	751.93	47.8 Member X
3	60	SOL - 5" SOLID	-316.20	1.2D + 1.6W Normal Wind	6.51	100	100	100	62.48	50.00	664.15	47.6 Member X
4	80	SOL - 5" SOLID	-272.20	1.2D + 1.6W Normal Wind	6.51	100	100	100	62.48	50.00	664.15	41.0 Member X
5	100	SOL - 4 3/4" SOLID	-227.27	1.2D + 1.6W Normal Wind	6.51	100	100	100	65.77	50.00	581.20	39.1 Member X
6	120	SOL - 4 1/4" SOLID	-183.32	1.2D + 1.6W Normal Wind	4.88	100	100	100	55.13	50.00	511.15	35.9 Member X
7	140	SOL - 4" SOLID	-136.44	1.2D + 1.6W Normal Wind	4.88	100	100	100	58.58	50.00	439.99	31.0 Member X
8	160	SOL - 3 3/4" SOLID	-86.64	1.2D + 1.6W Normal Wind	4.88	100	100	100	62.48	50.00	373.59	23.2 Member X
9	180	SOL - 3 1/2" SOLID	-39.59	1.2D + 1.6W Normal Wind	4.88	100	100	100	66.95	50.00	311.97	12.7 Member X
10	190	SOL - 3" SOLID	-8.47	1.2D + 1.6W Normal Wind	0.25	100	100	100	4.01	50.00	317.73	2.7 Member X

Splices

Sect	Top Elev	Load Case	Top Splice				Load Case	Bottom Splice				
			Force (kips)	Cap (kips)	Use %	Bolt Type		Num Bolts	Force (kips)	Cap (kips)	Use %	Bolt Type
1	20	1.2D + 1.6W Normal Wind	368.39	0.00	0.0		1.2D + 1.6W Normal Wind	408.27	0.00			
2	40	1.2D + 1.6W Normal Wind	325.20	0.00	0.0		1.2D + 1.6W Normal Wind	368.39	0.00		1/2 A325	6
3	60	1.2D + 1.6W Normal Wind	281.20	0.00	0.0		1.2D + 1.6W Normal Wind	325.20	0.00		1/2 A325	6
4	80	1.2D + 1.6W Normal Wind	236.34	0.00	0.0		1.2D + 1.6W Normal Wind	281.20	0.00		1/2 A325	6
5	100	1.2D + 1.6W Normal Wind	190.39	0.00	0.0		1.2D + 1.6W Normal Wind	236.34	0.00		1/2 A325	6
6	120	1.2D + 1.6W Normal Wind	143.56	0.00	0.0		1.2D + 1.6W Normal Wind	190.39	0.00		3/8 A325	6
7	140	1.2D + 1.6W Normal Wind	93.43	0.00	0.0		1.2D + 1.6W Normal Wind	143.56	0.00		3/8 A325	6
8	160	1.2D + 1.6W Normal Wind	46.17	0.00	0.0		1.2D + 1.6W Normal Wind	93.43	0.00		3/8 A325	6
9	180	1.2D + 1.6W Normal Wind	8.71	0.00	0.0		1.2D + 1.6W Normal Wind	46.17	0.00		3/8 A325	6
10	190	1.2D + 1.0Di + 1.0Wi 60° Wind	0.39	0.00	0.0		1.2D + 1.6W Normal Wind	8.71	0.00		3/8 A325	6

HORIZONTAL MEMBERS

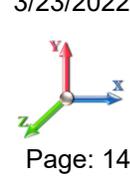
Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
						X	Y	Z								
1	20								0.00	0	0					
2	40								0.00	0	0					
3	60								0.00	0	0					
4	80								0.00	0	0					
5	100								0.00	0	0					
6	120								0.00	0	0					
7	140								0.00	0	0					
8	160								0.00	0	0					
9	180								0.00	0	0					
10	190	SAE - 2X2X0.1875	-0.13	0.9D + 1.6W 90° Wind	5.41	100	100	100	164.65	36.00	5.92	1	1	12.43	9.79	2 Member Z

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
						X	Y	Z								
1	20	SAE - 4X4X0.25	-11.4	1.2D + 1.6W 90° Wind	23.12	49	49	49	170.99	36.00	14.99	1	1	24.35	17.4	76 Member Z
2	40	SAE - 4X4X0.25	-12.0	1.2D + 1.6W 90° Wind	20.29	49	49	49	150.04	36.00	19.47	1	1	24.35	17.4	69 Bolt Bear
3	60	SAE - 4X4X0.25	-11.3	1.2D + 1.6W 90° Wind	18.59	49	49	49	137.49	36.00	23.19	1	1	24.35	17.4	65 Bolt Bear
4	80	SAE - 3.5X3.5X0.25	-10.5	1.2D + 1.6W 90° Wind	18.00	49	49	49	152.51	36.00	16.41	1	1	24.35	17.4	64 Member Z
5	100	SAE - 3.5X3.5X0.25	-10.1	1.2D + 1.6W 90° Wind	15.27	49	49	49	129.37	36.00	22.69	1	1	24.35	17.4	58 Bolt Bear
6	120	SAE - 3X3X0.1875	-8.94	1.2D + 1.6W 90° Wind	12.90	48	48	48	124.65	36.00	15.59	1	1	24.35	13.0	68 Bolt Bear

Force/Stress Compression Summary

Structure: MA12227-A-SBA	Code: TIA-222-G	3/23/2022
Site Name: Truro	Exposure: B	
Height: 190.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 14

DIAGONAL MEMBERS

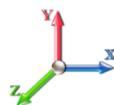
Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)		Bear Cap (kips)	Use %	Controls
						X	Y	Z					KL/R				
7	140	SAE - 2.5X2.5X0.25	-8.27	1.2D + 1.6W 90° Wind	12.45	48	48	48	146.07	36.00	12.60	1	1	24.35	17.4	66	Member Z
8	160	SAE - 2.5X2.5X0.1875	-6.95	1.2D + 1.6W 90° Wind	10.82	48	48	48	125.91	36.00	12.69	1	1	24.35	13.0	55	Member Z
9	180	SAE - 2.5X2.5X0.1875	-5.86	1.2D + 1.6W 90° Wind	9.25	48	48	48	110.71	36.00	15.33	1	1	24.35	13.0	45	Bolt Bear
10	190	SAE - 2X2X0.1875	-1.99	0.9D + 1.6W 90° Wind	6.91	47	47	47	104.15	36.00	13.00	1	1	12.43	9.79	20	Bolt Bear

Force/Stress Tension Summary

Structure: MA12227-A-SBA
Site Name: Truro
Height: 190.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

3/23/2022

 Page: 15



LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	20	SOL - 5 1/4" SOLID	341.05	0.9D + 1.6W 60° Wind	50	974.16	35.0	Member
2	40	SOL - 5 1/4" SOLID	308.47	0.9D + 1.6W 60° Wind	50	974.16	31.7	Member
3	60	SOL - 5" SOLID	273.82	0.9D + 1.6W 60° Wind	50	883.58	31.0	Member
4	80	SOL - 5" SOLID	237.92	0.9D + 1.6W 60° Wind	50	883.58	26.9	Member
5	100	SOL - 4 3/4" SOLID	200.65	0.9D + 1.6W 60° Wind	50	797.45	25.2	Member
6	120	SOL - 4 1/4" SOLID	161.70	0.9D + 1.6W 60° Wind	50	638.37	25.3	Member
7	140	SOL - 4" SOLID	120.89	0.9D + 1.6W 60° Wind	50	565.47	21.4	Member
8	160	SOL - 3 3/4" SOLID	77.42	0.9D + 1.6W 60° Wind	50	497.03	15.6	Member
9	180	SOL - 3 1/2" SOLID	35.68	0.9D + 1.6W 60° Wind	50	432.95	8.2	Member
10	190	SOL - 3" SOLID	5.39	0.9D + 1.6W 60° Wind	50	318.11	1.7	Member

Splices

Sect	Top Elev	Top Splice					Bottom Splice						
		Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts	Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts
1	20	0.9D + 1.6W 60° Wind	308.07	0.00	0.0			0.9D + 1.6W 60° Wind	341.0	0.00			
2	40	0.9D + 1.6W 60° Wind	273.34	0.00	0.0			0.9D + 1.6W 60° Wind	308.0	663.98	46.4	1 1/2 A325	6
3	60	0.9D + 1.6W 60° Wind	237.48	0.00	0.0			0.9D + 1.6W 60° Wind	273.3	663.98	41.2	1 1/2 A325	6
4	80	0.9D + 1.6W 60° Wind	200.24	0.00	0.0			0.9D + 1.6W 60° Wind	237.4	663.98	35.8	1 1/2 A325	6
5	100	0.9D + 1.6W 60° Wind	161.33	0.00	0.0			0.9D + 1.6W 60° Wind	200.2	663.98	30.2	1 1/2 A325	6
6	120	0.9D + 1.6W 60° Wind	120.64	0.00	0.0			0.9D + 1.6W 60° Wind	161.3	545.68	29.6	1 3/8 A325	6
7	140	0.9D + 1.6W 60° Wind	77.18	0.00	0.0			0.9D + 1.6W 60° Wind	120.6	545.68	22.1	1 3/8 A325	6
8	160	0.9D + 1.6W 60° Wind	35.49	0.00	0.0			0.9D + 1.6W 60° Wind	77.18	545.68	14.1	1 3/8 A325	6
9	180	0.9D + 1.6W 60° Wind	5.23	0.00	0.0			0.9D + 1.6W 60° Wind	35.49	545.68	6.5	1 3/8 A325	6
10	190		0.00	0.00	0.0			0.9D + 1.6W 60° Wind	5.23	545.68	1.0	1 3/8 A325	6

HORIZONTAL MEMBERS

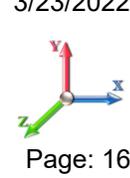
Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	-			36	0.00	0	0					
2	40	-			36	0.00	0	0					
3	60	-			36	0.00	0	0					
4	80	-			36	0.00	0	0					
5	100	-			36	0.00	0	0					
6	120	-			36	0.00	0	0					
7	140	-			36	0.00	0	0					
8	160	-			36	0.00	0	0					
9	180	-			36	0.00	0	0					
10	190	SAE - 2X2X0.1875	0.17	1.2D + 1.6W 60° Wind	36	18.58	1	1	12.43	9.79	7.50	2.3	Blck Shear

DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	SAE - 4X4X0.25	12.27	0.9D + 1.6W 90° Wind	36	55.14	1	1	24.35	17.40	16.95	72.4	Blck Shear
2	40	SAE - 4X4X0.25	11.88	0.9D + 1.6W 90° Wind	36	55.14	1	1	24.35	17.40	16.95	70.1	Blck Shear
3	60	SAE - 4X4X0.25	11.19	0.9D + 1.6W 90° Wind	36	55.14	1	1	24.35	17.40	16.95	66.0	Blck Shear
4	80	SAE - 3.5X3.5X0.25	10.55	1.2D + 1.6W 90° Wind	36	46.98	1	1	24.35	17.40	16.95	62.2	Blck Shear
5	100	SAE - 3.5X3.5X0.25	9.94	1.2D + 1.6W 90° Wind	36	46.98	1	1	24.35	17.40	16.95	58.6	Blck Shear
6	120	SAE - 3X3X0.1875	8.87	1.2D + 1.6W 90° Wind	36	29.44	1	1	24.35	13.05	10.67	83.1	Blck Shear
7	140	SAE - 2.5X2.5X0.25	8.36	1.2D + 1.6W 90° Wind	36	30.67	1	1	24.35	17.40	12.87	64.9	Blck Shear

Force/Stress Tension Summary

Structure: MA12227-A-SBA	Code: TIA-222-G	3/23/2022
Site Name: Truro	Exposure: B	
Height: 190.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
8	160	SAE - 2.5X2.5X0.1875	6.91	1.2D + 1.6W 90° Wind	36	23.31	1	1	24.35	13.05	9.65	71.5	Blck Shear
9	180	SAE - 2.5X2.5X0.1875	5.81	1.2D + 1.6W 90° Wind	36	23.31	1	1	24.35	13.05	9.65	60.2	Blck Shear
10	190	SAE - 2X2X0.1875	2.01	1.2D + 1.6W 90° Wind	36	18.58	1	1	12.43	9.79	7.50	26.8	Blck Shear

Seismic Section Forces

Structure: MA12227-A-SBA	Code: TIA-222-G	3/23/2022
Site Name: Truro	Exposure: B	
Height: 190.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II



Page: 17

Load Case: 1.2D + 1.0E

Dead Load Factor	1.20	Sds 0.175	Ss 0.1640	Fa 1.6000	Ke 0.0000
Seismic Load Factor	1.00	Sd1 0.091	S1 0.0570	Fv 2.4000	Kg 0.0000
Seismic Importance Factor	1.00	SA 0.152	R 3.0000	Vs 4.1917	f1 1.6710

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	10.00	8351.5	0.01	0.05	0.03	27.09
2	30.00	8147.6	0.05	0.07	0.04	56.67
3	50.00	7534.0	0.13	0.07	0.03	83.30
4	70.00	7082.8	0.26	0.05	0.02	116.77
5	90.00	6518.8	0.42	0.01	0.01	144.44
6	110.00	5349.3	0.63	-0.06	0.02	147.16
7	130.00	6958.1	0.88	-0.12	0.08	243.53
8	150.00	5774.4	1.18	-0.02	0.24	296.45
9	170.00	8876.3	1.51	0.53	0.56	758.88
10	185.00	4138.3	1.79	1.50	0.96	526.43

Load Case: 0.9D + 1.0E

Dead Load Factor	0.90	Sds 0.175	Ss 0.1640	Fa 1.6000	Ke 0.0000
Seismic Load Factor	1.00	Sd1 0.091	S1 0.0570	Fv 2.4000	Kg 0.0000
Seismic Importance Factor	1.00	SA 0.152	R 3.0000	Vs 4.1917	f1 1.6710

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	10.00	8351.5	0.01	0.05	0.03	27.09
2	30.00	8147.6	0.05	0.07	0.04	56.67
3	50.00	7534.0	0.13	0.07	0.03	83.30
4	70.00	7082.8	0.26	0.05	0.02	116.77
5	90.00	6518.8	0.42	0.01	0.01	144.44
6	110.00	5349.3	0.63	-0.06	0.02	147.16
7	130.00	6958.1	0.88	-0.12	0.08	243.53
8	150.00	5774.4	1.18	-0.02	0.24	296.45
9	170.00	8876.3	1.51	0.53	0.56	758.88
10	185.00	4138.3	1.79	1.50	0.96	526.43

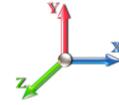
Support Forces Summary

Structure: MA12227-A-SBA
Site Name: Truro
Height: 190.00 (ft)
Base Elev: 0.000 (ft)
Gh: 0.85

Topography: 1

Code: TIA-222-G
Exposure: B
Crest Height: 0.00
Site Class: D - Stiff Soil
Struct Class: II

3/23/2022



Page: 18

Load Case	Node	FX (kips)	FY (kips)	FZ (kips)	(-) = Uplift (+) = Down
1.2D + 1.6W Normal Wind	1	-0.01	407.36	-39.25	
	1a	12.48	-162.45	-13.74	
	1b	-12.47	-162.44	-13.76	
1.2D + 1.6W 60° Wind	1	-4.98	207.62	-19.20	
	1a	-19.12	207.62	5.29	
	1b	-29.82	-332.75	-17.22	
1.2D + 1.6W 90° Wind	1	-6.01	27.49	-1.45	
	1a	-29.73	343.87	13.82	
	1b	-27.67	-288.88	-12.38	
0.9D + 1.6W Normal Wind	1	-0.01	400.14	-38.88	
	1a	12.79	-169.14	-13.93	
	1b	-12.78	-169.13	-13.94	
0.9D + 1.6W 60° Wind	1	-4.99	200.58	-18.83	
	1a	-18.80	200.58	5.10	
	1b	-30.14	-339.30	-17.40	
0.9D + 1.6W 90° Wind	1	-6.01	20.62	-1.08	
	1a	-29.41	336.70	13.63	
	1b	-27.99	-295.46	-12.55	
1.2D + 1.0Di + 1.0Wi Normal Wind	1	0.00	113.46	-4.51	
	1a	3.01	28.99	-2.66	
	1b	-3.01	29.03	-2.66	
1.2D + 1.0Di + 1.0Wi 60° Wind	1	-0.76	84.62	-1.61	
	1a	-1.77	84.61	0.14	
	1b	-5.70	2.24	-3.29	
1.2D + 1.0Di + 1.0Wi 90° Wind	1	-0.89	57.15	1.12	
	1a	-3.37	105.02	1.44	
	1b	-5.33	9.30	-2.56	
1.2D + 1.0E	1	0.00	45.23	6.15	
	1a	7.12	18.63	-4.26	
	1b	-7.12	18.63	-4.26	
0.9D + 1.0E	1	0.00	38.34	6.54	
	1a	7.45	11.76	-4.45	
	1b	-7.45	11.76	-4.45	
1.0D + 1.0W Normal Wind	1	0.00	96.04	-8.57	
	1a	1.59	-13.66	-2.16	
	1b	-1.59	-13.65	-2.17	
1.0D + 1.0W 60° Wind	1	-0.98	57.61	-4.67	
	1a	-4.53	57.61	1.48	
	1b	-4.91	-46.49	-2.84	
1.0D + 1.0W 90° Wind	1	-1.17	22.91	-1.22	
	1a	-6.60	83.82	3.14	
	1b	-4.49	-38.00	-1.92	

Max Reactions

Leg

Overturing

Max Uplift: -339.30 (kips)

Max Down: 407.36 (kips)

Max Shear: 39.25 (kips)

Moment: 7401.92 (ft-kips)

Total Down: 82.48 (kips)

Total Shear: 66.75 (kips)

Analysis Summary

Structure: MA12227-A-SBA	Code: TIA-222-G	3/23/2022
Site Name: Truro	Exposure: B	
Height: 190.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 0.85	Topography: 1	Struct Class: II
		Page: 20



Max Reactions

	Leg	Overturning
Max Uplift:	-339.30 (kips)	Moment: 7401.92 (ft-kips)
Max Down:	407.36 (kips)	Total Down: 82.48 (kips)
Max Shear:	39.25 (kips)	Total Shear: 66.75 (kips)

Anchor Bolts

Bolt Size (in.): 2.00	Number Bolts: 8
Yield Strength (Ksi): 50.00	Tensile Strength (Ksi): 65.00
Detail Type: A	

Interaction Ratio: 0.37

Max Usages

Max Leg: 53.3% (1.2D + 1.6W Normal Wind - Sect 1)
 Max Diag: 83.1% (1.2D + 1.6W 90° Wind - Sect 6)
 Max Horiz: 2.3% (1.2D + 1.6W 60° Wind - Sect 10)

Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
0.9D + 1.0E - Normal To Face	139.75	0.0276	0.0011	0.0266
	154.88	0.0336	0.0011	0.0234
	165.13	0.0379	0.0011	0.0239
	174.88	0.0420	0.0011	0.0247
	186.58	0.0471	0.0011	0.0248
	190.00	0.0485	-0.0011	0.0253
0.9D + 1.6W 108 mph Wind at 60° From Face	139.75	0.4960	0.0184	0.4466
	154.88	0.5973	0.0174	0.3792
	165.13	0.6692	0.0174	0.3821
	174.88	0.7367	0.0178	0.3928
	186.58	0.8174	0.0174	0.3913
	190.00	0.8402	-0.0169	0.3840
0.9D + 1.6W 108 mph Wind at 90° From Face	139.75	0.5022	-0.0210	0.4415
	154.88	0.6046	-0.0200	0.3867
	165.13	0.6772	-0.0201	0.3894
	174.88	0.7454	-0.0207	0.4002
	186.58	0.8268	-0.0203	0.3946
	190.00	0.8499	-0.0197	0.3867
0.9D + 1.6W 108 mph Wind at Normal To Face	139.75	0.5200	-0.0188	0.4658
	154.88	0.6252	0.0181	0.3943
	165.13	0.6999	0.0182	0.3970
	174.88	0.7700	0.0187	0.4080
	186.58	0.8539	0.0183	0.4062
	190.00	0.8775	-0.0178	0.3988

1.0D + 1.0W 60 mph Wind at 60° From Face	139.75	0.0955	0.0035	0.0861
	154.88	0.1150	0.0033	0.0729
	165.13	0.1288	0.0033	0.0734
	174.88	0.1418	0.0034	0.0754
	186.58	0.1573	0.0033	0.0752
	190.00	0.1616	-0.0032	0.0738
1.0D + 1.0W 60 mph Wind at 90° From Face	139.75	0.0967	-0.0040	0.0848
	154.88	0.1163	-0.0038	0.0743
	165.13	0.1303	-0.0039	0.0748
	174.88	0.1433	-0.0040	0.0768
	186.58	0.1590	-0.0039	0.0758
	190.00	0.1634	-0.0038	0.0742
1.0D + 1.0W 60 mph Wind at Normal To Face	139.75	0.1001	-0.0036	0.0892
	154.88	0.1203	-0.0035	0.0757
	165.13	0.1346	-0.0035	0.0763
	174.88	0.1481	0.0036	0.0785
	186.58	0.1642	-0.0035	0.0779
	190.00	0.1687	-0.0034	0.0765
1.2D + 1.0Di + 1.0Wi 40 mph Wind at 60° From Face	139.75	0.0762	0.0027	0.0672
	154.88	0.0911	0.0026	0.0564
	165.13	0.1017	0.0026	0.0566
	174.88	0.1116	0.0027	0.0579
	186.58	0.1234	0.0026	0.0581
	190.00	0.1268	-0.0025	0.0571
1.2D + 1.0Di + 1.0Wi 40 mph Wind at 90° From Face	139.75	0.0765	-0.0031	0.0658
	154.88	0.0915	-0.0030	0.0572
	165.13	0.1021	-0.0030	0.0574
	174.88	0.1121	-0.0031	0.0589
	186.58	0.1240	-0.0030	0.0582
	190.00	0.1274	-0.0029	0.0571
1.2D + 1.0Di + 1.0Wi 40 mph Wind at Normal From Face	139.75	0.0774	-0.0028	0.0676
	154.88	0.0927	-0.0026	0.0575
	165.13	0.1035	-0.0026	0.0578
	174.88	0.1136	-0.0027	0.0596
	186.58	0.1258	-0.0027	0.0588
	190.00	0.1292	-0.0026	0.0580
1.2D + 1.0E - Normal To Face	139.75	0.0277	0.0011	0.0266
	154.88	0.0336	0.0011	0.0235
	165.13	0.0379	0.0011	0.0239
	174.88	0.0421	0.0011	0.0248
	186.58	0.0471	0.0011	0.0248
	190.00	0.0486	-0.0011	0.0254
1.2D + 1.6W 108 mph Wind at 60° From Face	139.75	0.4966	0.0185	0.4472
	154.88	0.5980	0.0174	0.3797
	165.13	0.6700	0.0174	0.3827
	174.88	0.7376	0.0178	0.3933
	186.58	0.8184	0.0175	0.3919
	190.00	0.8412	-0.0169	0.3845
1.2D + 1.6W 108 mph Wind at 90° From Face	139.75	0.5028	-0.0210	0.4421
	154.88	0.6053	-0.0200	0.3872
	165.13	0.6780	-0.0202	0.3899
	174.88	0.7462	-0.0207	0.4007
	186.58	0.8278	-0.0203	0.3951
	190.00	0.8510	-0.0197	0.3872
1.2D + 1.6W 108 mph Wind at Normal To Face	139.75	0.5206	-0.0189	0.4664
	154.88	0.6259	0.0181	0.3948
	165.13	0.7008	0.0182	0.3976
	174.88	0.7709	0.0187	0.4086
	186.58	0.8549	0.0183	0.4068
	190.00	0.8786	-0.0178	0.3993

	Mat Foundation Design for Self Supporting Tower			Date 3/23/2022
	Customer Name:	SBA Communications Corp	TIA Standard:	TIA-222-G
	Site Name:		Structure Height (Ft.):	190
	Site Nmber:	MA12227-A-SBA	Engineer Name:	H. You
	Engr. Number:	126493	Engineer Login ID:	

Foundation Info Obtained from:

Analysis or Design?

Number of Tower Legs:

Base Reactions (Factored):

(1). Individual Leg:

Axial Load (Kips):	407.4	Uplift Force (Kips):	339.3
Shear Force (Kips):	39.3		

(2). Tower Base:

Total Vertical Load (Kips):	82.5	Total Shear Force (Kips):	66.8
Moment (Kips-ft):	7401.9		

Foundation Geometries:

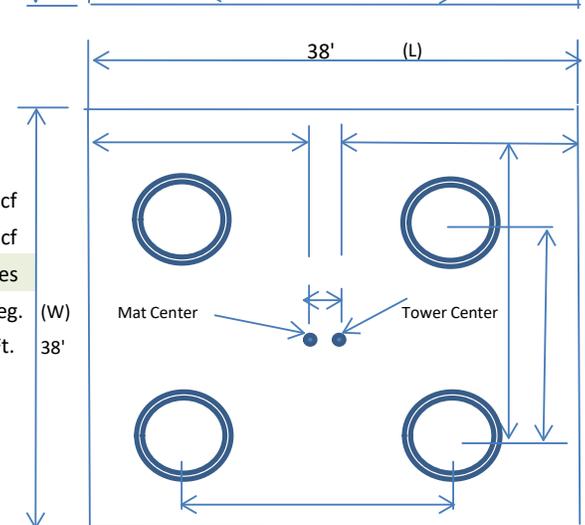
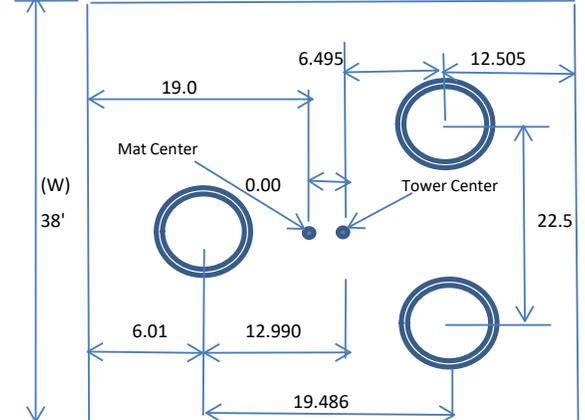
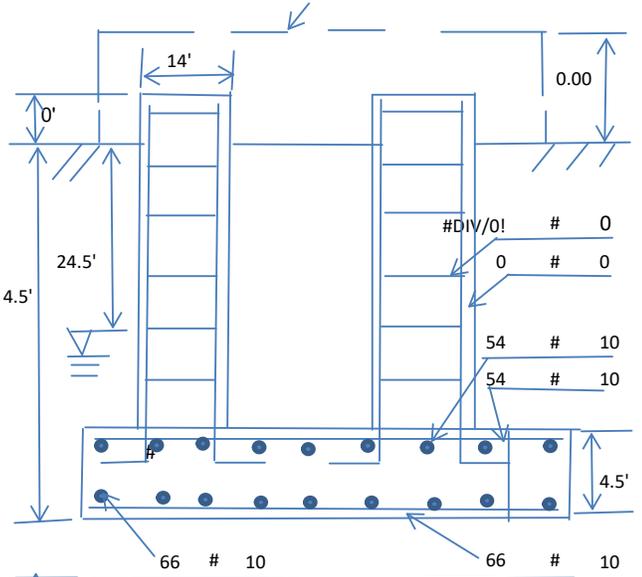
Leg distance (Center-to-Center ft.):	22.5	Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	Round 14.0	Pier Height A. G. (ft.):	0.00
Tower center to mat center (ft):	0	Depth of Base BG (ft.):	4.5
Length of Pad (ft.):	38	Width of Pad (ft.):	38
Thickness of Pad (ft):	4.50		

Material Properties and Rebar Info:

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)		Tie steel yield (ksi):		
Vertical Rebar Size #:		Tie / Stirrup Size #:		
Qty. of Vertical Rebars:		Tie Spacing (in):		
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	10	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):	66	Qty. of Rebar in Pad (W):	66	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	54	Qty. of Rebar in Pad (W):	54	

Soil Design Parameters:

Soil Unit Weight (pcf):	125.0	Soil Buoyant Weight:	50.0	Pcf
Water Table B.G.S. (ft):	24.5	Unit Weight of Water:	62.4	pcf
Ultimate Bearing Pressure (psf):	4000	Consider ties in concrete shear strength:	Yes	
Consider Soil Lateral Resistance ?	Yes	Enter soil C (psf) or Phi (deg.):	30.0	Deg. (W)
		Depth to ignor lateral resistance	1.0	Ft. 38'



Foundation Analysis and Design:	Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	0.00	Total Dry Soil Weight (Kips):	0.00	
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00	
Total Effective Soil Weight (Kips):	0.00	Weight from the Concrete Block at Top (K):	0.00	
Total Dry Concrete Volume (cu. Ft.):	6500.31	Total Dry Concrete Weight (Kips):	975.05	
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00	
Total Effective Concrete Weight (Kips):	975.05	Total Vertical Load on Base (Kips):	1057.52	

Check Soil Capacities:

Calculated Maxium Net Soil Pressure under the base (psf):	1622.49	<	Allowable Factored Soil Bearing (psf):	3000	0.54	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	18240.4	>	Design Factored Momont (kips-ft):	7703	0.42	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	2.37					OK!

Check the capacities of Reinforceing Concrete:

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00

(1) Concrete Pier:

Vertical Steel Rebar Area (sq. in./each):	#N/A	Tie / Stirrup Area (sq. in./each):	#N/A		
Calculated Moment Capacity (Mn,Kips-Ft):	#N/A	#N/A Design Factored Moment (Mu, Kips-Ft)	0.2	#N/A	###
Calculated Shear Capacity (Kips):	#N/A	#N/A Design Factored Shear (Kips):	39.3	#N/A	###
Calculated Tension Capacity (Tn, Kips):	#N/A	#N/A Design Factored Tension (Tu Kips):	339.3	#N/A	###
Calculated Compression Capacity (Pn, Kips):	#N/A	#N/A Design Factored Axial Load (Pu Kips):	407.4	#N/A	###
Moment & Tension Strength Combination:	#N/A	#N/A Check Tie Spacing (Design/Req'd):	#DIV/0!		
Pier Reinforcement Ratio:	#N/A	#N/A	#N/A		

(2).Concrete Pad:

One-Way Design Shear Capacity (L or W Direction, Kips):	1887.3	>	One-Way Factored Shear (L/W-Dir Kips)	258.9	0.14	OK!
One-Way Design Shear Capacity (Diagonal Dir., Kips):	947.5	>	One-Way Factored Shear (Dia. Dir, Kips)	235.8	0.25	OK!
Lower Steel Pad Reinforcement Ratio (L or W-Direct.):	0.0036		Lower Steel Reinf. Ratio (Dia. Dir.):	0.0035		
Lower Steel Pad Moment Capacity (L or W-Dir. Kips-ft):	18185.3	>	Moment at Bottom (L-Direct. K-Ft):	1260.6	0.07	OK!
Lower Steel Pad Moment Capacity (Dia. Direction,K-ft):	13242.5	>	Moment at Bottom (Dia. Dir. K-Ft):	1117.6	0.08	OK!
Upper Steel Pad Reinforcement Ratio (L or W -Direction):	0.0030		Upper Steel Reinf. Ratio (Dia. Dir.):	0.0033		
Upper Steel Pad Moment Capacity (L or W-Dir., Kips-ft):	15000.2	>	Moment at the top (L-Dir Kips-Ft):	574.1	0.04	OK!
Upper Steel Pad Moment Capacity (Dia. Direction, K-ft):	12376.1	>	Moment at the top (Dia. Dir., K-Ft):	380.8	0.03	OK!
Punching Failure Capacity (Kips):	4230.0	>	Punch. Failure Factored Shear (K):	407.4	0.10	OK!

HY520/BAY COMM.-TRURO

T-MOBILE NORTHEAST LLC

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



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



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	04/27/22	ISSUED FOR CONSTRUCTION	JRV
0	02/08/22	ISSUED FOR REVIEW	NWC

SITE NUMBER:
4HY0520A

SITE ADDRESS:
5 TOWN DUMP ROAD
TRURO, MA 02666

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

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

5 TOWN DUMP ROAD
TRURO, MA 02666
BARNSTABLE COUNTY

SITE NO.: 4HY0520A

SITE TYPE: 190'± SELF SUPPORT TOWER

RF DESIGN GUIDELINE: 67E02C OUTDOOR

SCOPE OF WORK

REMOVE:	INSTALL:
• 3 ANTENNA	• 3 ANTENNAS
• 3 RADIOS	• 3 RADIOS
• 3 TMA'S	• 1 HYBRID CABLE
• 3 T-ARM MOUNTS	• 3 SECTOR FRAME MOUNTS
• 1 100A-2P BREAKER	• 1 125A-2P BREAKER

SITE NOTES

- 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.
 - 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.
 - BUILDING CODE: MASSACHUSETTS STATE BUILDING CODE 780 CMR (9TH EDITION)
 - ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
 - STRUCTURAL CODE: TIA/EIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.

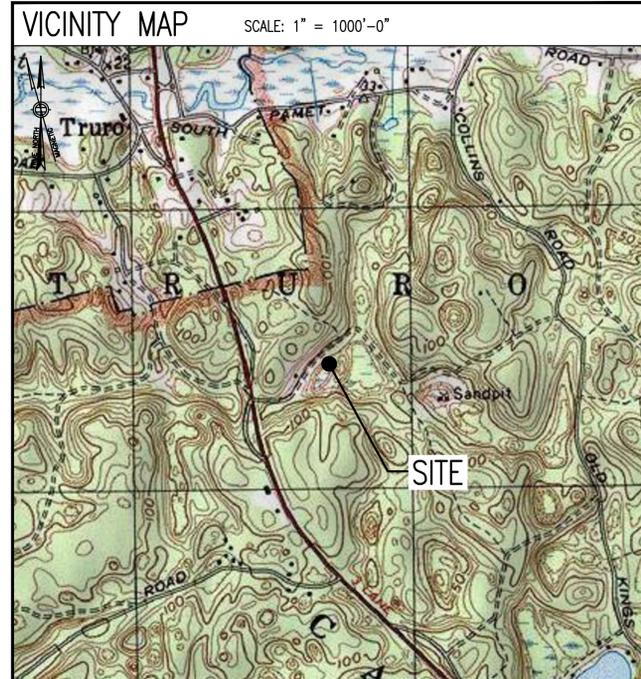
T-MOBILE TECHNICIAN SITE SAFETY NOTES

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

- 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.
- THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK THE CONTRACTOR BEING 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.
- THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE OMPONENT 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.
- 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.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
- 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.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- 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.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
- 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.

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



DIRECTIONS

HEAD NORTHEAST TOWARD COMMERCE WAY. TURN RIGHT ONTO SOUTH WASHINGTON STREET. FOLLOW SIGNS TO I-495. TURN RIGHT TO MERGE ONTO I-495 SOUTH TOWARD CAPE COD. AT BOURNE ROTARY SOUTH. TAKE THE 5TH EXIT ONTO SANDWICH ROAD EAST. TURN RIGHT ONTO MID-CAPE CONNECTOR. MERGE ONTO US-6 EAST. TURN LEFT ONTO TOWN HALL ROAD. TURN RIGHT ONTO TRURO CENTER ROAD. TURN LEFT ONTO TOWN HALL ROAD. SITE IS LOCATED ON THE RIGHT SIDE.

SHEET INDEX

SHEET NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
GN-1	GENERAL NOTES	1
A-1	COMPOUND PLAN, EQUIPMENT PLANS & PHOTO	1
A-2	TOWER ELEVATION, ANTENNA PLANS & PHOTOS	1
A-3	SITE DETAILS	1
A-4	ANTENNA & FEEDLINE CHARTS	1
E-1	ELECTRIC & GROUNDING DETAILS & PHOTOS	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.

PROJECT SUMMARY

SITE NUMBER:	4HY0520A
SITE NAME:	HY520/BAY COMM.-TRURO
SBA SITE NUMBER:	MA12227-A
SBA SITE NAME:	TRURO
SITE ADDRESS:	5 TOWN DUMP ROAD TRURO, MA 02666
PROPERTY OWNER:	SBA TOWERS II, LLC TAX DEPT. MA 12227-A 8501 CONGRESS AVENUE BOCA RATON, FL 33487
TOWER OWNER:	SBA TOWERS II, LLC 8501 CONGRESS AVENUE BOCA RATON, FL 33487 PHONE: 561-226-9523
COUNTY:	BARNSTABLE
ZONING DISTRICT:	RESIDENTIAL
STRUCTURE TYPE:	SELF-SUPPORT TOWER
STRUCTURE HEIGHT:	190'±
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: 41.985783° N41°59'08.82" LONGITUDE: -70.041333° W70°02'28.80"

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).

GENERAL NOTES:

- 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
- 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.
- 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.
- 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.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
- 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.
- 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.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
- 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.
- 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.
- CONSTRUCTION SHALL COMPLY WITH ALL T-MOBILE STANDARDS AND SPECIFICATIONS.
- 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.
- 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.
- 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:

- THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY 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.
- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
- 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.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 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.
- 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.
- 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.
- THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE T-MOBILE SPECIFICATION FOR SITE SIGNAGE.

CONCRETE AND REINFORCING STEEL NOTES:

- 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.
- 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
- 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.
- 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.
- A CHAMFER ¾" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- 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.
- 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 SUPPLIER'S 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.
- 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.
- 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:

- 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".
- 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.
- 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.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE ¾" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
- ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES FOR SLAB ON GRADE:

- EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
- COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
- 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.
- 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.
- 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:

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

CONSTRUCTION NOTES:

- FIELD VERIFICATION:
SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, T-MOBILE ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
- COORDINATION OF WORK:
SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
- 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:

- WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLE TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 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.
- 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.
- 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).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- 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.
- 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.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
- 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.
- 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).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND NEC.
- NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- 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.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- 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.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANS/IEEE AND NEC.
- CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
- 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.
- 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.
- 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.
- 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.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 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.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

**T-MOBILE
NORTHEAST LLC**

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



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



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	04/27/22	ISSUED FOR CONSTRUCTION	JRV
0	02/08/22	ISSUED FOR REVIEW	NMC

SITE NUMBER:
4HY0520A

SITE ADDRESS:
5 TOWN DUMP ROAD
TRURO, MA 02666

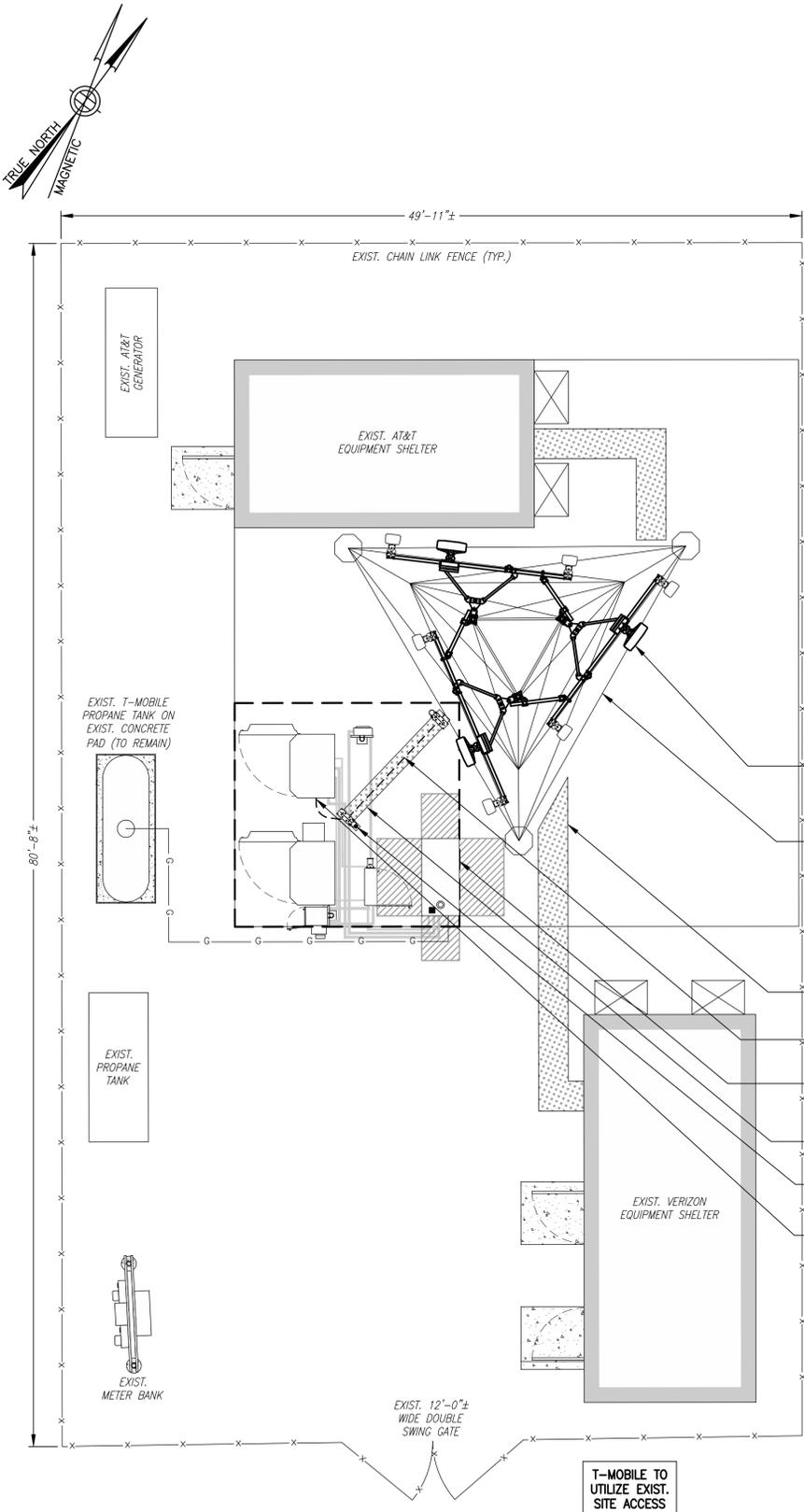
SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

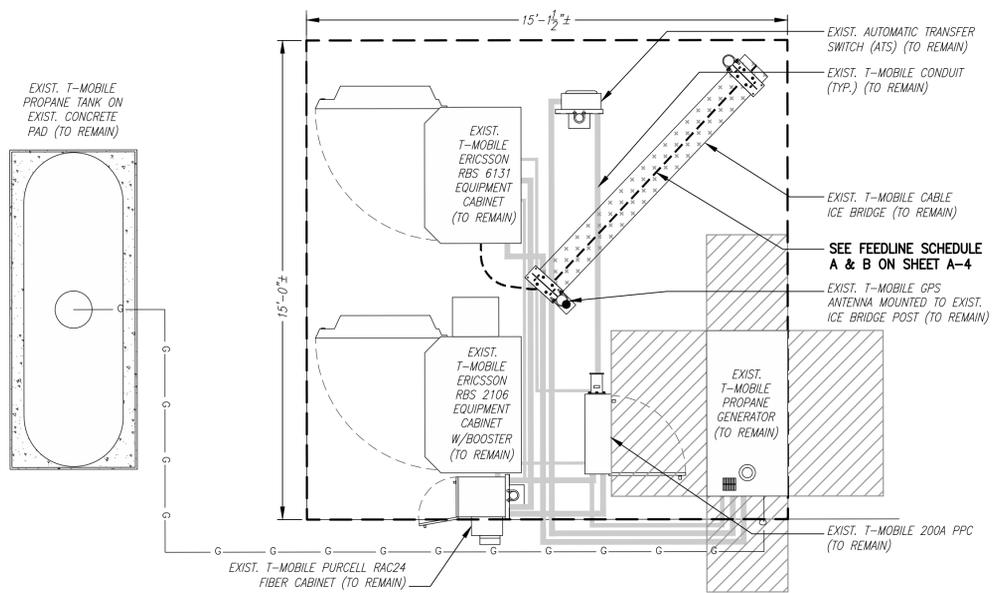
SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY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



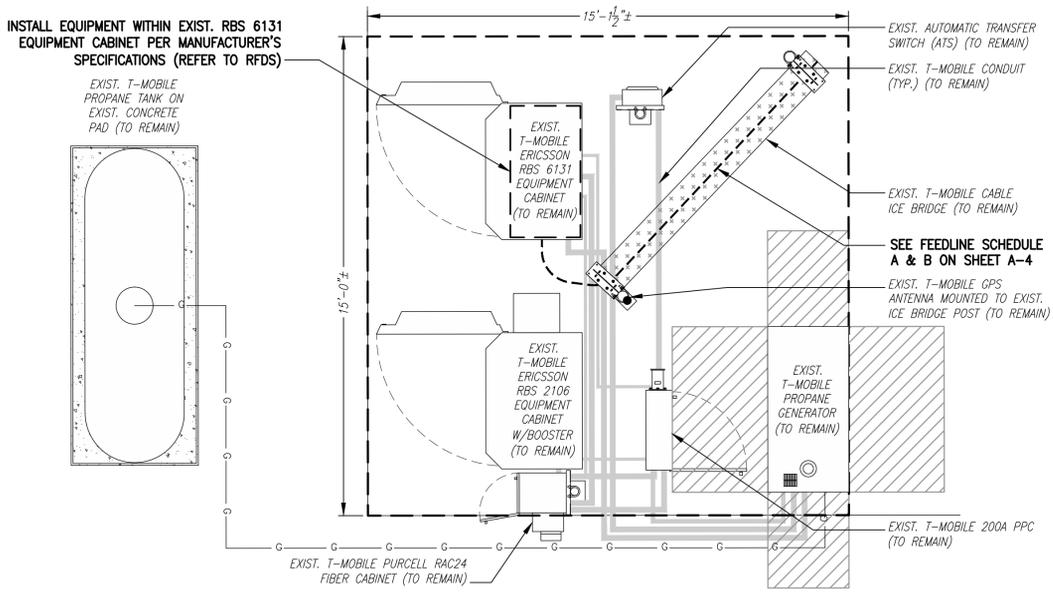
COMPOUND PLAN (1/A-1)
 SCALE: 3/16" = 1'-0"
 0 2'-8" 5'-4" 10'-8" 16'-0"



EXISTING EQUIPMENT PHOTO (2/A-1)
 SCALE: N.T.S.



EXISTING EQUIPMENT PLAN (3/A-1)
 SCALE: 3/8" = 1'-0"
 0 2'-8" 5'-4" 8'-0"



PROPOSED EQUIPMENT PLAN (4/A-1)
 SCALE: 3/8" = 1'-0"
 0 2'-8" 5'-4" 8'-0"

**T-MOBILE
 NORTHEAST LLC**

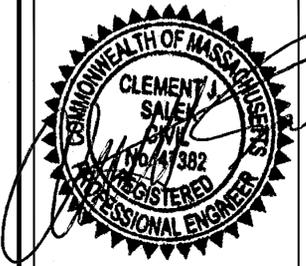
15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 (508) 286-2700



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



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	04/27/22	ISSUED FOR CONSTRUCTION	JRV
0	02/08/22	ISSUED FOR REVIEW	NWC

SITE NUMBER:
4HY0520A

SITE ADDRESS:
 5 TOWN DUMP ROAD
 TRURO, MA 02666

SHEET TITLE
**COMPOUND PLAN,
 EQUIPMENT PLANS
 & PHOTO**

SHEET NUMBER
A-1

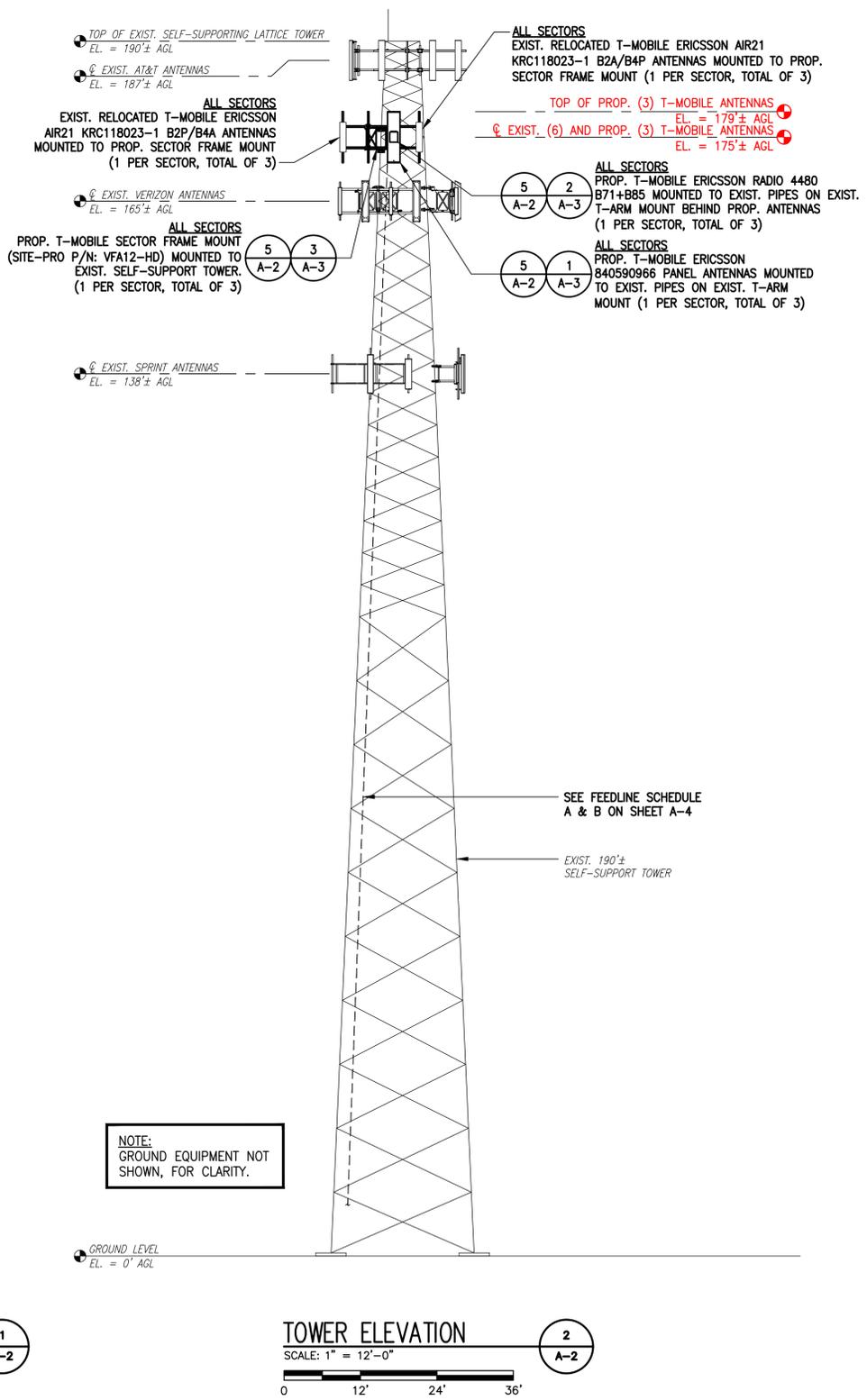
SPECIAL PRE-CONSTRUCTION WORK NOTE (SBA-PROVIDED TOWER STRUCTURAL ANALYSIS SPECIAL EQUIPMENT INSTALLATION REQUIREMENTS):
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIAL OR SUPPLEMENTAL ADDITIONAL TOWER-MOUNTED EQUIPMENT PER RECOMMENDATIONS FROM SBA-PROVIDED TOWER STRUCTURAL ANALYSIS FOR ANY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

RAD CENTER NOTE:
 T-MOBILE RAD CENTER SHOWN IN RED TEXT BASED ON SBA-PROVIDED CO-LOCATION APPLICATION, EQUIPMENT DATABASE, AND STRUCTURAL ANALYSIS. THE SBA-PROVIDED ANTENNA RAD CENTER SHALL SUPERSEDE ANY CONFLICTING INFORMATION DERIVED FROM THE T-MOBILE RFDS.

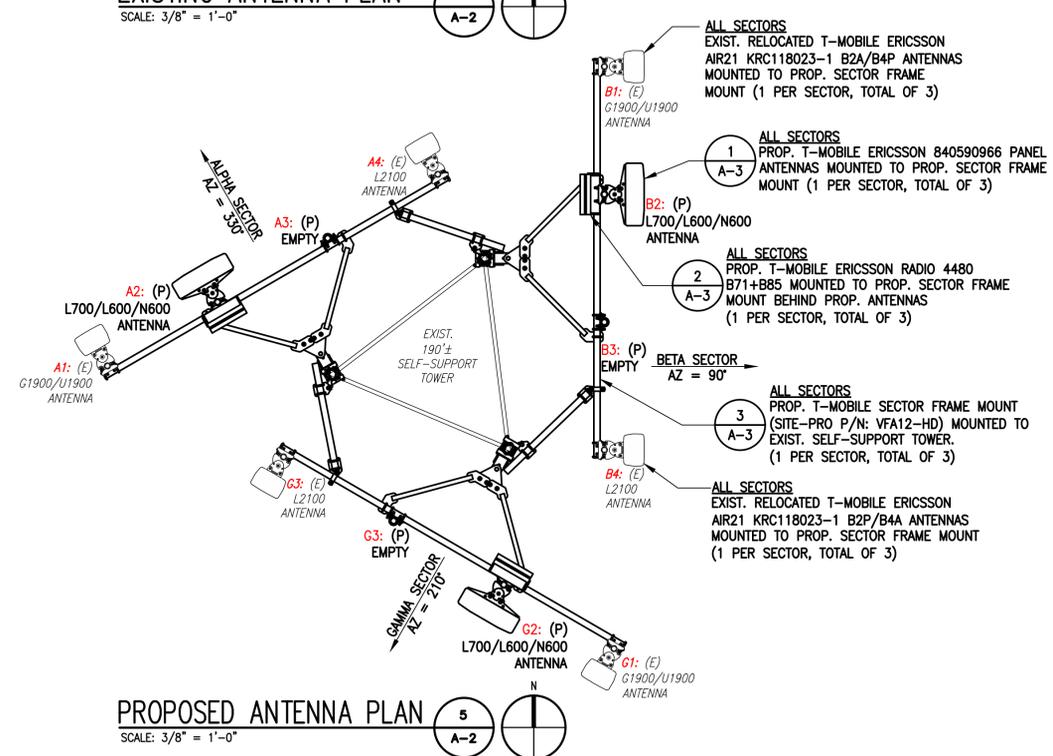
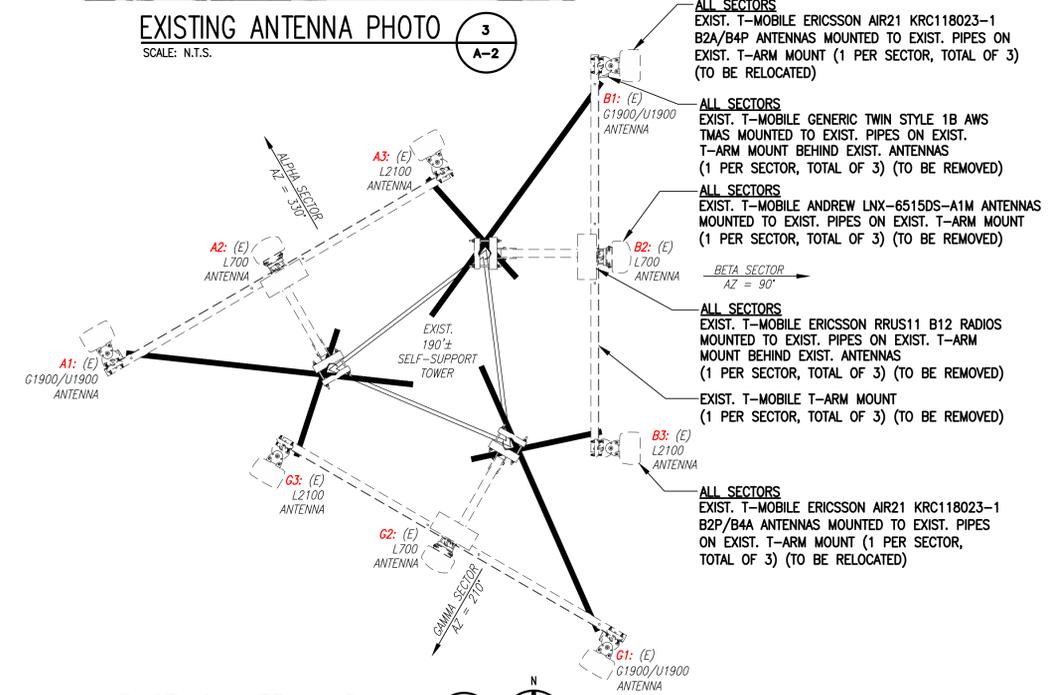
SPECIAL CONSTRUCTION NOTE:
 GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ANTENNA MOUNT STRUCTURAL AUGMENTS (STRUCTURAL MODIFICATIONS) AT T-MOBILE'S RAD/VERTICAL EQUIPMENT SPACE PER RECOMMENDATIONS FROM SBA-PROVIDED ANTENNA MOUNT STRUCTURAL ANALYSIS AND ANY SUPPLEMENTAL CONSTRUCTION DRAWINGS (PROVIDED BY OTHERS).



EXISTING TOWER PHOTO 1 A-2
 SCALE: N.T.S.



EXISTING ANTENNA PHOTO 3 A-2
 SCALE: N.T.S.



T-MOBILE NORTHEAST LLC

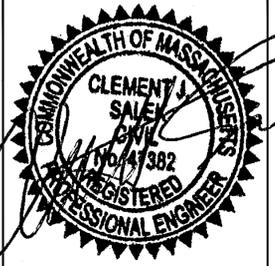
15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 (508) 286-2700



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



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



CHECKED BY: JMT

APPROVED BY: JMT

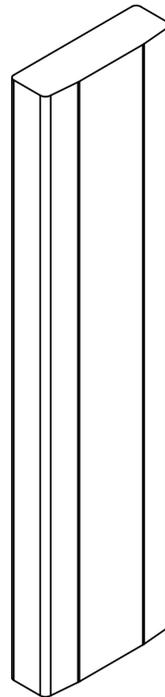
SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	04/27/22	ISSUED FOR CONSTRUCTION	JRV
0	02/08/22	ISSUED FOR REVIEW	NMC

SITE NUMBER:
4HY0520A

SITE ADDRESS:
 5 TOWN DUMP ROAD
 TRURO, MA 02666

SHEET TITLE
**TOWER ELEVATION,
 ANTENNA PLANS &
 PHOTOS**

SHEET NUMBER
A-2



ERICSSON 840590966 ANTENNA

DIMENSIONS: 95.9"H x 23.5"W x 7.1"D
 WEIGHT: 101.4 lbs
 QUANTITY: 1 PER SECTOR, TOTAL OF 3

ANTENNA DETAILS

SCALE: N.T.S.

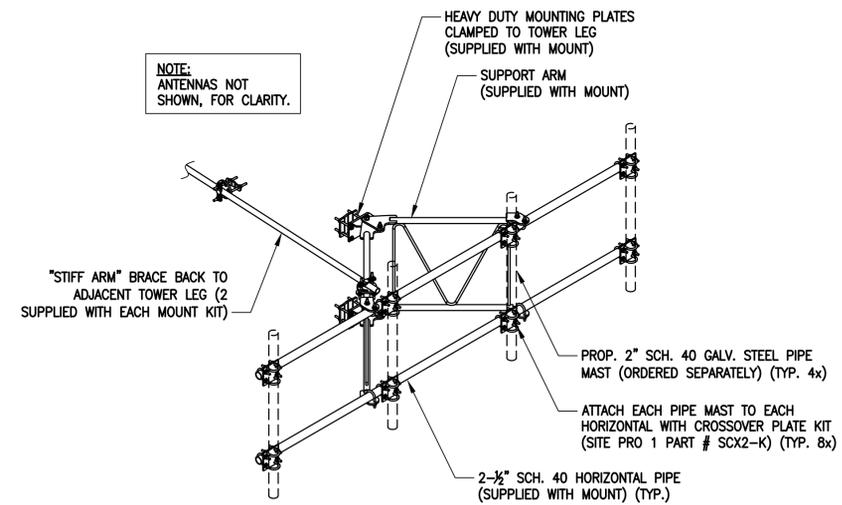


ERICSSON RADIO 4480 B71+B85

DIMENSIONS: 19.2"H x 15.1"W x 7.5"D
 WEIGHT: 92.6 lbs
 QUANTITY: 1 PER SECTOR, TOTAL OF 3

RADIO DETAIL

SCALE: N.T.S.



SITE-PRO 1 12'-6" HEAVY-DUTY V-FRAME

PART NUMBER: VF12-HD
 QUANTITY: TOTAL OF 3

ANTENNA MOUNT DETAIL

SCALE: N.T.S.



**T-MOBILE
 NORTHEAST LLC**

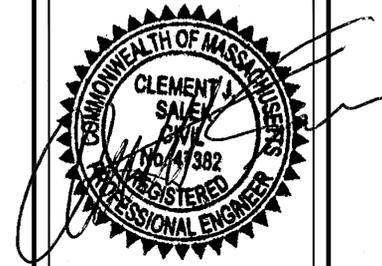
15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 (508) 286-2700



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



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	04/27/22	ISSUED FOR CONSTRUCTION	JRV
0	02/08/22	ISSUED FOR REVIEW	NWC

SITE NUMBER:
4HY0520A

SITE ADDRESS:
 5 TOWN DUMP ROAD
 TRURO, MA 02666

SHEET TITLE
SITE DETAILS

SHEET NUMBER
A-3

FINAL ANTENNA CONFIGURATION								
SECTOR	ANTENNA	RAD CENTER	AZIMUTH (TRUE NORTH)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	BAND	TMA/RADIOS	CABLES
ALPHA	A1 ERICSSON AIR21 KRC118023-1 B2A/B4P	175'± AGL	330°	0°	2°	G1900/U1900	-	EXIST. (3) 7/8" (3x6) HCS FIBER CABLES (190'±) PROP. (1) 2" (6x24) HCS FIBER CABLE (230'±)
	A2 ERICSSON 840590966	175'± AGL	330°	0°	4°	L700/L600/N600	ERICSSON RADIO 4480 B71+B85	
	A3 EMPTY PIPE	-	-	-	-	-	-	
	A4 ERICSSON AIR21 KRC118023-1 B2P/B4A	175'± AGL	330°	0°	2°	L2100	-	
BETA	B1 ERICSSON AIR21 KRC118023-1 B2A/B4P	175'± AGL	90°	0°	2°	G1900/U1900	-	
	B2 ERICSSON 840590966	175'± AGL	90°	0°	4°	L700/L600/N600	ERICSSON RADIO 4480 B71+B85	
	B3 EMPTY PIPE	-	-	-	-	-	-	
	B4 ERICSSON AIR21 KRC118023-1 B2P/B4A	175'± AGL	90°	0°	2°	L2100	-	
GAMMA	G1 ERICSSON AIR21 KRC118023-1 B2A/B4P	175'± AGL	210°	0°	2°	G1900/U1900	-	
	G2 ERICSSON 840590966	175'± AGL	210°	0°	4°	L700/L600/N600	ERICSSON RADIO 4480 B71+B85	
	G3 EMPTY PIPE	-	-	-	-	-	-	
	G4 ERICSSON AIR21 KRC118023-1 B2P/B4A	175'± AGL	210°	0°	2°	L2100	-	

CABLE NOTE: EXIST. (4) 1/2" COAX CABLES TO REMAIN DISCONNECTED. SEE FEEDLINE SCHEDULE A & B BELOW.
 ANCILLARY NOTE: EXIST. (3) GENERIC TWIN STYLE 1B AWS TMAS TO BE REMOVED.

NOTE: RFDS REV4 - 12/28/21

FEEDLINE SCHEDULE		
SCHEDULE	FEEDLINES	LOCATION
A	EXISTING TO REMAIN: (1) 1/2" COAX FOR GPS ANTENNA (4) 1/2" COAX CABLES (CAPPED & WRAPPED) (3) 7/8" (3x6) HCS FIBER CABLE EXISTING TO BE REMOVED: NONE	ROUTED PER STRUCTURAL ANALYSIS
B	PROPOSED: (1) 2" (6x24) HCS FIBER CABLE	

NOTE: EXISTING T-MOBILE EQUIPMENT FEEDLINE INVENTORY BASED ON OBSERVED FIELD CONDITIONS. RFDS AND FEEDLINE LEASING ENTITLEMENTS MAY DIFFER.

T-MOBILE
NORTHEAST LLC

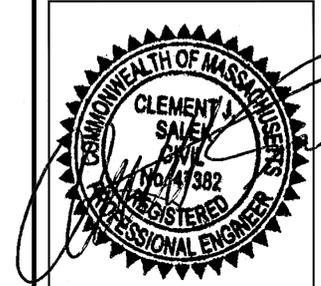
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



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



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
1	04/27/22	ISSUED FOR CONSTRUCTION	JRV
0	02/08/22	ISSUED FOR REVIEW	NWC

SITE NUMBER:
4HY0520A

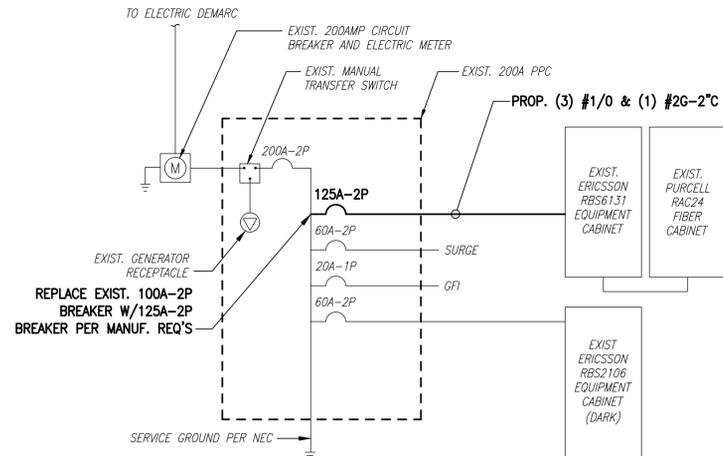
SITE ADDRESS:
5 TOWN DUMP ROAD
TRURO, MA 02666

SHEET TITLE
ANTENNA & FEEDLINE CHARTS

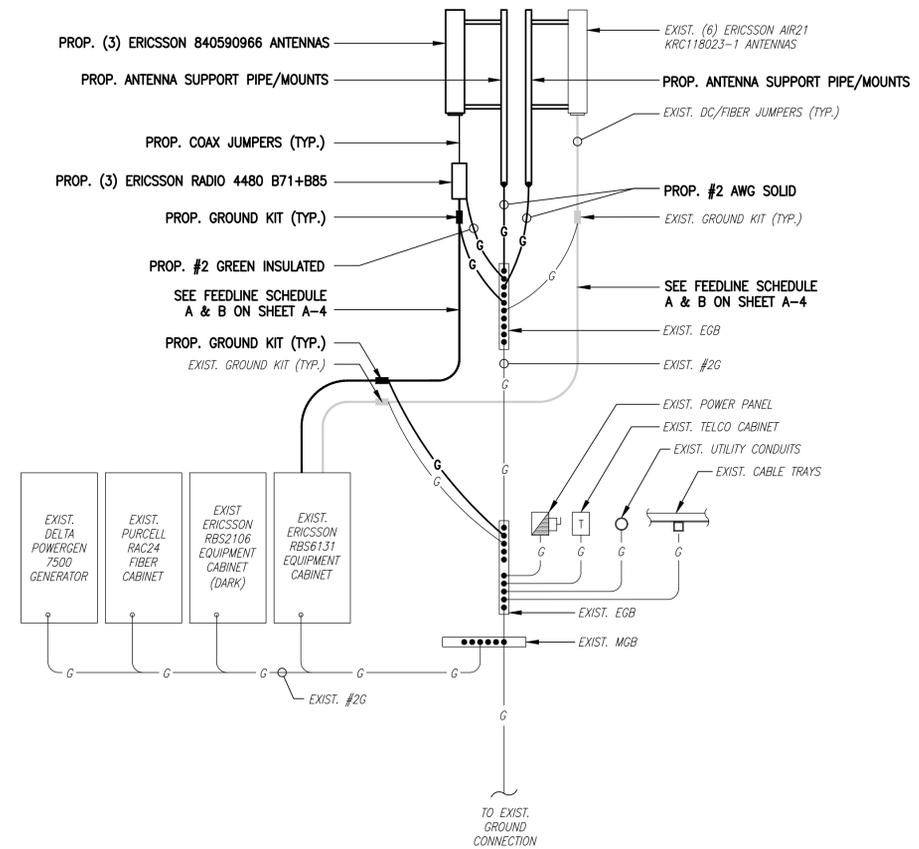
SHEET NUMBER
A-4



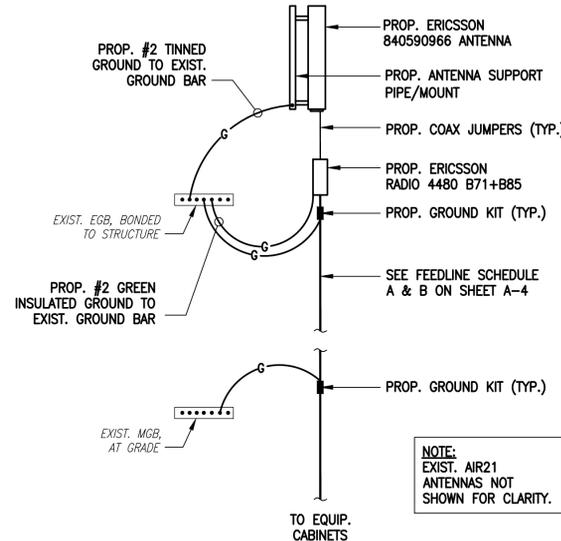
EXISTING POWER PANEL PHOTOS 1
SCALE: NOT TO SCALE E-1



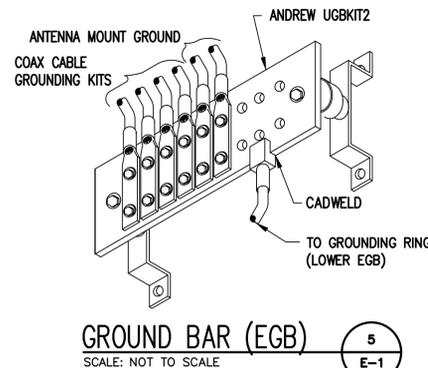
ONE LINE DIAGRAM 2
SCALE: NOT TO SCALE E-1



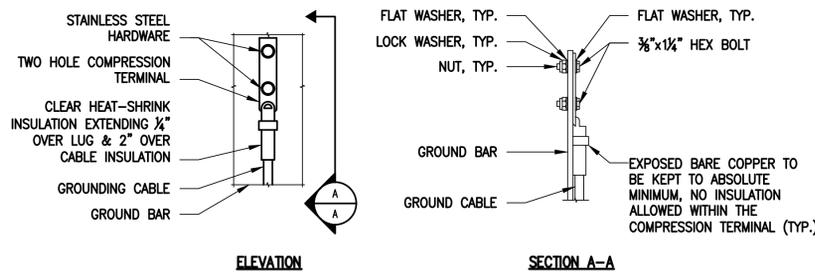
GROUNDING RISER DIAGRAM 3
SCALE: NOT TO SCALE E-1



COAX CABLE CONNECTION AND GROUNDING DETAIL 4
SCALE: NOT TO SCALE E-1



GROUND BAR (EGB) 5
SCALE: NOT TO SCALE E-1



TYPICAL GROUND BAR CONNECTIONS DETAIL 6
SCALE: NOT TO SCALE E-1

ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- 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.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THININSULATION.
- 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.
- 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.
- 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.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- 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".
- 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.
- 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.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- 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.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
- 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 NORTHEAST LLC

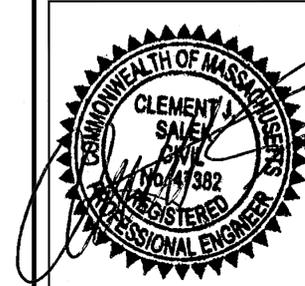
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
(508) 286-2700



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



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



CHECKED BY: JMT

APPROVED BY: JMT

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
1	04/27/22	ISSUED FOR CONSTRUCTION	JRV
0	02/08/22	ISSUED FOR REVIEW	NWC

SITE NUMBER:
4HY0520A

SITE ADDRESS:
5 TOWN DUMP ROAD
TRURO, MA 02666

SHEET TITLE
**ELECTRIC & GROUNDING
DETAILS & PHOTOS**

SHEET NUMBER

E-1



United States Department of Agriculture

August 19, 2021

Marketing and Regulatory Programs

USDA-APHIS-Wildlife Services 463 West Street Amherst, MA 01002

T 413.253.2403 F 413.253.7577

Brian Medeiros, Project Manager Wireless J. Lee Associates 420 Northboro Road Central Marlborough, MA 01752 Cell: 401-830-6486 E-mail: bmedeiros@jleeassociates.net

Mr. Medeiros,

This letter is to report the survey results of United States Department of Agriculture, Wildlife Services' (USDA, WS) at the cell tower located at 5 Town Dump Road, Truro, MA 02666 with an osprey nest to determine if it was actively being used for nesting. The tower is located on the edge of a grass covered capped landfill in a heavily wooded area consisting part of the Cape Cod National Seashore. Immediately to the north and northwest are lightly developed residential areas. To the southeast within one to five miles are a number of freshwater ponds, Cape Cod Bay is to the west and then Atlantic Ocean is to the east providing fishing habitat for the nesting ospreys.

Figure 1. Signage, 5 Dump Road, Truro, MA 02666



On Thursday, August 19, 2021, WS Wildlife Technician (WT) Samuel Vito arrived at the site at 10:30 am and onsite until 11:30 am, 1 hour. He visually confirmed it was the correct tower that needed to be surveyed by checking the signs on the gate and fencing. (see Figure 1). Weather was 79° F, cloudy, with no wind.

Figure 2. Inactive Osprey Nest on Tower, 5 Dump Road, Truro, MA 02666 on 08/19/2021



The osprey nest appears to be inactive. I monitored from - and observed no activity and heard no noises emanating from the nest. The nest also appeared empty from the ground. One adult osprey was loafing on a dead tree approximately 100yards from the tower upon my arrival but never landed on tower or brought food to nest. Weather was overcast, 78 degrees, no wind. See images below, nest is located at top of tower.

Upon arrival, one osprey was observed on a dead tree approximately 100 m from the tower. This osprey never landed on the tower nor brought food to the nest. He observed no activity or noises emanating from the nest and no ospreys used the tower during the survey (see Figure 2). An unmanned aerial vehicle (UAV) was not used to directly observe the nest because UAVs are not allowed within the boundaries of the Cape Cod National Seashore without special permits.

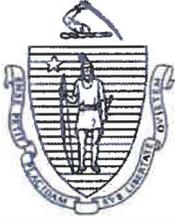
Based on observations, it is WS's determination is that the nest is inactive, and the ospreys have finished using the nest to raise chicks during the 2021 nesting season.

If you have any questions, comments, or concerns please don't hesitate to contact me on my cell at (413) 687-4310 or by e-mail at

Timothy.S.Coazine@USDA.GOV. WT Vito can be contacted on his cell at (401) 575-9576.

Thank you,

Timothy S. Cozine CWB® Staff Wildlife Biologist USDA – APHIS - Wildlife Services MA, CT, and RI Program



The Commonwealth of Massachusetts
 Department of Industrial Accidents
 1 Congress Street, Suite 100
 Boston, MA 02114-2017

www.mass.gov/dia

Workers' Compensation Insurance Affidavit: General Businesses.
 TO BE FILED WITH THE PERMITTING AUTHORITY.

Applicant Information

Please Print Legibly

Business/Organization Name: SBA Communications Corporation

Address: 8051 Congress Avenue

City/State/Zip: Boca Raton, FL 33487

Phone #: 508-251-0720 x3800

Are you an employer? Check the appropriate box:

1. I am an employer with 750 employees (full and/or part-time).*
2. I am a sole proprietor or partnership and have no employees working for me in any capacity. [No workers' comp. insurance required]
3. We are a corporation and its officers have exercised their right of exemption per c. 152, §1(4), and we have no employees. [No workers' comp. insurance required]**
4. We are a non-profit organization, staffed by volunteers, with no employees. [No workers' comp. insurance req.]

Business Type (required):

5. Retail
6. Restaurant/Bar/Eating Establishment
7. Office and/or Sales (incl. real estate, auto, etc.)
8. Non-profit
9. Entertainment
10. Manufacturing
11. Health Care
12. Other Telecommunications

*Any applicant that checks box #1 must also fill out the section below showing their workers' compensation policy information.

**If the corporate officers have exempted themselves, but the corporation has other employees, a workers' compensation policy is required and such an organization should check box #1.

I am an employer that is providing workers' compensation insurance for my employees. Below is the policy information.

Insurance Company Name: Henderson Bros., Inc./Charter Oak Fire Ins. Co + Travelers Property & Casualty

Insurer's Address: Henderson Bros., Inc: 920 Ft. Duquesne Blvd.

City/State/Zip: Pittsburgh, PA 15222

Policy # or Self-ins. Lic. # UB-4L099102/UB-3L884966

Expiration Date: 03/15/2023

Attach a copy of the workers' compensation policy declaration page (showing the policy number and expiration date).

Failure to secure coverage as required under Section 25A of MGL c. 152 can lead to the imposition of criminal penalties of a fine up to \$1,500.00 and/or one-year imprisonment, as well as civil penalties in the form of a STOP WORK ORDER and a fine of up to \$250.00 a day against the violator. Be advised that a copy of this statement may be forwarded to the Office of Investigations of the DIA for insurance coverage verification.

I do hereby certify, under the pains and penalties of perjury that the information provided above is true and correct.

Signature: 

Date: 9/2/22

Phone #: 508-251-0720 x 3801

Information and Instructions

Massachusetts General Laws chapter 152 requires all employers to provide workers' compensation for their employees. Pursuant to this statute, an *employee* is defined as "...every person in the service of another under any contract of hire, express or implied, oral or written."

An *employer* is defined as "an individual, partnership, association, corporation or other legal entity, or any two or more of the foregoing engaged in a joint enterprise, and including the legal representatives of a deceased employer, or the receiver or trustee of an individual, partnership, association or other legal entity, employing employees. However, the owner of a dwelling house having not more than three apartments and who resides therein, or the occupant of the dwelling house of another who employs persons to do maintenance, construction or repair work on such dwelling house or on the grounds or building appurtenant thereto shall not because of such employment be deemed to be an employer."

MGL chapter 152, §25C(6) also states that "**every state or local licensing agency shall withhold the issuance or renewal of a license or permit to operate a business or to construct buildings in the commonwealth for any applicant who has not produced acceptable evidence of compliance with the insurance coverage required.**" Additionally, MGL chapter 152, §25C(7) states "Neither the commonwealth nor any of its political subdivisions shall enter into any contract for the performance of public work until acceptable evidence of compliance with the insurance requirements of this chapter have been presented to the contracting authority."

Applicants

Please fill out the workers' compensation affidavit completely, by checking the boxes that apply to your situation and, if necessary, supply your insurance company's name, address and phone number along with a certificate of insurance. Limited Liability Companies (LLC) or Limited Liability Partnerships (LLP) with no employees other than the members or partners, are not required to carry workers' compensation insurance. If an LLC or LLP does have employees, a policy is required. Be advised that this affidavit may be submitted to the Department of Industrial Accidents for confirmation of insurance coverage. **Also be sure to sign and date the affidavit.** The affidavit should be returned to the city or town that the application for the permit or license is being requested, **not** the Department of Industrial Accidents. Should you have any questions regarding the law or if you are required to obtain a workers' compensation policy, please call the Department at the number listed below. Self-insured companies should enter their self-insurance license number on the appropriate line.

City or Town Officials

Please be sure that the affidavit is complete and printed legibly. The Department has provided a space at the bottom of the affidavit for you to fill out in the event the Office of Investigations has to contact you regarding the applicant. Please be sure to fill in the permit/license number which will be used as a reference number. In addition, an applicant that must submit multiple permit/license applications in any given year, need only submit one affidavit indicating current policy information (if necessary). A copy of the affidavit that has been officially stamped or marked by the city or town may be provided to the applicant as proof that a valid affidavit is on file for future permits or licenses. A new affidavit must be filled out each year. Where a home owner or citizen is obtaining a license or permit not related to any business or commercial venture (i.e. a dog license or permit to burn leaves etc.) said person is NOT required to complete this affidavit.

The Department's address, telephone and fax number:

The Commonwealth of Massachusetts
Department of Industrial Accidents
1 Congress Street
Boston, MA 02114-2017
Tel. # 617-727-4900 ext. 7406 or 1-877-MASSAFE
Fax # 617-727-7749
www.mass.gov/dia



TOWN OF TRURO

PLANNING BOARD

Meeting Minutes

June 8, 2022 – 5:00 pm

REMOTE PLANNING BOARD MEETING

Members Present (Quorum): Anne Greenbaum (Chair); Rich Roberts (Vice Chair); Jack Riemer (Clerk); R. Bruce Boleyn; Paul Kiernan; Ellery Althaus; Caitlin Townsend

Members Absent:

Other Participants: Town Planner/Land Use Counsel Barbara Carboni; Planning Department Administrator Liz Sturdy; Select Board Liaison John Dundas; Ben Zehnder (Attorney for Benoit Allehaut and Elizabeth Allehaut – Applicants); Jeffrey Katz (Architect for Benoit Allehaut and Elizabeth Allehaut - Applicants); Shane O’Brien (Representative for Benoit Allehaut and Elizabeth Allehaut – Applicants); Ben Zehnder (Attorney for Rachel Kalin - Applicant); Bryan Wiener (Representative for Rachel Kalin – Applicant); Arthur Bosworth and Stephanie Rein (Applicants); Michael Fee (Attorney for Arthur Bosworth and Stephanie Rein); Karen Ruymann (Resident); David Reid (Attorney for Jay, Patty, and David Wilson, Mitchell Glassman, and Arien Mack – Abutters to 21 and 23 Old Bridge Road)

Remote meeting convened at 5:04 pm, Wednesday, June 8, 2022, by Chair Greenbaum who announced that this was a remote public meeting aired live on Truro TV Channel 18 and was being recorded. Town Planner/Land Use Counsel Carboni also provided information as to how the public may call into the meeting or provide written comment. Members introduced themselves to the public.

Public Comment Period

Public comment, for items not on the agenda, was opened by Chair Greenbaum. Chair Greenbaum recognized Karen Ruymann, a Truro citizen, who commented on stormwater runoff issues at Pond Village and the need for the Stormwater Bylaw.

No other public comments were made.

Planner Report

Town Planner/Land Use Counsel Carboni reported that two events were coming up: the Economic Development Committee will host a summit at the Truro Library, on June 15, 2022, at 5:30 pm, to present findings about business owners’ issues and existing conditions analysis; and the Truro Housing Authority will host an online forum, led by a consultant, on June 21, 2022, at 6 pm.

Chair Report

Chair Greenbaum reported that she and Vice Chair Roberts had written a letter that will be sent out to the Town's Board Chairs to obtain input from the committees. It will be distributed once addresses and Board Chair names are submitted to Planning Department Administrator Sturdy.

Board Action/Review - Temporary Sign Permit

Patricia Wheeler - Truro Concert Committee, requesting four (4) signs, 36" x 24", to be located at: (1) Snow's Park; (2) Route 6 and Standish Way; (3) Route 6 and North Pamet Road; (4) front of Town Rec Building-6A; and one (1) banner, 21" x 96", to be located at the intersection of Route 6 and 6A. The signs and banner will be installed on June 30th and removed August 27th. Requesting 501(c)(3) Charitable Organization exemption.

Member Boleyn made a motion to approve the temporary signs and the Charitable Organization exemption.

Member Riemer seconded the motion.

So voted, 7-0, motion carries.

Public Hearings – Continued

2022-003/SPR – Benoit Allehaut and Elizabeth Allehaut for property located at 40 South Pamet Road (Atlas Map 51, Parcel 40, Registry of Deeds title reference: Book 33897, Page 73). Applicant seeks Residential Site Plan Review under §70 of the Truro Zoning Bylaw for a non-conforming (area) lot in the Seashore District. Applicants propose removal of existing additions, construction of a new addition, and to relocate and reconstruct an existing shed into a two-story shed with attached carport.

Chair Greenbaum recognized Attorney Zehnder who provided an update since the Applicants' last appearance in front of the Planning Board and Attorney Zehnder requested approval of the Residential Site Plan Review. After a lengthy discussion that ensued among the Members and the Applicants' representatives, Town Planner/Land Use Counsel Carboni expressed concern about the Members' decision being contingent upon the Historical Commission's process as it is unsound legally and practically. Members had a lengthy discussion about elevation and maximum height for this project.

Member Althaus made a motion to approve the Residential Site Plan Review for 2022-003/SPR.

Member Townsend seconded the motion.

So voted, 5-1-1, the motion carries.

2022-004/SPR – Outer Shore Nominee Trust, Rachel Kalin, Trustee for property located at 17 Coast Guard Road (Atlas Map 34, Parcel 3, Registry of Deeds title reference: Book 34387, Page 1). Applicant seeks a Residential Site Plan Review under §70 of the Truro Zoning Bylaw for a lot in the Seashore District. Demolition of 5 of 6 pre-existing, non-conforming cottages (multiple dwellings on a lot) and associated structures; construction of a new one-story single-family dwelling with pool and landscaping; renovation of remaining cottage.

Chair Greenbaum recognized Attorney Zehnder provided an update on this project. Members and the Applicant's representatives discussed the project to include exterior downlighting, interior lighting, and potential light trespassing originating from the property affecting the "night sky".

**Member Althaus made a motion to close the hearing for 2022-004/SPR.
Member Boleyn seconded the motion.
So voted, 7-0, the motion carries.**

Prior to the motion to approve, Attorney Zehnder asked Chair Greenbaum if she would conduct a voluntary straw poll among Members and only two Members participated. The two Members expressed support for the project. Attorney Zehnder then asked Members for their concerns so he could share those concerns with the Applicant. Concerns expressed by several Members were the size, scale, and mass of the project as well as the project is not consistent in character with the other structures in the neighborhood. A discussion ensued among the Members and Attorney Zehnder regarding the origination and purpose of the House Size Bylaw in the National Seashore District. Attorney Zehnder requested a continuance in this matter.

**Member Riemer made a motion to continue the hearing for 2022-004/SPR until June 22, 2022.
Member Kiernan seconded the motion.
So voted, 7-0, the motion carries.**

2022-005/SPR – Arthur Bosworth and Stephanie Rein, Out There Grown, LLC (High Dune Craft Cooperative) for property located at 21 and 23 Old Bridge Road (Atlas Map 50, Parcel 232, Registry of Deeds title reference: Book 377, Page 44). Applicant seeks a Residential Site Plan Review under §70 and §100 of the Truro Zoning Bylaw for a Recreational Marijuana Establishment (RME).

Chair Greenbaum recognized Attorney Fee who stated that the Applicants wanted to withdraw their application as they are going in a different direction. Ms. Rein provided an explanation as to the reasons for the withdrawal.

**Member Boleyn made a motion to accept the withdrawal of the application by Out There Grown, LLC.
Member Kiernan seconded the motion.
So voted, 7-0, motion carries.**

2022-006/SPR – Debra McCulloch Hopkins, Pure Joy Farm, LLC (High Dune Craft Cooperative) for property located at 21 and 23 Old Bridge Road (Atlas Map 50, Parcel 232, Registry of Deeds title reference: Book 377, Page 44). Applicant seeks a Residential Site Plan Review under §70 and §100 of the Truro Zoning Bylaw for a Recreational Marijuana Establishment (RME).

Chair Greenbaum recognized Attorney Fee who stated that the Applicant wants to amend her application to include a commercial kitchen to produce cannabis-fused products. Attorney Fee stated the Applicant wishes for a 2-month continuance so the Applicant can discuss with her neighbors her intent to produce cannabis-fused products. Attorney Fee also noted that he will no longer represent Ms. Hopkins moving forward.

**Member Boleyn made a motion to continue the hearing for Pure Joy Farm, LLC until August 10, 2022.
Member Riemer seconded the motion.
So voted, 7-0, motion carries.**

Minutes

Chair Greenbaum led the review of the Planning Board's Site Visit minutes from April 19, 2022, for edits or corrections. Members Townsend and Althaus did not vote as they were not there.

Member Boleyn made a motion to approve the minutes as written.

Member Kiernan seconded the motion.

So voted, 5-0, motion carries.

Chair Greenbaum led the review of the Planning Board's Work Session minutes from May 25, 2022, for edits or corrections. No corrections or edits were noted.

Member Boleyn made a motion to approve the minutes as written.

Member Kiernan seconded the motion.

So voted, 7-0, motion carries.

Member Riemer made a motion to adjourn the meeting at 7:51 pm.

Member Boleyn seconded the motion.

So voted, 7-0, the motion carries.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Alexander O. Powers". The signature is fluid and cursive, with a large initial "A" and "P".

Alexander O. Powers

Board/Committee/Commission Support Staff



TOWN OF TRURO

PLANNING BOARD

Meeting Minutes

June 22, 2022 – 5:00 pm

REMOTE PLANNING BOARD MEETING

Members Present (Quorum): Anne Greenbaum (Chair); Rich Roberts (Vice Chair); Jack Riemer (Clerk); R. Bruce Boleyn; Paul Kiernan; Ellery Althaus; Caitlin Townsend

Members Absent:

Other Participants: Town Planner/Land Use Counsel Barbara Carboni; Planning Department Administrator Liz Sturdy; Select Board Liaison John Dundas; Rebecca Bruyn (Applicant); Genevieve Morin (Applicant); Marisa Picariello (Applicant); Ben Zehnder (Attorney for Rachel Kalin – Applicant); Bryan Wiener (Site Engineer for Rachel Kalin – Applicant); Tim Cappuccino (Architect for Rachel Kalin – Applicant)

Remote meeting convened at 5:00 pm, Wednesday, June 22, 2022, by Chair Greenbaum who announced that this was a remote public meeting aired live on Truro TV Channel 18 and was being recorded. Town Planner/Land Use Counsel Carboni also provided information as to how the public may call into the meeting or provide written comment. Members introduced themselves to the public.

Public Comment Period

Public comment, for items not on the agenda, was opened by Chair Greenbaum. No public comments were made.

Planner Report

Town Planner/Land Use Counsel Carboni reported that the Economic Development Committee's consultant hosted a summit and will submit a revised report over the next couple of months. Town Planner/Land Use Counsel Carboni added that 50-60 people attended last night's Truro Housing Authority online forum.

Chair Report

Chair Greenbaum commented that Town Planner/Land Use Counsel Carboni had forwarded an email with information regarding "Grow Smart Cape Cod Project" (<https://growsmartcapecod.org/>) which is a joint project of the Housing Assistance Corporation and the Association to Preserve Cape Cod. The document explores how to increase housing on Cape Cod while balancing the preservation of the environment. Chair Greenbaum encouraged Members to review the material as it has very valuable information and identified areas for potential housing. Chair Greenbaum noted that tomorrow she will email the letter regarding the choke point on Route 6, in Truro, to the Local Comprehensive Planning

Committee and the Walsh Committee. Chair Greenbaum added that coordination in the preparation of the letter was made with the Truro police and fire departments.

Chair Greenbaum announced a work session for July 20, 2022, from 5:00 pm – 6:30 pm to discuss site visits and the different housing funds/balances available in Truro. A discussion to determine timelines for community outreach prior to the development of warrant Articles may be discussed or scheduled for an August work session (TBD).

Temporary Sign Permit Applications

Marian Averbach – The Truro Group, Art Show at the Library, requesting one (1) sign, 2' x 8', to be located below highway sign at Route 6 and Standish Way. The sign will be installed on July 1st and removed July 30th. Chair Greenbaum recognized Ms. Bruyn who presented to the Members and no Members had any questions.

Member Riemer made a motion to approve the temporary sign for The Truro Group.

Member Boleyn seconded the motion.

So voted, 7-0, motion carries.

Kevin Rice – Payomet Performing Arts Center, requesting two (2) signs, 48" x 36", to be located on Route 6 West and Route 6 East for events June through October. The signs will be for five (5) months: installed June 1st and removed November 1st. A representative from Payomet was not present but Town Planner/Land Use Counsel Carboni opined that the Members may proceed for a decision. The application was vague in terms of specific locations for the two signs and Member Althaus provided previous historical locations for the signs.

Member Althaus made a motion to approve the temporary sign for Payomet Performing Arts Center.

Member Boleyn seconded the motion.

So voted, 7-0, motion carries.

Genevieve Morin – Truro Yoga, requesting one (1) sign, 3' x 2', to be located next to Snow's Park from June 26th through August 29th. The sign will be installed on Fridays and removed on Sundays. Chair Greenbaum recognized Ms. Morin who presented to the Members and no Members had any questions.

Member Boleyn made a motion to approve the temporary sign for Truro Yoga.

Member Riemer seconded the motion.

So voted, 7-0, motion carries.

Marisa Picariello – Truro Center for the Arts, Edgewood Farm, requesting one (1) sign, 48" x 24", to be located at the end of the driveway at 3 Edgewood Way on Route 6 from July 1st through August 27th. The sign will be installed in June and removed on August 31st. Chair Greenbaum recognized Ms. Picariello who presented to the Members and no Members had any questions.

Member Boleyn made a motion to approve the temporary sign for the Truro Center for the Arts.

Member Riemer seconded the motion.

So voted, 7-0, motion carries.

Public Hearings - Continued

2022-004/SPR – Outer Shore Nominee Trust, Rachel Kalin, Trustee for property located at 17 Coast Guard Road (Atlas Map 34, Parcel 3, Registry of Deeds title reference: Book 34387, Page 1). Applicant seeks Residential Site Plan Review under §70 of the Truro Zoning Bylaw for a lot in the Seashore District. Demolition of 5 of 6 pre-existing, non-conforming cottages (multiple dwellings on a lot) and associated structures; construction of a new one-story single-family dwelling with pool and landscaping; renovation of remaining cottage.

Chair Greenbaum recognized Attorney Zehnder who introduced the Applicant's representatives and provided an update on the project. The Applicant has redesigned the home reducing the gross floor area to ensure the home is of appropriate size and mass as other homes in the neighborhood. A discussion ensued among the Members and the Applicant's representatives. After the discussion, Chair Greenbaum opened the hearing for public comments and there were none.

Member Kiernan made a motion to close the hearing for 2022-004/SPR.

Member Townsend seconded the motion.

So voted, 7-0, motion carries.

Attorney Zehnder asked Chair Greenbaum for a continuance in this matter until July 13, 2022, and Town Planner/Land Use Counsel Carboni opined that this was a reasonable request from the Applicant, and it would show good faith on behalf of the Planning Board.

Member Kiernan made a motion to reopen the hearing in the matter of 2022-004/SPR.

Member Boleyn seconded the motion.

So voted, 7-0, the motion carries.

Member Riemer made a motion to continue the hearing for 2022-004/SPR until July 13, 2022.

Member Boleyn seconded the motion.

So voted, 7-0, the motion carries.

Board Action/Review

Chair Greenbaum led the discussion on the new Telecommunications Site Plan Review (TSPR) procedure and Application as created by Planning Department Administrator Sturdy. Town Planner/Land Use Counsel Carboni presented the fee changes to the Members noting that the fees were set after the review of similar fees in other Cape Cod communities. Chair Greenbaum and Town Planner/Land Use Counsel Carboni reviewed the documents with the Members and answered several questions from the Members.

Member Riemer made a motion to approve the TSPR application packet.

Member Boleyn seconded the motion.

So voted, 7-0, the motion carries.

Chair Greenbaum also noted the Planning Board's gratitude for Planning Department Administrator Sturdy's hard work and diligence in creating the documents.

Minutes

Chair Greenbaum led the review of the minutes for May 4, 2022, for edits or corrections. Member Townsend did not vote as she was not present.

Member made a motion to approve the minutes as written.

Member seconded the motion.

So voted, 6-0, motion carries.

Member Riemer made a motion to adjourn the meeting at 6:24 pm.

Member Boleyn seconded the motion.

So voted, 7-0, the motion carries.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Alexander O. Powers". The signature is stylized with a large initial 'A' and a long horizontal stroke.

Alexander O. Powers

Board/Committee/Commission Support Staff

TRURO PLANNING BOARD

Meeting/Work session

July 20, 2022

Attending: Anne Greenbaum – Chair; Rich Roberts – Vice Chair; Jack Riemer – Clerk; Paul Kiernan, Bruce Boleyn, Ellery Althaus, Caitlin Townsend – members

Barbara Carboni – Town Planner/Land Use Counsel

Meeting Called to order at 5:02 pm

No public comments

Minutes

- today's meeting – Anne Greenbaum
- May 18, 2022 – Motion to approve – Jack Riemer, Second – Caitlyn Townsend
Approved 6-0 Paul Kiernan absent from that meeting & abstained

Site Visit Procedure – Discussion of possible change from scheduled group visit with applicant representative to individual site visits

Barbara Carboni – concerns with group visit:

1. Violates spirit of Open Meeting Law
 - a. Questions to applicant and responses provide information to attending Board members that takes place outside of public meeting and is part of the deliberative process
 - b. That the group process is helpful to members confirms this and does not justify continuing to do so
2. Communicated with a number of Cape & Island Town Planners
 - a. Almost unanimous that group visits are Not Best Practice

Discussion

- Been practice of the Truro Planning Board for 30 years
- Helpful to have some there to help identify location of specific points on site plan
- Valuable discussion
 - Town Planner – don't disagree that discussion gives Board members good information. But that doesn't change that it is OML violation. Productivity does not mean it is a reason to violate OML.
- Safety concerns
 - Going individual, especially if terrain is challenging
 - Helpful to have something to identify members as official – ID card or ?

Decision – 3 visit trial of individual visits then discuss

- Barbara Carboni looking at Business Card or ?
- If concerns with safety can go with 1 other member

Choke Point Update

- Discussion of Choke Point identified by Mr. Kiernan between approximately Hillside Farms & Fisherman's Road
 - Walsh property provides opportunity to create emergency alternative
 - Memo has been sent to Walsh Committee and LCPC
- Question raised as to whether Old King's Highway & Old Outermost Road provides or could provide this alternative access
- Planning Board has raised the issue and potential solutions and communicated to appropriate parties (Town Manager, Public Safety, Walsh & LCPC committees).

Discussion of Developing Potential Articles for ATM 2023

Will continue at next meeting – Questions to use in reviewing articles from last year & potential new articles to determine what to focus on

1. Is this issue of high importance to the Town? If yes,
2. Is this issue within the purview of the Planning Board? If yes,
3. Do we **need** to be the mover on this issue? If no, should we pass on the topic & if so to whom? If yes,
4. Who do we need to reach out to immediately, Town Boards/Town Department to work with us on it?

Select Board Goal #11 states the Select Board will send a letter to the Planning Board by the end of December outlining the Select Boards priorities in the areas of housing, zoning, land use and economic development. Receiving that in December is too late to impact articles for ATM 2023. Chair to reach out to John Dundas our Select Board liaison with this concern.

Motion to adjourn – Jack Riemer, Second – Bruce Boleyn
Vote 7-0

Meeting Adjourned at 6:10 pm

Respectfully submitted,

Anne Greenbaum