



EM-VER-153-221003

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

July 18, 2022



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

RE: Notice of Exempt Modification // Site: BRIDGEPORT NORTH (ATC: 383598)
655 Bassett Road, Watertown, CT 06795
N 42.2196 // W 73.2013

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 155 foot mount on the existing 240 foot monopole tower, located at 1000 Trumbull Ave, Bridgeport, CT. The tower is owned by American Tower. The property is owned by Global Tower Assets, LLC which is a subsidiary of American Tower. The tower was originally approved by the Council in 1990. Verizon Wireless now intends to install 3 new antenna and three (3) RRH's for its 5G (3700 MHz) upgrade; altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Joseph Peter Ganim, Mayor of Bridgeport, Dennis Buckley Zoning Enforcement Officer, American Tower, the tower owner and property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated June 30, 2021 by Dewberry Engineers, Inc., a structural analysis dated July 6, 2021 by A.T. Engineering Services PLLC., a structural mount analysis by Maser Consulting Connecticut dated June 11, 2021, and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.



2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by A.T. Engineering Service, PLLC, dated July 6, 2021, structural mount analysis by Maser Consulting Connecticut dated June 11, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated June 30, 2021.

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

Sincerely,

John Coleman

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

Attachments

cc: Joseph Peter Ganim - as chief elected official
Dennis Buckley, Zoning Enforcement Officer - as P&Z official
American Tower Corporation - as tower owner & Property Owner

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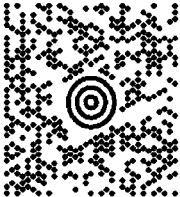
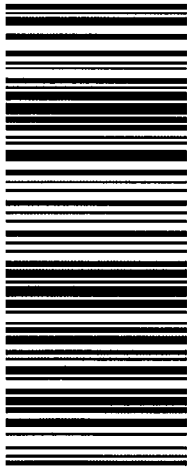

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1 LBS 1 OF 1 SHIP TO: JOSEPH P. GANIM MAYOR OR BRIDGEPORT CT 999 BROAD STREET MARGARET E. MORTON GVT CENTER BRIDGEPORT CT 06604-4320	CT 066 9-04  	UPS GROUND TRACKING #: 1Z 9Y4 503 03 0387 8954 	 BILLING: P/P Reference # 1: 383598 Reference # 2: Tartaglia CS 22.0.1.8. WNTNV50 31.0A 07/2021 *
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09/16/2021 11:39 A.M.

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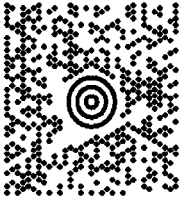



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1 LBS 1 OF 1	
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	CT 066 9-04 
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BILLING: P/P	
Reference # 1: 383598 Reference # 2: Tartaglia WNTNV50 31.0A 07/2021* 	

383598



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Tracking Number

1Z9Y45030319671969

Weight

1.00 LBS

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UPS Ground

Shipped / Billed On

08/05/2021

Delivered On

11/02/2021 3:10 P.M.

Delivered To

BRIDGEPORT, CT, US

Received By

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Sincerely,

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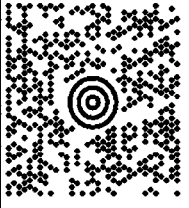

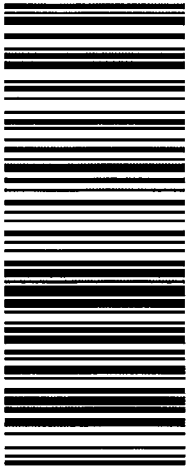

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<div> <div>1 LBS</div> <div>1 OF 1</div> </div> <div> MUMALT 9785687906 CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379 </div> <div> SHIP TO: LAND MANAGEMENT 7814287250 AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN MA 01801-1053 </div>	<div>  </div> <div> MA 018 9-04  </div>	<div> UPS GROUND TRACKING #: 1Z 9Y4 503 03 1406 6971 </div>		<div> BILLING: P/P </div> <div>  </div> <div> Reference # 1: 383598 Reference # 2: Tartealia <small>CS 1220.18. WNTNV50 31.0A 07/2021*</small> </div>
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1Z9Y45030314066971

Weight

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08/05/2021

Delivered On

11/02/2021 11:07 A.M.

Delivered To

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Sincerely,

UPS

Tracking results provided by UPS: 01/18/2022 1:47 P.M. EST

018651

NOTICE OF GRANT OF VARIANCE,
SPECIAL EXCEPTION, SPECIAL PERMIT

Pursuant to Chapter 12-75-317) of the General Statutes of the State of Connecticut, notice is hereby given that August 31, 1987, the Zoning Board of Appeals of the City of Bridgeport, Connecticut, granted or granted conditionally a variance, special exception, special permit for property located 1330 Chopsey Hill Road and 800 Trumbull Avenue.

DESCRIPTION OF PROPERTY (lot size) about 6 acres (for description see Schedule A attached)

Property owned by The Development Co., Inc.

NATURE OF VARIANCE, SPECIAL EXCEPTION, SPECIAL PERMIT

Chapter 12 Section 2 Chapter 4 Section 1
 Chapter 12 Section 1 Chapter 12 Section 1
 Chapter 12 Section 1 Chapter 12 Section 1

ZONING REGULATIONS - CITY OF BRIDGEPORT, CONNECTICUT
 IS PERMITTED erection of a 250' high radio station tower and accessory transmission equipment building

Dated and granted by the Zoning Board of Appeals, Bridgeport, Connecticut, this 3 day of August, 1987.

BY Joseph P. Mason
 Chmn. Sec'y Clerk ☒

2001 140

SCHEDULE A

All that certain parcel of land situated in the City of Bridgeport, County of Fairfield and the State of Connecticut and more particularly bounded and described as follows:

WESTERLY: by the east street line of Chopsey Hill Road,
140 feet

NORTHERLY: by land N/F of City of Bridgeport (Samuel Johnson Elementary School), 711 feet

EASTERLY: by land N/F of State of Connecticut (Beardsley Terrace Apts.), 19 feet M/L;

SOUTHERLY: by the north street line of Trumbull Avenue., 45 feet M/L

Recorded for record September 16, 1987 at 12:47 P.M.

Attest

Hector Diaz
Hector Diaz, Town Clerk

018070

Vol. 2750

NOTICE OF GRANT OF VARIANCE,
SPECIAL EXCEPTION, OR SPECIAL PERMIT

Pursuant to Chapter 124 (PA-75-317) of the General Statutes
of the State of Connecticut, notice is hereby given that on
November 19, 1989, the Zoning Board of Appeals of the City
of Bridgeport, Connecticut, granted or granted conditionally
variance, special exception, special permit for property located
at 1330 Choosay Hill Road, Bridgeport.

DESCRIPTION OF PROPERTY (lot size Three (3) ± ac.)

Property owner Choosay Hill Associates

NATURE OF VARIANCE, SPECIAL EXCEPTION, SPECIAL PERMIT

Chapter <u>3</u>	Section <u>3</u>	Chapter <u>3</u>	Section <u>3</u>
Chapter <u>3</u>	Section <u>3</u>	Chapter <u>3</u>	Section <u>3</u>
Chapter <u>3</u>	Section <u>3</u>	Chapter <u>3</u>	Section <u>3</u>

ZONING REGULATIONS - CITY OF BRIDGEPORT, CONNECTICUT

USE PERMITTED To construct a 24 x 40 ft addition to the existing
nonconforming transmission building. Extension & Enlargement
of a non conforming building in an A-Residence Zone.

Dated and approved by the Zoning Board of Appeals, Bridgeport,
Connecticut this 19th day of Dec, 1989.

BY Dennis Buckley
Chmn. Enforcement Officers Sec'y _____ Clerk _____

RECEIVED FOR RECORD Dec. 19, 1989 at 9:37 A.M.

ATTEST:

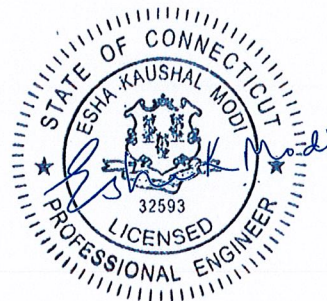
David H. Fung
TOWN CLERK



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 240 ft Self Supported Tower
ATC Site Name : Tartaglia, CT
ATC Asset Number : 383598
Engineering Number : 13668689_C3_03
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : BRIDGEPORT NORTH
Carrier Site Number : 467325
Site Location : 1000 Trumbull Avenue
Bridgeport, CT 06606
41.219600,-73.201300
County : Fairfield
Date : July 6, 2021
Max Usage : 98%
Result : Pass



Prepared By:
Hussam Al Tahan
Structural Engineer II

Hussam Al Tahan

Reviewed By:

COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 240 ft self supported tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	Rohn Drawing #C880400RI, dated March 3, 1988
Foundation Drawing	Mapping by FDH Project #10-12269E N1, dated January 17, 2011
Geotechnical Report	Soiltesting Job #G96-1987-87, dated January 6, 1988
Modifications	Centek Job #10001.CO78, dated December 6, 2010 GlenMartin Drawing #GM-07602, dated February 21, 2013
Mount Analysis	Maser Consulting Project #21777438A, dated June 11, 2021

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	119 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.21$, $S_1 = 0.05$
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
256.0	1	Generic 8' Yagi	Leg	-	OTHER
245.0	1	Generic 10' Omni		(1) 1 1/4" Coax	
243.0	1	Dielectric DCR-L1	Leg	(1) 1 5/8" Coax	RED WOLF BROADCASTING
240.0	1	Dielectric DCR-L1 w/ Radome		(2) 7/8" Coax	
234.0	2	Generic 8' Omni	Side Arm	(1) 1 1/4" Coax	OTHER
229.0	1	Generic 12' Omni	Side Arm	(1) 1 1/4" Coax	
202.0	3	Ericsson Radio 4449 B71 B85A	Sector Frame	(2) 1 1/4" Hybriflex Cable (3) 1 5/8" Hybriflex	T-MOBILE
	3	Ericsson RRUS 4415 B25			
	3	Ericsson Air6449 B41			
	3	Ericsson AIR 32 B66AA B2P			
	3	RFS APXVAARR24_43-U-NA20			
181.0	3	Nokia 2.5G MAA - AAHC(64T64R)	Sector Frame	(1) 1.7" (43.2mm) Hybrid (3) 1 1/4" (1.25"-31.8mm) Fiber (1) 1 1/4" Hybriflex Cable (3) 1/2" Coax (2) 2" conduit (6) 5/16" (0.31"-7.9mm)Coax	SPRINT NEXTEL
180.0	1	RFS APXV9ERR18-C-A20			
	3	Motorola DAP Vx			
	3	Alcatel-Lucent 800 MHz RRH			
	6	Alcatel-Lucent 1900MHz RRH			
	3	Argus LLPX310R			
	1	Generic 24" x 24" Junction Box			
	2	RFS APXVSP18-C-A20			
	3	Generic 2' Std. Dish			
165.0	3	Kathrein Scala 80010965	Sector Frame	(6) 0.39" (10mm) FiberTrunk (8) 0.78" (19.7mm) 8 AWG 6 (12) 1 5/8" Coax (2) 2" conduit	AT&T MOBILITY
	3	Quintel QS66512-3 (112 lbs.)			
	3	Andrew SBNHH-1D65A			
	3	Powerwave Allgon7770.00			
	3	Ericsson Radio 4449			
	3	Ericsson RRUS 32 B2			
	3	Ericsson RRUS 32 (50.8 lbs)			
	3	Ericsson RRUS 4478 B14			
	3	Raycap DC6-48-60-18-8F (23.5" Height)			
	9	Powerwave Allgon LGP21401			
	1	Commscope WCS-IMFQ-AMT			
	3	CCI DTMAPB7819VG12A			
	6	Powerwave Allgon 7020.00 Dual Band RET			
	12	Powerwave Allgon LGP21901			
	3	Ericsson RRUS 4426 B66			
155.0	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna	Sector Frame	(6) 15/8" Coax (2) 15/8" Hybriflex	VERIZONWIRELESS
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	2	Raycap RxxDC-3315-PF-48			
	3	Commscope CBC78T-DS-43-2X			
	6	Commscope JAHH-65B-R3B			
	3	Samsung Outdoor CBRS 20W RRH			
	3	Amphenol Antel BXA-80063-6BF-EDIN-X			

**Existing and Reserved Equipment**

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
132.0	1	Generic 4' Yagi	Side Arm	(1) 1 1/4" Coax	OTHER
123.0	1	Generic 10' Omni	Side Arm	(1) 7/8" Coax	
98.0	1	Generic 4' Yagi	Side Arm	(1) 1 1/4" Coax	

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
No loading was considered as removed as part of this analysis.					

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
155.0	3	Samsung MT6407-77A	Sector Frame w/ Reinforcement	-	VERIZON WIRELESS

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	43%	Pass
Diagonals	98%	Pass
Horizontals	87%	Pass
Anchor Bolts	49%	Pass
Leg Bolts	36%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	276.7	90%
Axial (Kips)	340.9	1%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
180.0	Generic 2' Std. Dish	SPRINT NEXTEL	0.119	0.004	0.051
155.0	Samsung MT6407-77A	VERIZON WIRELESS	0.102		

*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H



Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

Quadrant 1

240.00

Sect 11

220.00

Sect 10

200.00

Sect 9

180.00

Sect 8

160.00

Sect 7

140.00

Sect 6

120.00

Sect 5

100.00

Sect 4

80.00

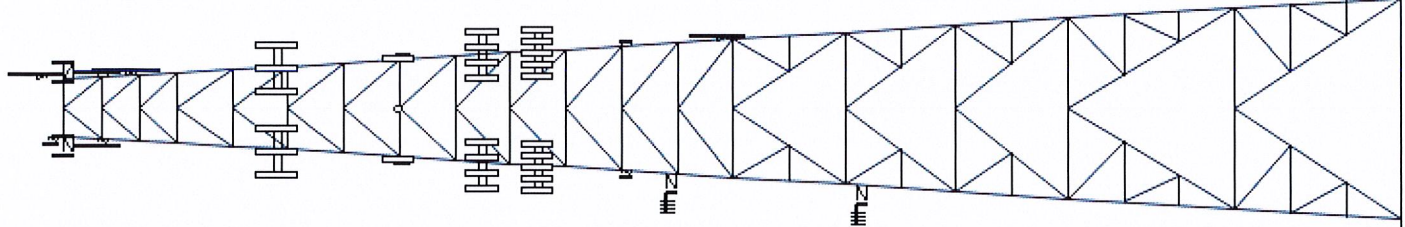
Sect 3

60.00

Sect 2

30.00

Sect 1



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Loads: 119 mph no ice
50 mph w/ 1" radial ice
Site Class: D Ss: 0.21 S1: 0.05
60 mph Serviceability

Job Information

Client : VERIZON WIRELESS		
Tower : 383598	Location : Tartaglia, CT	Base Width : 40.33 ft
Code : ANSI/TIA-222-H	Topo Method: Method 1	Top Width : 10.93 ft
Risk Cat : II	Topo: 1	Tower Ht : 240.00 ft
	Exposure : C	Shape : Triangle

Sections Properties

Section	Leg Members	Diagonal Members	Horizontal Members
1	PX 50 ksi 10" DIA PIPE	PST 50 ksi 3" DIA PIPE	PST 50 ksi 3-1/2" DIA PIPE
2 - 3	PX 50 ksi 10" DIA PIPE	PST 50 ksi 3" DIA PIPE	PST 50 ksi 3" DIA PIPE
4	PX 50 ksi 8" DIA PIPE	PST 50 ksi 3" DIA PIPE	PST 50 ksi 3" DIA PIPE
5	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE
6	PX 50 ksi 8" DIA PIPE	PST 50 ksi 3" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE
7 - 8	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE
9 - 10	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE	PST 50 ksi 2" DIA PIPE
11	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2" DIA PIPE	PST 50 ksi 2" DIA PIPE

Redundant Secondary Bracing

Section	Sub Diag 1	Sub Horiz 1	Sub Diag 2	Sub Horiz 2	Sub Diag 3	Sub Horiz 3
1	P1-1/2" DIA PIPB1-1/2" DIA PIPE	P1-1/2" DIA PIPE	P2" DIA PIPE	P2" DIA PIPE	-	-
2	P1-1/2" DIA PIPB1-1/2" DIA PIPE	P1-1/2" DIA PIPE	P2" DIA PIPE	P2" DIA PIPE	-	-
3 - 4	P2" DIA PIPE	P1-1/2" DIA PIPE	-	-	-	-
5	P1-1/2" DIA PIPB1-1/2" DIA PIPE	-	-	-	-	-
6 - 11	-	-	-	-	-	-

Discrete Appurtenance

Elev (ft)	Type	Qty	Description
256.00	Yagi	1	Generic 8' Yagi
245.00	Whip	1	Generic 10' Omni
243.00	Whip	1	Dielectric DCR-L1
240.00	Straight Arm	1	Round Side Arm
240.00	Mounting Frame	1	Round Sector Frame
240.00	Other	1	Dielectric DCR-L1 w/ Radome
240.00	Whip	1	Beacon
240.00	Whip	1	Lightning Rod
234.00	Whip	2	Generic 8' Omni
230.00	Straight Arm	1	Round Side Arm
229.00	Whip	1	Generic 12' Omni
223.00	Straight Arm	1	Round Side Arm
223.00	Straight Arm	1	Empty Flat Side Arm
202.00	Mounting Frame	3	Round Sector Frame
202.00	Panel	3	RFS APXVAARR24 43-U-NA20
202.00	Panel	3	Ericsson AIR 32 B66AA B2P
202.00	Panel	3	Ericsson Air6449 B41
202.00	Panel	3	Ericsson RRUS 4415 B25
202.00	Panel	3	Ericsson Radio 4449 B71 B85A
183.00	Straight Arm	3	Side Arms
183.00	Mounting Frame	3	Flat Light Sector Frame
181.00	Panel	3	Nokia 2.5G MAA - AAHC(64T64R)
180.00	Panel	1	RFS APXV9ERR18-C-A20
180.00	Panel	2	RFS APXVSP18-C-A20
180.00	Dish	3	Generic 2' Std. Dish
180.00	Panel	3	Argus LLPX310R
180.00	Panel	1	Generic 24" x 24" Junction Box
180.00	Panel	6	Alcatel-Lucent 1900MHz RRH
180.00	Panel	3	Alcatel-Lucent 800 MHz RRH
180.00	Panel	3	Motorola DAP Vx
165.00	Mounting Frame	3	Round Sector Frame
165.00	Panel	3	Kathrein Scala 80010965
165.00	Panel	3	Quintel QS66512-3 (112 lbs.)
165.00	Panel	3	Andrew SBNHH-1D65A
165.00	Panel	3	Powerwave Alligon 7770.00

Job Information

Client : VERIZON WIRELESS

Tower : 383598

Location : Tartaglia, CT

Base Width : 40.33 ft

Code : ANSI/TIA-222-H

Topo Method: Method 1

Top Width : 10.93 ft

Risk Cat : II

Topo: 1

Tower Ht : 240.00 ft

Exposure : C

Shape : Triangle

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165.00	3	Ericsson Radio 4449
165.00	3	Ericsson RRUS 32 B2
165.00	3	Ericsson RRUS 32 (50.8 lbs)
165.00	3	Ericsson RRUS 4478 B14
165.00	3	Ericsson RRUS 4426 B66
165.00	3	Raycap DC6-48-60-18-8F (23.5"
165.00	9	Powerwave Alligon LGP21401
165.00	1	Commscope WCS-IMFQ-AMT
165.00	3	CCIDTMABP7819VG12A
165.00	6	Powerwave Alligon LGP21901
165.00	12	Powerwave Alligon 7020.00 Dual
155.00	1	Generic Mount Reinforcement
155.00	3	Samsung MT6407-77A
155.00	3	Flat Light Sector Frame
155.00	3	Mounting Frame
155.00	6	Commscope JAHH-65B-R3B
155.00	3	Amphenol Antel BXA-80063-6BF-E
155.00	2	Raycap RxxDC-3315-PF-48
155.00	3	Samsung B2/B66A RRH-BR049
155.00	3	Samsung Outdoor CBRS 20W
155.00	3	Samsung Outdoor CBRS 20W
155.00	3	Commscope CBC78T-DS-43-2X
155.00	3	Samsung B5/B13 RRH-BR04C
140.00	3	Small Side Lights
132.00	1	Flat Side Arm
132.00	1	Generic 4' Yagi
123.00	1	Generic 10' Omni
118.00	1	Round Side Arm
108.00	1	Round Side Arm
98.00	1	Flat Side Arm
98.00	1	Generic 4' Yagi
80.00	1	Empty Round Side Arm
8.00	1	Round Side Arm

Linear Appurtenance

Elev (ft)		From	To	Qty	Description
0.00	245.00	1	1 1/4" Coax	1	1 1/4" Coax
0.00	243.00	1	1 5/8" Coax	1	1 5/8" Coax
0.00	240.00	1	Waveguide	1	Waveguide
0.00	234.00	2	7/8" Coax	2	7/8" Coax
0.00	229.00	1	1 1/4" Coax	1	1 1/4" Coax
0.00	202.00	1	Waveguide	1	Waveguide
0.00	202.00	3	1 5/8" Hybriflex	3	1 5/8" Hybriflex
0.00	202.00	2	1 1/4" Hybriflex Cab	2	1 1/4" Hybriflex Cab
0.00	183.00	1	Waveguide	1	Waveguide
0.00	181.00	1	1.7" (43.2mm) Hybrid	1	1.7" (43.2mm) Hybrid
0.00	180.00	6	5/16" (0.31"-7.9mm)	6	5/16" (0.31"-7.9mm)
0.00	180.00	2	2" conduit	2	2" conduit
0.00	180.00	3	1/2" Coax	3	1/2" Coax
0.00	180.00	1	1 1/4" Hybriflex Cab	1	1 1/4" Hybriflex Cab
0.00	180.00	3	1 1/4" (1.25"- 31.8m	3	1 1/4" (1.25"- 31.8m
0.00	174.00	1	Waveguide	1	Waveguide
0.00	165.00	1	Waveguide	1	Waveguide
0.00	165.00	2	2" conduit	2	2" conduit
0.00	165.00	12	1 5/8" Coax	12	1 5/8" Coax
0.00	165.00	6	0.78" (19.7mm) 8 AWG	6	0.78" (19.7mm) 8 AWG
0.00	165.00	4	0.39" (10mm) Fiber T	4	0.39" (10mm) Fiber T
0.00	165.00	2	0.39" (10mm) Fiber T	2	0.39" (10mm) Fiber T
0.00	164.00	2	0.78" (19.7mm) 8 AWG	2	0.78" (19.7mm) 8 AWG
0.00	155.00	1	Waveguide	1	Waveguide
0.00	155.00	2	1 5/8" Hybriflex	2	1 5/8" Hybriflex

Job Information				
Client : VERIZON WIRELESS				
Tower : 383598	Location : Tartaglia, CT	Base Width : 40.33 ft		
Code : ANSI/TIA-222-H	Topo Method: Method 1	Top Width : 10.93 ft		
Risk Cat : II	Topo: 1	Tower Ht : 240.00 ft		
	Exposure : C	Shape : Triangle		

0.00	155.00	6	1 5/8" Coax
0.00	132.00	1	1 1/4" Coax
0.00	123.00	1	7/8" Coax
0.00	98.00	1	1 1/4" Coax

Global Base Foundation Design Loads			
Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL + WL	10,629.10	109.74	82.06
DL + WL + IL	3,711.06	194.38	29.52

Individual Base Foundation Design Loads		
Vertical (kip)	Uplift (kip)	Horizontal (kip)
340.86	276.65	49.08



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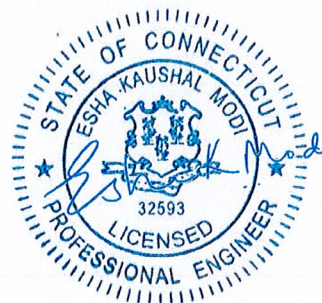
Structural Analysis Report

Structure : 240 ft Self Support Tower
ATC Site Name : Tartaglia, CT
ATC Site Number : 383598
Engineering Number : 13682699_C3_05
Proposed Carrier : AT&T MOBILITY
Carrier Site Name : MRCTB051560
Carrier Site Number : N/A
Site Location : 1000 Trumbull Avenue
Bridgeport, CT 06606
41.2196, -73.2013
County : Fairfield
Date : December 2, 2021
Max Usage : 97%
Result : Pass

Prepared By:

Tanner Putman
Structural Engineer

Reviewed By:



Authorized by "EOR"
03 Dec 2021 09:08:22

cosign

COA : PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 240 ft Self Support tower to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower Drawings	Rohn Drawing #C880400RI, dated March 3, 1988
Foundation Drawing	Mapping by FDH Project #10-12269E N1, dated January 17, 2011
Geotechnical Report	Soiltesting Job #G96-1987-87, dated January 6, 1988
Modifications	Centek Job #10001.CO78, dated December 6, 2010 GlenMartin Drawing #GM-07602, dated February 21, 2013

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	119 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Crest Length (L):	0 ft
Spectral Response:	$S_s = 0.21$, $S_i = 0.05$
Site Class:	D - Stiff Soil - Default

**Wind load and Ice thickness have been reduced by applicable existing structure load modification factors in accordance with TIA-222-H, Annex S.

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
256.0	1	Generic 8' Yagi	Side Arm	-	OTHER
245.0	1	Generic 10' Omni	Side Arm	(1) 1 1/4" Coax	
240.0	1	Dielectric DCR-L1 w/ Radome	Leg	(1) 1 5/8" Coax	RED WOLF BROADCASTING
234.0	2	Generic 8' Omni	Side Arm	(2) 7/8" Coax	OTHER
229.0	1	Generic 12' Omni	Side Arm	(1) 1 1/4" Coax	
223.0	-	-	Empty Side Arm	-	
202.0	3	Ericsson AIR 32 B66AA B2P	Sector Frame	(2) 1 1/4" Hybriflex Cable (3) 1 5/8" Hybriflex	T-MOBILE
	3	Ericsson Air6449 B41			
	3	Ericsson RRUS 4415 B25			
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson Radio 4449 B71 B85A			
181.0	3	Nokia 2.5G MAA - AAHC(64T64R)	Sector Frame	(1) 1.7" (43.2mm) Hybrid (3) 1 1/4" (1.25"-31.8mm) Fiber (1) 1 1/4" Hybriflex Cable (3) 1/2" Coax (2) 2" conduit (6) 5/16" (0.31"-7.9mm) Coax	SPRINT NEXTEL
180.0	3	Alcatel-Lucent 800 MHz RRH			
	6	Alcatel-Lucent 1900MHz RRH			
	3	Argus LLPX310R			
	1	Generic 24" x 24" Junction Box			
	3	Generic 2' Std. Dish			
	2	RFS APXVSP18-C-A20			
	1	RFS APXV9ERR18-C-A20			
	3	Motorola DAP Vx			
165.0	3	Andrew SBNHH-1D65A	Sector Frame	(6) 1 5/8" Coax (1) 2" conduit	AT&T MOBILITY
	3	Powerwave Allgon 7770.00			
	3	Ericsson RRUS 4478 B14			
	2	Raycap DC6-48-60-18-8F (23.5" Height)			
155.0	3	Commscope CBC78T-DS-43-2X	Sector Frame with Reinforcement	(6) 1 5/8" Coax (3) 1 5/8" Hybriflex	VERIZON WIRELESS
	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna			
	3	Samsung Outdoor CBRS 20W RRH			
	6	Commscope JAHH-65B-R3B			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung MT6407-77A			
	2	Raycap RxxDC-3315-PF-48			
	3	Samsung B2/B66A RRH-BR049			
145.0	3	Amphenol Antel BXA-80063-6BF-EDIN-X	Sector Frame	(1) 1.75" (44.5mm) Hybrid	DISH WIRELESS L.L.C.
	1	Commscope RDIDC-9181-PF-48			
	3	Fujitsu TA08025-B604			
	3	Fujitsu TA08025-B605			
	3	JMA Wireless MX08FRO665-21			
132.0	1	Generic 4' Yagi	Side Arm	(1) 1 1/4" Coax	OTHER
123.0	1	Generic 10' Omni	Side Arm	(1) 7/8" Coax	
98.0	1	Generic 4' Yagi	Side Arm	(1) 1 1/4" Coax	
80.0	-	-	Empty Side Arm	-	

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
165.0	3	Kathrein Scala 80010965	-	(2) 0.39" (10mm) Fiber Trunk (6) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (1) 2" conduit	AT&T MOBILITY
	12	Powerwave Allgon LGP21901			
	1	Commscope WCS-IMFQ-AMT			
	6	Powerwave Allgon 7020.00 Dual Band RET			
	3	CCI DTMAPB7819VG12A			
	3	Quintel QS66512-3 (112 lbs.)			
	1	Raycap DC6-48-60-18-8F (23.5" Height)			
	3	Ericsson RRUS 4426 B66			
	3	Ericsson RRUS 32 (50.8 lbs)			
	3	Ericsson RRUS 32 B2			
	3	Ericsson Radio 4449			
	9	Powerwave Allgon LGP21401			

Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
167.0	3	Ericsson AIR 6449 n77D	Sector Frame	(3) 0.40" (10.3mm) Fiber (4) 0.82" (20.8mm) 8 AWG 6 (3) 0.92" (23.4mm) Cable	AT&T MOBILITY
165.0	3	CCI DMP65R-BU6DA			
	3	Quintel QD6616-7			
	3	Ericsson RRUS 4415 B25			
	3	Ericsson RRUS 4449 B5, B12			
	3	Ericsson RRUS 32 B66A			
	3	Ericsson RRUS 32 B30			
	1	Raycap DC9-48-60-24-8C-EV			
163.0	3	Ericsson AIR 6419 N77G			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines alongside existing AT&T MOBILITY lines.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	43%	Pass
Diagonals	97%	Pass
Horizontals	87%	Pass
Anchor Bolts	49%	Pass
Leg Bolts	36%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	274.0	89%
Axial (Kips)	340.6	1%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
180.0	Generic 2' Std. Dish	SPRINT NEXTEL	0.124	0.004	0.052
167.0	Ericsson AIR 6449 n77D	AT&T MOBILITY	0.115	0.004	0.052
165.0	CCI DMP65R-BU6DA		0.106	0.004	0.053
	Ericsson RRUS 32 B30				
	Ericsson RRUS 32 B66A				
	Ericsson RRUS 4415 B25				
	Ericsson RRUS 4449 B5, B12				
	Quintel QD6616-7				
	Raycap DC9-48-60-24-8C-EV		0.115	0.004	0.052
	CCI DMP65R-BU6DA				
	Ericsson RRUS 32 B30				
	Ericsson RRUS 32 B66A				
	Ericsson RRUS 4415 B25				
	Ericsson RRUS 4449 B5, B12				
	Quintel QD6616-7				
	Raycap DC9-48-60-24-8C-EV				
163.0	Ericsson AIR 6419 N77G		0.106	0.004	0.053
145.0	Commscope RDIDC-9181-PF-48	DISH WIRELESS L.L.C.	0.087	0.004	0.052
	Fujitsu TA08025-B604				
	Fujitsu TA08025-B605				
	JMA Wireless MX08FRO665-21				

*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H

Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

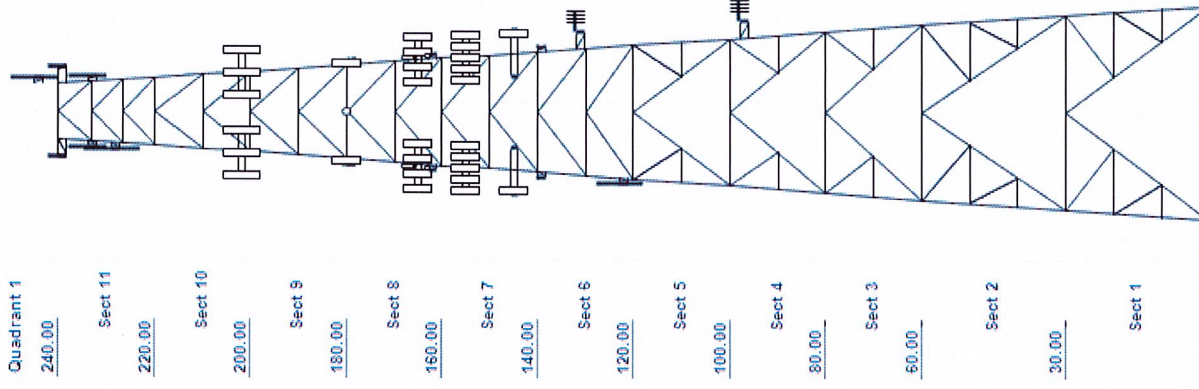
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

Asset: 383598, Tartaglia
Client: AT&T MOBILITY
Code: ANSI/TIA-222-H

Height : 240 ft
Base Width : 40.33 ft
Shape : Triangle



SITE PARAMETERS

Nominal Wind : 115.99 mph wind with no ic Exposure : C Site Class : D
Ice Wind: 48.73 mph wind with 0.850" Topo Method: Method 1 Risk Cat : II
Service Wind : 60 mph Serviceability Topo Feature : S_g : 0.211 S_i : 0.054

SECTION PROPERTIES

Section	Leg Members	Diagonal Members	Horizontal Members
1	PX 50 ksi 10" DIA PIP	PST 50 ksi 3" DIA PIPE	PST 50 ksi 3-1/2" DIA PIPE
2-3	PX 50 ksi 10" DIA PIP	PST 50 ksi 3" DIA PIPE	PST 50 ksi 3" DIA PIPE
4	PX 50 ksi 8" DIA PIPE	PST 50 ksi 3" DIA PIPE	PST 50 ksi 3" DIA PIPE
5	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE
6	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE
7-8	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE
9-10	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2-1/2" DIA PIPE	PST 50 ksi 2" DIA PIPE
11	PX 50 ksi 8" DIA PIPE	PST 50 ksi 2" DIA PIPE	PST 50 ksi 2" DIA PIPE

REDUNDANT SECONDARY BRACING

Section	Sub Diag 1	Sub Horiz 1	Sub Diag 2	Sub Horiz 2	Sub Diag 3	Sub Horiz 3
1	P1-1/2" DIA PIPE	P1-1/2" DIA PI	P2-1/2" DIA PIPE	P2" DIA PIPE	-	-
2	P1-1/2" DIA PIPE	P1-1/2" DIA PI	P2" DIA PIPE	P2" DIA PIPE	-	-
3-4	P2" DIA PIPE	P1-1/2" DIA PI	-	-	-	-
5	P1-1/2" DIA PIPE	P1-1/2" DIA PI	-	-	-	-
6-11	-	-	-	-	-	-

DISCRETE APPURTENANCE

Elev (ft)	Type	Qty	Description
256.00	YAGI	1	Generic 8' Yagi
245.00	OMNI	1	Generic 10' Omni
240.00	OMNI	1	Lightning Rod
240.00	OMNI	1	Beacon
240.00	Other	1	Dielectric DCR-L1 w/ Radome
240.00	Side Arm	2	Generic Round Side Arm
234.00	OMNI	2	Generic 8' Omni
230.00	T-Arm	1	Round Side Arm
229.00	OMNI	1	Generic 12' Omni
223.00	T-Arm	1	Round Side Arm
223.00	T-Arm	1	Empty Flat Side Arm
202.00	PANEL	3	Ericsson Air6449 B41
202.00	PANEL	3	RFS APXVAARR24 43-U-NA20
202.00	PANEL	3	Ericsson AIR 32 B66AA B2P
202.00	RRU/RRH	3	Ericsson Radio 4449 B71 B85A
202.00	RRU/RRH	3	Ericsson RRUS 4415 B25
202.00	Sector Frame	3	Generic Round Sector Frame
183.00	Sector Frame	3	Flat Light Sector Frame
183.00	T-Arm	3	Side Arms
181.00	PANEL	3	Nokia 2.5G MAA - AAHC(64T64R)
180.00	BOB/SSB	1	Generic 24" x 24" Junction Box
180.00	DISH-STANDARD	3	Generic 2' Std. Dish
180.00	PANEL	1	RFS APXV9ERR18-C-A20
180.00	PANEL	2	RFS APXVSP18-C-A20
180.00	PANEL	3	Argus LLPX310R
180.00	RRU/RRH	3	Alcatel-Lucent 800 MHz RRH
180.00	RRU/RRH	3	Motorola DAP Vx

Asset: 383598, Tartaglia
 Client: AT&T MOBILITY
 Code: ANSI/TIA-222-H

Height : 240 ft
 Base Width : 40.33 ft
 Shape : Triangle

DISCRETE APPURTENANCE

Elev (ft)	Type	Qty	Description
180.00	RRU/RRH	6	Alcatel-Lucent 1900MHz RRH
167.00	PANEL	3	Ericsson AIR 6449 n77D
165.00	BOB/SSB	1	Raycap DC9-48-60-24-8C-EV
165.00	BOB/SSB	2	Raycap DC6-48-60-18-8F (23.5"
165.00	PANEL	3	CCI DMP65R-BU6DA
165.00	PANEL	3	Quintel QD6616-7
165.00	PANEL	3	Powerwave Alligon 7770.00
165.00	PANEL	3	Andrew SBNHH-1D65A
165.00	RRU/RRH	3	Ericsson RRUS 32 B66A
165.00	RRU/RRH	3	Ericsson RRUS 32 B30
165.00	RRU/RRH	3	Ericsson RRUS 4449 B5, B12
165.00	RRU/RRH	3	Ericsson RRUS 4478 B14
165.00	RRU/RRH	3	Ericsson RRUS 4415 B25
165.00	Sector Frame	3	Generic Round Sector Frame
163.00	PANEL	3	Ericsson AIR 6419 N77G
155.00	BOB/SSB	2	Raycap RxxDC-3315-PF-48
155.00	DIPLEXER/DUAL COUPLER	3	Commscope CBC78T-DS-43-2X
155.00	Mount Reinforcement	1	Generic Mount Reinforcement
155.00	PANEL	3	Samsung MT6407-77A
155.00	PANEL	3	Amphenol Antel BXA-80063-6BF-E
155.00	PANEL	3	Samsung Outdoor CBRS 20W RRH -
155.00	PANEL	6	Commscope JAHH-65B-R3B
155.00	RRU/RRH	3	Samsung Outdoor CBRS 20W RRH
155.00	RRU/RRH	3	Samsung B5/B13 RRH-BR04C
155.00	RRU/RRH	3	Samsung B2/B66A RRH-BR049
155.00	Sector Frame	3	Flat Light Sector Frame
145.00	BOB/SSB	1	Commscope RDIDC-9181-PF-48
145.00	PANEL	3	JMA Wireless MX08FRO665-21
145.00	RRU/RRH	3	Fujitsu TA08025-B605
145.00	RRU/RRH	3	Fujitsu TA08025-B604
145.00	Sector Frame	3	Generic Flat Light Sector Fram
140.00	OMNI	3	Small Side Lights
132.00	T-Arm	1	Flat Side Arm
132.00	YAGI	1	Generic 4' Yagi
123.00	OMNI	1	Generic 10' Omni
118.00	T-Arm	1	Round Side Arm
108.00	T-Arm	1	Round Side Arm
98.00	T-Arm	1	Flat Side Arm
98.00	YAGI	1	Generic 4' Yagi
80.00	T-Arm	1	Empty Round Side Arm
8.00	T-Arm	1	Round Side Arm

LINEAR APPURTENANCE

Elev (ft)	To	Qty	Description
From			
0.00	245.00	1	1 1/4" Coax
0.00	243.00	1	1 5/8" Coax
0.00	240.00	1	Waveguide
0.00	234.00	2	7/8" Coax
0.00	229.00	1	1 1/4" Coax
0.00	202.00	1	Waveguide
0.00	202.00	3	1 5/8" Hybriflex
0.00	202.00	2	1 1/4" Hybriflex Cable

Asset: 383598, Tartaglia
 Client: AT&T MOBILITY
 Code: ANSI/TIA-222-H

Height : 240 ft
 Base Width : 40.33 ft
 Shape : Triangle

LINEAR APPURTENANCE

Elev (ft)	To		Qty	Description
	From			
0.00	183.00		1	Waveguide
0.00	181.00		1	1.7" (43.2mm) Hybrid
0.00	180.00		6	5/16" (0.31"-7.9mm) Coax
0.00	180.00		2	2" conduit
0.00	180.00		3	1/2" Coax
0.00	180.00		1	1 1/4" Hybriflex Cable
0.00	180.00		3	1 1/4" (1.25"- 31.8mm) Fiber
0.00	174.00		1	Waveguide
0.00	165.00		1	Waveguide
0.00	165.00		1	2" conduit
0.00	165.00		6	1 5/8" Coax
0.00	165.00		3	0.92" (23.4mm) Cable
0.00	165.00		4	0.82" (20.8mm) 8 AWG 6
0.00	165.00		3	0.40" (10.3mm) Fiber
0.00	155.00		1	Waveguide
0.00	155.00		3	1 5/8" Hybriflex
0.00	155.00		6	1 5/8" Coax
0.00	145.00		1	Waveguide
0.00	145.00		1	1.75" (44.5mm) Hybrid
0.00	132.00		1	1 1/4" Coax
0.00	123.00		1	7/8" Coax
0.00	98.00		1	1 1/4" Coax

GLOBAL BASE FOUNDATION DESIGN LOADS

Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL+WL	10570.86	113.88	81.3
DL+WL+IL	3540.49	185.41	28.39

INDIVIDUAL BASE FOUNDATION DESIGN LOADS

Vertical (kip)	Uplift (kip)	Horizontal (kip)
340.58	273.95	48.83

JOB INFORMATION

Asset: 383598, Tartaglia
Client AT&T MOBILITY
Code: ANSI/TIA-222-H

Height : 240 ft
Base Width : 40.33 ft
Shape : Triangle



Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
Peter.Albano@ColliersEngineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10069536
Maser Consulting Connecticut Project #: 21777438A

June 11, 2021

Site Information

Site ID: 467325-VZW / N BRIDGEPORT CT
Site Name: N BRIDGEPORT CT
Carrier Name: Verizon Wireless
Address: 1330 Chopsey Hill Rd.
Bridgeport, Connecticut 06606,
Fairfield County
Latitude: 41.219528°
Longitude: -73.201779°

Structure Information

Tower Type: Self-Support
Mount Type: 13.00-Ft Sector Frame

FUZE ID # 16231899

Analysis Results

Sector Frame: 81.2% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

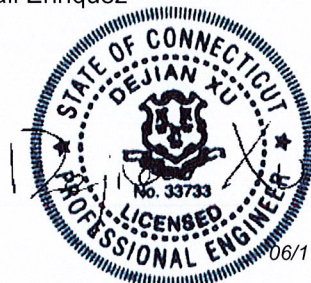
Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Abigail Enriquez



06/11/2021

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 324428, dated March 17, 2021</i>
<i>Mount Mapping Report</i>	<i>RKS Design & Engineering LLC., Site ID: VZW:467325, dated April 02, 2021</i>
<i>Previous Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project # 21777438A, dated May 7, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project # 21777438A, dated June 11, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 119 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.993
Seismic Parameters:	S_s : 0.211 S_1 : 0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mount:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
153.90	155.00	3	Samsung	MT6407-77A	Added
		1	Raycap	RC3DC-3315-PF-48	Retained
		3	Samsung	B5/B13 RRH-BR04C	
		2	Amphenol	BXA-80063-6BF-EDIN-4	
		1	Amphenol	BXA-80063-6BF-EDIN-6	
		6	Commscope	JAHH-65B-R3B	
		3	Samsung	XXDWMM-12.5-65-8T-CBRS	
		3	Commscope	CBC78T-DS-43-2X	
		3	Samsung	B2/B66 RRH-BR049	

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Pipe Standoff Horizontal	11.2 %	Pass
Face Horizontal	45.8 %	Pass
Face Diagonal	6.6 %	Pass
Mount Pipe	69.1 %	Pass
Pipe Face Horizontal	81.2 %	Pass
Standoff Horizontal	26.8 %	Pass
Standoff Vertical	12.4 %	Pass
Standoff Diagonal	6.3 %	Pass
Dual Mount Pipe	19.4 %	Pass
Tieback	11.3 %	Pass
V-Brace	27.0 %	Pass
Mount Connection Check	8.5 %	Pass
Kicker Connection Check	26.6 %	Pass

Structure Rating – (Controlling Utilization of all Components)	81.2%
-----------------------------------------------------------------------	--------------

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

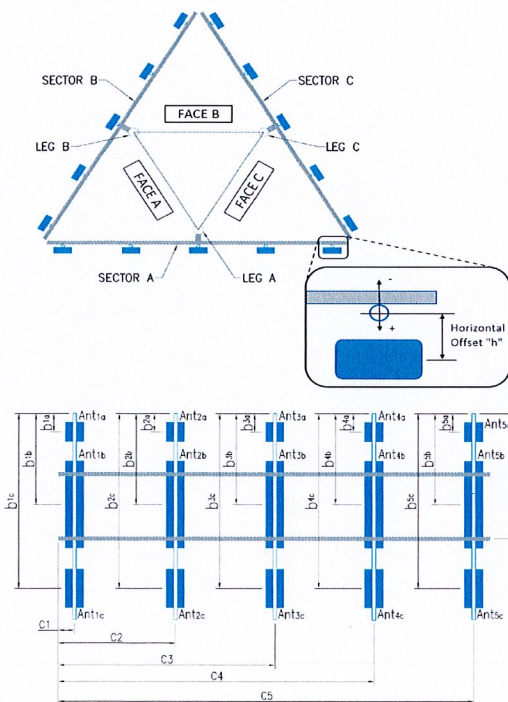
1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter



FCC #
1203184

Tower Owner:	ATC	Mapping Date:	4/2/2021
Site Name:	ATC: Tartaglia VZW: N Bridgeport CT	Tower Type:	Self Support
Site Number or ID:	ATC:383598, VZW:467325	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering LLC.	Mount Elevation (Ft.):	150.9

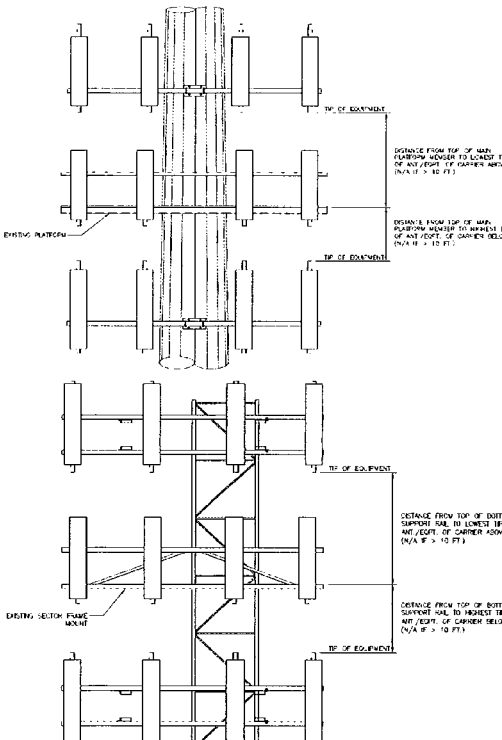
Please insert the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.



Antenna Layout (Looking Out From Tower)

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.375"Ø X 0.15" X 72" LONG	64.50	11.50	C1	PIPE 2.375"Ø X 0.15" X 72" LONG	64.50	11.50
A2	PIPE 2.375"Ø X 0.15" X 72" LONG	65.75	84.00	C2	PIPE 2.375"Ø X 0.15" X 72" LONG	65.75	84.00
A3	PIPE 2.375"Ø X 0.15" X 72" LONG	63.50	132.00	C3	PIPE 2.375"Ø X 0.15" X 72" LONG	63.50	132.00
A4	PIPE 2.375"Ø X 0.15" X 72" LONG	64.50	157.50	C4	PIPE 2.375"Ø X 0.15" X 72" LONG	64.50	157.50
A5				C5			
A6				C6			
B1	PIPE 2.375"Ø X 0.15" X 72" LONG	64.50	11.50	D1			
B2	PIPE 2.375"Ø X 0.15" X 72" LONG	65.75	84.00	D2			
B3	PIPE 2.375"Ø X 0.15" X 72" LONG	63.50	132.00	D3			
B4	PIPE 2.375"Ø X 0.15" X 72" LONG	64.50	157.50	D4			
B5				D5			
B6				D6			
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							18.00
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :							
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.) :							
Please enter additional information or comments below.							
Tower Face Width at Mount Elev. (ft.):		15	Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):			9	

[illegible]

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B											
Sector A:	50.00	Deg	Leg A:	50.00	Deg	Ant _{1a}	RT4401-48A	12.00	8.25	12.00		152.942	22.00	-8.25		19,416			
Sector B:	170.00	Deg	Leg B:	170.00	Deg	Ant _{1b}													
Sector C:	290.00	Deg	Leg C:	290.00	Deg	Ant _{1c}													
Sector D:		Deg	Leg D:		Deg	Ant _{2a}	CBC78T-DS-43-2X	9.50	6.25	6.75		152.879	24.00	-6.50		19,416			
Climbing Facility Information								Ant _{2b}	(2) JAHH-65B-R3B	13.75	8.25	72.00		152.108	33.25	12.00	170.00	19,416	
Location:	50.00	Deg	Sector A			Ant _{2c}	RFV01U-D1A	15.00	10.00	15.00		152.025	34.25	-8.50		19,416			
Climbing Facility	Corrosion Type:	N/A				Ant _{3a}	RFV01U-D2A	15.00	8.00	15.00		152.088	31.25	-7.75		19,416			
	Access:	Climbing path was unobstructed.				Ant _{3b}													
	Condition:	Good condition.				Ant _{3c}													
								Ant _{4a}	BXA-80063-6BF-EDIN	11.25	5.25	68.00		152.025	33.00	10.25	170.00	19,416	
								Ant _{4c}											
								Ant _{5a}											
								Ant _{5b}											
								Ant _{5c}											
								Ant on Standoff	RC3DC-3315-PF-48	15.00	10.00	28.00			30.00	8.00		422	
								Ant on Standoff											
								Ant on Tower											
								Ant on Tower											
								Sector C											
Ant _{1a}	RT4401-48A	12.00	8.25	12.00			152.942	22.00	-8.25			25							
Ant _{1b}																			
Ant _{1c}																			
Ant _{2a}	CBC78T-DS-43-2X	9.50	6.25	6.75			152.879	24.00	-6.50			25							
Ant _{2b}	(2) JAHH-65B-R3B	13.75	8.25	72.00			152.108	33.25	12.00	290.00		25							
Ant _{2c}	RFV01U-D1A	15.00	10.00	15.00			152.025	34.25	-8.50			25							
Ant _{3a}	RFV01U-D2A	15.00	8.00	15.00			152.088	31.25	-7.75			25							
Ant _{3b}																			
Ant _{3c}																			
Ant _{4a}																			
Ant _{4b}	BXA-80063-6BF-EDIN	11.25	5.25	68.00			152.025	33.00	10.25	290.00		25							
Ant _{4c}																			
Ant _{5a}																			
Ant _{5b}																			
Ant _{5c}																			
Ant on Standoff																			
Ant on Standoff																			
Ant on Tower																			
Ant on Tower																			
Sector D																			
Ant _{1a}																			
Ant _{1b}																			
Ant _{1c}																			
Ant _{2a}																			
Ant _{2b}																			
Ant _{2c}																			
Ant _{3a}																			
Ant _{3b}																			
Ant _{3c}																			
Ant _{4a}																			
Ant _{4b}																			
Ant _{4c}																			
Ant _{5a}																			
Ant _{5b}																			
Ant _{5c}																			
Ant on Standoff																			
Ant on Standoff																			
Ant on Tower																			
Ant on Tower																			

Observed Safety and Structural Issues During the Mount Mapping		
Issue #	Description of Issue	Photo #

1	TOTAL COAX(9):(3)1.5"Ø HYBRID, (6) FH 1 5/8	76
2		
3		
4		
5		
6		
7		
8		

Mapping Notes
<p>1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)</p> <p>2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.</p> <p>3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.</p> <p>4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.</p> <p>5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.</p> <p>6. Please measure and report the size and length of all existing antenna mounting pipes.</p> <p>7. Please measure and report the antenna information for all sectors.</p> <p>8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.</p>

Standard Conditions
<p>1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.</p>



Antenna Mount Mapping Form (PATENT PENDING)

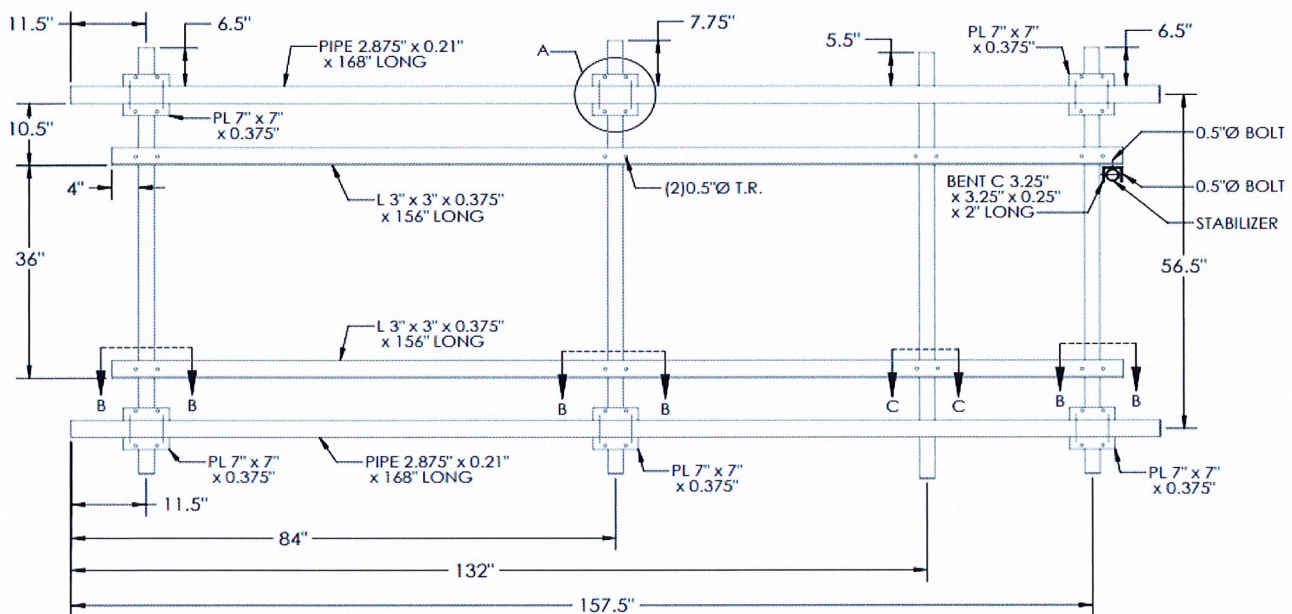
FCC #

1203184

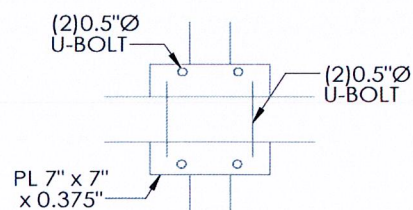
Tower Owner:	ATC	Mapping Date:	4/2/2021
Site Name:	ATC: Tartaglia VZW: N Bridgeport CT	Tower Type:	Self Support
Site Number or ID:	ATC:383598, VZW:467325	Tower Height (Ft.):	UNKNOWN
Mapping Contractor:	RKS Design & Engineering LLC.	Mount Elevation (Ft.):	150.9

This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

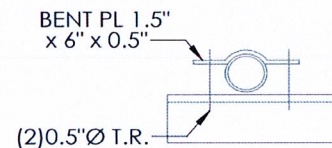
Please Insert Sketches of the Antenna Mount



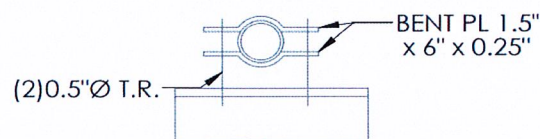
SECTOR A & C



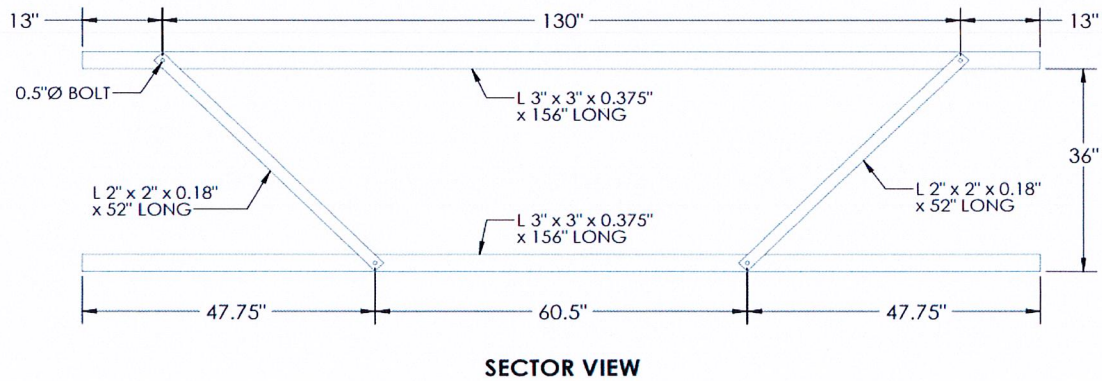
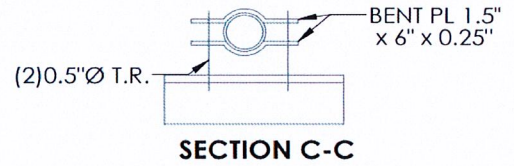
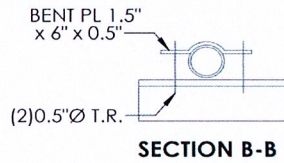
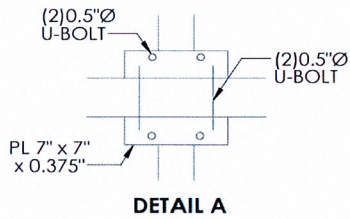
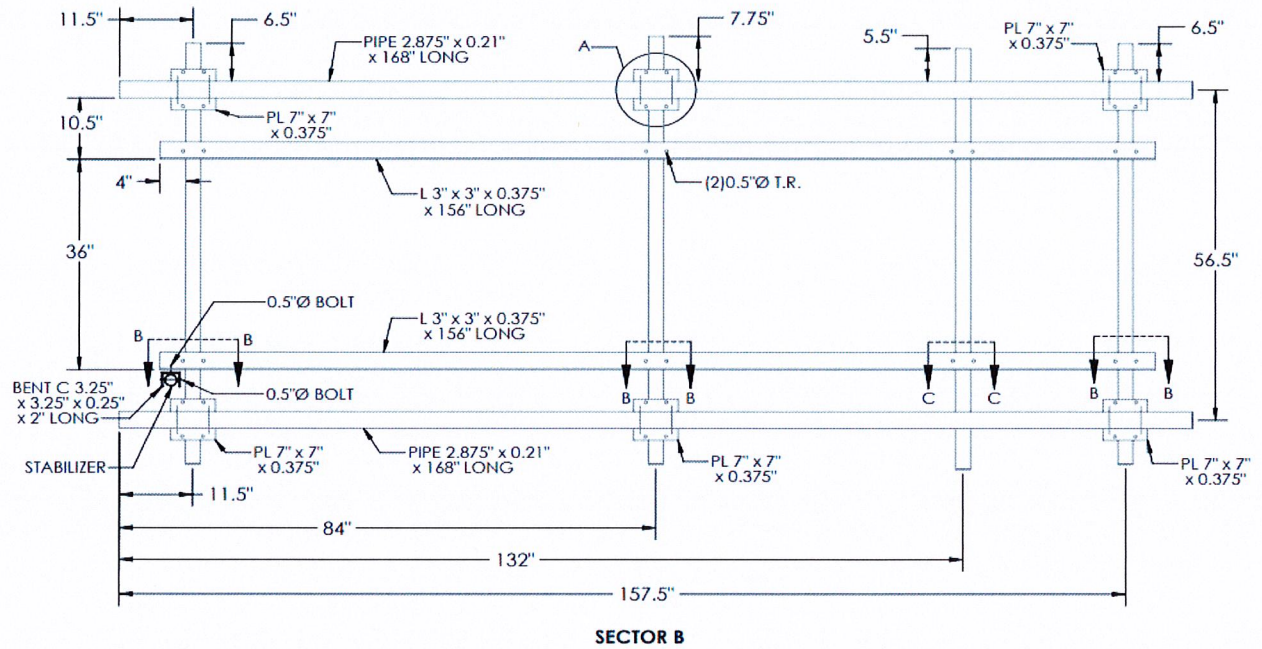
DETAIL A

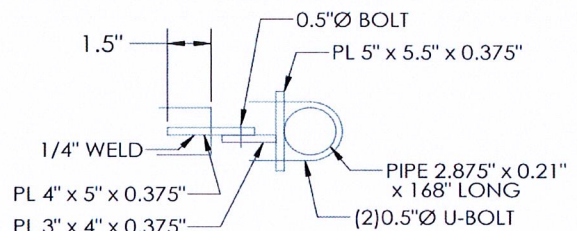
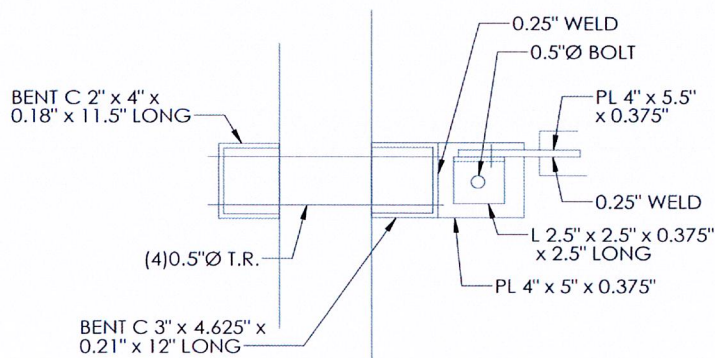
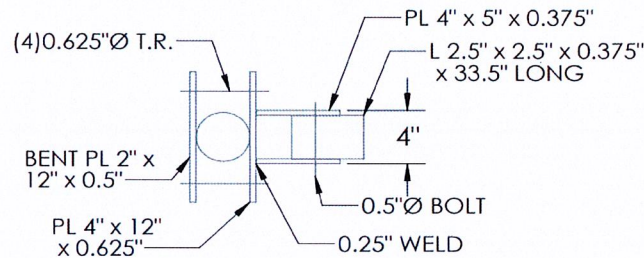
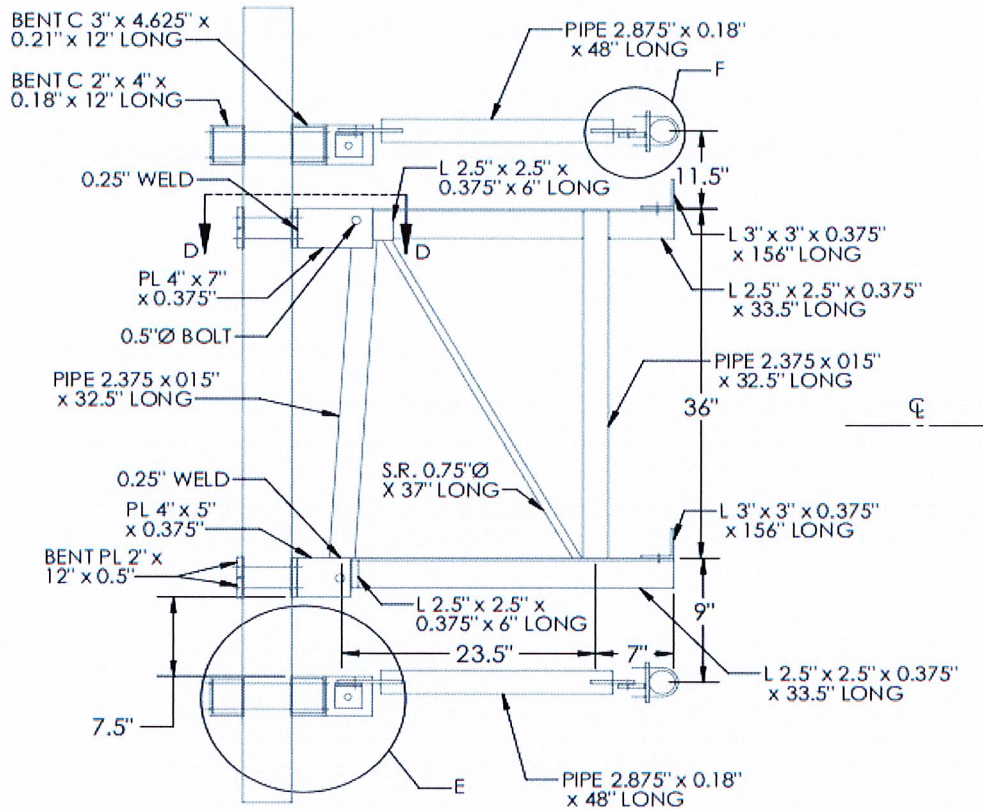


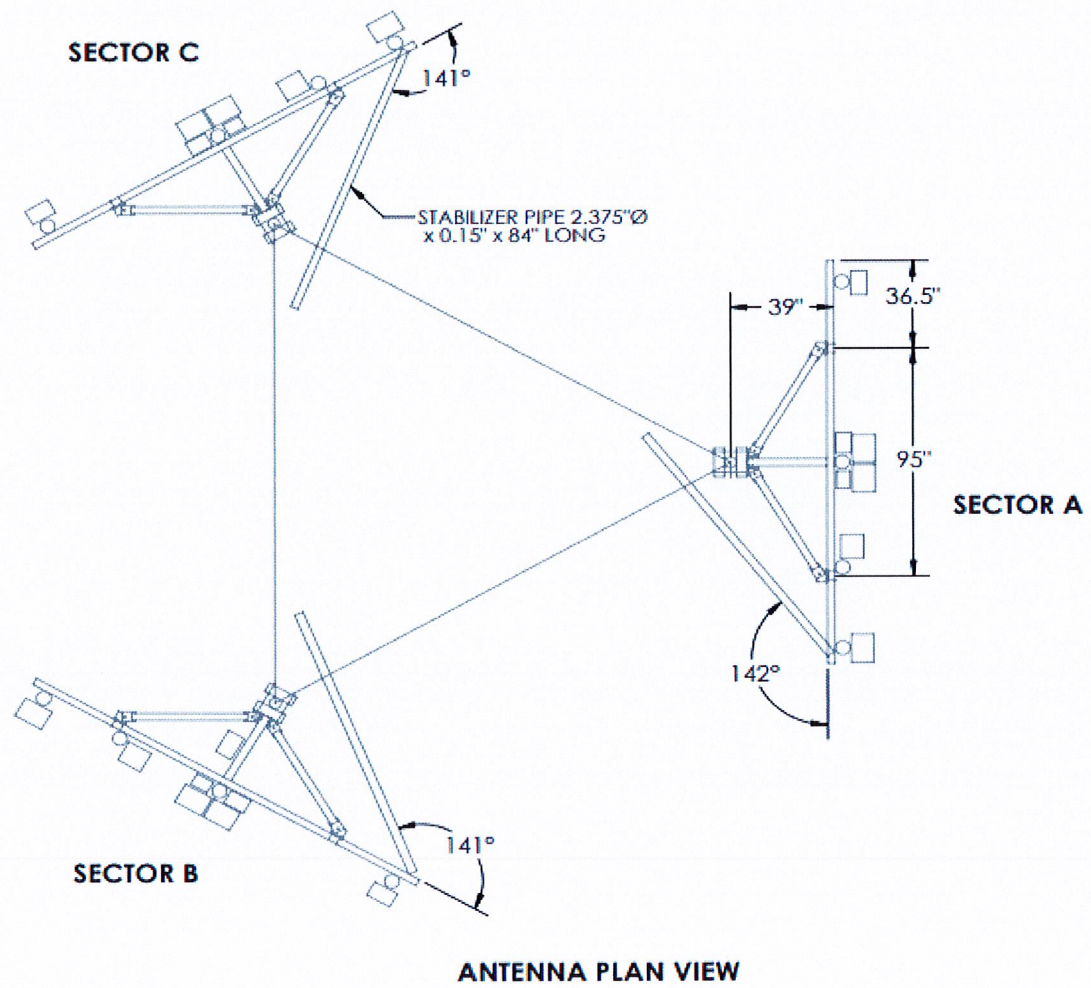
SECTION B-B

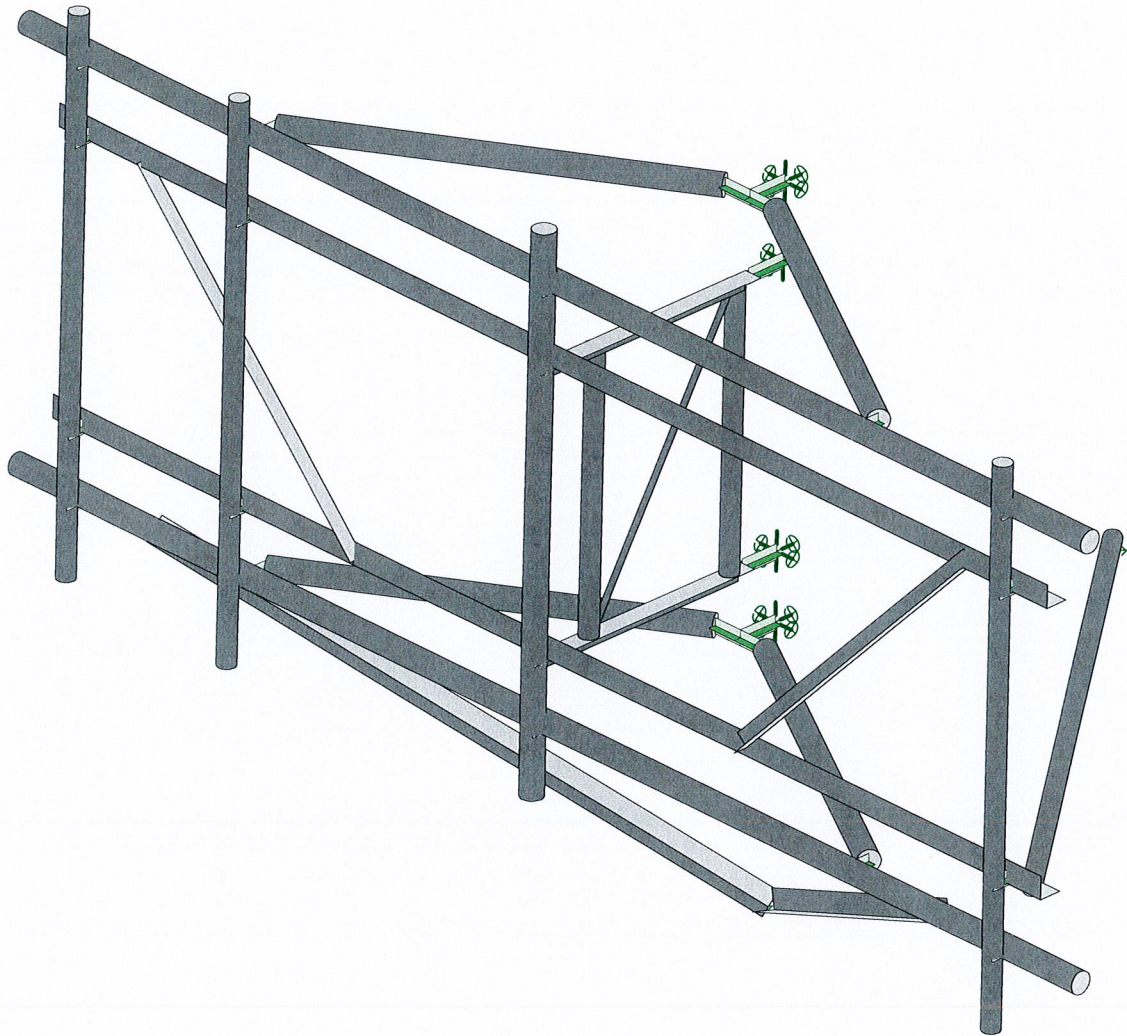
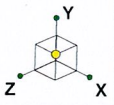


SECTION C-C







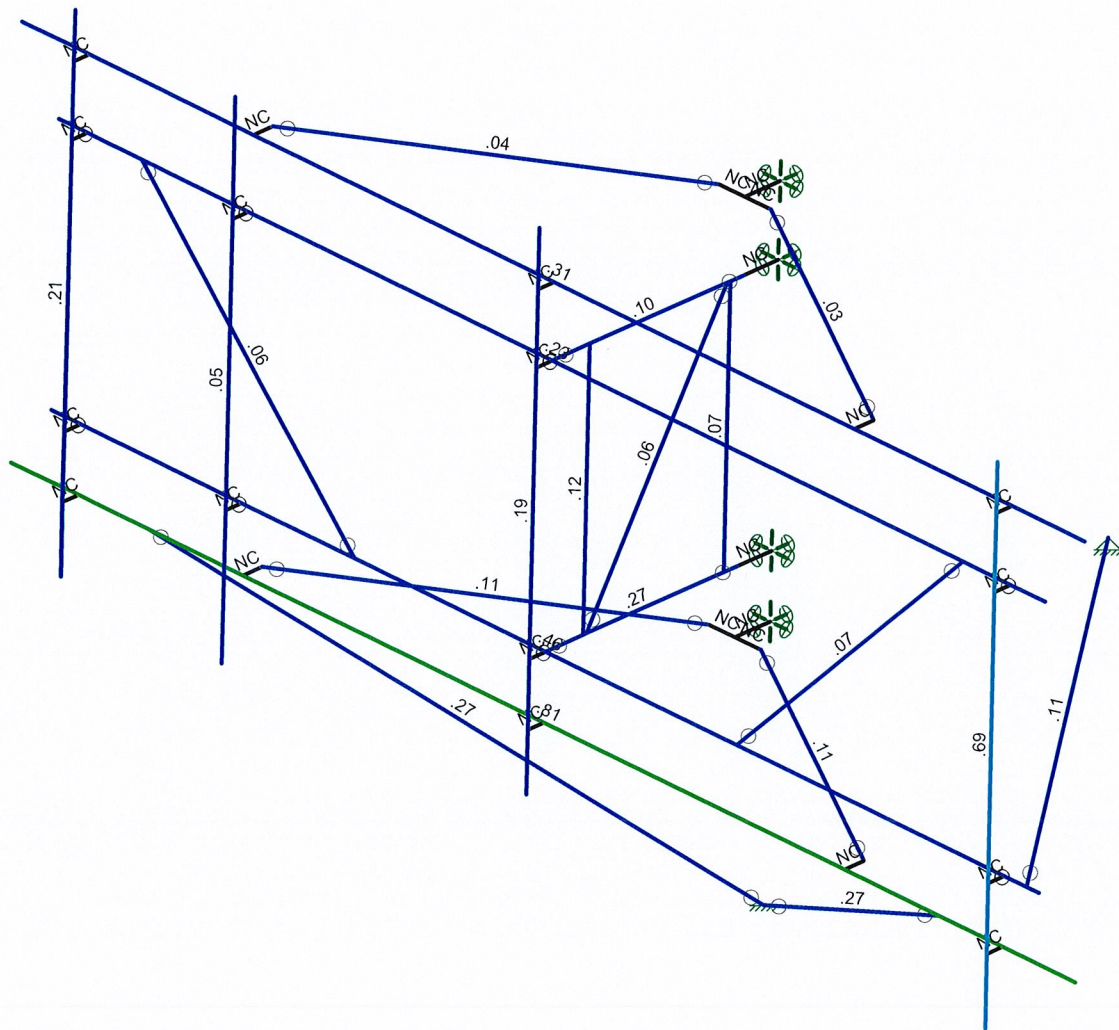
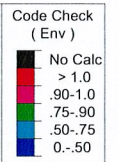
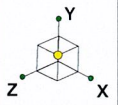


Envelope Only Solution

SK - 4

June 10, 2021 at 8:12 AM

FINAL_467325-VZW_MT_LOT_B...

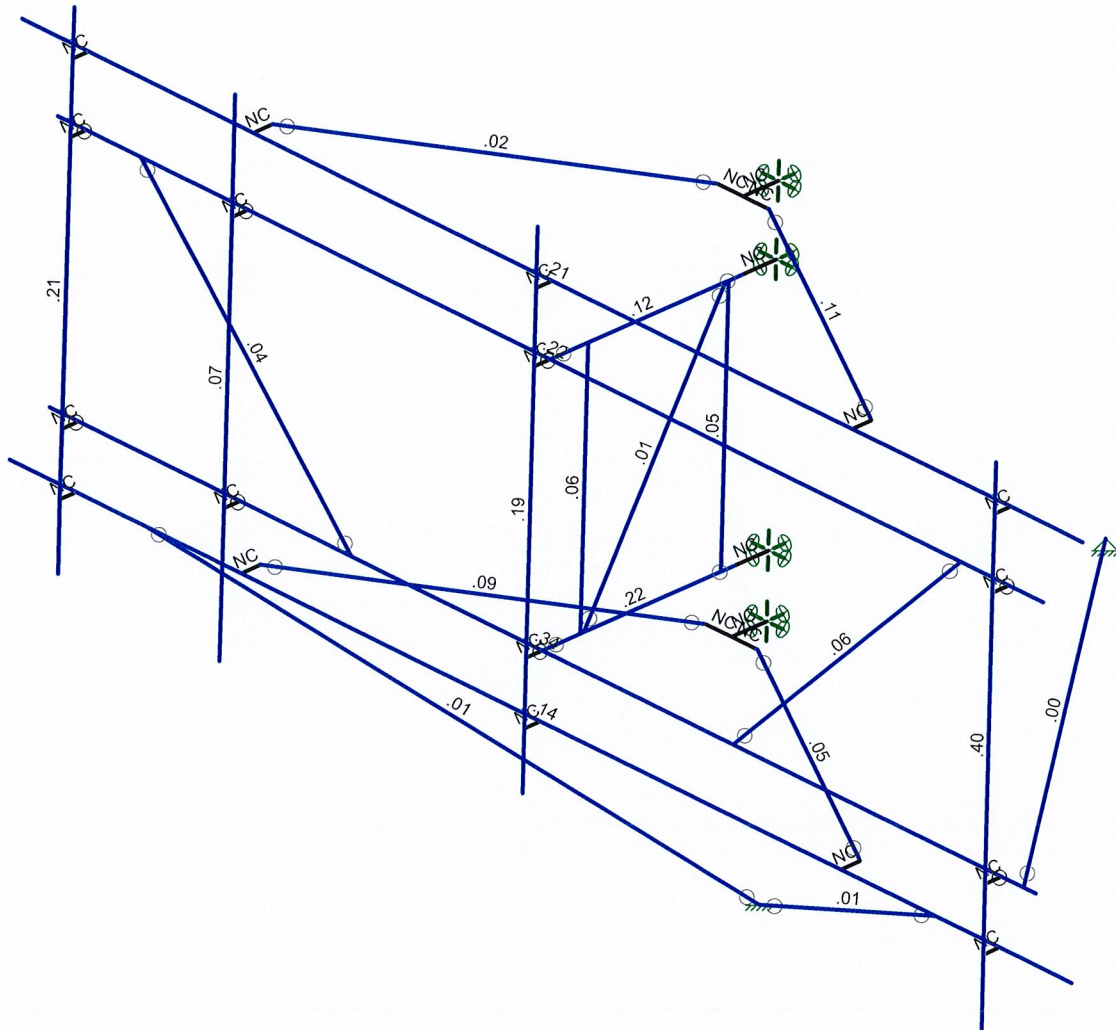
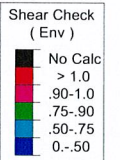
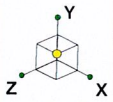


Member Code Checks Displayed (Enveloped)
Envelope Only Solution

SK - 5

June 10, 2021 at 8:12 AM

FINAL_467325-VZW_MT_LOT_B...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

SK - 6

June 10, 2021 at 8:12 AM

FINAL_467325-VZW_MT_LOT_B_...

Site Name: **N BRIDGEPORT CT**
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	634	2534	155	0.0038	0.5007	0.76%
VZW CDMA	877.26	2	498	995	155	0.0015	0.5848	0.25%
VZW Cellular	874	4	725	2902	155	0.0043	0.5827	0.75%
VZW PCS	1980	4	1592	6369	155	0.0095	1.0000	0.95%
VZW AWS	2120	4	1633	6534	155	0.0098	1.0000	0.98%
VZW CBRS	3625	4	11	42	155	0.0001	1.0000	0.01%
VZW CBAND	3730.08	4	6531	26125	155	0.0391	1.0000	3.91%
Total Percentage of Maximum Permissible Exposure								7.61%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.



CURRENT OWNER		TOPO	UTILITIES	STRT / ROAD	LOCATION	CURRENT ASSESSMENT		VISION	
GLOBAL TOWER ASSETS LLC						Description	Code	Appraised	Assessed
10 PRESIDENTIAL WAY		SUPPLEMENTAL DATA				Com Outbl	2-5	75,820	53,090
						Vac Cm Ld	5-2	367,620	257,330
WOBURN MA 01801		Alt Pricl ID 2778--61B----- Census Tr CEN728 Heart Abstract 200:200 Freeze				BRIDGEPORT, CT			
		GIS ID 2778-61B							
		Assoc Pld#							
		Special Dis							

RECORD OF OWNERSHIP				BK-VOL/PAGE	SALE DATE	Q/U	V/I	SALE PRICE	VC	PREVIOUS ASSESSMENTS (HISTORY)			
GLOBAL TOWER ASSETS LLC	9695	0074	09-13-2017	U	V			0	04	Year	Code	Assessed	Year
GLOBAL TOWER ASSETS LLC	9500	0294	09-14-2016	U	V			0	03	2018	2-5	53,090	2017
CELL TOWER LEASE ACQUISITION LLC	7342	0302	01-23-2007	U	I			0	03	5-2	257,330	5-2	53,090
UNISON SITE MANAGEMENT LLC	7342	0299	01-23-2007	U	I			1,925,000	03			257,330	
TARTAGLIA REMO	3018	0317	07-06-1992	U	V			700,000					
Total										310420	Total	443,440	310,420

EXEMPTIONS				OTHER ASSESSMENTS			
Year	Code	Description	Amount	Code	Description	Number	Amount
Total			0.00	Total			

ASSESSING NEIGHBORHOOD			
Nbrhd	Nbrhd Name	B	Tracing
021			Batch

NOTES			
CELL TOWER			
ENTRANCE TO LOT OFF OF CHOPSEY AM RD			

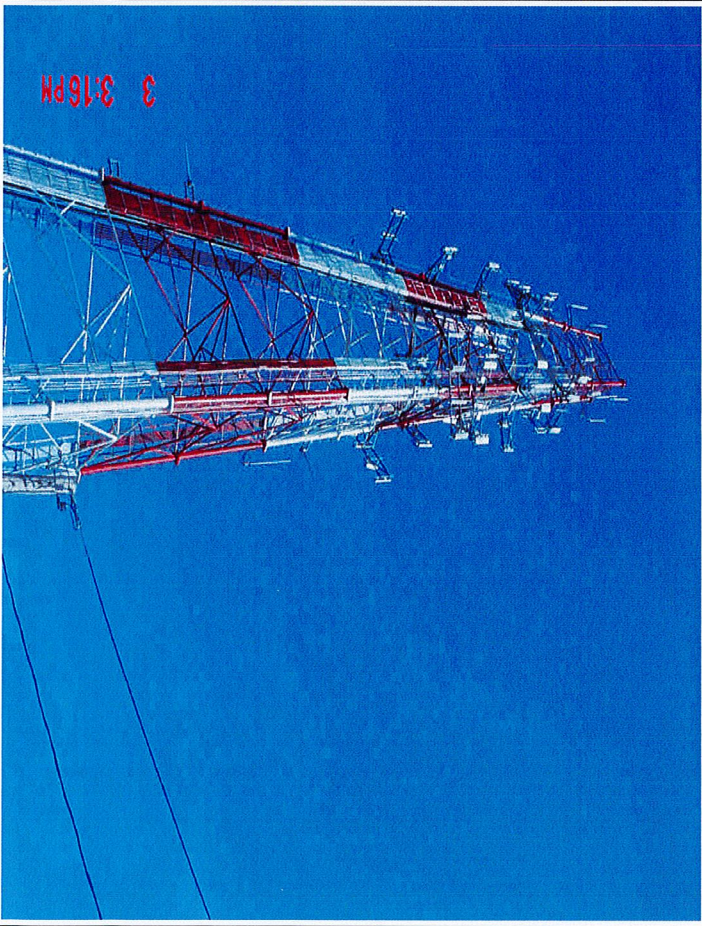
BUILDING PERMIT RECORD

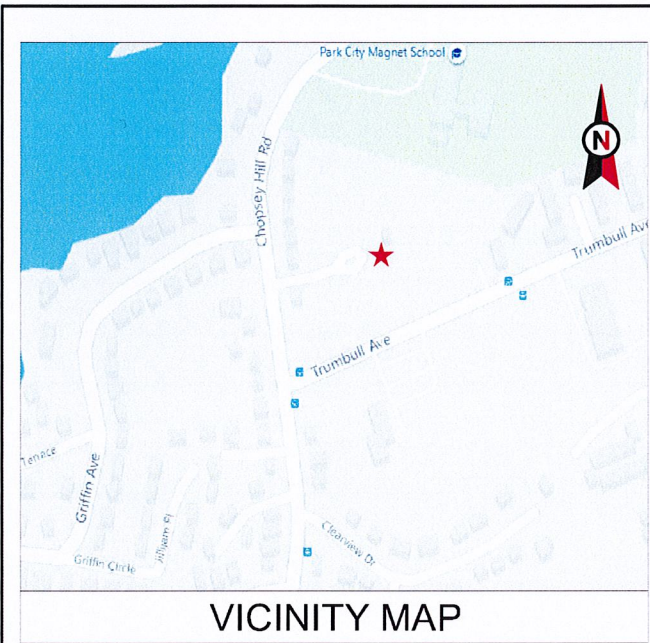
Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments	Date	Id	Type	Is	Cd	Purpose/Result
138418	06-12-2018	OT	Telecommunica	20,000	04-13-2018	100	01-10-2018	Replace Antenna	07-21-2016	RK	02		P	Permit Activity
117018	03-27-2018		Telecommunica	15,000	04-30-2018	0		C/O 6097	10-10-2014	RK	02		P	Permit Activity
6747	06-07-2017		Telecommunica	15,000	09-06-2017	100	05-02-2017	C/O #6077	05-12-2014	RK	02		P	Permit Activity
7023	10-13-2016		Telecommunica	15,000	09-28-2017	100	04-28-2017		06-28-2013	RK	02		P	Permit Activity
6731	06-01-2016	OT	Telecommunica	40,000	04-13-2018	100	01-10-2018	COA = Replace Antennas (AT	08-31-2010	RK	02		P	Permit Activity
6572	04-04-2016		Telecommunica	40,000	10-11-2016	100	10-05-2016	C/O #5896 ANTENNAS REPL	09-03-2009	RK	02		P	Permit Activity
6482	01-29-2016		Telecommunica	15,000	07-21-2016	100	05-12-2016	C/O #6286 T MOBILE	10-28-2008	AD	02		P	Permit Activity

LAND LINE VALUATION SECTION

B	Use Code	Description	Zone	Land Type	Land Units	Unit Price	Size Adj	Site Index	Cond.	Nbhd.	Nbhd. Adj	Notes	Location Adjustment	Adj Unit P	Land Value		
1	200V	Commercial Lnd	RA		3.050	AC	101,500.00	1.00000	0	1.25	2140	0.950	CU	1.0000	120,531.2	367,620	
Total Card Land Units					3.050	AC	Parcel Total Land Area 3.0500					Total Land Value					367,620

CONSTRUCTION DETAIL				CONSTRUCTION DETAIL (CONTINUED)			
Element	Cd	Description	Element	Cd	Description		
Style: 79	00	Telephone Bldg					
Model		Vacant					
Grade:							
Stories:							
Occupancy:							
Exterior Wall 1:							
Exterior Wall 2:							
Roof Structure:							
Roof Cover:							
Interior Wall 1:							
Interior Wall 2:							
Interior Flr 1:							
Interior Flr 2							
Heat Fuel:							
Heat Type:							
AC Type:							
Total Bedrooms							
Total Full Baths							
Total Half Baths							
Total Xtra Fixrs							
Total Rooms							
Bath Style:							
Kitchen Style:							
Fireplaces							
Fin Bsmt Area							
Fin Bsmt Qualit							
Bsmt Garages							





ATC SITE NAME: TARTAGLIA
ATC SITE NUMBER: 383598
VERIZON SITE NAME: BRIDGEPORT NORTH
VERIZON SITE NUMBER: 467325
SITE ADDRESS: 1000 TRUMBULL AVENUE
BRIDGEPORT, CT 6606



VERIZON
5G L-SUB6 CARRIER ADD ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015 2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL 3. TIA-222-G-4, STRUCTURAL STANDARD FRO ANTENNA SUPPORTING STRUCTURES AND ANTENNAS 4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION 6. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 1000 TRUMBULL AVENUE BRIDGEPORT, CT 6606 COUNTY: FAIRFIELD <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.2196 LONGITUDE: -73.20128611 GROUND ELEVATION: 212' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: INSTALL (3) ANTENNA(s) AND (3) RRH(s) EXISTING (12) ANTENNAS(s), (9) RRU(s), (3) DIPLEXER(s), (2) OVP(s), (6) 1-5/8" COAX CABLE(s), AND (2) 6 X12 HYBRID CABLE(s) TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
			G-001	TITLE SHEET	0	06/30/21	JL
			G-002	GENERAL NOTES	0	06/30/21	JL
			C-101	DETAILED SITE PLAN	0	06/30/21	JL
			C-201	TOWER ELEVATION	0	06/30/21	JL
			C-401	ANTENNA INFORMATION & SCHEDULE	0	06/30/21	JL
			C-501	CONSTRUCTION DETAILS	0	06/30/21	JL
			E-501	GROUNDING DETAILS	0	06/30/21	JL
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
			MOUNT MODIFICATION DRAWINGS (9 PAGES)				

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)

B. AC/TELCO INTERFACE BOX (PPC)

C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)

D. TOWERS, MONOPOLES

E. TOWER LIGHTING

F. GENERATORS & LIQUID PROPANE TANK

G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING

H. ANTENNAS (INSTALLED BY OTHERS)

I. TRANSMISSION LINE

J. TRANSMISSION LINE JUMPERS

K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS

L. TRANSMISSION LINE GROUND KITS

M. HANGERS

N. HOISTING GRIPS

O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION
ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND

B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.

E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.

F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREEDED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPlice WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



AMERICAN TOWER®



Dewberry®

Dewberry Engineers Inc.

99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.531.0801
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/02/21
0	FINAL	JL	06/30/21

ATC SITE NUMBER:
383598

ATC SITE NAME:
TARTAGLIA

VERIZON SITE NAME:
BRIDGEPORT NORTH

SITE ADDRESS:
1000 TRUMBULL AVENUE
BRIDGEPORT, CT 06606

SEAL:



verizon

DATE DRAWN:	06/02/21
ATC JOB NO:	13668689
CUSTOMER ID:	BRIDGEPORT NORTH
CUSTOMER #:	467325

GENERAL NOTES

SHEET NUMBER:

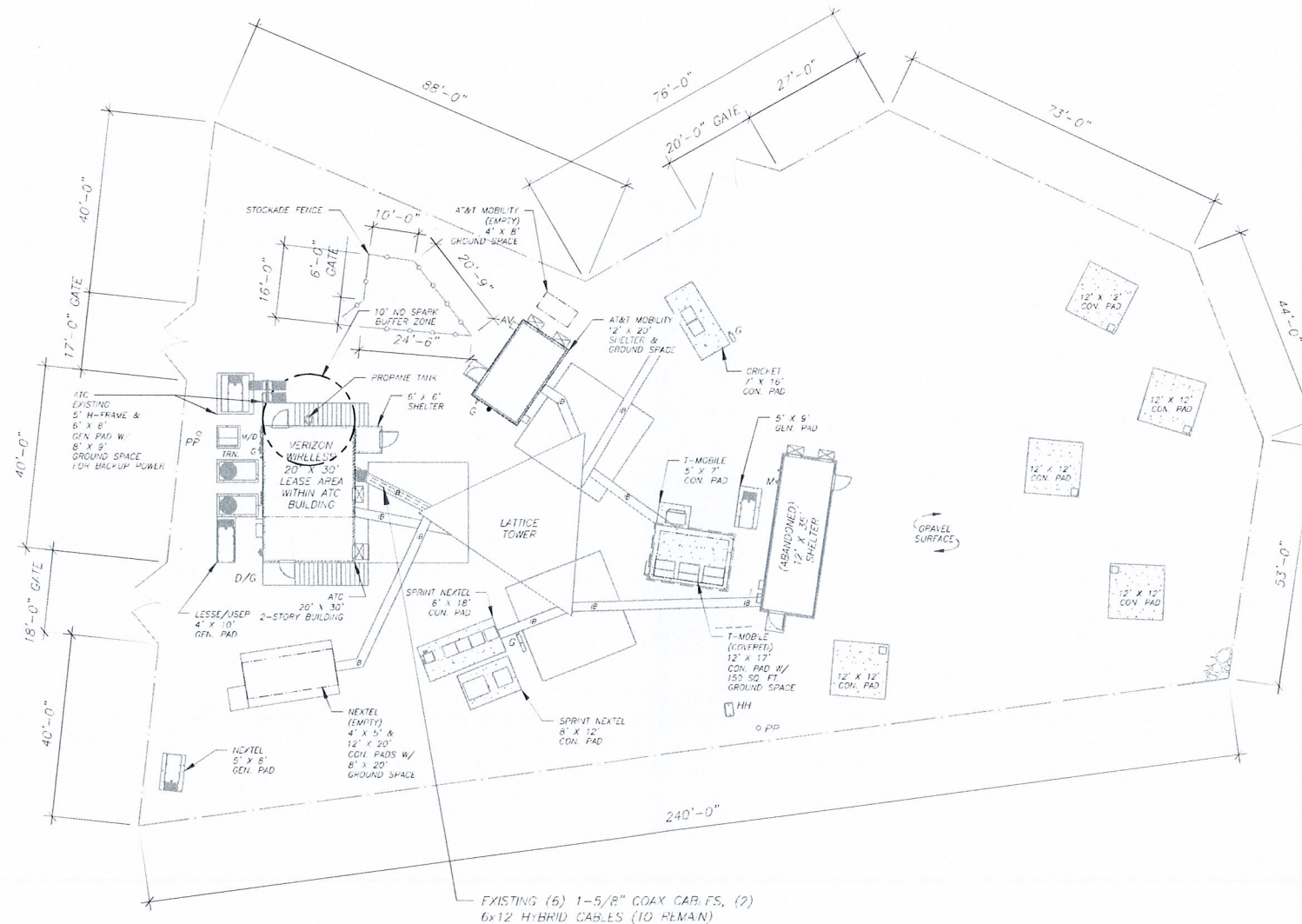
G-002

REVISION:

0

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. NO ELECTRICAL SCOPE IS INCLUDED IN THIS PROJECT

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
	CHAINLINK FENCE

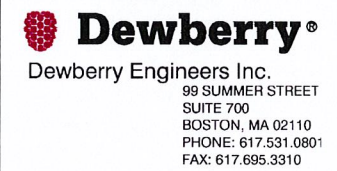


1. ESTIMATED LENGTH OF PROPOSED CABLE IS ~~XXX~~
ESTIMATED LENGTH OF CABLE WAS PROVIDED BY
CUSTOMER OR CALCULATED BY ADDING THE RAD
CENTER AND THE DISTANCE FROM THE SHELTER
ENTRY PLATE TO THE TOWER (ALONG THE ICE
BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF
15% (OF THE TWO PREVIOUS VALUES). CDS DEFER
TO GREATEST CABLE LENGTH
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS
EXISTING CABLES AND IN ACCORDANCE WITH
STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE
EXISTING CABLE SUPPORT STRUCTURES AS
PROVIDED FOR CARRIER TO ADEQUATELY SECURE
CABLES, USING EITHER APPROPRIATELY SIZED
STAINLESS STEEL SNAP-INS OR MOUNTING
HARDWARE AND BRACKETS AS SPECIFIED BY CABLE
MANUFACTURER. OTHERWISE, ATTACH CABLES TO
HORIZONTAL OR DIAGONAL TOWER MEMBERS
USING PROPOSED STAINLESS STEEL ADAPTERS (DO
NOT ATTACH TO TOWER LEG).

1 DETAILED SITE PLAN

GRAPHIC SCALE

(IN FEET)
1 UNIT = 30 FEET



REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/02/21
0	FINAL	JL	06/30/21

VERIZON SITE NAME:
BRIDGEPORT NORTH

SITE ADDRESS:
1000 TRUMBULL AVENUE
BRIDGEPORT, CT 6606

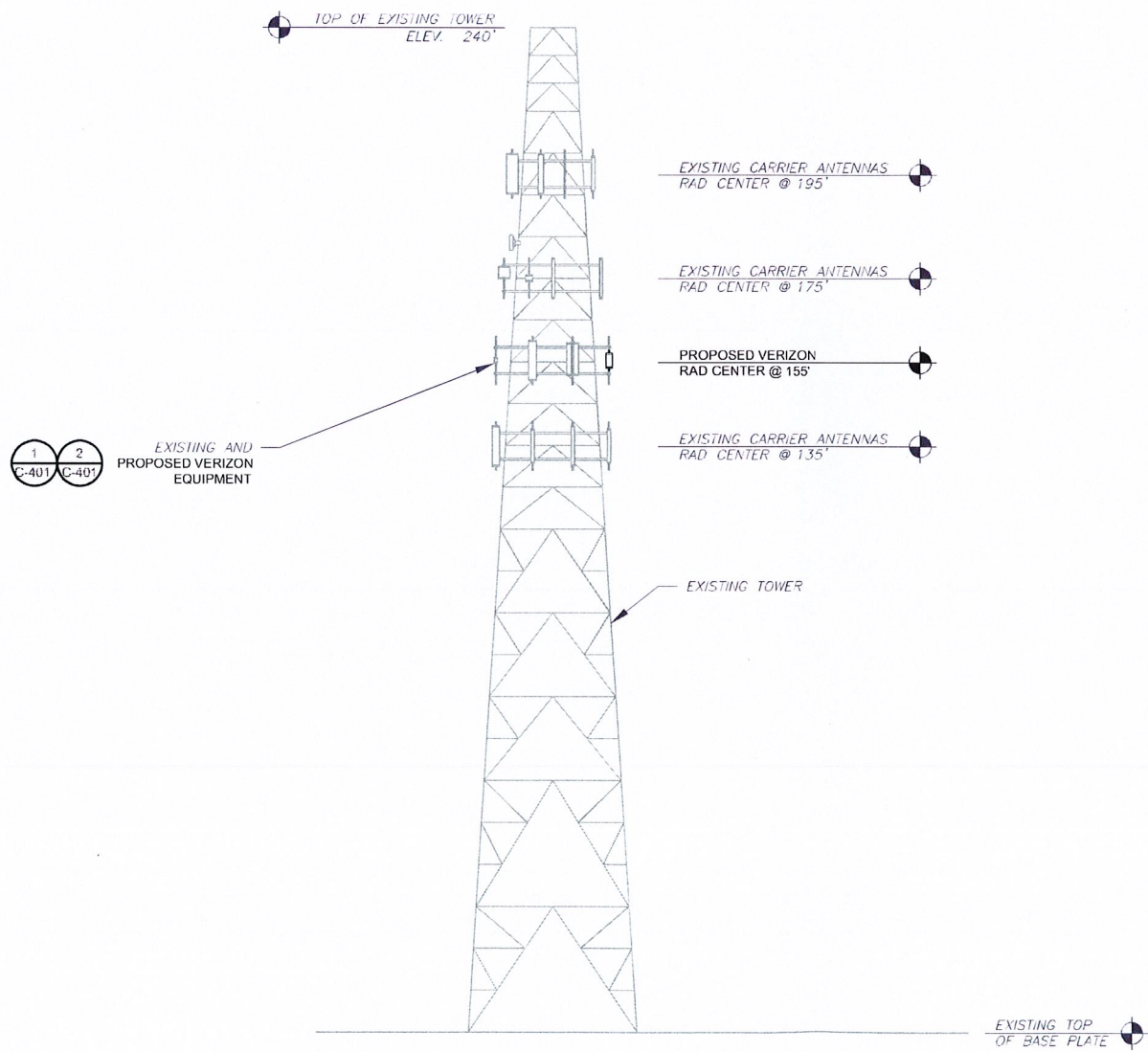
A circular professional engineer seal for E.O. Smith, No. 28971, State of Utah. The seal features the text "E.O. SMITH" at the top, "28971" in the center, "LICENSED" below the number, and "PROFESSIONAL ENGINEER" at the bottom. The words "STATE OF UTAH" are written along the right side of the inner circle. A blue ink signature is written over the left side of the seal.



DATE DRAWN:	06/02/21
ATC JOB NO:	13668689
CUSTOMER ID:	BRIDGEPORT NORTH
CUSTOMER #:	467325

SHEET NUMBER: C-101	REVISION: 0
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PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 06/11/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.



- TOWER NOTE:**
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
 2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
 3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

1 TOWER ELEVATION
SCALE: N.T.S.



Dewberry®
Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.531.0801
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/02/21
0	FINAL	JL	06/30/21

ATC SITE NUMBER:
383598

ATC SITE NAME:
TARTAGLIA

VERIZON SITE NAME:
BRIDGEPORT NORTH

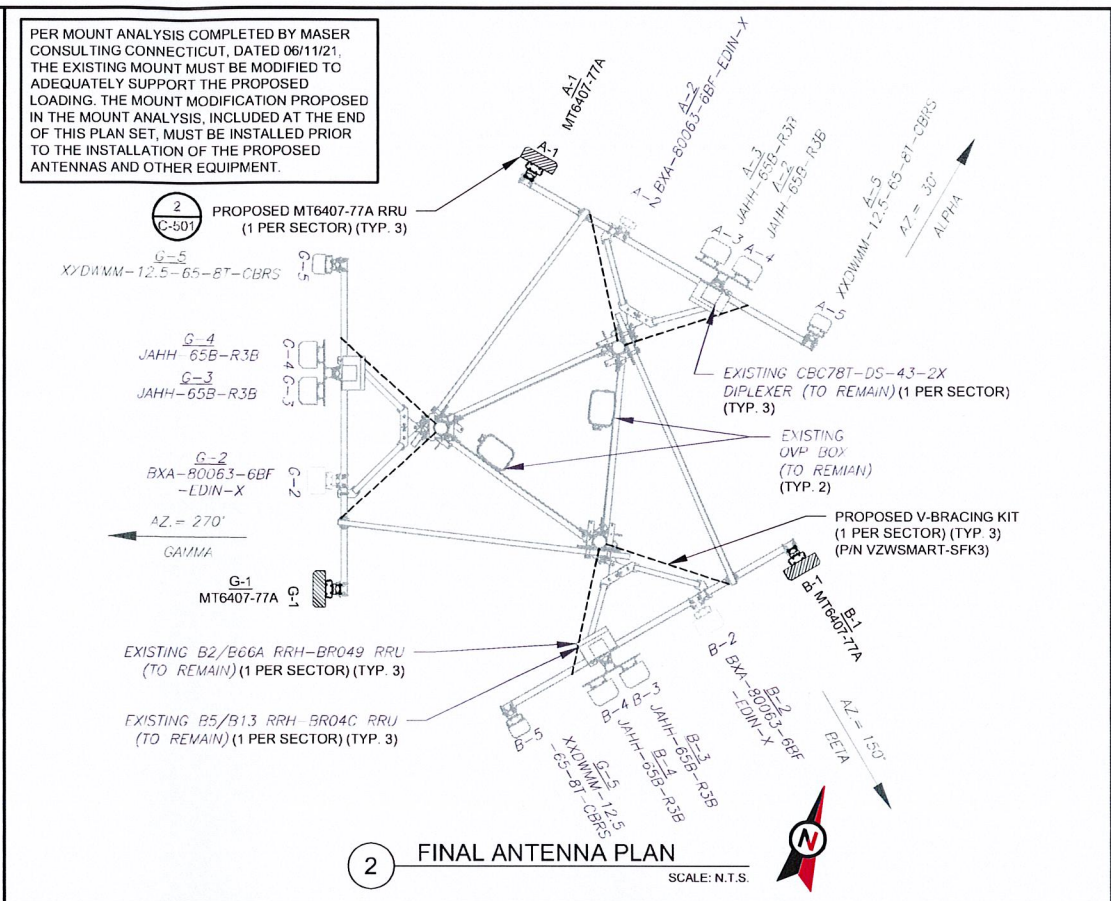
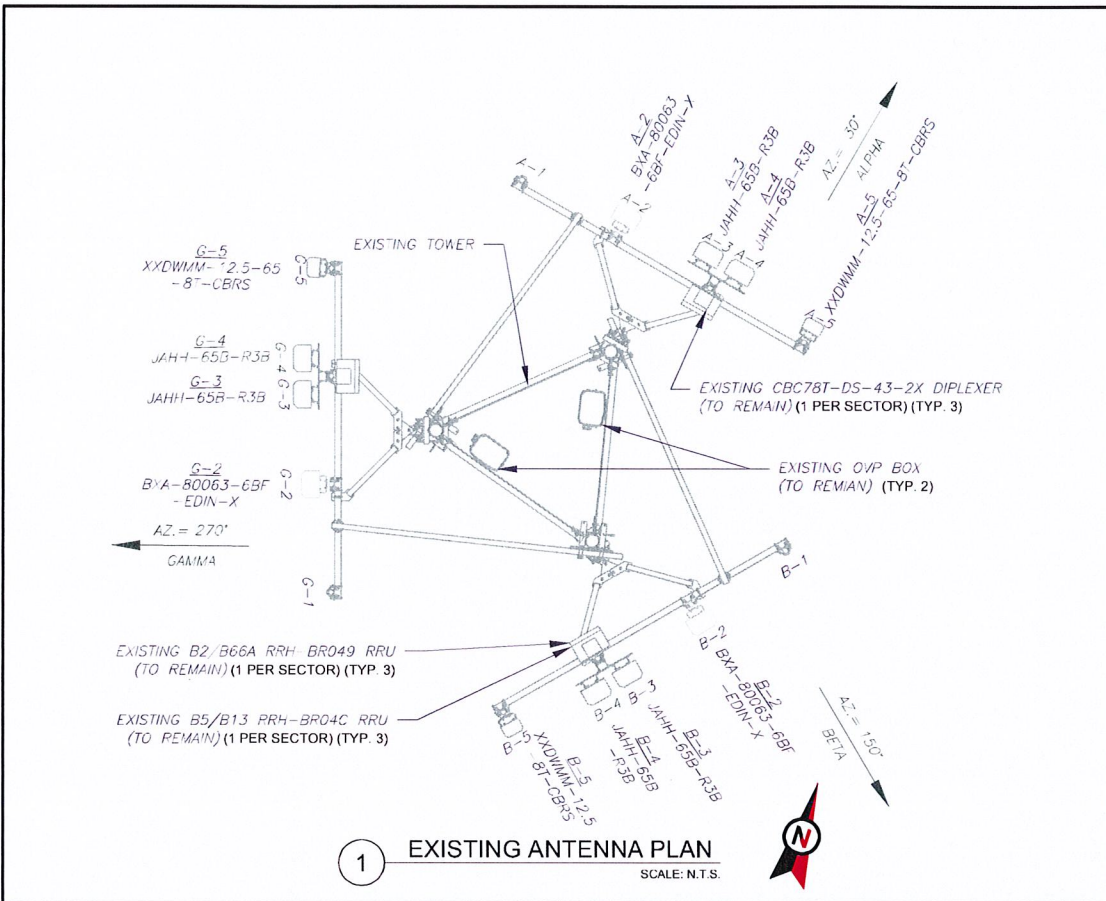
SITE ADDRESS:
1000 TRUMBULL AVENUE
BRIDGEPORT, CT 06606



DATE DRAWN:	06/02/21
ATC JOB NO:	13668689
CUSTOMER ID:	BRIDGEPORT NORTH
CUSTOMER #:	467325

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0



EXISTING ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	155°	30°	A2	BXA-80063-68F-EDIN-4	CDMA 850	-	RMN	-	-
			A3	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	B2/B66A RRH-BR049	RMN
			A4	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	CBC78T-DS-43-2X	RMN
			A5	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	B5/B13 RRH-BR04C	RMN
			A6	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	CBRS RRH RT4401-48A	RMN
BETA	155°	150°	B2	BXA-80063-68F-EDIN-4	CDMA 850	-	RMN	-	-
			B3	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	B2/B66A RRH-BR049	RMN
			B4	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	CBC78T-DS-43-2X	RMN
			B5	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	B5/B13 RRH-BR04C	RMN
			B6	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	CBRS RRH RT4401-48A	RMN
GAMMA	155°	270°	G2	BXA-80063-68F-EDIN-4	CDMA 850	-	RMN	-	-
			G3	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	B2/B66A RRH-BR049	RMN
			G4	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	CBC78T-DS-43-2X	RMN
			G5	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	B5/B13 RRH-BR04C	RMN
			G6	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	CBRS RRH RT4401-48A	RMN

NOTES

1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.

2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMN: TO BE REMOVED
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	155°	30°	A1	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD
			A2	BXA-80063-68F-EDIN-4	CDMA 850	-	RMN	-	-
			A3	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	B2/B66A RRH-BR049	RMN
			A4	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	CBC78T-DS-43-2X	RMN
			A5	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	B5/B13 RRH-BR04C	RMN
BETA	155°	150°	B1	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD
			B2	BXA-80063-68F-EDIN-4	CDMA 850	-	RMN	-	-
			B3	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	B2/B66A RRH-BR049	RMN
			B4	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	CBC78T-DS-43-2X	RMN
			B5	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	B5/B13 RRH-BR04C	RMN
GAMMA	155°	270°	G1	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD
			G2	BXA-80063-68F-EDIN-4	CDMA 850	-	RMN	-	-
			G3	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	B2/B66A RRH-BR049	RMN
			G4	JAHH-65B-R3B	700/850/1900/AWS	0/2,2,2,2	RMN	CBC78T-DS-43-2X	RMN
			G5	XXDWM-12.5-65-8T-CBRS	CBRS	0/8	RMN	B5/B13 RRH-BR04C	RMN

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) OVP-6	RMN	(6) 1-5/8"	(2) 6X12	RMN

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) OVP-6	RMN	(6) 1-5/8"	(2) 6X12	RMN



Dewberry
Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.531.0801
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/02/21
0	FINAL	JL	06/30/21

ATC SITE NUMBER:
383598

ATC SITE NAME:
TARTAGLIA

VERIZON SITE NAME:
BRIDGEPORT NORTH

SITE ADDRESS:
1000 TRUMBULL AVENUE
BRIDGEPORT, CT 06606

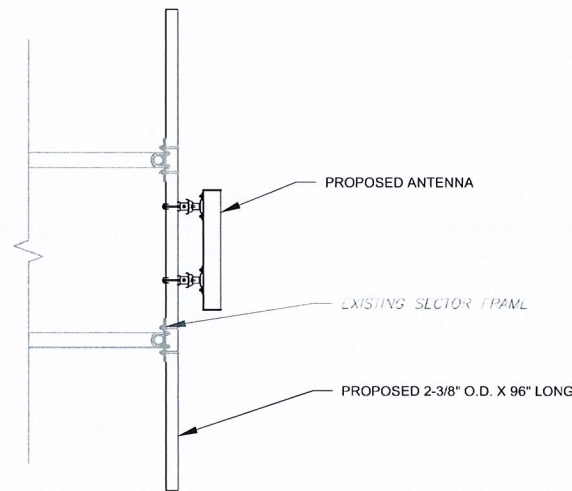
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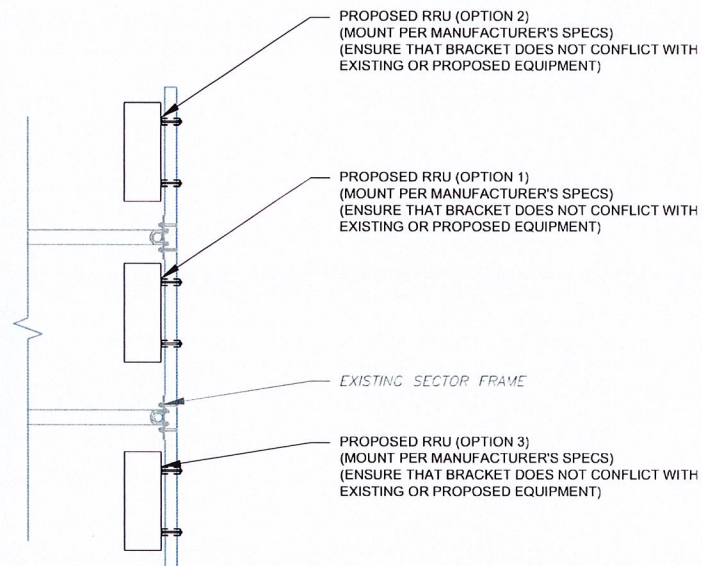
DATE DRAWN:	06/02/21
ATC JOB NO:	13668689
CUSTOMER ID:	BRIDGEPORT NORTH
CUSTOMER #:	467325

ANTENNA INFORMATION
& SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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99 SUMMER STREET
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FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/02/21
B	FINAL	JL	06/30/21

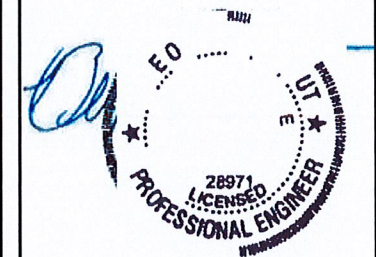
ATC SITE NUMBER:
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ATC SITE NAME:
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VERIZON SITE NAME:
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SITE ADDRESS:
1000 TRUMBULL AVENUE
BRIDGEPORT, CT 06606

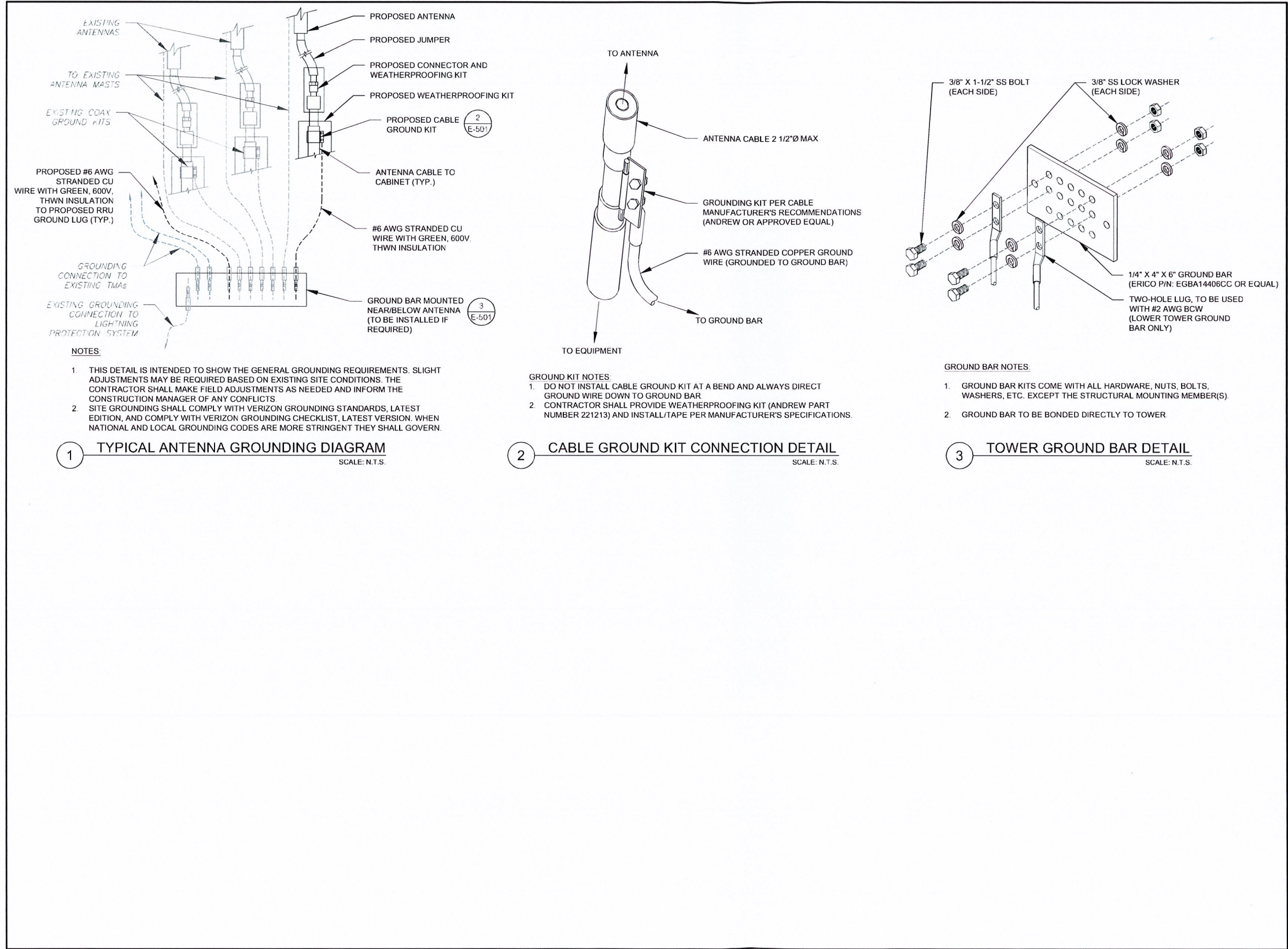
SEAL:




DATE DRAWN:	06/02/21
ATC JOB NO:	13668689
CUSTOMER ID:	BRIDGEPORT NORTH
CUSTOMER #:	467325

CONSTRUCTION
DETAILS

SHEET NUMBER:	REVISION:
C-501	0





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REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/02/21
B	FINAL	JL	06/30/21

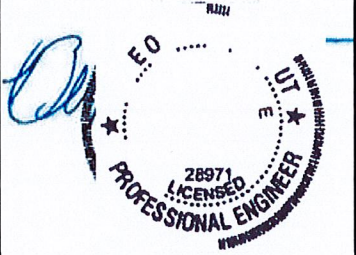
ATC SITE NUMBER:
383598


ATC SITE NAME:
TARTAGLIA

VERIZON SITE NAME:
BRIDGEPORT NORTH

SITE ADDRESS:
1000 TRUMBULL AVENUE
BRIDGEPORT, CT 06606

SEAL:



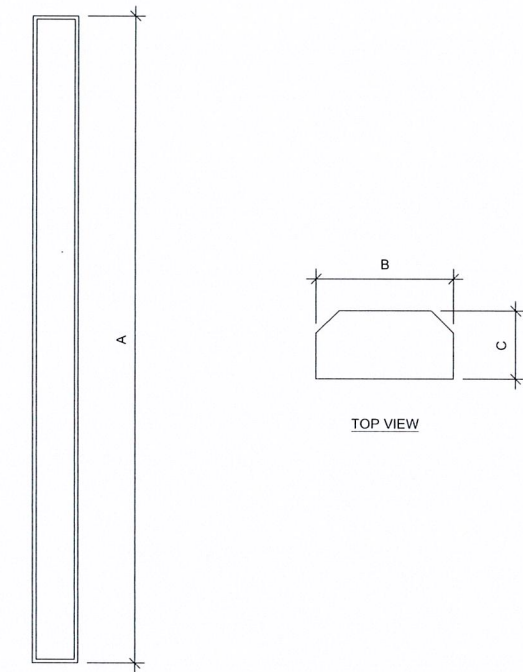


DATE DRAWN:	06/02/21
ATC JOB NO:	13668689
CUSTOMER ID:	BRIDGEPORT NORTH
CUSTOMER #:	467325

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

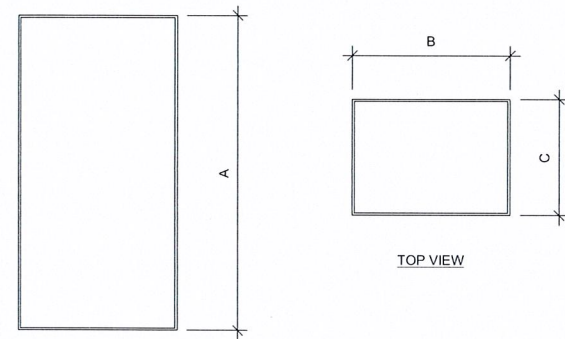
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FRONT VIEW

1 ANTENNA SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
MT6407-77A	35.1"	16.1"	5.5"	81.6



FRONT VIEW

2 RRU SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
MT6407-77A	35.1"	16.1"	5.5"	81.6



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1000 TRUMBULL AVENUE
BRIDGEPORT, CT 06606

verizon✓

DATE DRAWN:	06/02/21
ATC JOB NO:	13668689
CUSTOMER ID:	BRIDGEPORT NORTH
CUSTOMER #:	467325

SUPPLEMENTAL

SHEET NUMBER:
R-601



Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
Peter.Albano@ColliersEngineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10069536
Maser Consulting Connecticut Project #: 21777438A

June 11, 2021

Site Information

Site ID: 467325-VZW / N BRIDGEPORT CT
Site Name: N BRIDGEPORT CT
Carrier Name: Verizon Wireless
Address: 1330 Chopsey Hill Rd.
Bridgeport, Connecticut 06606,
Fairfield County
Latitude: 41.219528*
Longitude: -73.201779*

Structure Information

Tower Type: Self-Support
Mount Type: 13.00-Ft Sector Frame

FUZE ID # 16231899

Analysis Results

Sector Frame: 81.2% Pass

***Contractor PMI Requirements:
Included at the end of this MA report
Available & Submitted via portal at <https://pmi.vzwsmart.com>
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings

Report Prepared By: Abigail Enriquez



Mount Post-Modification Analysis Report
(3) 13.00-Ft Sector Frame

June 11, 2021
Site ID: 467325-VZW / N BRIDGEPORT CT
Page | 4

- The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
- All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
- Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325
- Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
Pipe Standoff Horizontal	11.2 %	Pass
Face Horizontal	45.8 %	Pass
Face Diagonal	6.6 %	Pass
Mount Pipe	69.1 %	Pass
Pipe Face Horizontal	81.2 %	Pass
Standoff Horizontal	26.8 %	Pass
Standoff Vertical	12.4 %	Pass
Standoff Diagonal	6.3 %	Pass
Dual Mount Pipe	19.4 %	Pass
Tieback	11.3 %	Pass
V-Brace	27.0 %	Pass
Mount Connection Check	8.5 %	Pass
Kicker Connection Check	26.6 %	Pass

Structure Rating - (Controlling Utilization of all Components)	81.2%
----------------------------------------------------------------	-------

Recommendation:

The existing mounts will be SUFFICIENT for the final loading after the proposed modifications are successfully completed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.



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ATC SITE NUMBER:
383598

ATC SITE NAME:
TARTAGLIA

VERIZON SITE NAME:
BRIDGEPORT NORTH

SITE ADDRESS:
1000 TRUMBULL AVENUE
BRIDGEPORT, CT 06606



DATE DRAWN:	06/02/21
ATC JOB NO:	13668689
CUSTOMER ID:	BRIDGEPORT NORTH
CUSTOMER #:	467325

SUPPLEMENTAL

SHEET NUMBER:

R-602

- SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).



SITE NAME: N BRIDGEPORT CT
SITE NUMBER: 467325

1330 CHOPSEY HILL RD.
BRIDGEPORT, CT 06606
FAIRFIELD COUNTY

[illegible]

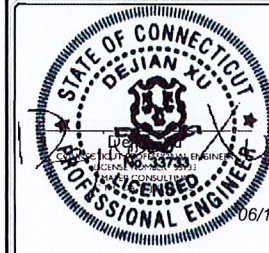
CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	100489536
VZW LOCATION CODE (PSLC):	467325
FUZE ID:	16231899
PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT	

REFERENCED DOCUMENTS	
FAILING MOUNT ANALYSIS REPORT	
SMART TOOL PROJECT #:	10050383
MASER CONSULTING PROJECT #:	21777438A
ANALYSIS DATE:	5/7/2021

THIS DRAWING AND ALL THE INFORMATION CONTAINED HEREIN IS
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WAS CONTRACTED OR TO WHOM IT IS CERTIFIED. THIS DRAWING
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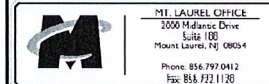
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		2177743BA	
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REV	DATE	DESCRIPTION	DRAWN BY CHECKED BY



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

SITE NAME:

N BRIDGEPORT CT
467325
1330 CHOPSEY HILL RD.
BRIDGEPORT, CT 06606
FAIRFIELD COUNTY



TITLE SHEET

T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS	
-------------------	--

VZWSMART KITS	
---------------	--

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	VZWSMART	VZWSMART-SFK3	V-BRACING KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2
2		VZWSMART-MSK	CROSSOVER PLATE	

OTHER REQUIRED PARTS	
----------------------	--

[illegible]

NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE

CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM

METROSITE FABRICATORS, LLC

CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM

PERFECTVISION

CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM

SABRE INDUSTRIES, INC.

CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM

SITE PRO 1

CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI



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Office Locations

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| ■ NEW JERSEY | ■ NEW MEXICO |
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| ■ PENNSYLVANIA | ■ GEORGIA |
| ■ VIRGINIA | ■ TEXAS |
| ■ FLORIDA | ■ TENNESSEE |
| ■ NORTH CAROLINA | ■ COLORADO |
| ■ SOUTH CAROLINA | |



811

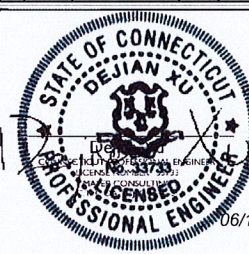
PROTECT YOURSELF
ALL STATES REQUIRE NOTIFICATION OF
EXCAVATORS, DESIGNERS, OR ANY PERSON
PREPARING TO DISTURB THE EARTH'S
SURFACE ANYWHERE IN ANY STATE

Know what's below.
Call before you dig.

FOR STATE-SPECIFIC DIG CALL BEFORE YOU DIG NUMBERS VISIT
WWW.CALLBEFORE.COM

SCALE	JOB NUMBER
AS SHOWN	21777438A

U	06/11/2021	ISSUED FOR CONSTRUCTION	JG	775A
REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY



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SITE NAME:

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467325
1330 CHOPSEY HILL RD.
BRIDGEPORT, CT 06606
FAIRFIELD COUNTY



MT. LAUREL OFFICE
 2050 Midlantic Drive
 Suite 100
 Mount Laurel, NJ 08054
 Phone: 856.797.0412
 Fax: 856.722.1120

BILL OF MATERIALS

S-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

DESIGN LOADS

WIND LOADS

- a. BASIC WIND SPEED (3 SECOND GUST), $V = 119$ MPH
- b. EXPOSURE CATEGORY C
- c. TOPOGRAPHIC CATEGORY I
- d. MEAN BASE ELEVATION (AMSL) = 202.05'

ICE LOADS

- a. ICE WIND SPEED (3 SECOND GUST), $V = 50$ MPH
- b. ICE THICKNESS = 1.00 IN

SEISMIC LOADS

- a. SEISMIC DESIGN CATEGORY B
- b. SHORT TERM MCEER GROUND MOTION, $S_s = .211$
- c. LONG TERM MCEER GROUND MOTION, $S_1 = .054$

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36)
STEEL PIPE ASTM A53 (GR 35)
BOLTS ASTM A325
NUTS ASTM A563
LOCK WASHERS LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - a. SUBMIT SHOP DRAWINGS TO
PETERALBANO@COLLIERSENGINEERING.COM
 - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.

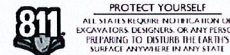
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.



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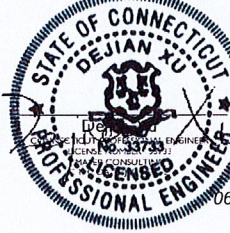
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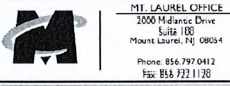
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MODIFICATION NOTES

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/ INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	MI CHECKLIST DRAWING
X	EOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZW PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT
NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, NOR DOES THE MI INSPECTOR TAKE OWNERSHIP OF THE MODIFICATION DESIGN. OWNERSHIP OF THE STRUCTURAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CORRECTION OF FAILING MI'S

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN:

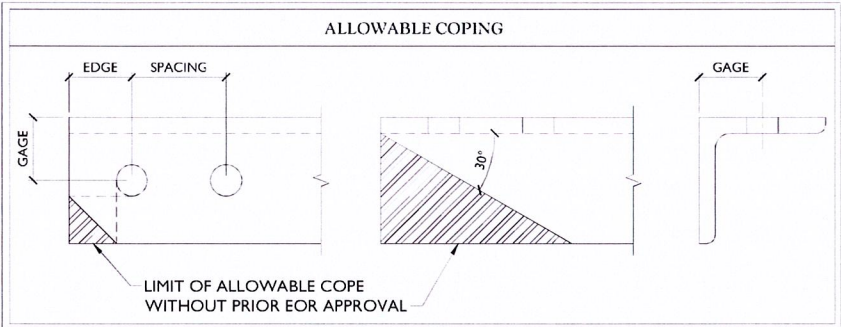
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

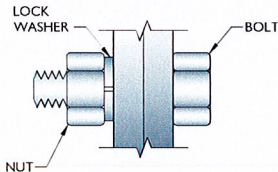
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	1 1/16	1 1/16 x 7/8	1 1/8	1 7/8
3/4	1 3/16	1 3/16 x 1	1 1/4	2 1/4
7/8	1 5/16	1 5/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
- SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS
- MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



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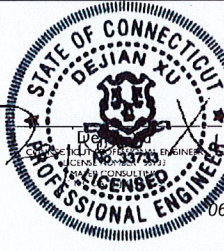
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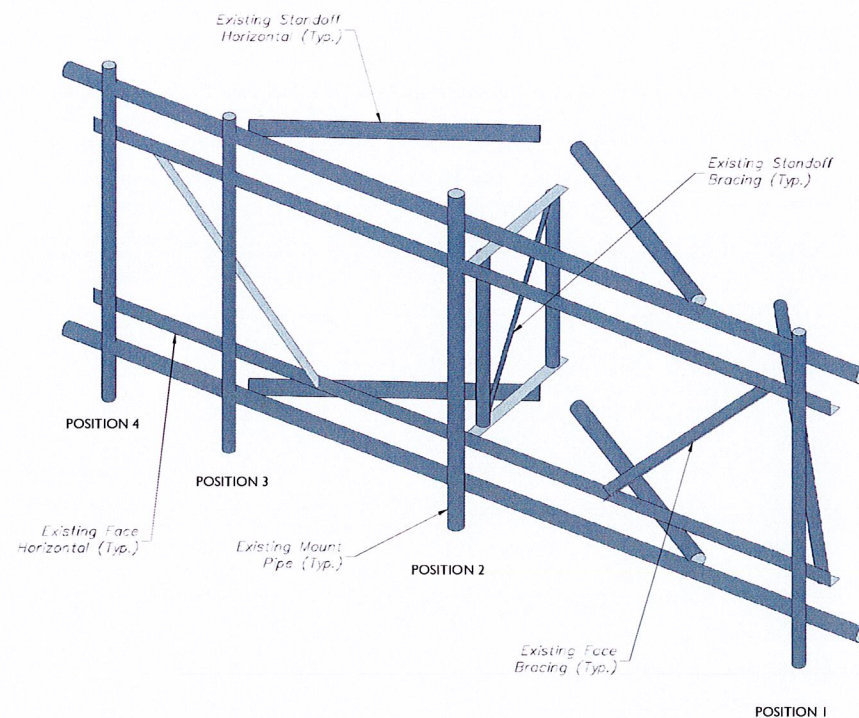
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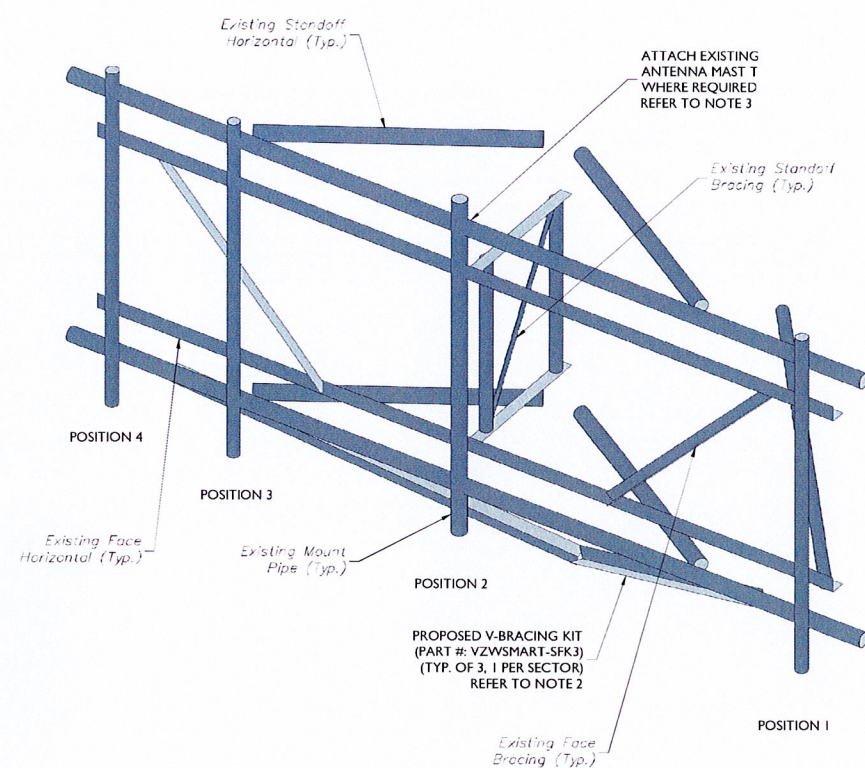


MODIFICATION NOTES



STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY RKS DESIGN & ENGINEERING LLC ON 4/2/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (1531.11") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE. CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES



MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
3. ATTACH EXISTING PIPE FACE HORIZONTALS TO EXISTING POSITION #2 MOUNT PIPE WITH CROSSOVER PLATES (PART #: VZWSMART-MSK I) WHERE MISSING.



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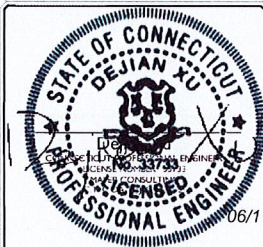


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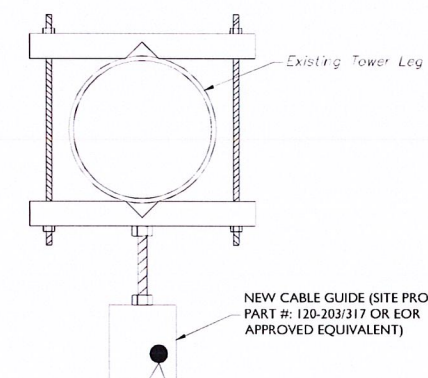
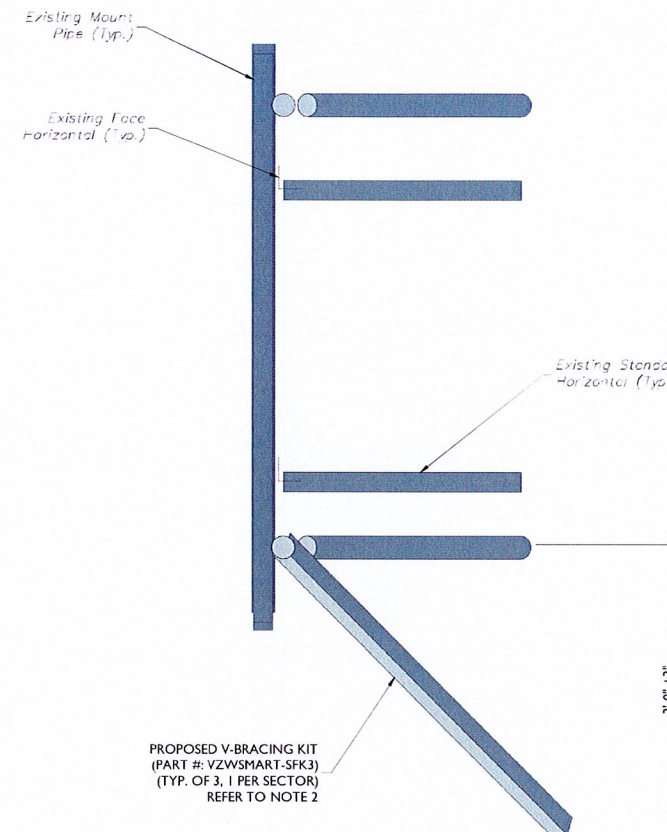
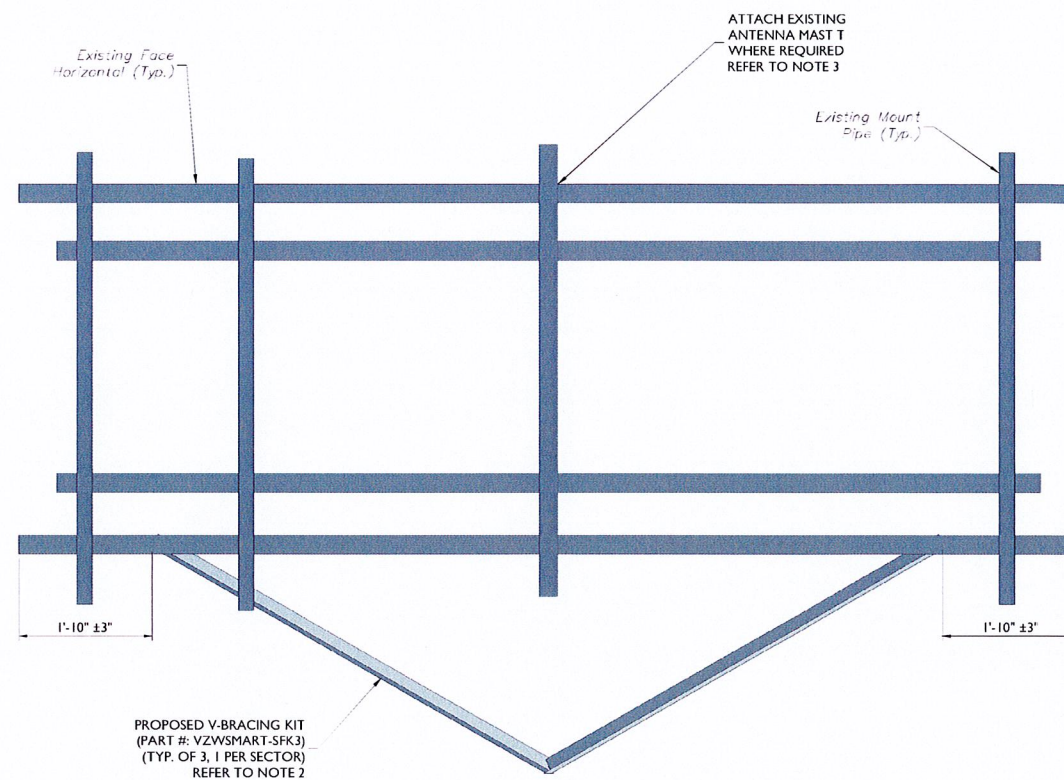


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 Fax: 856.737.1170

MODIFICATION DETAILS

S-4

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



- MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
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FAIRFIELD COUNTY

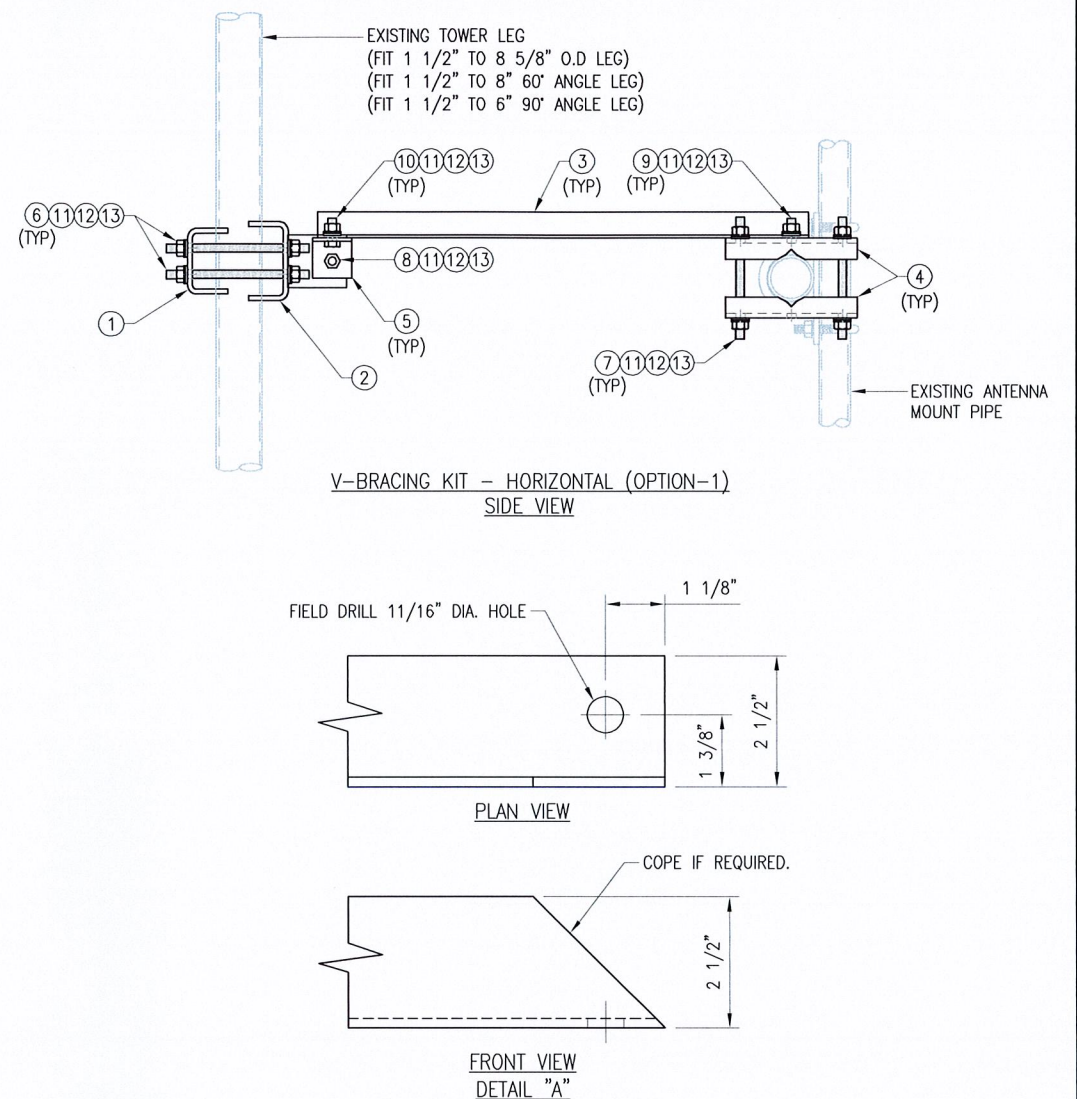
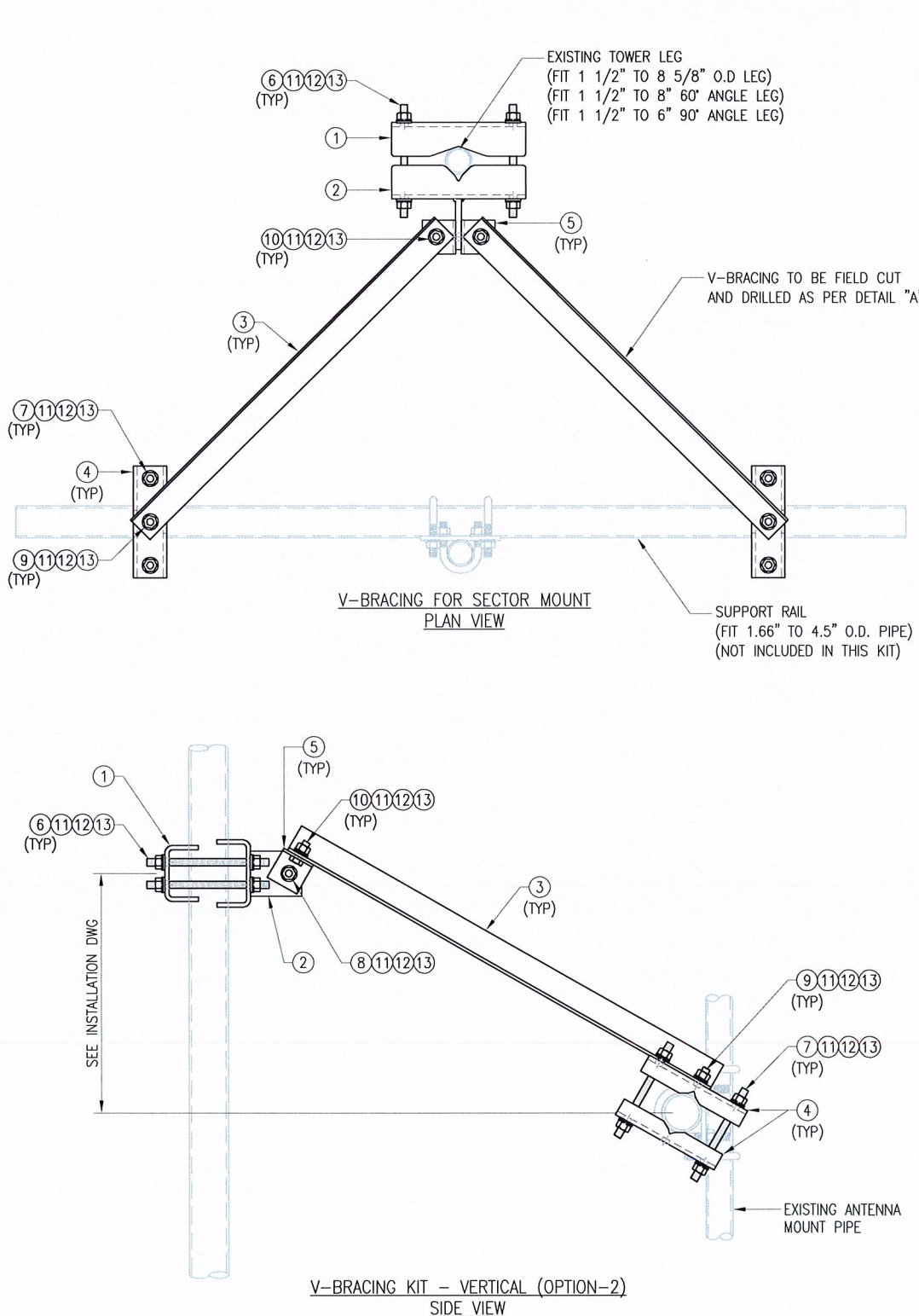
M1 LAUREL OFFICE
 2000 Milford Drive
 Suite 108
 Mount Laurel, NJ 08054
 Phone: 856.797.0412
 Fax: 856.722.1720

DATE TITLE

MODIFICATION DETAILS

DATE REVISION

[illegible]



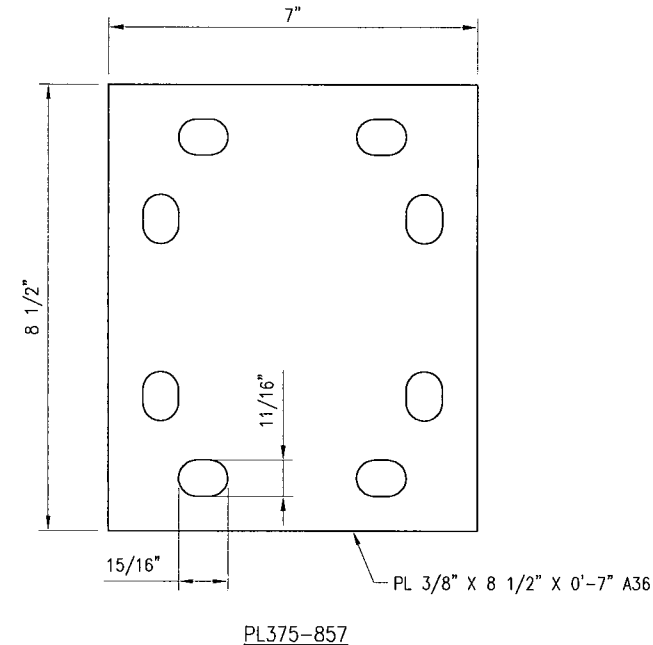
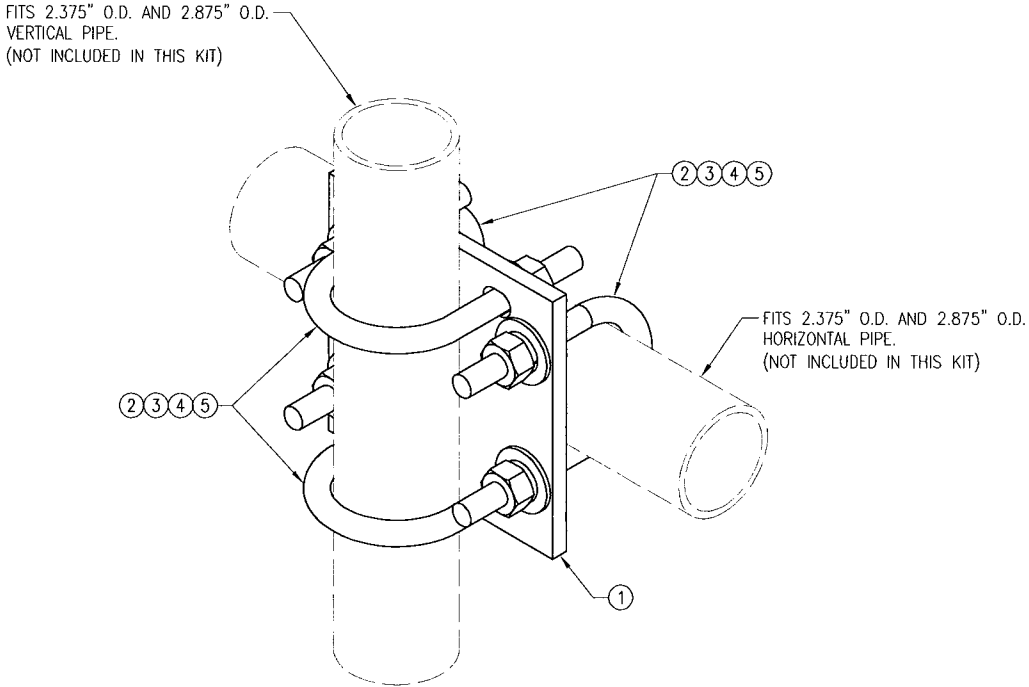
VZSMART-SFK3 (V-BRACING KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	BP9625-12	PL 3/8" X 9 5/8" X 1'-0" A36 BENT PLATE	VBSM-F1	12
2	1	BRKW-VBSM	WELDMENT BRACKET	VBSM-F3	16
3	2	L252525-8	L 2 1/2" X 2 1/2" X 1/4" X 8'-0" A36	VBSM-F5	67
4	4	BP6875-10	PL 3/8" X 6 7/8" X 10" A36 BENT PLATE	VBSM-F2	20
5	2	AL-333	L 3" X 3" X 1/4" X 3" A36	VBSM-F2	3
6	4	---	THREADED ROD 5/8" DIA. X 1'-6" F1554-36 HDG	---	---
7	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---
8	1	---	BOLT 5/8" X 2 1/4" A325	---	---
9	2	---	BOLT 5/8" X 2" A325	---	---
10	2	---	BOLT 5/8" X 1 3/4" A325	---	---
11	21	FW-625	5/8" HDG USS FLAT WASHER	---	2
12	21	LW-625	5/8" HDG LOCK WASHER	---	0
13	21	NUT-625	5/8" HDG HEX NUT	---	2
GALVANIZED WT					122

NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VzW
SMART Tool[®]
Vendor

verizon

DRAWN BY: HJR.		CHECKED BY: HMA	
REV.	DESCRIPTION	BY	DATE
△	FIRST ISSUE	HJR.	05/08/20
△			
△			
△			
SHEET TITLE:			
VZSMART-SFK3 V-BRACING KIT			
SHEET NUMBER:		REV #:	
VZSMART-SFK3		0	



NOTES:
1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					14

DRAWN BY: H.R.		CHECKED BY: HMA	
REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	H.R.	05/08/20
△			
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SHEET TITLE:	
VZWSMART-MSK1 CROSSOVER PLATE	
SHEET NUMBER:	REV #:
VZWSMART-MSK1	0