

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

November 19, 2021

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

**RE: Notice of Exempt Modification // Site: BRANFORD CT 6 (ATC: 302484)
405 Brushy Plain Rd., Branford, CT 06405
N 41.31680556 // W 72.8197**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 113-ft level on the existing 150-foot monopole tower, located at 405 Brushy Plain Rd., Branford, CT. The tower is owned by American Tower. The tower was originally approved by the Council in 1984. Verizon Wireless now intends to install Six (6) new antenna for the LTE (3700 MHz) replacements for its 5G upgrade. Additionally, Verizon Wireless will remove Twelve (12) RRH's and associated cabling. Verizon Wireless intends to add Twelve (12) Remote Radio Head (RRHs), Three (3) Diplexers and associated cables; 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 James Cosgrove, First Selectman, Building Officer, Anthony Cinicola, and Edward & Kristin Jaconette, the 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 November 5, 2021 by Hudson Design Group LLC, a structural analysis dated June 29, 2021 by Tower Engineering Professionals, and a structural mount analysis by Maser Consulting Connecticut date September 3, 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 Tower Engineering Professionals, dated June 29, 2021 and a structural mount analysis by Maser Consulting Connecticut, dated September 3, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated November 5, 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: James Cosgrove, First Selectman - as chief elected official
Anthony Cinicola, Building Officer - as P&Z official
Edward & Kristin Jaconette - as Property owner

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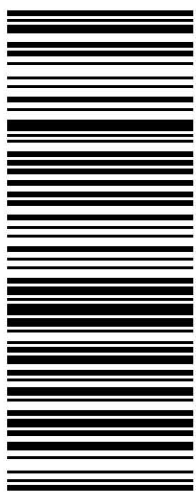

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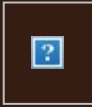
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<p style="text-align: right;">1 OF 1</p> <p>1 LBS</p> <p>CASSANDRA ROSENKRANZ CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: BZO - ANTHONY CINICOLA 1ST SELECTMAN - JAMES COSGROVE 1019 MAIN STREET TOWN HALL BRANFORD CT 06405-3771</p>	<p>CT 065 2-01</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0030 9207</p> 	 <p>BILLING: P/P</p> <p>Reference # 1: 302484 - BRANFORD CT 6 <small>CS 22.0.18. W/NTNV50.47.0A 11/2021*</small></p>
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UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	302484 - BRANFORD CT 6



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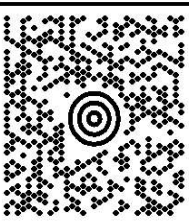
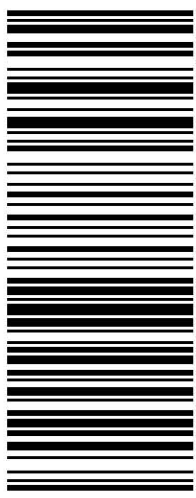

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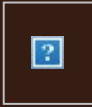
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<p>CASSANDRA ROSENKRANZ CENTERLINE COMMUNICATIONS, LLC 750 WEST CENTER STREET WEST BRIDGEWATER MA 02379</p> <p>SHIP TO: EDWARD F & KRISTIN L. JACONETTE 405 BRUSHY PLAIN RD. BRANFORD CT 06405-2348</p>	<p>1 OF 1</p> <p>1 LBS</p>	<p>CT 065 2-01</p> 		<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0666 8194</p> 	<p>BILLING: P/P</p>	 <p>Reference # 1: 302484 - BRANFORD CT 6 CS 22.0.18. W/NTNV50 47.0A 11/2021 *</p>
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BRANFORD, CT 064052348
US

Number of Packages:

1

UPS Service:

UPS Ground

Package Weight:

1.0 LBS

Reference Number:

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DOCKET NO. 44

AN APPLICATION SUBMITTED BY THE SOUTHERN : CONNECTICUT SITING
NEW ENGLAND TELEPHONE COMPANY FOR A :
CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY : COUNCIL
AND PUBLIC NEED FOR THE CONSTRUCTION,
MAINTENANCE AND OPERATION OF FACILITIES TO
PROVIDE CELLULAR SERVICE IN NEW HAVEN COUNTY : July 24, 1984

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Council hereby directs that a certificate of environmental compatibility and public need as required by section 16-50k of the General Statutes of Connecticut, revisions of 1958, revised to 1983, as amended, be issued to the Southern New England Telephone Company for the construction, operation, and maintenance of a telecommunications tower and associated equipment to provide cellular service at each of the following sites:

Jasudowich tract, Brushy Plain Road, Branford, Connecticut;
Town of Guilford tract, Tanner Marsh Road, Guilford, Connecticut;
Bridgeport Avenue, Milford, Connecticut;
Quagliaro tract, Farmdale Drive, Waterbury, Connecticut;
Pease Road, Woodbridge, Connecticut; and
Dwight Street, North Haven, Connecticut.

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

1. The towers including antennas shall be no taller than necessary to provide the proposed service and in no event shall exceed
 - a) 167' at the Branford site,
 - b) 167' at the Guilford site,
 - c) 117' at the Milford site,
 - d) 167' at the Waterbury site,
 - e) 167' at the Woodbridge site,
 - f) 167' at the North Haven site;
2. A fence not lower than eight feet shall surround each tower and its associated equipment;

3. The applicant or its successor shall notify the Council if and when directional antennas or any other equipment is added to any of these facilities;
4. The applicant or its successor shall permit, in accordance with representations made by it during the proceeding, public or private entities to share space on the facilities, for due consideration received, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing;
5. Unless necessary to comply with condition number six, below, no lights shall be installed on any of these towers;
6. The facilities shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations;
7. The applicant shall submit a development and management plan (D&M) for the Branford, Milford, Woodbridge, and North Haven sites pursuant to sections 16-50j-85 through 16-50j-87 of the regulations of state agencies, except that irrelevant items in section 16-50j-86 need only be identified as such. The D&M plans shall include appropriate evergreen screening of the sites, erosion control measures, reseeding plans, and tree removal plans. The applicant shall comply with the reporting requirements of section 16-50j-87 for all sites;
8. Construction activities shall take place during daylight working hours;
9. This decision and order shall be void and the towers and associated equipment approved herein shall be dismantled and removed, or reapplication for any new use shall be made to the Connecticut

Siting Council before any such new use is made, if the towers do not provide or permanently cease to provide cellular service following completion of construction;

10. This decision and order shall be void if all construction authorized is not completed within three years of the issuance of this decision.

Pursuant to section 16-50p of the General Statutes, we hereby direct that a copy of the opinion and decision and order be served on each person listed below. A notice of the issuance shall be published in the Hartford Courant, New Haven Register, and the Waterbury Republican.

The parties to this proceeding are

The Southern New England Telephone Company (Applicant)
Room 314
227 Church Street
New Haven, Connecticut 06506

ATTENTION: Mr. Peter J. Tyrrell (its attorney)
Senior Attorney

Town of Hamden represented by:
Peter F. Villano, Mayor
Shirley Gonzales, Town Planner
Mr. Hugh Manke, Esquire
Office of the Town Attorney
Memorial Town Hall
2372 Whitney Avenue
Hamden, Connecticut 06518

Inland Wetlands Agency represented by:
Town of Woodbridge
Robert J. Klancko
Chairman
Town Hall
11 Meeting House Lane
Woodbridge, Connecticut 06525

Town Plan and Zoning
Commission
Town of Woodbridge

represented by:

Norman Fineberg
Chairman
Town Hall
11 Meeting House Lane
Woodbridge, Connecticut 06525

The Honorable Peter M. Lerner
State Representative
State of Connecticut
House of Representatives
State Capitol
Hartford, Connecticut 06115

John Menta
Felicia Tencza

represented by:

Ms. Felicia Tencza
580 Gaylord Mountain Road
Hamden, Connecticut 06518

Ms. Renee Robinson
265 Blue Trail
Hamden, Connecticut 06518

(service waived)

Irene L. Wong
Edson H. Mount
Dr. & Mrs. H.M. Fiskio
Dr. & Mrs. Alexander Gottschalk

represented by:

Dr. & Mrs. Alexander Gottschalk
230 Six Rod Highway
Hamden, Connecticut 06518

The Sleeping Giant Park Association

represented by:

Mr. Dag Pfeiffer
President
Box 14
Quinnipiac College
Hamden, Connecticut 06518

West Rock Ridge Park Association

represented by:

Mr. William L. Dohney, Jr., D.D.S.
President
220 Mountain Road
Hamden, Connecticut 06514

Sierra Club

represented by:

Ms. M. Kim Yanoshick
Executive Director
Hartford Chapter
118 Oak Street
Hartford, Connecticut 06106

Quinnipiac College

represented by:

Mr. Richard A. Terry
President
Hamden, Connecticut 06518

Guilford Conservation Commission

represented by:

Ms. Carolyn K. Evans
Chairman
Town Hall
Park Street
Guilford, Connecticut 06437

Mrs. Barbara R. Peterson
Mary & Phil Faust
Anita L. & Richard M. Sullivan

represented by:

Anita L. & Richard M. Sullivan
315 Chestnut Lane
Hamden, Connecticut 06518

Mrs. Pauline H. Hoff

represented by:

Herbert L. Emanuelson, Jr.
Emanuelson and Wynne
205 Church Street
New Haven, Connecticut 06510

Hamden League of Women Voters

represented by:

Mrs. Sherrill Zoller
605 West Woods Road
Hamden, Connecticut 06518
(service waived)

Joan Rosenberg
230 Ridewood Avenue
Hamden, Connecticut 06517

Mr. & Mrs. Richard Sykes
110 Blue Trail
Hamden, Connecticut 06518

Thomas & Claudia Sullivan, Jr.
100 Blue Trail
Hamden, Connecticut 06518

Mr. William N. Pantalone
27 Pease Road
Woodbridge, Connecticut 06525

(service waived)

INTERVENORS

Metromedia TeleCommunications
Nutmeg Telecommunications, Inc.
CSI of New Haven
CSI of Stamford
Cellular Communications, Inc.
LIN Cellular Corp.
Cellular Mobile Services
Maxcell TeleCommunications, Inc.
Mobile Cellular Telephone, Inc.
Cellular Dynamics
Connecticut Corridor Cellular
Chase/Post Cellular

represented by:

Dwight A. Johnson
Murtha, Cullina, Richter
and Pinney
101 Pearl Street
P.O. Box 3197
Hartford, Connecticut 06103-0197

C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:


Dated at New Britain, Connecticut, this 24th day of July, 1984.

<u>Council Members</u>	<u>Vote Cast</u>
_____) Gloria Dibble Pond Chairperson	Absent
_____) Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
<i>Brian Emerick</i> _____) Commissioner Stanley Pac Designee: Brian Emerick	Yes Absent Abstain
<i>Owen L. Clark</i> _____) Owen L. Clark	Yes
<i>Fred J. Doocy</i> _____) Fred J. Doocy	Yes
<i>Mortimer A. Gelston</i> _____) Mortimer A. Gelston	Yes
<i>James G. Horsfall</i> _____) James G. Horsfall	Yes
_____) Janet Sitty	Absent
<i>Colin C. Tait</i> _____) Colin C. Tait Acting Chairperson	Yes

STATE OF CONNECTICUT)
 :
COUNTY OF HARTFORD) ss. New Britain, July 24, 1984

I hereby certify that the foregoing is a true and correct copy of the decision and order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:



Christopher S. Wood, Executive Director
Connecticut Siting Council



AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by



**TOWER
ENGINEERING
PROFESSIONALS**

Structural Analysis Report

Structure : 150 ft Monopole
ATC Site Name : Branford CT 6, CT
ATC Asset Number : 302484
Engineering Number : 13685617_C3_02
Proposed Carrier : VERIZON WIRELESS
Carrier Site Name : BRANFORD 2
Carrier Site Number : 467297
Site Location : 405 Brushy Plain Rd
Branford, CT 06405-2308
41.316800,-72.819700
County : New Haven
Date : June 29, 2021
Max Usage : 95%
Result : Pass

Prepared By:
Ayoub Sabor
TEP

Reviewed By:



06/29/2021

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	2
Proposed Equipment	3
Structure Usages	3
Foundations	3
Deflection, Twist, and Sway.....	4
Standard Conditions	5
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 150 ft monopole to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	PJF Job # 29297-629, dated October 2, 1997 SpectraSite Drawing #CT-0020/15, dated December 13, 2000
Foundation Drawing	Mapped by ATC Tower ID #302484, dated February 13, 2009
Geotechnical Report	Clarence Welti Geotechnical Engineering ID #CT-0020, dated October 8, 1996
Modifications	SpectraSite Drawing CT-0020 M1, dated March 26, 2004 ATC Job # 26487334, dated September 15, 2006 ATC Job # 53055832, dated June 2, 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:	117.94 mph (3-Second Gust)**
Basic Wind Speed w/ Ice:	48.73 mph (3-Second Gust) w/ 0.85" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.18, S_1 = 0.06$
Site Class:	D - Stiff Soil

**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
160.0	1	11' Dipole	Platform with Handrails	(3) 7/8" Coax (1) 1 5/8" Coax (2) 0.39" (10mm) Fiber Trunk (4) 0.78" (19.7mm) 8 AWG 6 (6) 1 5/8" Coax (3) 3" conduit (1) 3/8" (0.38"-9.5mm) RET Control Cable	OTHER
159.0	1	4' Omni			
153.0	6	Powerwave Allgon LGP21401			
	1	Raycap DC6-48-60-18-8F ("Squid")			
	3	Ericsson RRUS 8843 B2, B66A			
	3	Kathrein Scala 782-10250			
	6	Powerwave Allgon 7020.00 Dual Band RET			
	3	Ericsson RRUS 4449 B5, B12			
	1	Raycap DC6-48-60-18-8C			
	3	Ericsson RRUS 32 B30 (53 lbs)			
	1	Raycap DC6-48-60-18-8C-EV			
	3	Powerwave Allgon 7770.00			
3	CCI HPA65R-BU6A				
3	Commscope SBNHH-1D65B				
3	Kathrein Scala 80010965				
150.0	1	GPS	Flush	(1) 1/2" Coax	VERIZON WIRELESS
140.0	3	Ericsson KRY 112 144/1	Platform with Handrails	(1) 1 1/4" (1.25"-31.8mm) Fiber (3) 1 5/8" (1.63"-41.3mm) Fiber (6) 1 5/8" Coax	T-MOBILE
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson AIR 21, 1.3M, B4A B2P			
	3	Ericsson AIR 21, 1.3 M, B2A B4P			
	3	Ericsson Radio 4449 B12,B71			
132.0	1	12" x 12" Junction Box	Side Arms	(4) 1/2" Coax (2) 2" conduit (6) 5/16" (0.31"-7.9mm) Coax	CLEARWIRE CORPORATION
130.0	2	DragonWave Horizon Compact			
	1	DragonWave A-ANT-23G-1-C			
	3	NextNet BTS-2500			
	3	Argus LLPX310R			
1	DragonWave A-ANT-18G-2.5-C				
122.0	1	SWR FMEC/1	Flush	(3) 1/2" Coax	ALMA RADIO INC.
113.0	4	RFS APL868013-12T0	T-Arm	(6) 1 1/4" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
	6	Commscope JAHH-65B-R3B			
	2	RFS DB-T1-6Z-8AB-OZ			
	2	RFS APL866513-12T0-00			
103.0	1	Dish Reserve	-	-	DISH
70.0	1	4' Std. Dish	Flush	(1) 0.28" (7mm) RG-6	OTHER

Equipment to be Removed

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
113.0	3	Alcatel-Lucent RRH2x40-07-L	-	-	VERIZON WIRELESS
	3	Nokia B66a RRH4x45 (UHIE)			
	3	Alcatel-Lucent RRH2x60 700			
	3	Alcatel-Lucent RRH 2X60-1900			



Proposed Equipment

Elev. ¹ (ft)	Qty	Equipment	Mount Type	Lines	Carrier
113.0	3	Commscope CBC78-DS-43	T-Arms	-	VERIZON WIRELESS
	3	Samsung Outdoor CBRS 20W RRH –Clip-on Antenna			
	3	Samsung RT4401-48A			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung MT6407-77A			

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
Anchor Bolts	84%	Pass
Shaft	92%	Pass
Base Plate	56%	Pass
Flange	21%	Pass
Reinforcement	95%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3,125.7	55%
Axial (Kips)	59.6	7%

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 and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
130.0	DragonWave A-ANT-23G-1-C	CLEARWIRE CORPORATION	1.707	1.628
	DragonWave A-ANT-18G-2.5-C			
113.0	Commscope CBC78-DS-43	VERIZON WIRELESS	1.282	1.306
	Samsung Outdoor CBRS 20W RRH -Clip-on Antenna			
	Samsung RT4401-48A			
	Samsung B2/B66A RRH-BR049			
	Samsung B5/B13 RRH-BR04C			
	Samsung MT6407-77A			
70.0	4' Std. Dish	OTHER	0.000	0.000

*Deflection 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

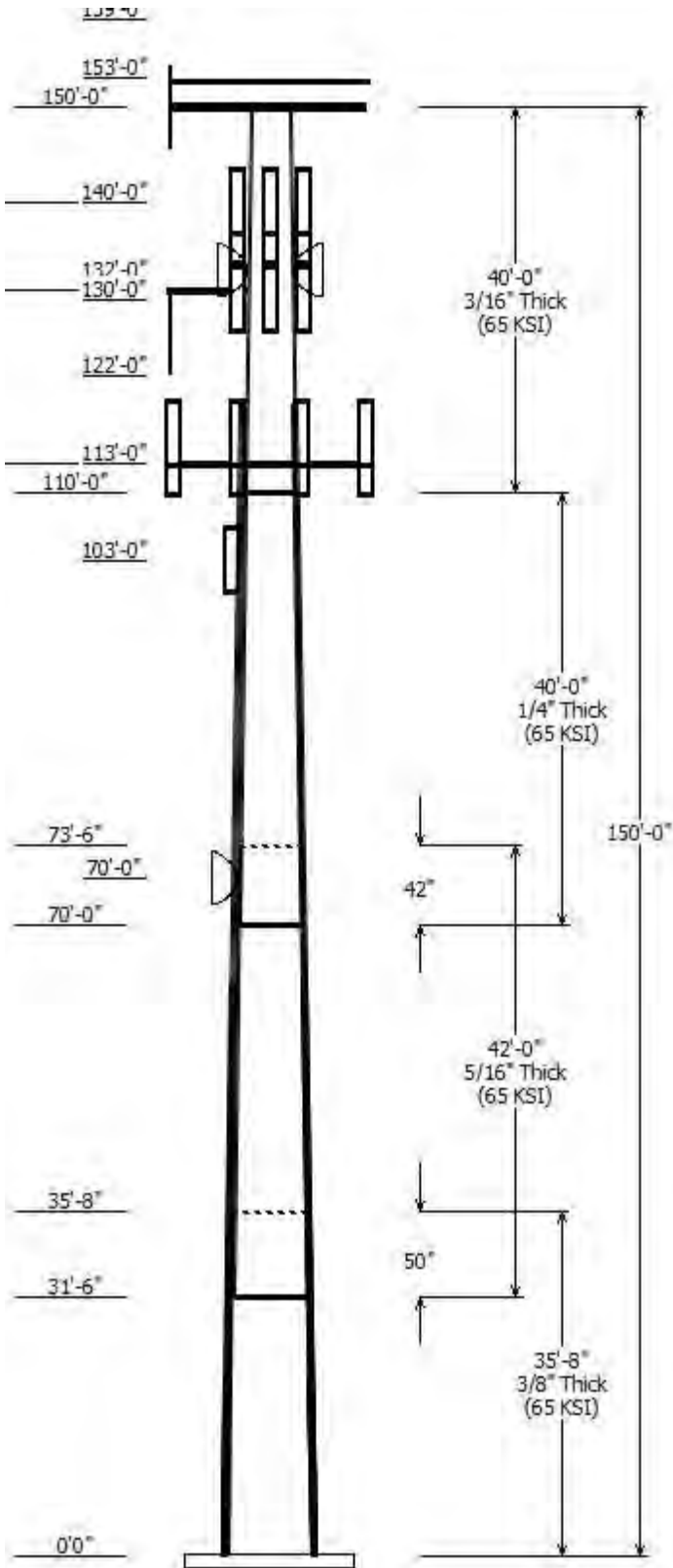
It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

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.

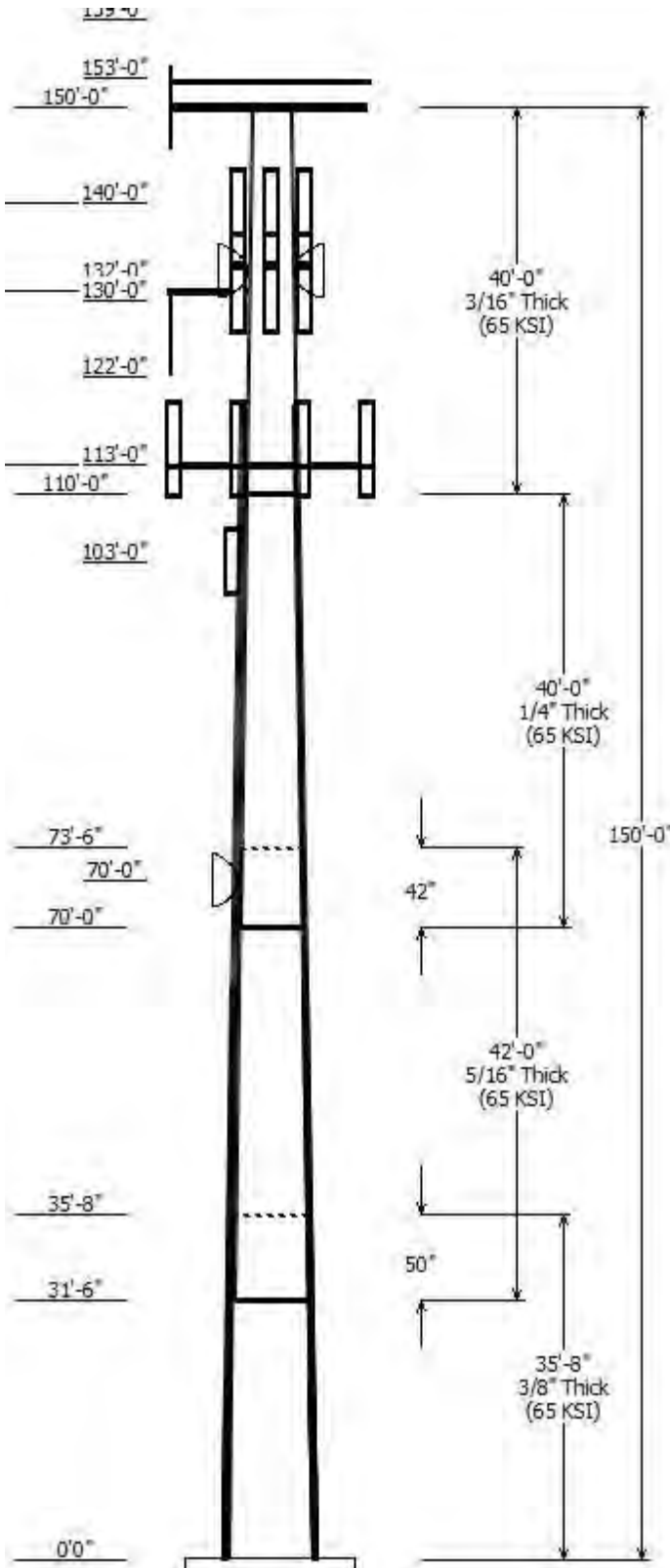
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Job Information	
Client : VERIZON WIRELESS	Code: ANSI/TIA-222-H
Pole : 302484	
Location : Branford CT 6, CT	
Description : 150 ft. ITT Meyer - Model 1025/41	Risk Category: #1
Shape : 12 Sides	Exposure : B
Height : 150.00 (ft)	Topo Method : Method 1
Base Elev (ft): 0.00	Topographic Category : 1
Taper: 0.15670(in/ft)	

Sections Properties							
Shaft Section	Length (ft)	Diameter (in)		Thick (in)	Joint Type	Overlap Length (in)	Steel Grade
		Across Flats Top	Across Flats Bottom				
1	35.667	31.79	37.38	0.375		0.000	12 Sides 65
2	42.000	26.48	33.07	0.313	Slip Joint	50.000	12 Sides 65
3	40.000	21.26	27.53	0.250	Slip Joint	42.000	12 Sides 65
4	40.000	15.00	21.26	0.188	Butt Joint	0.000	12 Sides 65

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
160.000	160.000	1	Generic 11' Dipole
159.000	159.000	1	Generic 4' Omni
153.000	153.000	3	Kathrein Scala 80010965
153.000	153.000	3	Commscope SBNHH-1D65B
153.000	153.000	3	CCI HPA65R-BU6A
153.000	151.000	3	Powerwave Allgon 7770.00
153.000	153.000	1	Raycap DC6-48-60-18-8C-EV
153.000	153.000	3	Ericsson RRUS 32 B30 (53 lbs)
153.000	153.000	1	Raycap DC6-48-60-18-8C
153.000	153.000	3	Ericsson RRUS 4449 B5, B12
153.000	153.000	3	Ericsson RRUS 8843 B2, B66A
153.000	151.000	1	Raycap DC6-48-60-18-8F
153.000	151.000	6	Powerwave Allgon LGP21401
153.000	153.000	3	Kathrein Scala 782-10250
153.000	151.000	6	Powerwave Allgon 7020.00
150.000	150.000	1	Round Platform w/ Handrails
150.000	150.000	1	Generic GPS
140.000	140.000	1	PerfectVision PV-RP14M-9-96
140.000	140.000	3	RFS APXVAARR24_43-U-NA20
140.000	136.000	3	Ericsson AIR 21, 1.3M, B4A B2P
140.000	136.000	3	Ericsson AIR 21, 1.3 M, B2A B4
140.000	140.000	3	Ericsson Radio 4449 B12,B71
140.000	136.000	3	Ericsson KRY 112 144/1
132.000	132.000	1	Generic 12" x 12" Junction Box
131.000	131.000	1	Side Arms
130.000	132.000	1	DragonWave A-ANT-18G-2.5-C
130.000	130.000	3	Argus LLPX310R
130.000	130.000	3	NextNet BTS-2500
130.000	132.000	1	DragonWave A-ANT-23G-1-C
130.000	132.000	2	DragonWave Horizon Compact
122.000	123.000	1	SWR FMEC/1
113.000	113.000	3	Round T-Arm
113.000	115.000	6	Commscope JAHH-65B-R3B
113.000	115.000	2	RFS DB-T1-6Z-8AB-0Z
113.000	113.000	3	Samsung MT6407-77A
113.000	115.000	2	RFS APL866513-12T0-00
113.000	115.000	4	RFS APL868013-12T0
113.000	113.000	3	Samsung B5/B13 RRH-BR04C
113.000	113.000	3	Samsung B2/B66A RRH-BR049
113.000	113.000	3	Samsung RT4401-48A
113.000	113.000	3	Samsung Outdoor CBRS 20W
113.000	113.000	3	Commscope CBC78-DS-43
103.000	103.000	1	Generic Dish Reserve
70.000	70.000	1	Generic 4' Std. Dish



Linear Appurtenance			
Elev (ft)		Description	Exposed To Wind
From	To		
128.0	143.0	#18 w/ Angle	Yes
128.0	143.0	#18 w/ Angle	Yes
128.0	143.0	#18 w/ Angle	Yes
115.5	133.0	#18 w/ Angle	Yes
115.5	133.0	#18 w/ Angle	Yes
115.5	133.0	#18 w/ Angle	Yes
0.000	140.0	1 1/4" (1.25"-	No
0.000	140.0	1 5/8" (1.63"-	No
0.000	140.0	1 5/8" Coax	Yes
0.000	150.0	1/2" Coax	No
0.000	153.0	0.39" (10mm)	No
0.000	153.0	0.78" (19.7mm) 8	No
0.000	153.0	1 5/8" Coax	No
0.000	153.0	3" conduit	No
0.000	153.0	3/8" (0.38"-	No
0.000	159.0	1 5/8" Coax	No
0.000	160.0	7/8" Coax	No
0.000	20.000	1" Thick Flat Plate	Yes
0.000	20.000	1" Thick Flat Plate	Yes
0.000	20.000	1" Thick Flat Plate	Yes
0.000	20.000	1" Thick Flat Plate	Yes
0.000	65.500	#18 w/ Angle	Yes
0.000	65.500	#18 w/ Angle	Yes
0.000	65.500	#18 w/ Angle	Yes
0.000	65.500	#18 w/ Angle	Yes
0.000	70.000	0.28" (7mm) RG-6	No
0.000	113.0	1 1/4" Coax	No
0.000	113.0	1 5/8" Hybriflex	No
0.000	122.0	1/2" Coax	No
0.000	123.2	#18 w/ W Bracket	Yes
0.000	123.2	#18 w/ W Bracket	Yes
0.000	123.2	#18 w/ W Bracket	Yes
0.000	123.2	#18 w/ W Bracket	Yes
0.000	123.2	#18 w/ W Bracket	Yes
0.000	123.2	W5 Brackets for	Yes
0.000	123.2	W5 Brackets for	Yes
0.000	123.2	W5 Brackets for	Yes
0.000	123.2	W5 Brackets for	Yes
0.000	130.0	1/2" Coax	Yes
0.000	130.0	5/16" (0.31"-	Yes
0.000	132.0	1/2" Coax	Yes
0.000	132.0	2" conduit	Yes

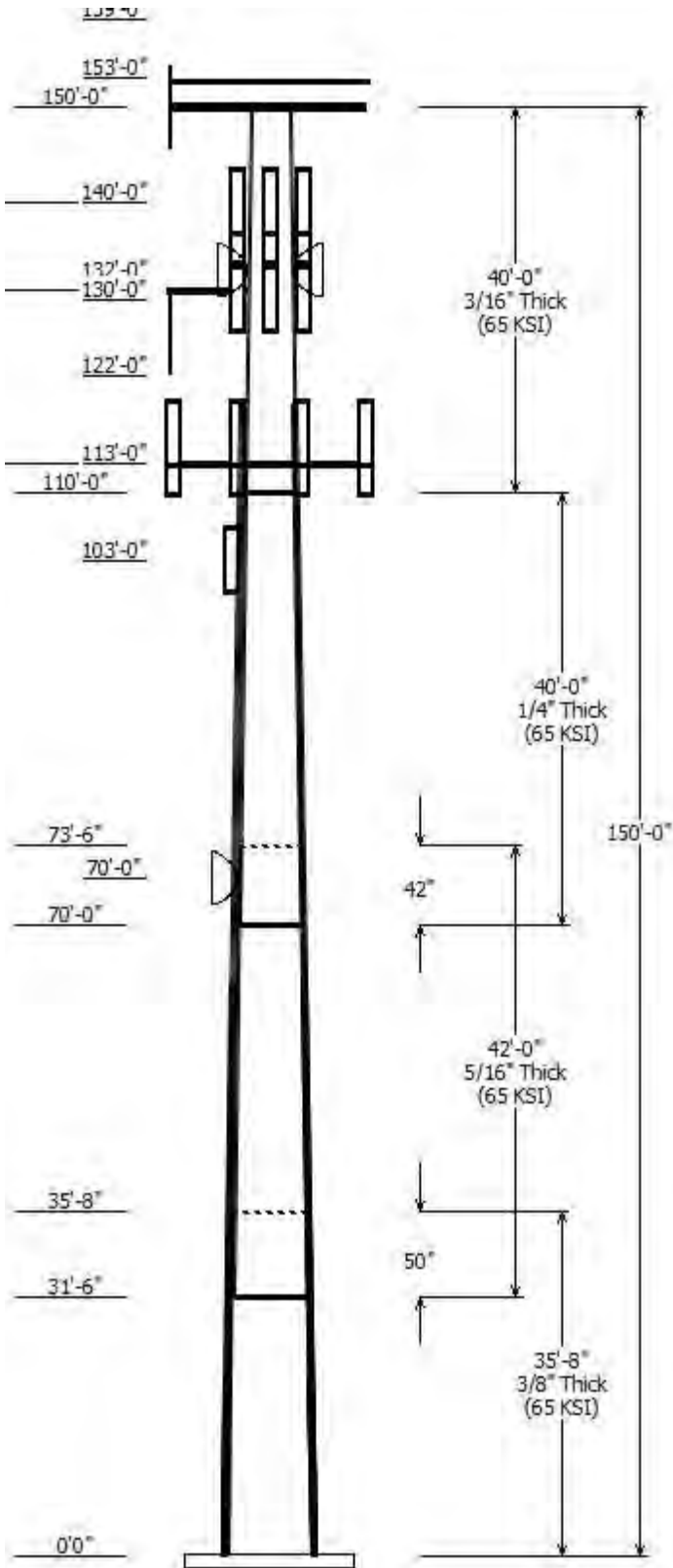
Load Cases	
1.2D + 1.0W	118 mph with No Ice
0.9D + 1.0W	118 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	49 mph with 0.85 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.0W	3125.68	29.79	59.64
0.9D + 1.0W	3067.99	29.77	44.72
1.2D + 1.0Di + 1.0Wi	862.87	7.71	80.97

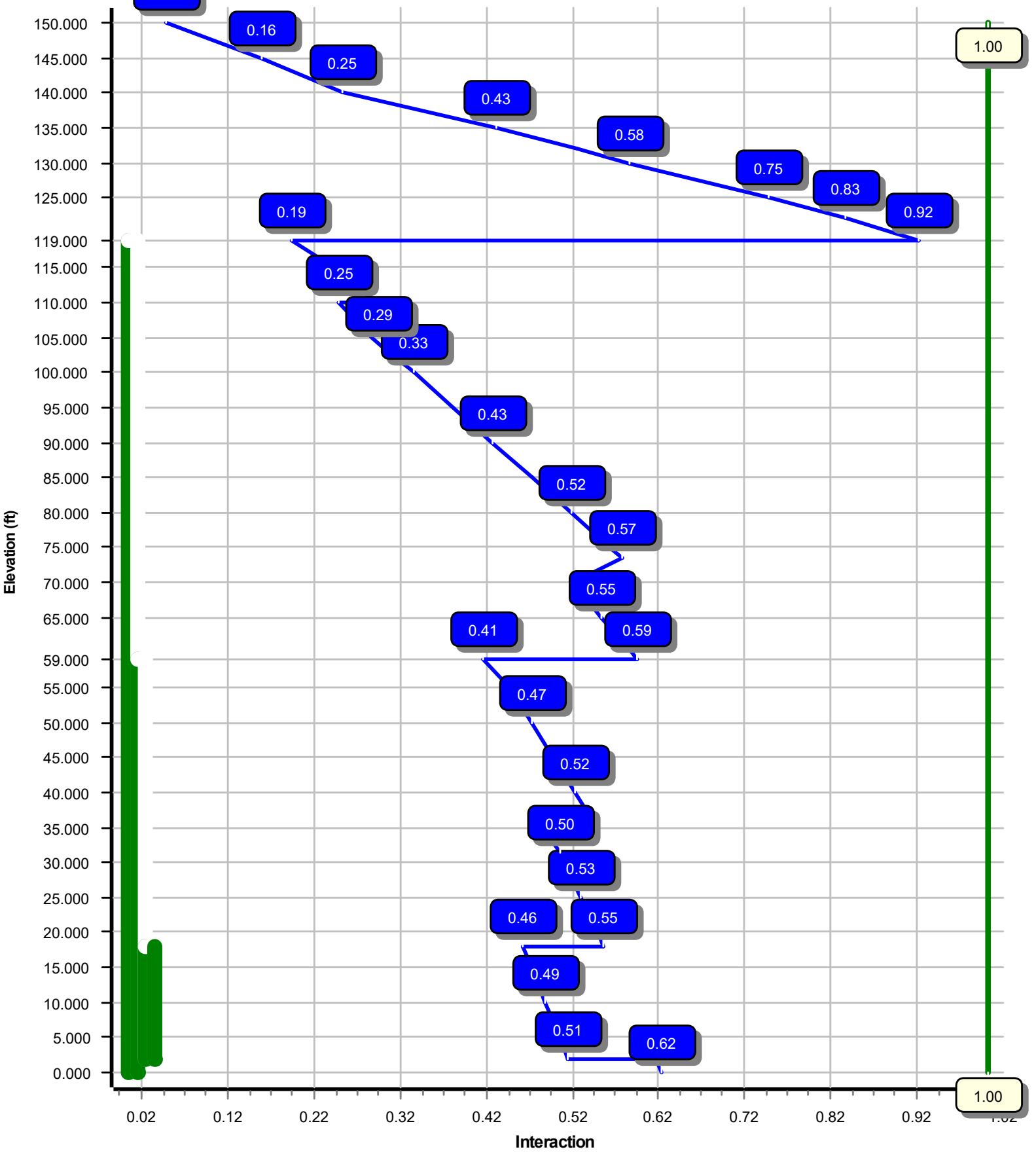
1.2D + 1.0Ev + 1.0Eh	191.38	1.49	60.69
0.9D - 1.0Ev + 1.0Eh	186.88	1.49	42.22
1.0D + 1.0W	718.80	6.91	49.72

Dish Deflections

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	70.00	5.653	0.804
1.0D + 1.0W	130.00	20.490	1.628
1.0D + 1.0W	130.00	20.490	1.628



Load Case : 1.2D + 1.0W
Max Ratio 91.90% at 119.0 ft



Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

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Customer: VERIZON WIRELESS

Analysis Parameters

Location :	New Haven County, CT	Height (ft) :	150
Code :	ANSI/TIA-222-H	Base Diameter (in) :	37.38
Shape :	12 Sides	Top Diameter (in) :	15.00
Pole Type :	Taper	Taper (in/ft) :	0.157
Pole Manufacturer :	ITT Meyer	Rotation (deg) :	0.00
Kd (non-service) :	0.95	Ke :	0.99

Ice & Wind Parameters

Exposure Category:	B	Design Wind Speed Without Ice:	118 mph
Risk Category:	II	Design Wind Speed With Ice:	49 mph
Topographic Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	0.85 in
Crest Height:	0 ft	HMSL:	240.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	2.96		
T _L (sec):	6	p:	1
S _s :	0.180	S ₁ :	0.061
F _a :	1.600	F _v :	2.400
S _{ds} :	0.192	S _{d1} :	0.098
		C _s :	0.030
		C _s Max:	0.030
		C _s Min:	0.030

Load Cases

1.2D + 1.0W	118 mph with No Ice
0.9D + 1.0W	118 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	49 mph with 0.85 in Radial Ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	Serviceability 60 mph

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

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Customer: VERIZON WIRELESS

Shaft Section Properties

Table with 19 columns: Sect Info, Length (ft), Thick (in), Fy (ksi), Joint Type, Joint Len (in), Weight (lb), Dia (in), Elev (ft), Area (in^2), Ix (in^4), W/t Ratio, D/t Ratio, Dia (in), Elev (ft), Area (in^2), Ix (in^4), W/t Ratio, D/t Ratio, Taper (in/ft). Rows include sections 1-12, 2-12, 3-12, 4-12 and a total Shaft Weight of 13,383.

Discrete Appurtenance Properties

Table with 11 columns: Attach Elev (ft), Description, Qty, Ka, Vert Ecc (ft), Weight (lb), No Ice EPAa (sf), Orientation Factor, Ice Weight (lb), Ice EPAa (sf), Orientation Factor. Lists various equipment like Generic Dipole, Ericsson RRUS, Powerwave Allgon, etc., with their respective quantities and weights.

Linear Appurtenance Properties Load Case Azimuth (deg) :

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Max Coax / Flat Row	Dist Between Rows (in)	Dist Between Cols (in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier	
0.00	160.00	3	7/8" Coax	1.09	0.33	N	0	0.00	0.00	0	0.00	N	OTHER
0.00	159.00	1	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	OTHER
0.00	153.00	2	0.39" (10mm) Fiber	0.39	0.06	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	153.00	4	0.78" (19.7mm) 8 AWG	0.78	0.59	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	153.00	6	1 5/8" Coax	1.98	0.82	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	153.00	3	3" conduit	3.50	7.58	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	153.00	1	3/8" (0.38"- 9.5mm)	0.38	0.23	N	0	0.00	0.00	0	0.00	N	AT&T MOBILITY
0.00	150.00	1	1/2" Coax	0.63	0.15	N	0	0.00	0.00	0	0.00	N	VERIZON WIRELESS
128.00	143.00	1	#18 w/ Angle Bracket	4.55	7.88	N	1	0.00	0.00	0	0.00	Y	
128.00	143.00	1	#18 w/ Angle Bracket	4.55	7.88	N	1	0.00	0.00	120	0.00	Y	
128.00	143.00	1	#18 w/ Angle Bracket	4.55	7.88	N	1	0.00	0.00	240	0.00	Y	
0.00	140.00	1	1 1/4" (1.25"- 31.8mm)	1.25	1.05	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	140.00	3	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0.00	0.00	0	0.00	N	T-MOBILE
0.00	140.00	6	1 5/8" Coax	1.98	0.82	N	2	1.00	1.00	90	1.00	Y	T-MOBILE
115.50	133.00	1	#18 w/ Angle Bracket	4.55	7.88	N	1	0.00	0.00	335	0.00	Y	
115.50	133.00	1	#18 w/ Angle Bracket	4.55	7.88	N	1	0.00	0.00	90	0.00	Y	
115.50	133.00	1	#18 w/ Angle Bracket	4.55	7.88	N	1	0.00	0.00	210	0.00	Y	
0.00	132.00	2	1/2" Coax	0.63	0.15	N	2	1.00	1.00	200	1.00	Y	CLEARWIRE
0.00	132.00	2	2" conduit	2.38	3.65	N	2	1.00	1.00	190	1.00	Y	CLEARWIRE
0.00	130.00	2	1/2" Coax	0.63	0.15	N	2	1.00	1.00	200	1.00	Y	CLEARWIRE
0.00	130.00	6	5/16" (0.31"-7.9mm)	0.31	0.05	N	6	1.00	1.00	205	1.00	Y	CLEARWIRE
0.00	123.20	1	#18 w/ W Bracket	2.25	0.00	N	1	0.00	0.00	45	5.15	Y	
0.00	123.20	1	#18 w/ W Bracket	2.25	0.00	N	1	0.00	0.00	135	5.15	Y	
0.00	123.20	1	#18 w/ W Bracket	2.25	0.00	N	1	0.00	0.00	225	5.15	Y	
0.00	123.20	1	#18 w/ W Bracket	2.25	0.00	N	1	0.00	0.00	315	5.15	Y	
0.00	123.20	1	W5 Brackets for #18	1.55	5.70	Y	1	0.00	0.00	315	1.80	Y	
0.00	123.20	1	W5 Brackets for #18	1.55	5.70	Y	1	0.00	0.00	135	1.80	Y	
0.00	123.20	1	W5 Brackets for #18	1.55	5.70	Y	1	0.00	0.00	225	1.80	Y	
0.00	123.20	1	W5 Brackets for #18	1.55	5.70	Y	1	0.00	0.00	45	1.80	Y	
0.00	122.00	3	1/2" Coax	0.63	0.15	N	0	0.00	0.00	0	0.00	N	ALMA RADIO INC.
0.00	113.00	6	1 1/4" Coax	1.55	0.63	N	0	0.00	0.00	0	0.00	N	VERIZON WIRELESS
0.00	113.00	2	1 5/8" Hybriflex	1.98	1.30	N	0	0.00	0.00	0	0.00	N	VERIZON WIRELESS
0.00	70.00	1	0.28" (7mm) RG-6	0.28	0.03	N	0	0.00	0.00	0	0.00	N	OTHER
0.00	65.50	1	#18 w/ Angle Brackets	3.75	4.68	N	1	0.00	0.00	270	0.00	Y	
0.00	65.50	1	#18 w/ Angle Brackets	3.75	4.68	N	1	0.00	0.00	0	0.00	Y	
0.00	65.50	1	#18 w/ Angle Brackets	3.75	4.68	N	1	0.00	0.00	90	0.00	Y	
0.00	65.50	1	#18 w/ Angle Brackets	3.75	4.68	N	1	0.00	0.00	180	0.00	Y	
0.00	20.00	1	1" Thick Flat Plate	1.00	0.00	Y	1	0.00	0.00	15	0.00	Y	
0.00	20.00	1	1" Thick Flat Plate	1.00	0.00	Y	1	0.00	0.00	285	0.00	Y	
0.00	20.00	1	1" Thick Flat Plate	1.00	0.00	Y	1	0.00	0.00	195	0.00	Y	
0.00	20.00	1	1" Thick Flat Plate	1.00	0.00	Y	1	0.00	0.00	105	0.00	Y	

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

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Customer: VERIZON WIRELESS

Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Offset (in)	Intermediate Connections			Connectors	Continuation?
						Description	Spacing (in)	Len (in)		
0.00	119.0	4	SOL #18 All Thread	75	5.15	6" T Bracket	30.0	3.50	5/8" A36 U-Bolt	No
0.00	59.00	4	SOL #18 All Thread	75	2.22	6" Angle Bracket	30.0	3.50	5/8" A36 U-Bolt	No
2.00	18.00	2	PL PL 4" x 1"	50	0.00	5/8" Hollo Bolt	12.0	3.00	5/8" Hollo Bolt	No
2.00	18.00	2	PL PL 5" x 1"	50	0.00	5/8" Hollo Bolt	12.0	3.00	5/8" Hollo Bolt	No

Load Case: 1.2D + 1.0W

118 mph with No Ice

26 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		99.5	0.0					0.0	0.0	99.5	0.0	0.0	0.0
2.00	Reinf Bottom	247.2	363.4					60.3	500.4	307.5	863.8	0.0	0.0
5.00		389.6	539.3					90.5	971.1	480.1	1,510.4	0.0	0.0
10.00		478.7	883.3					150.3	1,618.5	629.0	2,501.8	0.0	0.0
15.00		376.2	864.0					149.4	1,618.5	525.6	2,482.5	0.0	0.0
18.00	Reinf. Top Reinf.	231.5	509.1					89.2	971.1	320.7	1,480.2	0.0	0.0
20.00		318.2	335.6					59.3	500.4	377.5	836.0	0.0	0.0
25.00		447.3	825.4					148.0	1,251.1	595.2	2,076.4	0.0	0.0
30.00		286.8	806.1					122.4	1,251.1	409.2	2,057.1	0.0	0.0
31.50	Bot - Section 2	223.9	238.0					37.0	375.3	260.9	613.4	0.0	0.0
35.00		188.5	1,016.6					88.3	875.7	276.8	1,892.3	0.0	0.0
35.67	Top - Section 1	229.0	191.7					17.1	166.8	246.1	358.5	0.0	0.0
40.00		430.3	566.5					113.4	1,084.3	543.7	1,650.7	0.0	0.0
45.00		464.7	638.6					135.3	1,251.1	600.0	1,889.6	0.0	0.0
50.00		466.8	622.5					139.7	1,251.1	606.5	1,873.5	0.0	0.0
55.00		420.6	606.3					143.7	1,251.1	564.3	1,857.4	0.0	0.0
59.00	Reinf. Top	233.5	473.5					117.7	1,066.1	351.3	1,539.6	0.0	0.0
60.00		279.4	116.8					29.8	184.9	309.2	301.7	0.0	0.0
65.00		464.0	574.1					151.1	924.7	615.1	1,498.7	0.0	0.0
70.00	Bot - Section 3	412.9	558.0					154.4	823.6	567.4	1,381.5	0.0	0.0
73.50	Top - Section 2	259.5	691.8					13.5	568.5	273.0	1,260.3	0.0	0.0
75.00		328.8	131.3					5.8	243.6	334.6	374.9	0.0	0.0
80.00		483.7	429.2					20.0	812.2	503.6	1,241.3	0.0	0.0
85.00		437.8	416.3					20.8	812.2	458.7	1,228.4	0.0	0.0
90.00		404.2	403.4					21.7	812.2	425.9	1,215.6	0.0	0.0
95.00		391.8	390.5					22.5	812.2	414.3	1,202.7	0.0	0.0
100.00		305.1	377.6					23.4	812.2	328.4	1,189.8	0.0	0.0
103.00	Appurtenance(s)	185.9	220.4	2,058.7	0.0	0.0	2,202.0	14.4	487.3	2,259.0	2,909.7	0.0	0.0
105.00		252.2	144.4					9.8	324.9	261.9	469.2	0.0	0.0
110.00	Top - Section 3	282.3	351.9					25.0	812.2	307.2	1,164.1	0.0	0.0
113.00	Appurtenance(s)	171.1	154.6	2,796.1	0.0	3,423.5	2,464.9	15.4	487.3	2,982.5	3,106.8	0.0	0.0
115.00		274.5	101.1					10.4	309.6	284.9	410.7	0.0	0.0
119.00	Reinf. Top	258.1	197.6					95.5	783.7	353.6	981.3	0.0	0.0
120.00		152.3	48.4					24.0	117.9	176.3	166.3	0.0	0.0
122.00	Appurtenance(s)	251.0	95.7	96.7	0.0	96.7	18.0	48.2	235.7	395.8	349.4	0.0	0.0
125.00		337.1	140.6					48.5	302.7	385.6	443.4	0.0	0.0
130.00	Appurtenance(s)	224.1	226.7	600.2	0.0	519.2	329.5	130.6	506.6	955.0	1,062.7	0.0	0.0
131.00	Appurtenance(s)	73.3	44.2	334.7	0.0	0.0	672.0	26.3	117.6	434.3	833.8	0.0	0.0
132.00	Appurtenance(s)	144.6	43.8	18.9	0.0	0.0	12.0	26.4	117.6	190.0	173.4	0.0	0.0
135.00		283.4	129.0					79.7	268.7	363.1	397.8	0.0	0.0
140.00	Appurtenance(s)	344.1	207.3	3,476.6	0.0	-3,128.8	4,925.0	109.4	400.6	3,930.1	5,532.9	0.0	0.0
145.00		297.3	197.6					105.5	279.1	402.9	476.7	0.0	0.0
150.00	Appurtenance(s)	128.5	187.9	1,150.1	0.0	0.0	2,412.0	0.0	194.0	1,278.6	2,793.9	0.0	0.0
Totals:										26,385.1	57,650.2	0.00	0.00

Load Case: 1.2D + 1.0W 118 mph with No Ice 26 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.20
Wind Load Factor :1.00

Calculated Forces

Table with 15 columns: Seg Elev (ft), Pu FY (-) (kips), Vu FX (-) (kips), Tu MY (ft-kips), Mu MZ (ft-kips), Mu MX (ft-kips), Resultant Moment (ft-kips), phi Pn (kips), phi Vn (kips), phi Tn (ft-kips), phi Mn (ft-kips), Total Deflect (in), Rotation (deg), Ratio. Rows range from Seg 0.00 to 132.00.

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

6/29/2021 10:09:30 AM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0W

118 mph with No Ice

26 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.20

Wind Load Factor :1.00

135.00	-9.35	-9.88	0.00	-108.82	0.00	108.82	754.30	182.35	295.28	263.15	96.90	-7.55	0.429
140.00	-4.38	-5.26	0.00	-59.42	0.00	59.42	730.89	174.02	268.95	243.21	104.96	-7.85	0.251
145.00	-3.95	-4.81	0.00	-33.12	0.00	33.12	695.93	165.70	243.85	220.38	113.27	-8.05	0.157
150.00	0.00	-4.20	0.00	-9.09	0.00	9.09	660.97	157.37	219.97	198.67	121.74	-8.15	0.046

Load Case: 0.9D + 1.0W	118 mph with No Ice (Reduced DL)	26 Iterations
Gust Response Factor :1.10		
Dead Load Factor :0.90		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		99.5	0.0					0.0	0.0	99.5	0.0	0.0	0.0
2.00	Reinf Bottom	247.2	272.5					60.3	375.3	307.5	647.8	0.0	0.0
5.00		389.6	404.4					90.5	728.3	480.1	1,132.8	0.0	0.0
10.00		478.7	662.5					150.3	1,213.9	629.0	1,876.4	0.0	0.0
15.00		376.2	648.0					149.4	1,213.9	525.6	1,861.9	0.0	0.0
18.00	Reinf. Top Reinf.	231.5	381.8					89.2	728.3	320.7	1,110.2	0.0	0.0
20.00		318.2	251.7					59.3	375.3	377.5	627.0	0.0	0.0
25.00		447.3	619.0					148.0	938.3	595.2	1,557.3	0.0	0.0
30.00		286.8	604.5					122.4	938.3	409.2	1,542.8	0.0	0.0
31.50	Bot - Section 2	223.9	178.5					37.0	281.5	260.9	460.0	0.0	0.0
35.00		188.5	762.4					88.3	656.8	276.8	1,419.2	0.0	0.0
35.67	Top - Section 1	229.0	143.7					17.1	125.1	246.1	268.9	0.0	0.0
40.00		430.3	424.9					113.4	813.2	543.7	1,238.0	0.0	0.0
45.00		464.7	478.9					135.3	938.3	600.0	1,417.2	0.0	0.0
50.00		466.8	466.8					139.7	938.3	606.5	1,405.1	0.0	0.0
55.00		420.6	454.7					143.7	938.3	564.3	1,393.0	0.0	0.0
59.00	Reinf. Top	233.5	355.1					117.7	799.6	351.3	1,154.7	0.0	0.0
60.00		279.4	87.6					29.8	138.7	309.2	226.3	0.0	0.0
65.00		464.0	430.6					151.1	693.5	615.1	1,124.1	0.0	0.0
70.00	Bot - Section 3	412.9	418.5					154.4	617.7	567.4	1,036.2	0.0	0.0
73.50	Top - Section 2	259.5	518.8					13.5	426.4	273.0	945.2	0.0	0.0
75.00		328.8	98.4					5.8	182.7	334.6	281.2	0.0	0.0
80.00		483.7	321.9					20.0	609.1	503.6	931.0	0.0	0.0
85.00		437.8	312.2					20.8	609.1	458.7	921.3	0.0	0.0
90.00		404.2	302.6					21.7	609.1	425.9	911.7	0.0	0.0
95.00		391.8	292.9					22.5	609.1	414.3	902.0	0.0	0.0
100.00		305.1	283.2					23.4	609.1	328.4	892.4	0.0	0.0
103.00	Appurtenance(s)	185.9	165.3	2,058.7	0.0	0.0	1,651.5	14.4	365.5	2,259.0	2,182.3	0.0	0.0
105.00		252.2	108.3					9.8	243.6	261.9	351.9	0.0	0.0
110.00	Top - Section 3	282.3	263.9					25.0	609.1	307.2	873.0	0.0	0.0
113.00	Appurtenance(s)	171.1	115.9	2,796.1	0.0	3,423.5	1,848.7	15.4	365.5	2,982.5	2,330.1	0.0	0.0
115.00		274.5	75.8					10.4	232.2	284.9	308.0	0.0	0.0
119.00	Reinf. Top	258.1	148.2					95.5	587.8	353.6	735.9	0.0	0.0
120.00		152.3	36.3					24.0	88.4	176.3	124.7	0.0	0.0
122.00	Appurtenance(s)	251.0	71.8	96.7	0.0	96.7	13.5	48.2	176.8	395.8	262.1	0.0	0.0
125.00		337.1	105.5					48.5	227.0	385.6	332.5	0.0	0.0
130.00	Appurtenance(s)	224.1	170.0	600.2	0.0	519.2	247.1	130.6	379.9	955.0	797.0	0.0	0.0
131.00	Appurtenance(s)	73.3	33.1	334.7	0.0	0.0	504.0	26.3	88.2	434.3	625.3	0.0	0.0
132.00	Appurtenance(s)	144.6	32.8	18.9	0.0	0.0	9.0	26.4	88.2	190.0	130.0	0.0	0.0
135.00		283.4	96.8					79.7	201.6	363.1	298.3	0.0	0.0
140.00	Appurtenance(s)	344.1	155.5	3,476.6	0.0	-3,128.8	3,693.8	109.4	300.5	3,930.1	4,149.7	0.0	0.0
145.00		297.3	148.2					105.5	209.3	402.9	357.5	0.0	0.0
150.00	Appurtenance(s)	128.5	140.9	1,150.1	0.0	0.0	1,809.0	0.0	145.5	1,278.6	2,095.4	0.0	0.0
Totals:										26,385.1	43,237.6	0.00	0.00

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

6/29/2021 10:09:41 AM

Customer: VERIZON WIRELESS

Load Case: 0.9D + 1.0W

118 mph with No Ice (Reduced DL)

26 Iterations

Gust Response Factor :1.10

Dead Load Factor :0.90

Wind Load Factor :1.00

135.00	-6.77	-9.50	0.00	-105.11	0.00	105.11	754.30	182.35	295.28	263.15	94.46	-7.33	0.411
140.00	-3.14	-5.07	0.00	-57.62	0.00	57.62	730.89	174.02	268.95	243.21	102.28	-7.63	0.242
145.00	-2.83	-4.63	0.00	-32.25	0.00	32.25	695.93	165.70	243.85	220.38	110.36	-7.82	0.151
150.00	0.00	-4.20	0.00	-9.09	0.00	9.09	660.97	157.37	219.97	198.67	118.58	-7.92	0.046

Load Case: 1.2D + 1.0Di + 1.0Wi	49 mph with 0.85 in Radial Ice	25 Iterations
Gust Response Factor :1.10	Ice Dead Load Factor :1.00	
Dead Load Factor :1.20		Ice Importance Factor :1.00
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		18.7	0.0					0.0	0.0	18.7	0.0	0.0	0.0
2.00	Reinf Bottom	46.5	421.9					6.9	592.1	53.5	1,013.9	0.0	0.0
5.00		73.7	637.7					12.5	1,125.1	86.2	1,762.7	0.0	0.0
10.00		90.9	1,056.8					23.9	1,894.1	114.8	2,951.0	0.0	0.0
15.00		71.7	1,042.9					26.6	1,908.0	98.3	2,950.9	0.0	0.0
18.00	Reinf. Top Reinf.	44.2	618.1					17.0	1,149.6	61.2	1,767.7	0.0	0.0
20.00		60.9	408.6					11.7	621.1	72.6	1,029.7	0.0	0.0
25.00		86.0	1,007.0					30.3	1,543.7	116.3	2,550.7	0.0	0.0
30.00		55.4	987.2					31.7	1,549.5	87.1	2,536.7	0.0	0.0
31.50	Bot - Section 2	43.5	292.6					9.8	465.8	53.3	758.5	0.0	0.0
35.00		36.7	1,145.3					23.8	1,088.6	60.5	2,233.9	0.0	0.0
35.67	Top - Section 1	44.7	216.3					4.7	207.6	49.3	423.8	0.0	0.0
40.00		84.2	724.1					30.8	1,351.2	115.0	2,075.3	0.0	0.0
45.00		91.7	818.3					37.6	1,562.7	129.3	2,380.9	0.0	0.0
50.00		93.0	799.7					39.5	1,566.2	132.5	2,365.9	0.0	0.0
55.00		84.5	780.9					53.6	1,569.3	138.1	2,350.2	0.0	0.0
59.00	Reinf. Top	47.2	611.4					44.4	1,322.9	91.6	1,934.3	0.0	0.0
60.00		56.8	151.2					11.3	243.0	68.1	394.2	0.0	0.0
65.00		94.6	742.6					57.8	1,216.4	152.5	1,959.0	0.0	0.0
70.00	Bot - Section 3	77.1	723.2					59.9	1,075.3	137.0	1,798.5	0.0	0.0
73.50	Top - Section 2	42.5	808.0					43.1	742.4	85.6	1,550.4	0.0	0.0
75.00		54.9	180.8					18.6	318.4	73.5	499.2	0.0	0.0
80.00		83.9	590.4					63.4	1,062.4	147.3	1,652.8	0.0	0.0
85.00		83.0	573.8					65.3	1,063.9	148.3	1,637.7	0.0	0.0
90.00		82.0	557.1					67.2	1,065.3	149.1	1,622.4	0.0	0.0
95.00		80.8	540.3					69.0	1,066.6	149.8	1,607.0	0.0	0.0
100.00		63.8	523.5					70.8	1,067.9	134.6	1,591.4	0.0	0.0
103.00	Appurtenance(s)	39.4	306.5	819.6	0.0	0.0	5,649.7	43.4	641.3	902.4	6,597.6	0.0	0.0
105.00		54.3	201.2					29.3	427.8	83.6	629.0	0.0	0.0
110.00	Top - Section 3	61.5	489.5					74.4	1,070.3	135.9	1,559.8	0.0	0.0
113.00	Appurtenance(s)	37.9	235.7	600.9	0.0	697.1	3,892.1	45.5	642.7	684.2	4,770.5	0.0	0.0
115.00		44.8	154.5					45.5	413.4	90.3	567.9	0.0	0.0
119.00	Reinf. Top	37.0	301.6					119.7	1,023.0	156.7	1,324.6	0.0	0.0
120.00		21.9	74.3					31.8	178.9	53.7	253.2	0.0	0.0
122.00	Appurtenance(s)	36.2	146.7	31.1	0.0	31.1	51.8	64.7	358.0	132.0	556.5	0.0	0.0
125.00		62.0	215.5					72.2	450.4	134.2	665.9	0.0	0.0
130.00	Appurtenance(s)	48.4	347.0	123.1	0.0	103.0	604.4	108.2	731.0	279.8	1,682.3	0.0	0.0
131.00	Appurtenance(s)	15.9	68.1	83.9	0.0	0.0	867.0	27.0	161.4	126.8	1,096.4	0.0	0.0
132.00	Appurtenance(s)	31.5	67.5	4.3	0.0	0.0	29.4	27.1	161.4	63.0	258.3	0.0	0.0
135.00		60.8	198.6					48.5	355.2	109.3	553.8	0.0	0.0
140.00	Appurtenance(s)	73.3	318.6	743.9	0.0	-646.3	6,737.8	70.2	530.0	887.4	7,586.4	0.0	0.0
145.00		67.2	304.3					26.4	306.4	93.6	610.7	0.0	0.0
150.00	Appurtenance(s)	31.1	290.0	295.8	0.0	0.0	2,758.9	0.0	194.0	326.9	3,242.9	0.0	0.0
Totals:										6,983.75	77,354.4	0.00	0.00

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

6/29/2021 10:09:52 AM

Customer: VERIZON WIRELESS

Load Case: 1.2D + 1.0Di + 1.0Wi

49 mph with 0.85 in Radial Ice

25 Iterations

Gust Response Factor :1.10

Ice Dead Load Factor :1.00

Dead Load Factor :1.20

Ice Importance Factor :1.00

Wind Load Factor :1.00

135.00	-14.67	-2.47	0.00	-27.05	0.00	27.05	754.30	182.35	295.28	263.15	26.85	-2.04	0.122
140.00	-7.12	-1.31	0.00	-14.72	0.00	14.72	730.89	174.02	268.95	243.21	29.03	-2.12	0.070
145.00	-6.52	-1.20	0.00	-8.16	0.00	8.16	695.93	165.70	243.85	220.38	31.27	-2.16	0.046
150.00	0.00	-0.95	0.00	-2.16	0.00	2.16	660.97	157.37	219.97	198.67	33.55	-2.19	0.011

Load Case: 1.0D + 1.0W	Serviceability 60 mph	24 Iterations
Gust Response Factor :1.10		
Dead Load Factor :1.00		
Wind Load Factor :1.00		

Applied Segment Forces Summary

Seg Elev (ft)	Description	Shaft Forces		Discrete Forces			Linear Forces		Sum of Forces				
		Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Wind FX (lb)	Dead Load (lb)	Torsion MY (lb-ft)	Moment MZ (lb)
0.00		23.0	0.0					0.0	0.0	23.0	0.0	0.0	0.0
2.00	Reinf Bottom	57.2	302.8					14.0	417.0	71.2	719.8	0.0	0.0
5.00		90.2	449.4					21.0	809.3	111.2	1,258.6	0.0	0.0
10.00		110.9	736.1					34.8	1,348.8	145.7	2,084.9	0.0	0.0
15.00		87.1	720.0					34.6	1,348.8	121.7	2,068.8	0.0	0.0
18.00	Reinf. Top Reinf.	53.6	424.3					20.7	809.3	74.3	1,233.5	0.0	0.0
20.00		73.7	279.6					13.7	417.0	87.4	696.6	0.0	0.0
25.00		103.6	687.8					34.3	1,042.5	137.8	1,730.4	0.0	0.0
30.00		66.4	671.7					28.3	1,042.5	94.8	1,714.3	0.0	0.0
31.50	Bot - Section 2	51.9	198.4					8.6	312.8	60.4	511.1	0.0	0.0
35.00		43.6	847.1					20.4	729.8	64.1	1,576.9	0.0	0.0
35.67	Top - Section 1	53.0	159.7					4.0	139.0	57.0	298.7	0.0	0.0
40.00		99.6	472.1					26.3	903.5	125.9	1,375.6	0.0	0.0
45.00		107.6	532.1					31.3	1,042.5	139.0	1,574.7	0.0	0.0
50.00		108.1	518.7					32.3	1,042.5	140.5	1,561.3	0.0	0.0
55.00		97.4	505.3					33.3	1,042.5	130.7	1,547.8	0.0	0.0
59.00	Reinf. Top	54.1	394.5					27.3	888.4	81.3	1,283.0	0.0	0.0
60.00		64.7	97.3					6.9	154.1	71.6	251.4	0.0	0.0
65.00		107.5	478.4					35.0	770.5	142.4	1,249.0	0.0	0.0
70.00	Bot - Section 3	95.6	465.0					35.8	686.3	131.4	1,151.3	0.0	0.0
73.50	Top - Section 2	60.1	576.5					3.1	473.8	63.2	1,050.2	0.0	0.0
75.00		76.1	109.4					1.3	203.0	77.5	312.4	0.0	0.0
80.00		112.0	357.6					4.6	676.8	116.6	1,034.4	0.0	0.0
85.00		101.4	346.9					4.8	676.8	106.2	1,023.7	0.0	0.0
90.00		93.6	336.2					5.0	676.8	98.6	1,013.0	0.0	0.0
95.00		90.7	325.4					5.2	676.8	95.9	1,002.2	0.0	0.0
100.00		70.6	314.7					5.4	676.8	76.1	991.5	0.0	0.0
103.00	Appurtenance(s)	43.0	183.7	476.8	0.0	0.0	1,835.0	3.3	406.1	523.1	2,424.8	0.0	0.0
105.00		58.4	120.3					2.3	270.7	60.7	391.0	0.0	0.0
110.00	Top - Section 3	65.4	293.2					5.8	676.8	71.1	970.0	0.0	0.0
113.00	Appurtenance(s)	39.6	128.8	647.5	0.0	792.8	2,054.1	3.6	406.1	690.7	2,589.0	0.0	0.0
115.00		63.6	84.3					2.4	258.0	66.0	342.2	0.0	0.0
119.00	Reinf. Top	59.8	164.7					23.1	653.1	82.8	817.7	0.0	0.0
120.00		35.3	40.4					5.8	98.2	41.1	138.6	0.0	0.0
122.00	Appurtenance(s)	58.1	79.7	22.4	0.0	22.4	15.0	11.6	196.4	92.2	291.2	0.0	0.0
125.00		78.1	117.2					12.2	252.3	90.3	369.5	0.0	0.0
130.00	Appurtenance(s)	51.9	188.9	139.0	0.0	120.2	274.6	34.0	422.1	224.9	885.6	0.0	0.0
131.00	Appurtenance(s)	17.0	36.8	77.5	0.0	0.0	560.0	6.9	98.0	101.4	694.8	0.0	0.0
132.00	Appurtenance(s)	33.5	36.5	4.4	0.0	0.0	10.0	6.9	98.0	44.8	144.5	0.0	0.0
135.00		65.6	107.5					20.8	223.9	86.5	331.5	0.0	0.0
140.00	Appurtenance(s)	79.7	172.7	805.1	0.0	-724.6	4,104.2	28.4	333.9	913.2	4,610.8	0.0	0.0
145.00		68.9	164.7					29.2	232.6	98.0	397.2	0.0	0.0
150.00	Appurtenance(s)	29.8	156.6	266.4	0.0	0.0	2,010.0	0.0	161.6	296.1	2,328.3	0.0	0.0
Totals:										6,128.42	48,041.8	0.00	0.00

Load Case: 1.0D + 1.0W

Serviceability 60 mph

24 Iterations

Gust Response Factor :1.10
Dead Load Factor :1.00
Wind Load Factor :1.00

Calculated Forces

Table with 15 columns: Seg, Elev, Pu, Vu, Tu, Mu, Mu, Resultant Moment, phi Pn, phi Vn, phi Tn, phi Mn, Total Deflect, Rotation, Ratio. Rows include elevation data from 0.00 to 132.00 ft.

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

6/29/2021 10:10:04 AM

Customer: VERIZON WIRELESS

Load Case: 1.0D + 1.0W

Serviceability 60 mph

24 Iterations

Gust Response Factor :1.10

Dead Load Factor :1.00

Wind Load Factor :1.00

135.00	-8.77	-2.26	0.00	-24.89	0.00	24.89	754.30	182.35	295.28	263.15	22.25	-1.73	0.106
140.00	-4.18	-1.20	0.00	-13.61	0.00	13.61	730.89	174.02	268.95	243.21	24.10	-1.80	0.062
145.00	-3.79	-1.10	0.00	-7.59	0.00	7.59	695.93	165.70	243.85	220.38	26.01	-1.84	0.040
150.00	0.00	-0.97	0.00	-2.10	0.00	2.10	660.97	157.37	219.97	198.67	27.96	-1.87	0.011

Equivalent Lateral Forces Method Analysis

Spectral Response Acceleration for Short Period (S_g):	0.18
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.06
Long-Period Transition Period (T_L):	6
Importance Factor (I_E):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	1.50
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.19
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s	0.03
Lower Limit C_s	0.03
Period based on Rayleigh Method (sec):	2.96
Redundancy Factor (p):	1.00
Seismic Force Distribution Exponent (k):	2.00
Total Unfactored Dead Load:	49.72 k
Seismic Base Shear (E):	1.49 k

Load Case 1.2D + 1.0Ev + 1.0Eh

Seismic

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
42	147.50	318	6,924	0.017	26	394
41	142.50	397	8,066	0.020	30	492
40	137.50	507	9,578	0.024	36	627
39	133.50	331	5,908	0.015	22	410
38	131.50	134	2,326	0.006	9	167
37	130.50	135	2,296	0.006	9	167
36	127.50	611	9,933	0.025	37	757
35	123.50	369	5,635	0.014	21	458
34	121.00	276	4,044	0.010	15	342
33	119.50	139	1,979	0.005	7	172
32	117.00	818	11,194	0.028	42	1,013
31	114.00	342	4,448	0.011	17	424
30	111.50	535	6,650	0.017	25	662
29	107.50	970	11,210	0.028	42	1,201
28	104.00	391	4,229	0.011	16	484
27	101.50	590	6,076	0.015	23	730
26	97.50	992	9,426	0.024	35	1,228
25	92.50	1,002	8,575	0.021	32	1,241
24	87.50	1,013	7,756	0.019	29	1,254
23	82.50	1,024	6,968	0.017	26	1,268
22	77.50	1,034	6,213	0.016	23	1,281
21	74.25	312	1,722	0.004	6	387
20	71.75	1,050	5,407	0.013	20	1,301
19	67.50	1,151	5,246	0.013	20	1,426
18	62.50	1,249	4,879	0.012	18	1,547

17	59.50	251	890	0.002	3	311
16	57.00	1,283	4,168	0.010	16	1,589
15	52.50	1,548	4,266	0.011	16	1,917
14	47.50	1,561	3,523	0.009	13	1,933
13	42.50	1,575	2,844	0.007	11	1,950
12	37.83	1,376	1,969	0.005	7	1,704
11	35.33	299	373	0.001	1	370
10	33.25	1,577	1,743	0.004	6	1,953
9	30.75	511	483	0.001	2	633
8	27.50	1,714	1,296	0.003	5	2,123
7	22.50	1,730	876	0.002	3	2,143
6	19.00	697	251	0.001	1	863
5	16.50	1,234	336	0.001	1	1,528
4	12.50	2,069	323	0.001	1	2,562
3	7.50	2,085	117	0.000	0	2,582
2	3.50	1,259	15	0.000	0	1,559
1	1.00	720	1	0.000	0	891
Generic 11' Dipole	150.00	40	900	0.002	3	50
Generic 4' Omni	150.00	10	225	0.001	1	12
Powerwave Allgon 702	150.00	13	297	0.001	1	16
Kathrein Scala 782-1	150.00	19	432	0.001	2	24
Powerwave Allgon LGP	150.00	85	1,904	0.005	7	105
Raycap DC6-48-60-18-	150.00	32	715	0.002	3	39
Ericsson RRUS 8843 B	150.00	216	4,860	0.012	18	267
Ericsson RRUS 4449 B	150.00	213	4,793	0.012	18	264
Raycap DC6-48-60-18-	150.00	16	360	0.001	1	20
Ericsson RRUS 32 B30	150.00	159	3,577	0.009	13	197
Raycap DC6-48-60-18-	150.00	16	360	0.001	1	20
Powerwave Allgon 777	150.00	105	2,363	0.006	9	130
CCI HPA65R-BU6A	150.00	126	2,828	0.007	11	156
Commscope SBNHH-1D65	150.00	152	3,422	0.009	13	188
Kathrein Scala 80010	150.00	293	6,588	0.016	25	363
Generic GPS	150.00	10	225	0.001	1	12
Round Platform w/ Ha	150.00	2,000	45,000	0.112	168	2,477
Ericsson KRY 112 144	140.00	33	647	0.002	2	41
Ericsson Radio 4449	140.00	222	4,351	0.011	16	275
Ericsson AIR 21, 1.3	140.00	249	4,880	0.012	18	308
Ericsson AIR 21, 1.3	140.00	244	4,792	0.012	18	303
RFS APXVAARR24_43-U-	140.00	384	7,521	0.019	28	475
PerfectVision PV-RP1	140.00	2,972	58,251	0.145	217	3,681
Generic 12" x 12" Ju	132.00	10	174	0.000	1	12
Side Arms	131.00	560	9,610	0.024	36	694
DragonWave Horizon C	130.00	21	358	0.001	1	26
DragonWave A-ANT-23G	130.00	15	254	0.001	1	19
NextNet BTS-2500	130.00	105	1,775	0.004	7	130
Argus LLPX310R	130.00	86	1,450	0.004	5	106
DragonWave A-ANT-18G	130.00	48	804	0.002	3	59
SWR FMEC/1	122.00	15	223	0.001	1	19
Commscope CBC78-DS-4	113.00	18	230	0.001	1	22
Samsung Outdoor CBRS	113.00	13	169	0.000	1	16
Samsung RT4401-48A	113.00	56	713	0.002	3	69
Samsung B2/B66A RRH-	113.00	253	3,233	0.008	12	314
Samsung B5/B13 RRH-B	113.00	211	2,693	0.007	10	261
RFS APL868013-12T0	113.00	25	322	0.001	1	31
RFS APL866513-12T0-0	113.00	31	401	0.001	1	39
Samsung MT6407-77A	113.00	245	3,126	0.008	12	303
RFS DB-T1-6Z-8AB-OZ	113.00	88	1,124	0.003	4	109
Commscope JAHH-65B-R	113.00	364	4,643	0.012	17	450
Round T-Arm	113.00	750	9,577	0.024	36	929
Generic Dish Reserve	103.00	1,835	19,468	0.049	72	2,272
Generic 4' Std. Dish	70.00	188	921	0.002	3	233
		49,724	400,719	1.000	1,492	61,579

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Segment	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
42	147.50	318	6,924	0.017	26	274
41	142.50	397	8,066	0.020	30	342
40	137.50	507	9,578	0.024	36	436
39	133.50	331	5,908	0.015	22	286
38	131.50	134	2,326	0.006	9	116
37	130.50	135	2,296	0.006	9	116
36	127.50	611	9,933	0.025	37	526
35	123.50	369	5,635	0.014	21	318
34	121.00	276	4,044	0.010	15	238
33	119.50	139	1,979	0.005	7	119
32	117.00	818	11,194	0.028	42	705
31	114.00	342	4,448	0.011	17	295
30	111.50	535	6,650	0.017	25	461
29	107.50	970	11,210	0.028	42	836
28	104.00	391	4,229	0.011	16	337
27	101.50	590	6,076	0.015	23	508
26	97.50	992	9,426	0.024	35	854
25	92.50	1,002	8,575	0.021	32	864
24	87.50	1,013	7,756	0.019	29	873
23	82.50	1,024	6,968	0.017	26	882
22	77.50	1,034	6,213	0.016	23	891
21	74.25	312	1,722	0.004	6	269
20	71.75	1,050	5,407	0.013	20	905
19	67.50	1,151	5,246	0.013	20	992
18	62.50	1,249	4,879	0.012	18	1,076
17	59.50	251	890	0.002	3	217
16	57.00	1,283	4,168	0.010	16	1,105
15	52.50	1,548	4,266	0.011	16	1,334
14	47.50	1,561	3,523	0.009	13	1,345
13	42.50	1,575	2,844	0.007	11	1,357
12	37.83	1,376	1,969	0.005	7	1,185
11	35.33	299	373	0.001	1	257
10	33.25	1,577	1,743	0.004	6	1,359
9	30.75	511	483	0.001	2	440
8	27.50	1,714	1,296	0.003	5	1,477
7	22.50	1,730	876	0.002	3	1,491
6	19.00	697	251	0.001	1	600
5	16.50	1,234	336	0.001	1	1,063
4	12.50	2,069	323	0.001	1	1,782
3	7.50	2,085	117	0.000	0	1,796
2	3.50	1,259	15	0.000	0	1,084
1	1.00	720	1	0.000	0	620
Generic 11' Dipole	150.00	40	900	0.002	3	34
Generic 4' Omni	150.00	10	225	0.001	1	9
Powerwave Allgon 702	150.00	13	297	0.001	1	11
Kathrein Scala 782-1	150.00	19	432	0.001	2	17
Powerwave Allgon LGP	150.00	85	1,904	0.005	7	73
Raycap DC6-48-60-18-	150.00	32	715	0.002	3	27
Ericsson RRUS 8843 B	150.00	216	4,860	0.012	18	186
Ericsson RRUS 4449 B	150.00	213	4,793	0.012	18	184
Raycap DC6-48-60-18-	150.00	16	360	0.001	1	14
Ericsson RRUS 32 B30	150.00	159	3,577	0.009	13	137
Raycap DC6-48-60-18-	150.00	16	360	0.001	1	14
Powerwave Allgon 777	150.00	105	2,363	0.006	9	90
CCI HPA65R-BU6A	150.00	126	2,828	0.007	11	108
Commscope SBNHH-1D65	150.00	152	3,422	0.009	13	131
Kathrein Scala 80010	150.00	293	6,588	0.016	25	252

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

6/29/2021 10:10:04 AM

Customer: VERIZON WIRELESS

Generic GPS	150.00	10	225	0.001	1	9
Round Platform w/ Ha	150.00	2,000	45,000	0.112	168	1,723
Ericsson KRY 112 144	140.00	33	647	0.002	2	28
Ericsson Radio 4449	140.00	222	4,351	0.011	16	191
Ericsson AIR 21, 1.3	140.00	249	4,880	0.012	18	215
Ericsson AIR 21, 1.3	140.00	244	4,792	0.012	18	211
RFS APXVAARR24_43-U-	140.00	384	7,521	0.019	28	331
PerfectVision PV-RP1	140.00	2,972	58,251	0.145	217	2,561
Generic 12" x 12" Ju	132.00	10	174	0.000	1	9
Side Arms	131.00	560	9,610	0.024	36	482
DragonWave Horizon C	130.00	21	358	0.001	1	18
DragonWave A-ANT-23G	130.00	15	254	0.001	1	13
NextNet BTS-2500	130.00	105	1,775	0.004	7	90
Argus LLPX310R	130.00	86	1,450	0.004	5	74
DragonWave A-ANT-18G	130.00	48	804	0.002	3	41
SWR FMEC/1	122.00	15	223	0.001	1	13
Commscope CBC78-DS-4	113.00	18	230	0.001	1	16
Samsung Outdoor CBRS	113.00	13	169	0.000	1	11
Samsung RT4401-48A	113.00	56	713	0.002	3	48
Samsung B2/B66A RRH-	113.00	253	3,233	0.008	12	218
Samsung B5/B13 RRH-B	113.00	211	2,693	0.007	10	182
RFS APL868013-12T0	113.00	25	322	0.001	1	22
RFS APL866513-12T0-0	113.00	31	401	0.001	1	27
Samsung MT6407-77A	113.00	245	3,126	0.008	12	211
RFS DB-T1-6Z-8AB-0Z	113.00	88	1,124	0.003	4	76
Commscope JAHH-65B-R	113.00	364	4,643	0.012	17	313
Round T-Arm	113.00	750	9,577	0.024	36	646
Generic Dish Reserve	103.00	1,835	19,468	0.049	72	1,581
Generic 4' Std. Dish	70.00	188	921	0.002	3	162
		49,724	400,719	1.000	1,492	42,842

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

6/29/2021 10:10:04 AM

Customer: VERIZON WIRELESS

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

6/29/2021 10:10:04 AM

Customer: VERIZON WIRELESS

Load Case 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Calculated Forces

Seg	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi	phi	phi	Total		
Elev	FY (-)	FX (-)	MY	MZ	MX	Moment	Pn	Vn	Tn	Mn	Deflect	Rotation	Ratio
(ft)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	
0.00	-42.22	-1.49	0.00	-186.88	0.00	186.88	3,157.17	784.20	2,737.77	2,376.61	0.00	0.00	0.044
2.00	-41.14	-1.50	0.00	-183.89	0.00	183.89	3,140.17	777.55	2,691.61	2,343.59	0.00	-0.01	0.044
5.00	-39.34	-1.51	0.00	-179.40	0.00	179.40	3,114.35	767.59	2,623.11	2,294.24	0.01	-0.02	0.036
10.00	-37.56	-1.51	0.00	-171.87	0.00	171.87	3,070.50	750.99	2,510.89	2,212.51	0.03	-0.03	0.035
15.00	-36.50	-1.52	0.00	-164.31	0.00	164.31	3,025.61	734.39	2,401.13	2,131.46	0.07	-0.04	0.034
18.00	-35.89	-1.52	0.00	-159.75	0.00	159.75	2,998.18	724.42	2,336.45	2,083.18	0.10	-0.05	0.033
18.00	-35.89	-1.52	0.00	-159.75	0.00	159.75	2,998.18	724.42	2,336.45	2,083.18	0.10	-0.05	0.040
20.00	-34.40	-1.52	0.00	-156.72	0.00	156.72	2,979.68	717.78	2,293.82	2,051.14	0.12	-0.05	0.039
25.00	-32.93	-1.52	0.00	-149.11	0.00	149.11	2,932.71	701.18	2,188.97	1,971.59	0.18	-0.07	0.038
30.00	-32.49	-1.53	0.00	-141.49	0.00	141.49	2,875.21	684.57	2,086.57	1,886.65	0.27	-0.09	0.037
31.50	-31.13	-1.52	0.00	-139.20	0.00	139.20	2,854.29	679.59	2,056.33	1,859.14	0.29	-0.09	0.037
35.00	-30.87	-1.52	0.00	-133.87	0.00	133.87	2,805.48	667.97	1,986.62	1,795.73	0.37	-0.10	0.036
35.67	-29.68	-1.52	0.00	-132.85	0.00	132.85	2,253.08	567.85	1,719.88	1,471.98	0.38	-0.10	0.040
40.00	-28.33	-1.51	0.00	-126.27	0.00	126.27	2,223.50	555.84	1,647.92	1,421.63	0.48	-0.12	0.039
45.00	-26.98	-1.50	0.00	-118.70	0.00	118.70	2,188.39	541.99	1,566.79	1,363.95	0.61	-0.13	0.037
50.00	-25.65	-1.49	0.00	-111.17	0.00	111.17	2,152.25	528.13	1,487.72	1,306.78	0.76	-0.15	0.035
55.00	-24.54	-1.48	0.00	-103.71	0.00	103.71	2,115.06	514.27	1,410.69	1,250.16	0.92	-0.16	0.033
59.00	-24.32	-1.48	0.00	-97.79	0.00	97.79	2,084.57	503.18	1,350.55	1,205.28	1.07	-0.18	0.032
59.00	-24.32	-1.48	0.00	-97.79	0.00	97.79	2,084.57	503.18	1,350.55	1,205.28	1.07	-0.18	0.045
60.00	-23.25	-1.46	0.00	-96.31	0.00	96.31	2,076.84	500.41	1,335.71	1,194.13	1.10	-0.18	0.044
65.00	-22.26	-1.45	0.00	-89.00	0.00	89.00	2,037.58	486.55	1,262.78	1,138.75	1.30	-0.20	0.042
70.00	-21.19	-1.43	0.00	-81.76	0.00	81.76	1,985.31	472.69	1,191.90	1,077.58	1.52	-0.22	0.040
73.50	-20.92	-1.42	0.00	-76.77	0.00	76.77	1,474.00	377.76	952.88	802.36	1.69	-0.23	0.045
75.00	-20.03	-1.40	0.00	-74.64	0.00	74.64	1,466.32	374.43	936.20	791.10	1.76	-0.24	0.044
80.00	-19.15	-1.38	0.00	-67.63	0.00	67.63	1,440.03	363.37	881.69	753.74	2.03	-0.26	0.041
85.00	-18.27	-1.35	0.00	-60.75	0.00	60.75	1,412.71	352.30	828.81	716.70	2.31	-0.28	0.037
90.00	-17.41	-1.32	0.00	-53.99	0.00	53.99	1,384.35	341.23	777.56	680.02	2.61	-0.30	0.034
95.00	-16.55	-1.28	0.00	-47.40	0.00	47.40	1,354.95	330.16	727.95	643.77	2.93	-0.31	0.031
100.00	-16.05	-1.26	0.00	-40.98	0.00	40.98	1,324.51	319.09	679.97	607.99	3.27	-0.33	0.028
103.00	-14.13	-1.16	0.00	-37.19	0.00	37.19	1,305.75	312.45	651.97	586.76	3.48	-0.34	0.025
105.00	-13.29	-1.12	0.00	-34.86	0.00	34.86	1,293.03	308.02	633.63	572.72	3.63	-0.35	0.024
110.00	-12.83	-1.10	0.00	-29.26	0.00	29.26	1,247.19	296.95	588.93	532.34	4.00	-0.36	0.021
110.00	-12.83	-1.10	0.00	-29.26	0.00	29.26	856.53	223.97	445.40	367.75	4.00	-0.36	0.026
113.00	-10.77	-0.97	0.00	-25.97	0.00	25.97	845.63	218.97	425.76	354.91	4.22	-0.37	0.022
115.00	-10.06	-0.92	0.00	-24.03	0.00	24.03	838.16	215.64	412.92	346.37	4.38	-0.37	0.021
119.00	-9.94	-0.92	0.00	-20.34	0.00	20.34	822.72	208.98	387.82	329.40	4.69	-0.38	0.018
119.00	-9.94	-0.92	0.00	-20.34	0.00	20.34	822.72	208.98	387.82	329.40	4.69	-0.38	0.074
120.00	-9.71	-0.90	0.00	-19.42	0.00	19.42	818.76	207.32	381.66	325.17	4.77	-0.38	0.072
122.00	-9.37	-0.88	0.00	-17.62	0.00	17.62	810.71	203.99	369.51	316.76	4.94	-0.40	0.067
125.00	-8.85	-0.85	0.00	-14.97	0.00	14.97	798.31	198.99	351.64	304.20	5.20	-0.43	0.060
130.00	-8.49	-0.82	0.00	-10.74	0.00	10.74	776.83	190.67	322.85	283.51	5.66	-0.46	0.049
131.00	-7.90	-0.77	0.00	-9.92	0.00	9.92	772.41	189.01	317.24	279.41	5.76	-0.47	0.046
132.00	-7.60	-0.75	0.00	-9.15	0.00	9.15	767.94	187.34	311.67	275.32	5.86	-0.47	0.043
135.00	-7.17	-0.71	0.00	-6.91	0.00	6.91	754.30	182.35	295.28	263.15	6.16	-0.49	0.036
140.00	-3.29	-0.35	0.00	-3.35	0.00	3.35	730.89	174.02	268.95	243.21	6.69	-0.51	0.018
145.00	-3.02	-0.32	0.00	-1.60	0.00	1.60	695.93	165.70	243.85	220.38	7.23	-0.52	0.012
150.00	0.00	-0.29	0.00	0.00	0.00	0.00	660.97	157.37	219.97	198.67	7.77	-0.52	0.000

Site Number: 302484

Code: ANSI/TIA-222-H

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Site Name: Branford CT 6, CT

Engineering Number: 13685617_C3_02

6/29/2021 10:10:04 AM

Customer: VERIZON WIRELESS

Analysis Summary

Load Case	Reactions						Max Usage	
	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	29.79	0.00	59.64	0.00	0.00	3125.68	119.00	0.92
0.9D + 1.0W	29.77	0.00	44.72	0.00	0.00	3067.99	119.00	0.88
1.2D + 1.0Di + 1.0Wi	7.71	0.00	80.97	0.00	0.00	862.87	119.00	0.25
1.2D + 1.0Ev + 1.0Eh	1.49	0.00	60.69	0.00	0.00	191.38	119.00	0.08
0.9D - 1.0Ev + 1.0Eh	1.49	0.00	42.22	0.00	0.00	186.88	119.00	0.07
1.0D + 1.0W	6.91	0.00	49.72	0.00	0.00	718.80	119.00	0.22

Additional Steel Summary

			Intermediate Connectors				Max Member		
Elev From (ft)	Elev To (ft)	Member	VQ/I (lb/in)	Shear Applied (kips)	Shear phiVn (kips)	Ratio	Pu (kip)	phiPn (kip)	Ratio
0.00	119.00	(4) SOL-#18 All Thread Bar	381.0	11.4	16.8	0.680	238.1	249.8	0.953
0.00	59.00	(4) SOL-#18 All Thread Bar	197.5	5.9	16.8	0.352	202.8	249.8	0.812
2.00	18.00	(2) PL-PL 4" x 1"	117.9	1.4	25.3	0.056	143.7	174.4	0.824
2.00	18.00	(2) PL-PL 5" x 1"	147.3	1.8	25.3	0.070	179.6	218.0	0.824

			Upper Termination Connectors				Lower Termination Connectors					
Elev From (ft)	Elev To (ft)	Member	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio	MQ/I (kips)	phiVn (kips)	Num Reqd	Num Actual	Ratio
0.00	119.00	(4) SOL-#18 All Thread Bar	83.2	12.0	7	10	0.694	0.0	12.0	0	0	0.000
0.00	59.00	(4) SOL-#18 All Thread Bar	147.6	12.0	13	18	0.683	0.0	12.0	0	0	0.000
2.00	18.00	(2) PL-PL 4" x 1"	130.3	25.3	6	8	0.645	141.2	25.3	6	8	0.698
2.00	18.00	(2) PL-PL 5" x 1"	162.9	25.3	7	8	0.806	176.5	25.3	7	8	0.873



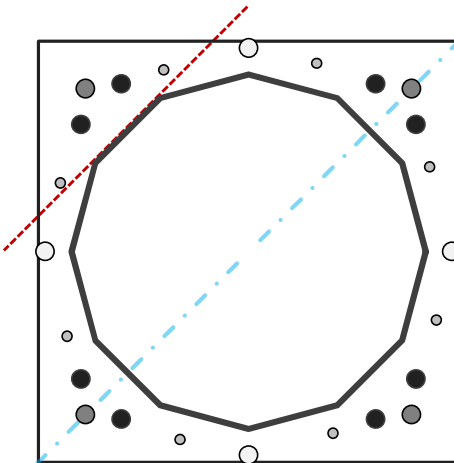
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	12	-
Diameter	35.67	in
Thickness	3/8	in
Orientation Offset		°

Base Reactions		
Moment, Mu	3,125.7	k-ft
Axial, Pu	59.6	k
Shear, Vu	29.8	k
Neutral Axis	45	°

Report Capacities		
Component	Capacity	Result
Base Plate	56%	Pass
Anchor Rods	84%	Pass
Dwyidag	53%	Pass

Base Plate		
Shape	Square	-
Width	44	in
Thickness	2 1/2	in
Grade	A633 Gr. E	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	80	ksi
Clip	0	in
Orientation Offset		°
Anchor Rod Detail	c	$\eta=0.55$
Clear Distance	N/A	in
Applied Moment, Mu	1254.2	k
Bending Stress, ϕMn	2230.1	k



Dwyidag Reinforcement		
Quantity	4	-
Bar Size	#18	in
Diameter, ϕ	2.25	in
Bracket Type	Angle	-
Circle	42.55	in
Orientation Offset	0	°
Applied Force, Pu	157.0	k
Dwyidag Bar, ϕPn	298.2	k

Original Anchor Rods		
Arrangement	Cluster	-
Quantity	8	-
Diameter, ϕ	2 1/4	in
Bolt Circle	44	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	6.0	in
Orientation Offset	0	°
Applied Force, Pu	146.6	k
Anchor Rods, ϕPn	243.6	k

Additional Anchor Rods		
Quantity	8	-
Diameter, ϕ	1 1/4	in
Bolt Circle	41.875	in
Grade	A325	
Yield Strength, Fy	92	ksi
Tensile Strength, Fu	120	ksi
Bypass Base?	No	
Orientation Offset	25	°
Applied Force, Pu	39.5	k
Additional Rod, ϕPn	87.2	k

Additional Dwyidag Reinforcement		
Quantity	4	-
Diameter, ϕ	2 1/4	in
Bolt Circle	48.22	in
Grade	Other	
Yield Strength, Fy	70	ksi
Tensile Strength, Fu	100	ksi
Bypass Base?	Yes (Dwyidag)	
Orientation Offset	45	°
Applied Force, Pu	250.4	k
Additional Rod, ϕPn	298.2	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	29.8	1367.5	0.44
Anchor Rod Forces	26.3	1076.7	0.34
Additional Bolt (Grp1) Forces	3.5	290.8	0.09
Additional Bolt (Grp2) Forces	0.0	988.3	0.32
Dywidag Forces	0.0	769.8	0.25
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in ²	in ²	in ⁴	#	in ⁴
Pole	41.1076	3.4256	0.1614		6403.09
Bolt	3.9761	3.2477	0.8393	4.5	6294.24
Bolt1	1.2272	0.9691	0.0747	7	1699.95
Bolt2	3.9761	3.9761	1.2581	4.5	4627.56
Dywidag	3.9761	3.9761	1.2581		3604.38
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	Square	-
Width, W	44	in
Thickness, t	2.5	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	80	ksi
Base Plate Chord	25.761	in
Detail Type	c	-
Detail Factor	0.55	-
Clear Distance	N/A	-

Anchor Rods		
Anchor Rod Quantity, N	8	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	44	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	146.6	k
Applied Shear, Vu	0.8	k
Compressive Capacity, φPn	243.6	k
Tensile Capacity, φRnt	0.602	OK
Interaction Capacity	0.608	OK

External Base Plate		
Chord Length AA	26.430	in
Additional AA	0.000	in
Section Modulus, Z	41.297	in ³
Applied Moment, Mu	1254.2	k-ft
Bending Capacity, φMn	2230.1	k-ft
Capacity, Mu/φMn	0.562	OK
Chord Length AB	25.168	in
Additional AB	0.000	in
Section Modulus, Z	39.325	in ³
Applied Moment, Mu	1020.1	k-ft
Bending Capacity, φMn	2123.5	k-ft
Capacity, Mu/φMn	0.480	OK
Bend Line Length	0.000	in
Additional Bend Line	0.000	in
Section Modulus, Z	0.000	in ³
Applied Moment, Mu	0.0	k-ft
Bending Capacity, φMn	0.0	k-ft
Capacity, Mu/φMn		

Additional Bolt Group 1		
Bolt Quantity, N	8	-
Bolt Diameter, d	1.25	in
Bolt Circle, BC	41.875	in
Yield Strength, Fy	92	ksi
Tensile Strength, Fu	120	ksi
Applied Axial, Pu	39.5	k
Applied Shear, Vu	0.5	k
Compressive Capacity, φPn	87.2	k
Compressive Capacity, φPn	0.453	OK
Interaction Capacity	0.464	OK

Additional Bolt Group 2		
Bolt Quantity, N	4	-
Bolt Diameter, d	2.25	in
Bolt Circle, BC	48.22	in
Yield Strength, Fy	70	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	250.4	k
Applied Shear, Vu	0.0	k
Compressive Capacity, φPn	298.2	k
Compressive Capacity, φPn	0.840	OK
Interaction Capacity	0.840	OK

Internal Base Plate		
Arc Length	0.000	in
Section Modulus, Z	0.000	in ³
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, φMn	0.0	k-ft
Capacity, Mu/φMn		

Dywidag Reinforcement		
Dywidag Quantity, N	4	-
Dywidag Diameter, d	2.25	in
Bolt Circle, BC	42.55	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	157.0	k
Compressive Capacity, φPn	298.2	k
Capacity, Pu/φPn	0.526	OK

Flange Plate Analysis

Flange Plate	Plate Type	Flange	@ 110 ft
	Pole Diameter	21.25	in
	Pole Thickness	0.1875	in
	Plate Diameter	28.5	in
	Plate Thickness	1	in
	Plate Fy	60	ksi
	Weld Length	0.1875	in
	f _s Resistance	125.73	k-in
	Applied	17.02	k-in

Code Rev.	G
Moment	430.3 k-ft
Axial	17.0 k

Date	6/29/2021
Engineer	AS
Site #	302484
Carrier	VERIZON WIRELESS

Stiffeners	#	12	Show
	Thickness	0.5	in
	Length	3	in
	Height	3	in
	Chamfer	0.5	in
	Offset Angle	0	°
	Fy	36	ksi

Bolts	#	12	
	Bolt Circle (R)adial / (S)quare	25.75	in
		R	
	Diameter	1	in
	Hole Diameter	1.125	in
	Type	A325	
	Fy	92	ksi
	Fu	120	ksi
	f _s Resistance	54.52	k
	Applied	11.35	k

Reinforcement	#	4	
	DYW. Circle	34.41	in
	Offset Angle	45	°
	Type	#18	
	Diameter	2.5	in
	Fu	100	ksi
	f _s Resistance	392.70	k
Applied	85.62	k	

Extra Bolts	#		
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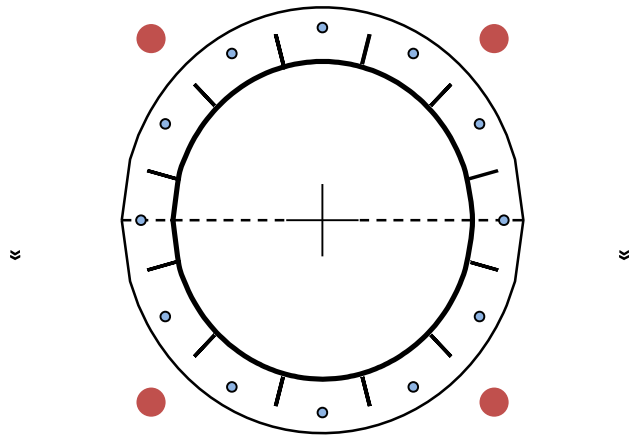


Plate Stress Ratio:
14% Pass

Bolt Stress Ratio:
21% Pass

Reinforcement Stress Ratio:
22% Pass

Pier Foundation Analysis (ANSI/TIA-222-H)

Foundation Analysis Parameters

Pier Diameter	D	5.00	ft
Pier Embedment	$L-h$	22.2	ft
Pier Height above Ground	H	0.50	ft
Water Table Depth [BGL]	GW	5	ft
Pullout Angle	Θ	30	°
Unit Weight of Concrete		150	pcf
Uplift Skin Friction Factor		0.870	

Reactions

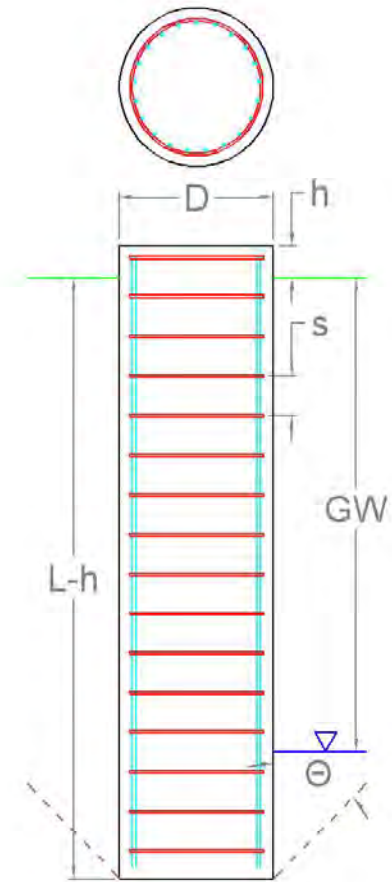
Moment, M_u	3,125.7	k-ft
Shear, V_u	29.8	k
Axial, P_u	59.6	k
Uplift, T_u	0.0	k

Soil Properties

Layer Depth (ft)		Unit Weight	Cohesion	Friction Angle	Ultimate Skin Friction	Ultimate Bearing Pressure
TOP	BTM	pcf	psf	°	psf	psf
0.0	1.0	116	0	0	0	0
1.0	3.0	115	0	30	0	0
3.0	4.5	106	0	29	0	0
4.5	7.0	117	0	31	731	0
7.0	8.0	126	0	34	788	0
8.0	10.0	126	0	34	892	0
10.0	23.3	135	5,112	0	2,300	46,007

Soil Strength Capacities

Volume of Concrete	446.7	ft ³
Weight of Concrete [Buoyancy Considered]	45.9	k
Average Soil Unit Weight	78.8	pcf
Skin Friction Resistance	511.7	k
Compressive Bearing Resistance	903.4	k
Pullout Weight [Minus Concrete Weight]	479.8	k
Compressive Force, P_u	71.6	k
Nominal Compressive Capacity, $\phi_s P_n$	1,061.3	k
$P_u / \phi_s P_n$	6.7%	
Total Lateral Resistance	2,496.9	k
Inflection Point [BGL]	15.6	ft
Moment at Inflection Point, M_D	3,603.8	k-ft
Nominal Moment Capacity, $\phi_s M_n$	6,566.4	k-ft
$M_D / \phi_s M_n$	54.9%	





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Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10099130
Maser Consulting Connecticut Project #: 21777824A

September 3, 2021

Site Information

Site ID: 467297-VZW / BRANFORD 2 CT
Site Name: BRANFORD 2 CT
Carrier Name: Verizon Wireless
Address: 405 Brushy Plain Rd.
Branford, Connecticut 06405
New Haven County
Latitude: 41.31679167°
Longitude: -72.81969167°

Structure Information

Tower Type: 150-Ft Monopole
Mount Type: 13.50-Ft T-Arm

FUZE ID # 15904381

Analysis Results

T-Arm: 58.7% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

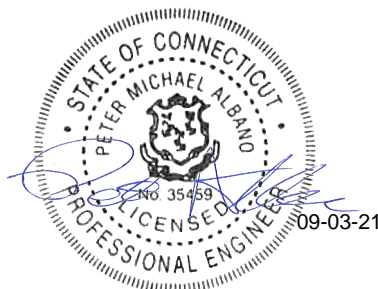
Available & Submitted via portal at <https://pmi.vzwsmart.com>

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: Selene Chen



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: 467269, dated March 18, 2021</i>
<i>Mount Mapping Report</i>	<i>Hudson Design Group, Site ID: 467297, dated August 9, 2021</i>
<i>Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project #: 21777824A, dated August 25, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 21777824A, dated September 3, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 121 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 : 0.991
Seismic Parameters:	S_s : 0.203 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 mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
112.00	114.50	3	Samsung	MT6407-77A	Added
	113.00	3	Commscope	CBC78-DS-43-2X	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		2	RFS	APL866513	Retained
		4	RFS	APL868013	
	6	Commscope	JAHH-65B-R3B		
	2	-	OVP		
	112.50	3	Samsung	XXDWMM-12.5-65-8T	Added

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
Connection Check	58.7%	Pass
Standoff	35.7%	Pass
Face Horizontal	43.7%	Pass
Mod Horizontal	68.7%	Pass
Mod Standoff	53.5%	Pass
Mount Pipe	42.2%	Pass

Structure Rating – (Controlling Utilization of all Components)	58.7%
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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



	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
	Tower Owner:	ATCH	Mapping Date:	8/9/2021
	Site Name:	BRANFORD 2 CT	Tower Type:	
	Site Number or ID:	467297	Tower Height (Ft.):	
Mapping Contractor:	HUDSON DESIGN GROUP	Mount Elevation (Ft.):		

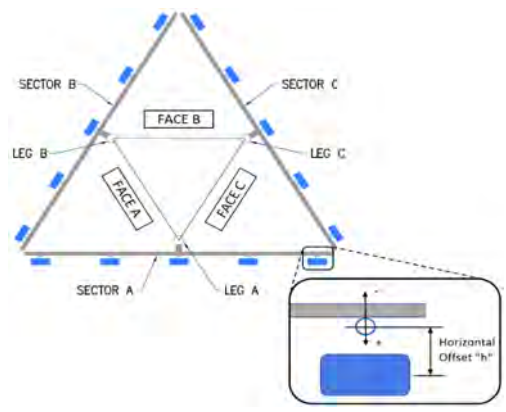
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is 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 the sketches of the antenna mount from the "Sketches" tab with dimensions and members here.

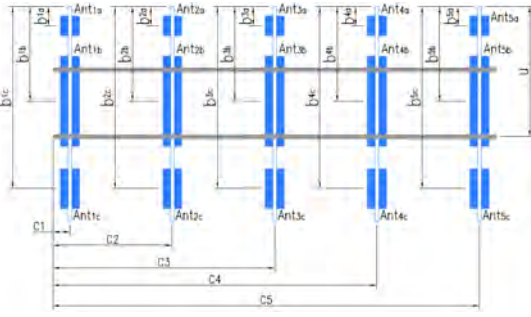
Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	UNKNOWN			C1	UNKNOWN		
A2	UNKNOWN			C2	UNKNOWN		
A3	UNKNOWN			C3	UNKNOWN		
A4	UNKNOWN			C4	UNKNOWN		
A5	UNKNOWN			C5	UNKNOWN		
A6				C6			
B1	UNKNOWN			D1			
B2	UNKNOWN			D2			
B3	UNKNOWN			D3			
B4	UNKNOWN			D4			
B5	UNKNOWN			D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :
 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.): _____ Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): _____
 For T-Arms/Platforms on monopoles, report the weld size from the main standoff to the plate bolting into the collar mount.



Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	
Sector A									
Ant _{1a}									
Ant _{1b}	UNKNOWN					0			45.00 44
Ant _{1c}									
Ant _{2a}									
Ant _{2b}	EMPTY					0			44
Ant _{2c}									
Ant _{3a}	UNKNOWN					0			
Ant _{3b}									44
Ant _{3c}									
Ant _{4a}	UNKNOWN					0			44
Ant _{4b}	(2)UNKNOWN					0			45.00 44
Ant _{4c}									
Ant _{5a}	UNKNOWN					0			44
Ant _{5b}	UNKNOWN					0			45.00 44
Ant _{5c}	UNKNOWN					0			44
Ant on Standoff									
Ant on Standoff									
Ant on Tower									
Ant on Tower									



Antenna Layout (Looking Out From Tower)

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
1	safety climb installed on top of tower modification	18
2		
3		
4		
5		
6		
7		
8		

Observed Obstructions to Tower Lighting System

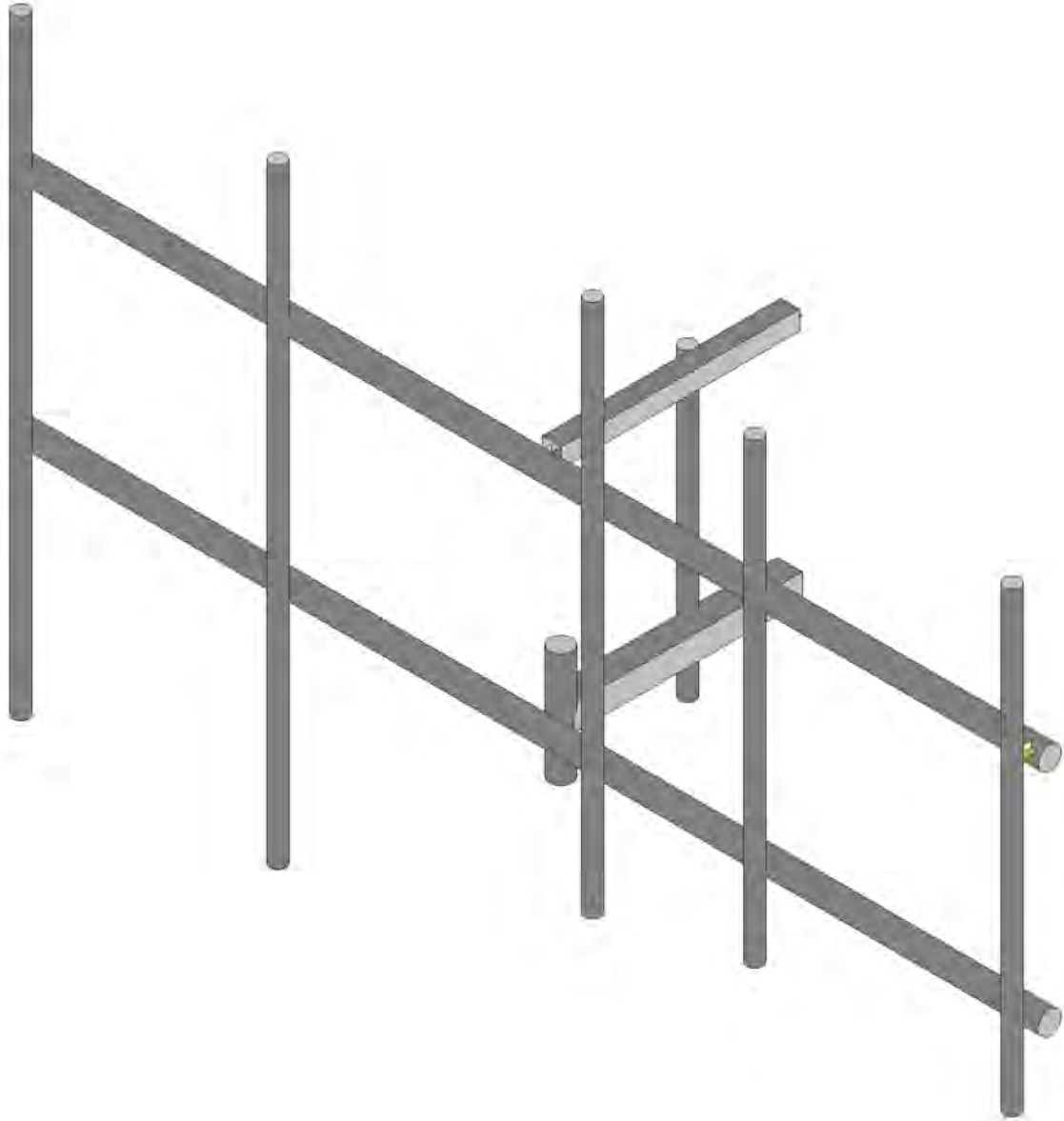
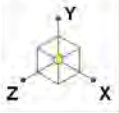
If the tower lighting system is being obstructed by the carrier's equipment (for example: a light nested by the antennas), please provide photos and fill in the information below.		Photo #
Description of Obstruction:		
Type of Light:	Photo #	Additional Comments:
Lighting Technology:	Photo #	
Elevation (AGL) at base of light (Ft.):	Photo #	
Is a service loop available?	Photo #	
Is beacon installed on an extension?	Photo #	

Mapping Notes

1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
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.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions

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.



Envelope Only Solution

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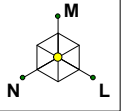
AJH

467297-VZW_MT_LOT_SectorA_H

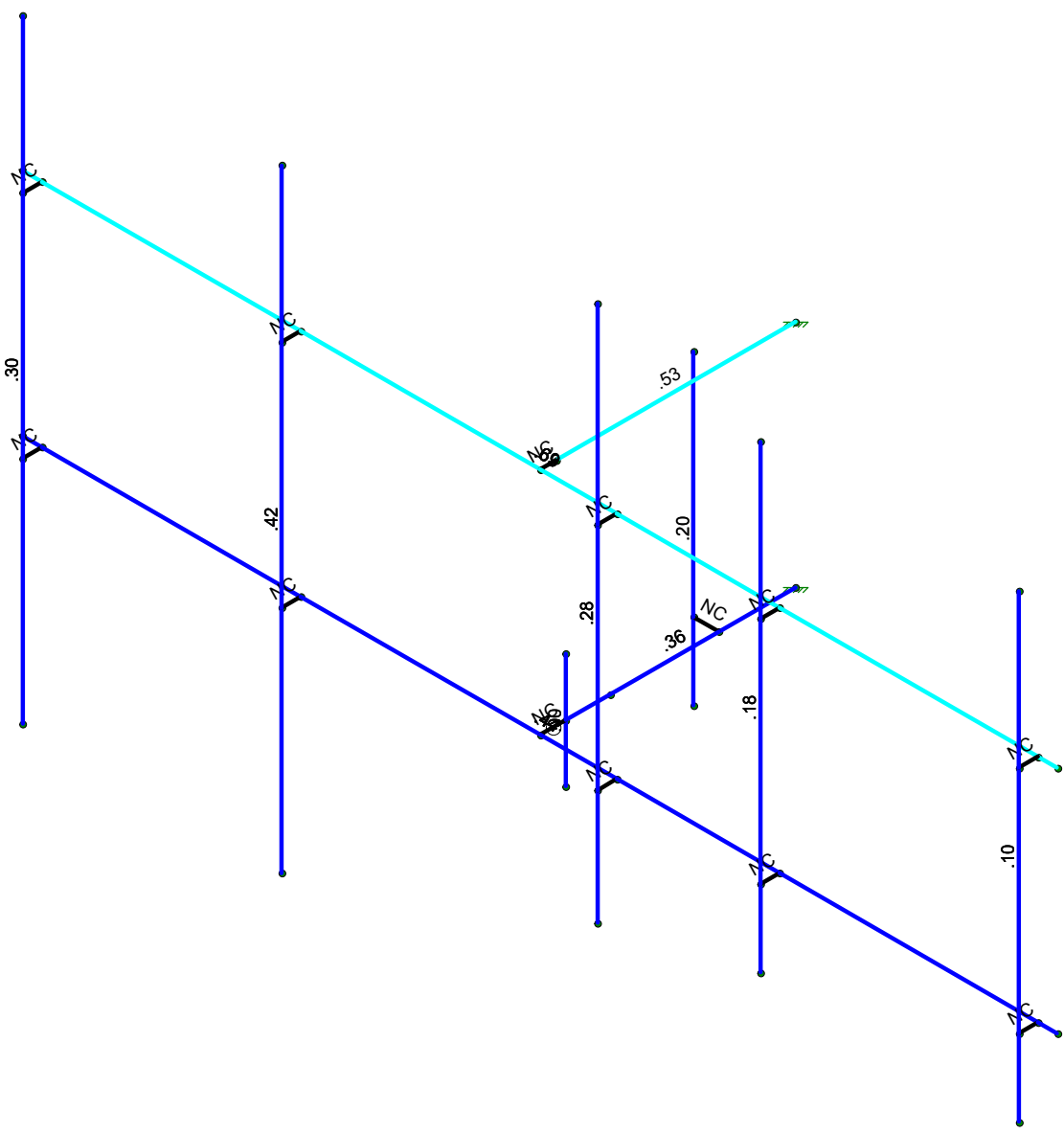
SK - 1

Sept 1, 2021 at 4:22 PM

467297-VZW_MT_LOT_A_H.r3d

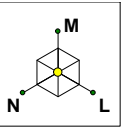


Code Check (Env)	
Black	No Calc
Red	> 1.0
Magenta	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



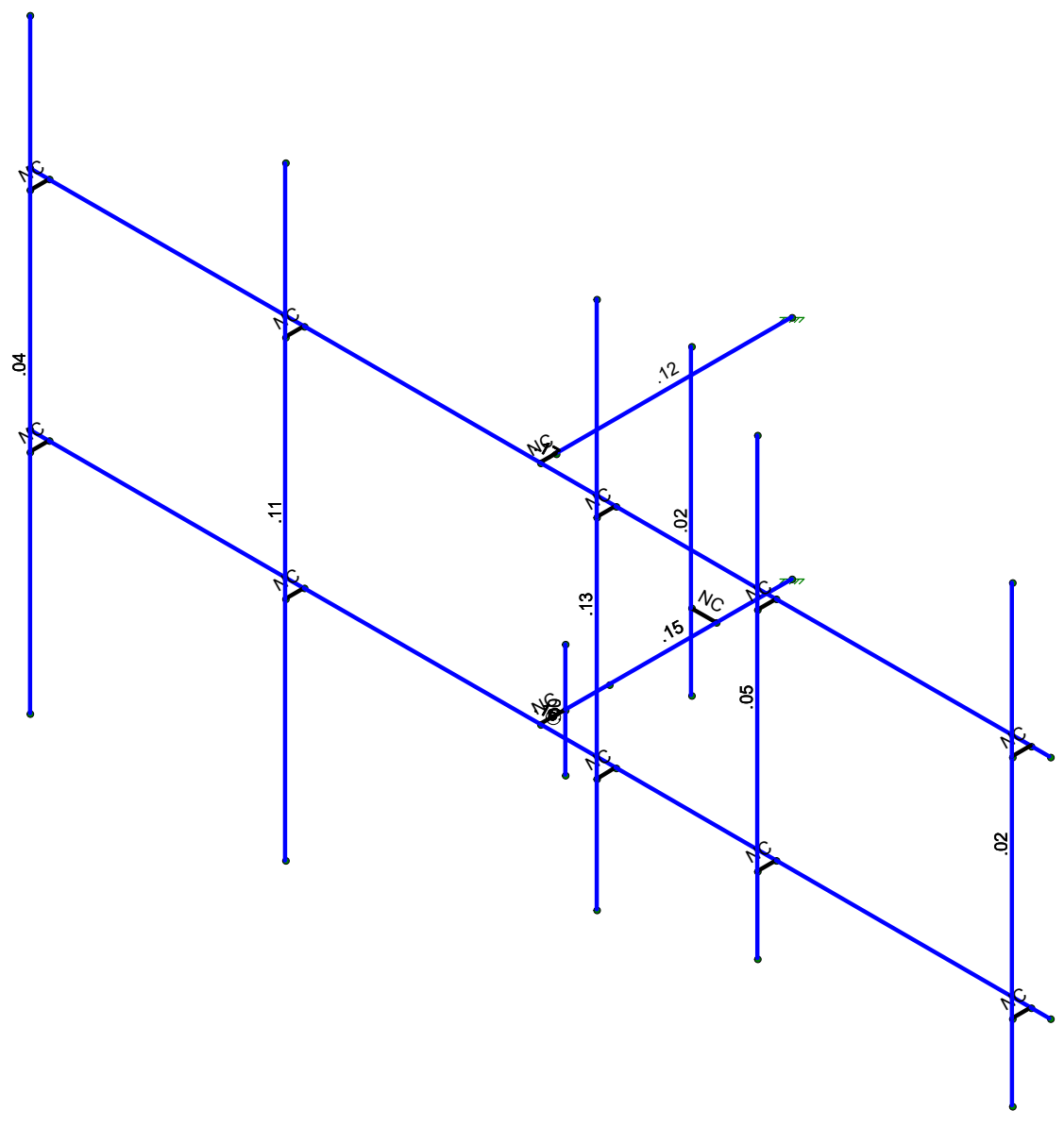
Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467297-VZW_MT_LOT_SectorA_H	SK - 2
AJH		Sept 1, 2021 at 4:23 PM
		467297-VZW_MT_LOT_A_H.r3d



Shear Check (Env)

- No Calc
- > 1.0
- .90-1.0
- .75-90
- .50-.75
- 0-.50



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467297-VZW_MT_LOT_SectorA_H	SK - 3
AJH		Sept 1, 2021 at 4:23 PM
		467297-VZW_MT_LOT_A_H.r3d



6 UgM@ UX'7 UgYg

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					45		
2	Antenna Di	None					45		
3	Antenna Wo (0 Deg)	None					45		
4	Antenna Wo (30 Deg)	None					45		
5	Antenna Wo (60 Deg)	None					45		
6	Antenna Wo (90 Deg)	None					45		
7	Antenna Wo (120 Deg)	None					45		
8	Antenna Wo (150 Deg)	None					45		
9	Antenna Wo (180 Deg)	None					45		
10	Antenna Wo (210 Deg)	None					45		
11	Antenna Wo (240 Deg)	None					45		
12	Antenna Wo (270 Deg)	None					45		
13	Antenna Wo (300 Deg)	None					45		
14	Antenna Wo (330 Deg)	None					45		
15	Antenna Wi (0 Deg)	None					45		
16	Antenna Wi (30 Deg)	None					45		
17	Antenna Wi (60 Deg)	None					45		
18	Antenna Wi (90 Deg)	None					45		
19	Antenna Wi (120 Deg)	None					45		
20	Antenna Wi (150 Deg)	None					45		
21	Antenna Wi (180 Deg)	None					45		
22	Antenna Wi (210 Deg)	None					45		
23	Antenna Wi (240 Deg)	None					45		
24	Antenna Wi (270 Deg)	None					45		
25	Antenna Wi (300 Deg)	None					45		
26	Antenna Wi (330 Deg)	None					45		
27	Antenna Wm (0 Deg)	None					45		
28	Antenna Wm (30 Deg)	None					45		
29	Antenna Wm (60 Deg)	None					45		
30	Antenna Wm (90 Deg)	None					45		
31	Antenna Wm (120 De..	None					45		
32	Antenna Wm (150 De..	None					45		
33	Antenna Wm (180 De..	None					45		
34	Antenna Wm (210 De..	None					45		
35	Antenna Wm (240 De..	None					45		
36	Antenna Wm (270 De..	None					45		
37	Antenna Wm (300 De..	None					45		
38	Antenna Wm (330 De..	None					45		
39	Structure D	None		-1					
40	Structure Di	None						11	
41	Structure Wo (0 Deg)	None						22	
42	Structure Wo (30 Deg)	None						22	
43	Structure Wo (60 Deg)	None						22	
44	Structure Wo (90 Deg)	None						22	
45	Structure Wo (120 D..	None						22	
46	Structure Wo (150 D..	None						22	
47	Structure Wo (180 D..	None						22	
48	Structure Wo (210 D..	None						22	
49	Structure Wo (240 D..	None						22	
50	Structure Wo (270 D..	None						22	
51	Structure Wo (300 D..	None						22	



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 Designer : AJH
 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
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6 UjW@ UX'7 UjYg f7 cbjbi YXL

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
52	Structure Wo (330 D..	None						22	
53	Structure Wi (0 Deg)	None						22	
54	Structure Wi (30 Deg)	None						22	
55	Structure Wi (60 Deg)	None						22	
56	Structure Wi (90 Deg)	None						22	
57	Structure Wi (120 De...	None						22	
58	Structure Wi (150 De...	None						22	
59	Structure Wi (180 De...	None						22	
60	Structure Wi (210 De...	None						22	
61	Structure Wi (240 De...	None						22	
62	Structure Wi (270 De...	None						22	
63	Structure Wi (300 De...	None						22	
64	Structure Wi (330 De...	None						22	
65	Structure Wm (0 Deg)	None						22	
66	Structure Wm (30 D...	None						22	
67	Structure Wm (60 D...	None						22	
68	Structure Wm (90 D...	None						22	
69	Structure Wm (120 ...	None						22	
70	Structure Wm (150 ...	None						22	
71	Structure Wm (180 ...	None						22	
72	Structure Wm (210 ...	None						22	
73	Structure Wm (240 ...	None						22	
74	Structure Wm (270 ...	None						22	
75	Structure Wm (300 ...	None						22	
76	Structure Wm (330 ...	None						22	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		

@UX'7ca VjBUjcbg

	Description	Solve	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	
1	1.2D+1.0Wo (0...	Yes	Y		1	1.2	39	1.2	3	1	41	1				
2	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	4	1	42	1				
3	1.2D+1.0Wo (6...	Yes	Y		1	1.2	39	1.2	5	1	43	1				
4	1.2D+1.0Wo (9...	Yes	Y		1	1.2	39	1.2	6	1	44	1				
5	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	7	1	45	1				
6	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	8	1	46	1				
7	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	9	1	47	1				
8	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	10	1	48	1				
9	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	11	1	49	1				
10	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	12	1	50	1				
11	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	13	1	51	1				
12	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	14	1	52	1				
13	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1
14	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1
15	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1
16	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1
17	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1
18	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1



>c]bh7 cc fX]bUhYg'UbX'HYa dYUhi fYg

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	-1.166667	.76	-3.083333	0	
2	N2	-1.166667	.76	-0.083333	0	
3	N3	-1.166667	.76	0.25	0	
4	N4	5.583333	.76	0.25	0	
5	N5	-7.916667	.76	0.25	0	
6	N6	-7.666667	.76	0.25	0	
7	N7	-7.666667	.76	0.5	0	
8	N8	-7.666667	-2.24	0.5	0	
9	N9	-7.666667	5.76	0.5	0	
10	N10	-4.291667	.76	0.25	0	
11	N11	-4.291667	.76	0.5	0	
12	N12	-4.291667	-2.24	0.5	0	
13	N13	-4.291667	5.76	0.5	0	
14	N15	-0.166667	-.74	0.5	0	
15	N16	-0.166667	6.26	0.5	0	
16	N17	5.333333	.76	0.25	0	
17	N18	5.333333	.76	0.5	0	
18	N19	5.333333	-.24	0.5	0	
19	N20	5.333333	5.76	0.5	0	
20	N21	1.958333	.76	0.25	0	
21	N22	1.958333	.76	0.5	0	
22	N23	1.958333	-.24	0.5	0	
23	N24	1.958333	5.76	0.5	0	
24	N25	-1.166667	.76	-2.083333	0	
25	N26	-1.5	.76	-2.083333	0	
26	N27	-1.5	-.24	-2.083333	0	
27	N28	-1.5	3.76	-2.083333	0	
28	N29	-1.166667	.76	-0.666666	0	
29	N31	-1.166667	.01	-0.083333	0	
30	N32	-1.166667	1.51	-0.083333	0	
31	N32A	5.583333	3.76	0.25	0	
32	N33	-7.916667	3.76	0.25	0	
33	N34	-1.166667	3.76	-3.083333	0	
34	N35	-1.166667	3.76	0.041667	0	
35	N37	-1.166667	3.76	0.25	0	
36	N38	-7.666667	3.76	0.25	0	
37	N39	-7.666667	3.76	0.5	0	
38	N40	-4.291667	3.76	0.25	0	
39	N41	-4.291667	3.76	0.5	0	
40	N43	5.333333	3.76	0.25	0	
41	N44	5.333333	3.76	0.5	0	
42	N45	1.958333	3.76	0.25	0	
43	N46	1.958333	3.76	0.5	0	
44	N46A	-0.166667	.76	0.25	0	
45	N47	-0.166667	.76	0.5	0	
46	N48	-0.166667	3.76	0.25	0	
47	N49	-0.166667	3.76	0.5	0	



Company : Maser Consulting
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<chFc`YX`GhYY`GYWfcb`GYlg

	Label	Shape	Type	Design List	Material	Design Ru...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
3	Standoff Horizontal	HSS4X4X4	Beam	Tube	A500 Gr. B...	Typical	3.37	7.8	7.8	12.8
4	Mast Pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
5	MOD Face	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
6	MOD Standoff	HSS3X3X4	Beam	Tube	A500 Gr. B...	Typical	2.44	3.02	3.02	5.08

<chFc`YX`GhYY`DfcdYfHjYg

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt		
1	A36 Gr.36	29000	11154	.3			.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3			.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3			.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3			.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3			.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3			.65	.49	46	1.4	58	1.3
7	A500 Gr C Round	29000	11154	.3			.65	.49	46	1.5	62	1.2
8	A529 gr50	29000	11154	.3			.65	.49	50	1.5	65	1.2

A Ya VYf`DfJa Ufm8UU

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Standoff Horiz...	Beam	Tube	A500 Gr. ...	Typical
2	M2	N2	N3			RIGID	None	None	RIGID	Typical
3	M3	N5	N4			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
4	M4	N6	N7			RIGID	None	None	RIGID	Typical
5	MP5A	N9	N8			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
6	M6	N10	N11			RIGID	None	None	RIGID	Typical
7	MP4A	N13	N12			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
8	MP3A	N16	N15			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
9	M10	N17	N18			RIGID	None	None	RIGID	Typical
10	MP1A	N20	N19			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
11	M12	N21	N22			RIGID	None	None	RIGID	Typical
12	MP2A	N24	N23			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
13	M14	N25	N26			RIGID	None	None	RIGID	Typical
14	M15	N28	N27			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
15	M16	N32	N31			Mast Pipe	Column	Pipe	A53 Gr. B	Typical
16	M17	N33	N32A			MOD Face	Beam	Pipe	A53 Gr. B	Typical
17	M18	N34	N35			MOD Standoff	Beam	Tube	A500 Gr. ...	Typical
18	M19	N35	N37			RIGID	None	None	RIGID	Typical
19	M20	N38	N39			RIGID	None	None	RIGID	Typical
20	M21	N40	N41			RIGID	None	None	RIGID	Typical
21	M23	N43	N44			RIGID	None	None	RIGID	Typical
22	M24	N45	N46			RIGID	None	None	RIGID	Typical
23	M25	N46A	N47			RIGID	None	None	RIGID	Typical
24	M26	N48	N49			RIGID	None	None	RIGID	Typical

A Ya Vyf '5 Xj Ub WX'8 UH

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2	OOOOXO					Yes	** NA **			None
3	M3						Yes	Default			None
4	M4						Yes	** NA **			None
5	MP5A						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	MP4A						Yes	** NA **			None
8	MP3A						Yes	** NA **			None
9	M10						Yes	** NA **			None
10	MP1A						Yes	** NA **			None
11	M12						Yes	** NA **			None
12	MP2A						Yes	** NA **			None
13	M14						Yes	** NA **			None
14	M15						Yes	** NA **			None
15	M16						Yes	** NA **			None
16	M17						Yes	Default			None
17	M18						Yes				None
18	M19						Yes	** NA **			None
19	M20						Yes	** NA **			None
20	M21						Yes	** NA **			None
21	M23						Yes	** NA **			None
22	M24						Yes	** NA **			None
23	M25						Yes	** NA **			None
24	M26						Yes	** NA **			None

A Ya Vyf 'Dc jbh' @ UXg 'f6 @ '%. '5 bhYbbU'8 L

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-4.4	4
2	MP2A	My	-.002	4
3	MP2A	Mz	-.000382	4
4	MP3A	Y	-43.55	1
5	MP3A	My	-.021	1
6	MP3A	Mz	-.004	1
7	MP3A	Y	-43.55	3
8	MP3A	My	-.021	3
9	MP3A	Mz	-.004	3
10	MP4A	Y	-10.4	1
11	MP4A	My	.005	1
12	MP4A	Mz	.000903	1
13	MP5A	Y	-84.4	3
14	MP5A	My	.042	3
15	MP5A	Mz	.007	3
16	MP4A	Y	-70.3	3
17	MP4A	My	.035	3
18	MP4A	Mz	.006	3
19	MP1A	Y	-7.85	2
20	MP1A	My	-.004	2
21	MP1A	Mz	-.000682	2
22	MP1A	Y	-7.85	5



A Ya Vyf'Dc]bhi@UXg'f6 @ '&. '5 bhYbbU8]k'f7 c bhpi YXL

Table with 4 columns: Member Label, Direction, Magnitude[|b,k-ft], Location[ft,%]. Rows 26-45 showing data for MP5A, MP4A, and M15 members.

A Ya Vyf'Dc]bhi@UXg'f6 @ ' ' : '5 bhYbbUK c'f6'8 Y] #

Table with 4 columns: Member Label, Direction, Magnitude[|b,k-ft], Location[ft,%]. Rows 1-28 showing data for MP2A, MP3A, MP4A, MP5A, and MP1A members.



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 Designer : AJH
 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
 4:23 PM
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A Ya Vyf'Dc]bhi@UXg'f6 @ ' : '5 bhYbbUK c'f\$ '8 Y] H'f7 cb]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP5A	Z	-83.126	5
30	MP5A	Mx	.007	5
31	MP4A	X	0	1
32	MP4A	Z	-185.648	1
33	MP4A	Mx	-.091	1
34	MP4A	X	0	6
35	MP4A	Z	-185.648	6
36	MP4A	Mx	-.091	6
37	MP4A	X	0	1
38	MP4A	Z	-185.648	1
39	MP4A	Mx	.123	1
40	MP4A	X	0	6
41	MP4A	Z	-185.648	6
42	MP4A	Mx	.123	6
43	M15	X	0	1
44	M15	Z	-162.567	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @ (: '5 bhYbbUK c'f' \$'8 Y] H

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.603	4
2	MP2A	Z	-28.757	4
3	MP2A	Mx	-.006	4
4	MP3A	X	44.946	1
5	MP3A	Z	-77.848	1
6	MP3A	Mx	-.015	1
7	MP3A	X	44.946	3
8	MP3A	Z	-77.848	3
9	MP3A	Mx	-.015	3
10	MP4A	X	7.344	1
11	MP4A	Z	-12.721	1
12	MP4A	Mx	.003	1
13	MP5A	X	37.013	3
14	MP5A	Z	-64.108	3
15	MP5A	Mx	.013	3
16	MP4A	X	36.441	3
17	MP4A	Z	-63.117	3
18	MP4A	Mx	.012	3
19	MP1A	X	41.174	2
20	MP1A	Z	-71.315	2
21	MP1A	Mx	-.014	2
22	MP1A	X	41.174	5
23	MP1A	Z	-71.315	5
24	MP1A	Mx	-.014	5
25	MP5A	X	41.174	2
26	MP5A	Z	-71.315	2
27	MP5A	Mx	-.014	2
28	MP5A	X	41.174	5
29	MP5A	Z	-71.315	5
30	MP5A	Mx	-.014	5
31	MP4A	X	90.029	1



Company : Maser Consulting
 Designer : AJH
 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
 4:23 PM
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A Ya Vyf'Dc]bhi@UXg'f6 @ ') : ' 5 bhYbbUK c'fl \$'8 Yl tL'f7 cbh]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP4A	Z	-155.935	1
33	MP4A	Mx	-.129	1
34	MP4A	X	90.029	6
35	MP4A	Z	-155.935	6
36	MP4A	Mx	-.129	6
37	MP4A	X	90.029	1
38	MP4A	Z	-155.935	1
39	MP4A	Mx	.068	1
40	MP4A	X	90.029	6
41	MP4A	Z	-155.935	6
42	MP4A	Mx	.068	6
43	M15	X	71.971	1
44	M15	Z	-124.658	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @ ') : ' 5 bhYbbUK c'fl \$'8 Yl tL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	16.768	4
2	MP2A	Z	-9.681	4
3	MP2A	Mx	-.007	4
4	MP3A	X	53.886	1
5	MP3A	Z	-31.111	1
6	MP3A	Mx	-.024	1
7	MP3A	X	53.886	3
8	MP3A	Z	-31.111	3
9	MP3A	Mx	-.024	3
10	MP4A	X	10.81	1
11	MP4A	Z	-6.241	1
12	MP4A	Mx	.005	1
13	MP5A	X	53.718	3
14	MP5A	Z	-31.014	3
15	MP5A	Mx	.024	3
16	MP4A	X	48.748	3
17	MP4A	Z	-28.145	3
18	MP4A	Mx	.022	3
19	MP1A	X	67.669	2
20	MP1A	Z	-39.069	2
21	MP1A	Mx	-.03	2
22	MP1A	X	67.669	5
23	MP1A	Z	-39.069	5
24	MP1A	Mx	-.03	5
25	MP5A	X	67.669	2
26	MP5A	Z	-39.069	2
27	MP5A	Mx	-.03	2
28	MP5A	X	67.669	5
29	MP5A	Z	-39.069	5
30	MP5A	Mx	-.03	5
31	MP4A	X	129.737	1
32	MP4A	Z	-74.904	1
33	MP4A	Mx	-.114	1
34	MP4A	X	129.737	6

A Ya Vyf Dc Jbh @ UXg f6 @ ') : 5 bh YbbUK c ff \$ 8 Yl ff cb Jbi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
35	MP4A	Z	-74.904	6
36	MP4A	Mx	-.114	6
37	MP4A	X	129.737	1
38	MP4A	Z	-74.904	1
39	MP4A	Mx	-.001	1
40	MP4A	X	129.737	6
41	MP4A	Z	-74.904	6
42	MP4A	Mx	-.001	6
43	M15	X	111.509	1
44	M15	Z	-64.38	1
45	M15	Mx	0	1

A Ya Vyf Dc Jbh @ UXg f6 @ '* : 5 bh YbbUK c ff \$ 8 Yl ff

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.076	4
2	MP2A	Z	0	4
3	MP2A	Mx	-.004	4
4	MP3A	X	39.665	1
5	MP3A	Z	0	1
6	MP3A	Mx	-.02	1
7	MP3A	X	39.665	3
8	MP3A	Z	0	3
9	MP3A	Mx	-.02	3
10	MP4A	X	10.684	1
11	MP4A	Z	0	1
12	MP4A	Mx	.005	1
13	MP5A	X	52.249	3
14	MP5A	Z	0	3
15	MP5A	Mx	.026	3
16	MP4A	X	42.763	3
17	MP4A	Z	0	3
18	MP4A	Mx	.021	3
19	MP1A	X	74.705	2
20	MP1A	Z	0	2
21	MP1A	Mx	-.037	2
22	MP1A	X	74.705	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.037	5
25	MP5A	X	74.705	2
26	MP5A	Z	0	2
27	MP5A	Mx	-.037	2
28	MP5A	X	74.705	5
29	MP5A	Z	0	5
30	MP5A	Mx	-.037	5
31	MP4A	X	125.148	1
32	MP4A	Z	0	1
33	MP4A	Mx	-.074	1
34	MP4A	X	125.148	6
35	MP4A	Z	0	6
36	MP4A	Mx	-.074	6
37	MP4A	X	125.148	1



A Ya Vyf Dc Jbh @ UXg f6 @ * : 5 bhYbbUK c fl \$ 8 Yl H:ff cbhbi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP4A	Z	0	1
39	MP4A	Mx	-.049	1
40	MP4A	X	125.148	6
41	MP4A	Z	0	6
42	MP4A	Mx	-.049	6
43	M15	X	132.202	1
44	M15	Z	0	1
45	M15	Mx	0	1

A Ya Vyf Dc Jbh @ UXg f6 @ + : 5 bhYbbUK c fl & \$ 8 Yl H

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	9.21	4
2	MP2A	Z	5.317	4
3	MP2A	Mx	-.005	4
4	MP3A	X	38.779	1
5	MP3A	Z	22.389	1
6	MP3A	Mx	-.021	1
7	MP3A	X	38.779	3
8	MP3A	Z	22.389	3
9	MP3A	Mx	-.021	3
10	MP4A	X	9.606	1
11	MP4A	Z	5.546	1
12	MP4A	Mx	.005	1
13	MP5A	X	47.169	3
14	MP5A	Z	27.233	3
15	MP5A	Mx	.026	3
16	MP4A	X	39.689	3
17	MP4A	Z	22.914	3
18	MP4A	Mx	.022	3
19	MP1A	X	65.37	2
20	MP1A	Z	37.741	2
21	MP1A	Mx	-.035	2
22	MP1A	X	65.37	5
23	MP1A	Z	37.741	5
24	MP1A	Mx	-.035	5
25	MP5A	X	65.37	2
26	MP5A	Z	37.741	2
27	MP5A	Mx	-.035	2
28	MP5A	X	65.37	5
29	MP5A	Z	37.741	5
30	MP5A	Mx	-.035	5
31	MP4A	X	113.222	1
32	MP4A	Z	65.369	1
33	MP4A	Mx	-.035	1
34	MP4A	X	113.222	6
35	MP4A	Z	65.369	6
36	MP4A	Mx	-.035	6
37	MP4A	X	113.222	1
38	MP4A	Z	65.369	1
39	MP4A	Mx	-.088	1
40	MP4A	X	113.222	6



A Ya Vyf Dc Jbh @ UXg f6 @ + : 5 bhYbbUK c fP \$ 8 Yf t f c bhbi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
41	MP4A	Z	65.369	6
42	MP4A	Mx	-.088	6
43	M15	X	130.619	1
44	M15	Z	75.413	1
45	M15	Mx	0	1

A Ya Vyf Dc Jbh @ UXg f6 @ ; : 5 bhYbbUK c fP \$ 8 Yf t

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	12.239	4
2	MP2A	Z	21.199	4
3	MP2A	Mx	-.008	4
4	MP3A	X	36.224	1
5	MP3A	Z	62.742	1
6	MP3A	Mx	-.023	1
7	MP3A	X	36.224	3
8	MP3A	Z	62.742	3
9	MP3A	Mx	-.023	3
10	MP4A	X	6.649	1
11	MP4A	Z	11.516	1
12	MP4A	Mx	.004	1
13	MP5A	X	33.231	3
14	MP5A	Z	57.558	3
15	MP5A	Mx	.021	3
16	MP4A	X	31.211	3
17	MP4A	Z	54.058	3
18	MP4A	Mx	.02	3
19	MP1A	X	39.847	2
20	MP1A	Z	69.016	2
21	MP1A	Mx	-.026	2
22	MP1A	X	39.847	5
23	MP1A	Z	69.016	5
24	MP1A	Mx	-.026	5
25	MP5A	X	39.847	2
26	MP5A	Z	69.016	2
27	MP5A	Mx	-.026	2
28	MP5A	X	39.847	5
29	MP5A	Z	69.016	5
30	MP5A	Mx	-.026	5
31	MP4A	X	80.494	1
32	MP4A	Z	139.419	1
33	MP4A	Mx	.02	1
34	MP4A	X	80.494	6
35	MP4A	Z	139.419	6
36	MP4A	Mx	.02	6
37	MP4A	X	80.494	1
38	MP4A	Z	139.419	1
39	MP4A	Mx	-.124	1
40	MP4A	X	80.494	6
41	MP4A	Z	139.419	6
42	MP4A	Mx	-.124	6
43	M15	X	83.004	1



Company : Maser Consulting
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 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
 4:23 PM
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A Ya Vyf'Dc]bhi@UXg'f6 @' ; : '5 bhYbbUK c'fP\$ '8 Yf t'f7 c bh]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	M15	Z	143.767	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @' - : '5 bhYbbUK c'fP\$ '8 Yf t

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	4
2	MP2A	Z	35.764	4
3	MP2A	Mx	-.003	4
4	MP3A	X	0	1
5	MP3A	Z	95.005	1
6	MP3A	Mx	-.008	1
7	MP3A	X	0	3
8	MP3A	Z	95.005	3
9	MP3A	Mx	-.008	3
10	MP4A	X	0	1
11	MP4A	Z	15.096	1
12	MP4A	Mx	.001	1
13	MP5A	X	0	3
14	MP5A	Z	76.242	3
15	MP5A	Mx	.007	3
16	MP4A	X	0	3
17	MP4A	Z	75.948	3
18	MP4A	Mx	.007	3
19	MP1A	X	0	2
20	MP1A	Z	83.126	2
21	MP1A	Mx	-.007	2
22	MP1A	X	0	5
23	MP1A	Z	83.126	5
24	MP1A	Mx	-.007	5
25	MP5A	X	0	2
26	MP5A	Z	83.126	2
27	MP5A	Mx	-.007	2
28	MP5A	X	0	5
29	MP5A	Z	83.126	5
30	MP5A	Mx	-.007	5
31	MP4A	X	0	1
32	MP4A	Z	185.648	1
33	MP4A	Mx	.091	1
34	MP4A	X	0	6
35	MP4A	Z	185.648	6
36	MP4A	Mx	.091	6
37	MP4A	X	0	1
38	MP4A	Z	185.648	1
39	MP4A	Mx	-.123	1
40	MP4A	X	0	6
41	MP4A	Z	185.648	6
42	MP4A	Mx	-.123	6
43	M15	X	0	1
44	M15	Z	162.567	1
45	M15	Mx	0	1



A Ya Vyf Dc]bh @ UXg f6 @ '% \$. '5 bhYbbUK c fB \$ '8 Y [£

	Member Label	Direction	Magnitude [lb,k-ft]	Location [ft,%]
1	MP2A	X	-16.603	4
2	MP2A	Z	28.757	4
3	MP2A	Mx	.006	4
4	MP3A	X	-44.946	1
5	MP3A	Z	77.848	1
6	MP3A	Mx	.015	1
7	MP3A	X	-44.946	3
8	MP3A	Z	77.848	3
9	MP3A	Mx	.015	3
10	MP4A	X	-7.344	1
11	MP4A	Z	12.721	1
12	MP4A	Mx	-.003	1
13	MP5A	X	-37.013	3
14	MP5A	Z	64.108	3
15	MP5A	Mx	-.013	3
16	MP4A	X	-36.441	3
17	MP4A	Z	63.117	3
18	MP4A	Mx	-.012	3
19	MP1A	X	-41.174	2
20	MP1A	Z	71.315	2
21	MP1A	Mx	.014	2
22	MP1A	X	-41.174	5
23	MP1A	Z	71.315	5
24	MP1A	Mx	.014	5
25	MP5A	X	-41.174	2
26	MP5A	Z	71.315	2
27	MP5A	Mx	.014	2
28	MP5A	X	-41.174	5
29	MP5A	Z	71.315	5
30	MP5A	Mx	.014	5
31	MP4A	X	-90.029	1
32	MP4A	Z	155.935	1
33	MP4A	Mx	.129	1
34	MP4A	X	-90.029	6
35	MP4A	Z	155.935	6
36	MP4A	Mx	.129	6
37	MP4A	X	-90.029	1
38	MP4A	Z	155.935	1
39	MP4A	Mx	-.068	1
40	MP4A	X	-90.029	6
41	MP4A	Z	155.935	6
42	MP4A	Mx	-.068	6
43	M15	X	-71.971	1
44	M15	Z	124.658	1
45	M15	Mx	0	1

A Ya Vyf Dc]bh @ UXg f6 @ '% \$. '5 bhYbbUK c fB \$ '8 Y [£

	Member Label	Direction	Magnitude [lb,k-ft]	Location [ft,%]
1	MP2A	X	-16.768	4
2	MP2A	Z	9.681	4
3	MP2A	Mx	.007	4



A Ya Vyf Dc]bh @ UXg f6 @ '%% .5 bhYbbUK c fB(\$'8 Y[tL f7 c bh pi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP3A	X	-53.886	1
5	MP3A	Z	31.111	1
6	MP3A	Mx	.024	1
7	MP3A	X	-53.886	3
8	MP3A	Z	31.111	3
9	MP3A	Mx	.024	3
10	MP4A	X	-10.81	1
11	MP4A	Z	6.241	1
12	MP4A	Mx	-.005	1
13	MP5A	X	-53.718	3
14	MP5A	Z	31.014	3
15	MP5A	Mx	-.024	3
16	MP4A	X	-48.748	3
17	MP4A	Z	28.145	3
18	MP4A	Mx	-.022	3
19	MP1A	X	-67.669	2
20	MP1A	Z	39.069	2
21	MP1A	Mx	.03	2
22	MP1A	X	-67.669	5
23	MP1A	Z	39.069	5
24	MP1A	Mx	.03	5
25	MP5A	X	-67.669	2
26	MP5A	Z	39.069	2
27	MP5A	Mx	.03	2
28	MP5A	X	-67.669	5
29	MP5A	Z	39.069	5
30	MP5A	Mx	.03	5
31	MP4A	X	-129.737	1
32	MP4A	Z	74.904	1
33	MP4A	Mx	.114	1
34	MP4A	X	-129.737	6
35	MP4A	Z	74.904	6
36	MP4A	Mx	.114	6
37	MP4A	X	-129.737	1
38	MP4A	Z	74.904	1
39	MP4A	Mx	.001	1
40	MP4A	X	-129.737	6
41	MP4A	Z	74.904	6
42	MP4A	Mx	.001	6
43	M15	X	-111.509	1
44	M15	Z	64.38	1
45	M15	Mx	0	1

A Ya Vyf Dc]bh @ UXg f6 @ '%&. 5 bhYbbUK c fB+\$'8 Y[tL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.076	4
2	MP2A	Z	0	4
3	MP2A	Mx	.004	4
4	MP3A	X	-39.665	1
5	MP3A	Z	0	1
6	MP3A	Mx	.02	1



A Ya VYf Dc]bh @ UXg f6 @ % : ' 5 bhYbbUK c fl \$\$\$ ' 8 Y [tL f c bh pi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP4A	X	-9.606	1
11	MP4A	Z	-5.546	1
12	MP4A	Mx	-.005	1
13	MP5A	X	-47.169	3
14	MP5A	Z	-27.233	3
15	MP5A	Mx	-.026	3
16	MP4A	X	-39.689	3
17	MP4A	Z	-22.914	3
18	MP4A	Mx	-.022	3
19	MP1A	X	-65.37	2
20	MP1A	Z	-37.741	2
21	MP1A	Mx	.035	2
22	MP1A	X	-65.37	5
23	MP1A	Z	-37.741	5
24	MP1A	Mx	.035	5
25	MP5A	X	-65.37	2
26	MP5A	Z	-37.741	2
27	MP5A	Mx	.035	2
28	MP5A	X	-65.37	5
29	MP5A	Z	-37.741	5
30	MP5A	Mx	.035	5
31	MP4A	X	-113.222	1
32	MP4A	Z	-65.369	1
33	MP4A	Mx	.035	1
34	MP4A	X	-113.222	6
35	MP4A	Z	-65.369	6
36	MP4A	Mx	.035	6
37	MP4A	X	-113.222	1
38	MP4A	Z	-65.369	1
39	MP4A	Mx	.088	1
40	MP4A	X	-113.222	6
41	MP4A	Z	-65.369	6
42	MP4A	Mx	.088	6
43	M15	X	-130.619	1
44	M15	Z	-75.413	1
45	M15	Mx	0	1

A Ya VYf Dc]bh @ UXg f6 @ % : ' 5 bhYbbUK c fl ' \$ ' 8 Y [tL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-12.239	4
2	MP2A	Z	-21.199	4
3	MP2A	Mx	.008	4
4	MP3A	X	-36.224	1
5	MP3A	Z	-62.742	1
6	MP3A	Mx	.023	1
7	MP3A	X	-36.224	3
8	MP3A	Z	-62.742	3
9	MP3A	Mx	.023	3
10	MP4A	X	-6.649	1
11	MP4A	Z	-11.516	1
12	MP4A	Mx	-.004	1

A Ya Vyf Dc jbh @ UXg f6 @ ' % . ' 5 bhYbb UK j f \$ ' 8 Y f LL f7 cb j bi Y XL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
16	MP4A	X	0	3
17	MP4A	Z	-15.479	3
18	MP4A	Mx	-.001	3
19	MP1A	X	0	2
20	MP1A	Z	-16.229	2
21	MP1A	Mx	.001	2
22	MP1A	X	0	5
23	MP1A	Z	-16.229	5
24	MP1A	Mx	.001	5
25	MP5A	X	0	2
26	MP5A	Z	-16.229	2
27	MP5A	Mx	.001	2
28	MP5A	X	0	5
29	MP5A	Z	-16.229	5
30	MP5A	Mx	.001	5
31	MP4A	X	0	1
32	MP4A	Z	-34.698	1
33	MP4A	Mx	-.017	1
34	MP4A	X	0	6
35	MP4A	Z	-34.698	6
36	MP4A	Mx	-.017	6
37	MP4A	X	0	1
38	MP4A	Z	-34.698	1
39	MP4A	Mx	.023	1
40	MP4A	X	0	6
41	MP4A	Z	-34.698	6
42	MP4A	Mx	.023	6
43	M15	X	0	1
44	M15	Z	-31.429	1
45	M15	Mx	0	1

A Ya Vyf Dc jbh @ UXg f6 @ ' % . ' 5 bhYbb UK j f \$ ' 8 Y f LL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	3.7	4
2	MP2A	Z	-6.408	4
3	MP2A	Mx	-.001	4
4	MP3A	X	8.685	1
5	MP3A	Z	-15.044	1
6	MP3A	Mx	-.003	1
7	MP3A	X	8.685	3
8	MP3A	Z	-15.044	3
9	MP3A	Mx	-.003	3
10	MP4A	X	1.839	1
11	MP4A	Z	-3.186	1
12	MP4A	Mx	.000629	1
13	MP5A	X	7.559	3
14	MP5A	Z	-13.093	3
15	MP5A	Mx	.003	3
16	MP4A	X	7.453	3
17	MP4A	Z	-12.909	3
18	MP4A	Mx	.003	3



Company : Maser Consulting
 Designer : AJH
 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

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A Ya Vyf Dc]bh @ UXg f6 @ % . ' 5 bhYbbUK]ft \$'8 Yt H'f7 cb]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP1A	X	13.281	5
23	MP1A	Z	-7.668	5
24	MP1A	Mx	-.006	5
25	MP5A	X	13.281	2
26	MP5A	Z	-7.668	2
27	MP5A	Mx	-.006	2
28	MP5A	X	13.281	5
29	MP5A	Z	-7.668	5
30	MP5A	Mx	-.006	5
31	MP4A	X	24.672	1
32	MP4A	Z	-14.244	1
33	MP4A	Mx	-.022	1
34	MP4A	X	24.672	6
35	MP4A	Z	-14.244	6
36	MP4A	Mx	-.022	6
37	MP4A	X	24.672	1
38	MP4A	Z	-14.244	1
39	MP4A	Mx	-.00023	1
40	MP4A	X	24.672	6
41	MP4A	Z	-14.244	6
42	MP4A	Mx	-.00023	6
43	M15	X	22.016	1
44	M15	Z	-12.711	1
45	M15	Mx	0	1

A Ya Vyf Dc]bh @ UXg f6 @ % . ' 5 bhYbbUK]ft \$'8 Yt H'

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.527	4
2	MP2A	Z	0	4
3	MP2A	Mx	-.001	4
4	MP3A	X	8.241	1
5	MP3A	Z	0	1
6	MP3A	Mx	-.004	1
7	MP3A	X	8.241	3
8	MP3A	Z	0	3
9	MP3A	Mx	-.004	3
10	MP4A	X	2.869	1
11	MP4A	Z	0	1
12	MP4A	Mx	.001	1
13	MP5A	X	11.04	3
14	MP5A	Z	0	3
15	MP5A	Mx	.005	3
16	MP4A	X	9.278	3
17	MP4A	Z	0	3
18	MP4A	Mx	.005	3
19	MP1A	X	14.721	2
20	MP1A	Z	0	2
21	MP1A	Mx	-.007	2
22	MP1A	X	14.721	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.007	5



A Ya Vyf Dc jbh @ UXg f6 @ % : 5 bhYbbUK jft \$ 8 Yt H f7 cbjbi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP5A	X	14.721	2
26	MP5A	Z	0	2
27	MP5A	Mx	-.007	2
28	MP5A	X	14.721	5
29	MP5A	Z	0	5
30	MP5A	Mx	-.007	5
31	MP4A	X	24.217	1
32	MP4A	Z	0	1
33	MP4A	Mx	-.014	1
34	MP4A	X	24.217	6
35	MP4A	Z	0	6
36	MP4A	Mx	-.014	6
37	MP4A	X	24.217	1
38	MP4A	Z	0	1
39	MP4A	Mx	-.009	1
40	MP4A	X	24.217	6
41	MP4A	Z	0	6
42	MP4A	Mx	-.009	6
43	M15	X	26.033	1
44	M15	Z	0	1
45	M15	Mx	0	1

A Ya Vyf Dc jbh @ UXg f6 @ % : 5 bhYbbUK jft \$ 8 Yt H

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.618	4
2	MP2A	Z	1.512	4
3	MP2A	Mx	-.001	4
4	MP3A	X	7.942	1
5	MP3A	Z	4.585	1
6	MP3A	Mx	-.004	1
7	MP3A	X	7.942	3
8	MP3A	Z	4.585	3
9	MP3A	Mx	-.004	3
10	MP4A	X	2.556	1
11	MP4A	Z	1.476	1
12	MP4A	Mx	.001	1
13	MP5A	X	9.921	3
14	MP5A	Z	5.728	3
15	MP5A	Mx	.005	3
16	MP4A	X	8.531	3
17	MP4A	Z	4.926	3
18	MP4A	Mx	.005	3
19	MP1A	X	12.87	2
20	MP1A	Z	7.43	2
21	MP1A	Mx	-.007	2
22	MP1A	X	12.87	5
23	MP1A	Z	7.43	5
24	MP1A	Mx	-.007	5
25	MP5A	X	12.87	2
26	MP5A	Z	7.43	2
27	MP5A	Mx	-.007	2



A Ya Vyf'Dc]bhi@UXg'f6 @ '% : '5 bhYbbUK]fP\$'8 Yf Lf'f7 cbh]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP5A	X	12.87	5
29	MP5A	Z	7.43	5
30	MP5A	Mx	-.007	5
31	MP4A	X	21.811	1
32	MP4A	Z	12.593	1
33	MP4A	Mx	-.007	1
34	MP4A	X	21.811	6
35	MP4A	Z	12.593	6
36	MP4A	Mx	-.007	6
37	MP4A	X	21.811	1
38	MP4A	Z	12.593	1
39	MP4A	Mx	-.017	1
40	MP4A	X	21.811	6
41	MP4A	Z	12.593	6
42	MP4A	Mx	-.017	6
43	M15	X	25.411	1
44	M15	Z	14.671	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @ '&\$: '5 bhYbbUK]fP\$'8 Yf Lf

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.854	4
2	MP2A	Z	4.943	4
3	MP2A	Mx	-.002	4
4	MP3A	X	7.1	1
5	MP3A	Z	12.298	1
6	MP3A	Mx	-.005	1
7	MP3A	X	7.1	3
8	MP3A	Z	12.298	3
9	MP3A	Mx	-.005	3
10	MP4A	X	1.699	1
11	MP4A	Z	2.942	1
12	MP4A	Mx	.001	1
13	MP5A	X	6.851	3
14	MP5A	Z	11.866	3
15	MP5A	Mx	.004	3
16	MP4A	X	6.476	3
17	MP4A	Z	11.216	3
18	MP4A	Mx	.004	3
19	MP1A	X	7.807	2
20	MP1A	Z	13.522	2
21	MP1A	Mx	-.005	2
22	MP1A	X	7.807	5
23	MP1A	Z	13.522	5
24	MP1A	Mx	-.005	5
25	MP5A	X	7.807	2
26	MP5A	Z	13.522	2
27	MP5A	Mx	-.005	2
28	MP5A	X	7.807	5
29	MP5A	Z	13.522	5
30	MP5A	Mx	-.005	5



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A Ya Vyf'Dc]bhi@UXg'f6 @' &\$: '5 bhYbbUK]fP) \$'8 Yl L'f7 cbh]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP4A	X	15.213	1
32	MP4A	Z	26.349	1
33	MP4A	Mx	.004	1
34	MP4A	X	15.213	6
35	MP4A	Z	26.349	6
36	MP4A	Mx	.004	6
37	MP4A	X	15.213	1
38	MP4A	Z	26.349	1
39	MP4A	Mx	-.023	1
40	MP4A	X	15.213	6
41	MP4A	Z	26.349	6
42	MP4A	Mx	-.023	6
43	M15	X	16.02	1
44	M15	Z	27.748	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @' &% '5 bhYbbUK]fP) \$'8 Yl L

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	4
2	MP2A	Z	7.896	4
3	MP2A	Mx	-.000686	4
4	MP3A	X	0	1
5	MP3A	Z	18.3	1
6	MP3A	Mx	-.002	1
7	MP3A	X	0	3
8	MP3A	Z	18.3	3
9	MP3A	Mx	-.002	3
10	MP4A	X	0	1
11	MP4A	Z	3.761	1
12	MP4A	Mx	.000327	1
13	MP5A	X	0	3
14	MP5A	Z	15.533	3
15	MP5A	Mx	.001	3
16	MP4A	X	0	3
17	MP4A	Z	15.479	3
18	MP4A	Mx	.001	3
19	MP1A	X	0	2
20	MP1A	Z	16.229	2
21	MP1A	Mx	-.001	2
22	MP1A	X	0	5
23	MP1A	Z	16.229	5
24	MP1A	Mx	-.001	5
25	MP5A	X	0	2
26	MP5A	Z	16.229	2
27	MP5A	Mx	-.001	2
28	MP5A	X	0	5
29	MP5A	Z	16.229	5
30	MP5A	Mx	-.001	5
31	MP4A	X	0	1
32	MP4A	Z	34.698	1
33	MP4A	Mx	.017	1



A Ya Vyf'Dc]bh@UXg'f6 @ '&% '5 bhYbbUK]fB%\$ '8 Yl L'f'7 cbh]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP4A	X	0	6
35	MP4A	Z	34.698	6
36	MP4A	Mx	.017	6
37	MP4A	X	0	1
38	MP4A	Z	34.698	1
39	MP4A	Mx	-.023	1
40	MP4A	X	0	6
41	MP4A	Z	34.698	6
42	MP4A	Mx	-.023	6
43	M15	X	0	1
44	M15	Z	31.429	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bh@UXg'f6 @ '&%'5 bhYbbUK]fB%\$ '8 Yl L

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-3.7	4
2	MP2A	Z	6.408	4
3	MP2A	Mx	.001	4
4	MP3A	X	-8.685	1
5	MP3A	Z	15.044	1
6	MP3A	Mx	.003	1
7	MP3A	X	-8.685	3
8	MP3A	Z	15.044	3
9	MP3A	Mx	.003	3
10	MP4A	X	-1.839	1
11	MP4A	Z	3.186	1
12	MP4A	Mx	-.000629	1
13	MP5A	X	-7.559	3
14	MP5A	Z	13.093	3
15	MP5A	Mx	-.003	3
16	MP4A	X	-7.453	3
17	MP4A	Z	12.909	3
18	MP4A	Mx	-.003	3
19	MP1A	X	-8.045	2
20	MP1A	Z	13.934	2
21	MP1A	Mx	.003	2
22	MP1A	X	-8.045	5
23	MP1A	Z	13.934	5
24	MP1A	Mx	.003	5
25	MP5A	X	-8.045	2
26	MP5A	Z	13.934	2
27	MP5A	Mx	.003	2
28	MP5A	X	-8.045	5
29	MP5A	Z	13.934	5
30	MP5A	Mx	.003	5
31	MP4A	X	-16.865	1
32	MP4A	Z	29.211	1
33	MP4A	Mx	.024	1
34	MP4A	X	-16.865	6
35	MP4A	Z	29.211	6
36	MP4A	Mx	.024	6



A Ya Vyf'Dc]bh@UXg f6 @ '&'. '5 bhYbbUK]fB:\$'8 Y] tL'f7 cb]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP4A	X	-16.865	1
38	MP4A	Z	29.211	1
39	MP4A	Mx	-.013	1
40	MP4A	X	-16.865	6
41	MP4A	Z	29.211	6
42	MP4A	Mx	-.013	6
43	M15	X	-14.06	1
44	M15	Z	24.352	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bh@UXg f6 @ '&' . '5 bhYbbUK]fB(\$'8 Y] tL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.084	4
2	MP2A	Z	2.358	4
3	MP2A	Mx	.002	4
4	MP3A	X	-10.688	1
5	MP3A	Z	6.171	1
6	MP3A	Mx	.005	1
7	MP3A	X	-10.688	3
8	MP3A	Z	6.171	3
9	MP3A	Mx	.005	3
10	MP4A	X	-2.799	1
11	MP4A	Z	1.616	1
12	MP4A	Mx	-.001	1
13	MP5A	X	-11.147	3
14	MP5A	Z	6.436	3
15	MP5A	Mx	-.005	3
16	MP4A	X	-10.224	3
17	MP4A	Z	5.903	3
18	MP4A	Mx	-.005	3
19	MP1A	X	-13.281	2
20	MP1A	Z	7.668	2
21	MP1A	Mx	.006	2
22	MP1A	X	-13.281	5
23	MP1A	Z	7.668	5
24	MP1A	Mx	.006	5
25	MP5A	X	-13.281	2
26	MP5A	Z	7.668	2
27	MP5A	Mx	.006	2
28	MP5A	X	-13.281	5
29	MP5A	Z	7.668	5
30	MP5A	Mx	.006	5
31	MP4A	X	-24.672	1
32	MP4A	Z	14.244	1
33	MP4A	Mx	.022	1
34	MP4A	X	-24.672	6
35	MP4A	Z	14.244	6
36	MP4A	Mx	.022	6
37	MP4A	X	-24.672	1
38	MP4A	Z	14.244	1
39	MP4A	Mx	.0023	1



A Ya Vyf'Dc]bh@UXg'f6 @ '&' . '5 bhYbbUK]fB(\$'8 Yl k'f7 cbh]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
40	MP4A	X	-24.672	6
41	MP4A	Z	14.244	6
42	MP4A	Mx	.00023	6
43	M15	X	-22.016	1
44	M15	Z	12.711	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bh@UXg'f6 @ '&' . '5 bhYbbUK]fB+\$'8 Yl k'

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.527	4
2	MP2A	Z	0	4
3	MP2A	Mx	.001	4
4	MP3A	X	-8.241	1
5	MP3A	Z	0	1
6	MP3A	Mx	.004	1
7	MP3A	X	-8.241	3
8	MP3A	Z	0	3
9	MP3A	Mx	.004	3
10	MP4A	X	-2.869	1
11	MP4A	Z	0	1
12	MP4A	Mx	-.001	1
13	MP5A	X	-11.04	3
14	MP5A	Z	0	3
15	MP5A	Mx	-.005	3
16	MP4A	X	-9.278	3
17	MP4A	Z	0	3
18	MP4A	Mx	-.005	3
19	MP1A	X	-14.721	2
20	MP1A	Z	0	2
21	MP1A	Mx	.007	2
22	MP1A	X	-14.721	5
23	MP1A	Z	0	5
24	MP1A	Mx	.007	5
25	MP5A	X	-14.721	2
26	MP5A	Z	0	2
27	MP5A	Mx	.007	2
28	MP5A	X	-14.721	5
29	MP5A	Z	0	5
30	MP5A	Mx	.007	5
31	MP4A	X	-24.217	1
32	MP4A	Z	0	1
33	MP4A	Mx	.014	1
34	MP4A	X	-24.217	6
35	MP4A	Z	0	6
36	MP4A	Mx	.014	6
37	MP4A	X	-24.217	1
38	MP4A	Z	0	1
39	MP4A	Mx	.009	1
40	MP4A	X	-24.217	6
41	MP4A	Z	0	6
42	MP4A	Mx	.009	6



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A Ya Vyf'Dc]bhi@UXg'f6 @ '&(' : '5 bhYbbUK]fB+\$'8 Yl £'f7 cbh]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	M15	X	-26.033	1
44	M15	Z	0	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @ '&(' : '5 bhYbbUK]fi \$\$'8 Yl £

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.618	4
2	MP2A	Z	-1.512	4
3	MP2A	Mx	.001	4
4	MP3A	X	-7.942	1
5	MP3A	Z	-4.585	1
6	MP3A	Mx	.004	1
7	MP3A	X	-7.942	3
8	MP3A	Z	-4.585	3
9	MP3A	Mx	.004	3
10	MP4A	X	-2.556	1
11	MP4A	Z	-1.476	1
12	MP4A	Mx	-.001	1
13	MP5A	X	-9.921	3
14	MP5A	Z	-5.728	3
15	MP5A	Mx	-.005	3
16	MP4A	X	-8.531	3
17	MP4A	Z	-4.926	3
18	MP4A	Mx	-.005	3
19	MP1A	X	-12.87	2
20	MP1A	Z	-7.43	2
21	MP1A	Mx	.007	2
22	MP1A	X	-12.87	5
23	MP1A	Z	-7.43	5
24	MP1A	Mx	.007	5
25	MP5A	X	-12.87	2
26	MP5A	Z	-7.43	2
27	MP5A	Mx	.007	2
28	MP5A	X	-12.87	5
29	MP5A	Z	-7.43	5
30	MP5A	Mx	.007	5
31	MP4A	X	-21.811	1
32	MP4A	Z	-12.593	1
33	MP4A	Mx	.007	1
34	MP4A	X	-21.811	6
35	MP4A	Z	-12.593	6
36	MP4A	Mx	.007	6
37	MP4A	X	-21.811	1
38	MP4A	Z	-12.593	1
39	MP4A	Mx	.017	1
40	MP4A	X	-21.811	6
41	MP4A	Z	-12.593	6
42	MP4A	Mx	.017	6
43	M15	X	-25.411	1
44	M15	Z	-14.671	1
45	M15	Mx	0	1



A Ya Vyf'Dc]bhi@UXg'f6 @ '&*. '5 bhYbbUK]fi ' \$'8 Y] £

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.854	4
2	MP2A	Z	-4.943	4
3	MP2A	Mx	.002	4
4	MP3A	X	-7.1	1
5	MP3A	Z	-12.298	1
6	MP3A	Mx	.005	1
7	MP3A	X	-7.1	3
8	MP3A	Z	-12.298	3
9	MP3A	Mx	.005	3
10	MP4A	X	-1.699	1
11	MP4A	Z	-2.942	1
12	MP4A	Mx	-.001	1
13	MP5A	X	-6.851	3
14	MP5A	Z	-11.866	3
15	MP5A	Mx	-.004	3
16	MP4A	X	-6.476	3
17	MP4A	Z	-11.216	3
18	MP4A	Mx	-.004	3
19	MP1A	X	-7.807	2
20	MP1A	Z	-13.522	2
21	MP1A	Mx	.005	2
22	MP1A	X	-7.807	5
23	MP1A	Z	-13.522	5
24	MP1A	Mx	.005	5
25	MP5A	X	-7.807	2
26	MP5A	Z	-13.522	2
27	MP5A	Mx	.005	2
28	MP5A	X	-7.807	5
29	MP5A	Z	-13.522	5
30	MP5A	Mx	.005	5
31	MP4A	X	-15.213	1
32	MP4A	Z	-26.349	1
33	MP4A	Mx	-.004	1
34	MP4A	X	-15.213	6
35	MP4A	Z	-26.349	6
36	MP4A	Mx	-.004	6
37	MP4A	X	-15.213	1
38	MP4A	Z	-26.349	1
39	MP4A	Mx	.023	1
40	MP4A	X	-15.213	6
41	MP4A	Z	-26.349	6
42	MP4A	Mx	.023	6
43	M15	X	-16.02	1
44	M15	Z	-27.748	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @ '&*. '5 bhYbbUK a 'f\$'8 Y] £

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	4
2	MP2A	Z	-2.198	4
3	MP2A	Mx	.000191	4



A Ya Vyf'Dc]bh@UXg'f6 @ '& . '5 bhYbbUK a 'fl \$'8 Y] 4'f7 cb]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP3A	X	2.763	3
8	MP3A	Z	-4.785	3
9	MP3A	Mx	-.000945	3
10	MP4A	X	.451	1
11	MP4A	Z	-.782	1
12	MP4A	Mx	.000154	1
13	MP5A	X	2.275	3
14	MP5A	Z	-3.941	3
15	MP5A	Mx	.000778	3
16	MP4A	X	2.24	3
17	MP4A	Z	-3.88	3
18	MP4A	Mx	.000766	3
19	MP1A	X	2.531	2
20	MP1A	Z	-4.384	2
21	MP1A	Mx	-.000866	2
22	MP1A	X	2.531	5
23	MP1A	Z	-4.384	5
24	MP1A	Mx	-.000866	5
25	MP5A	X	2.531	2
26	MP5A	Z	-4.384	2
27	MP5A	Mx	-.000866	2
28	MP5A	X	2.531	5
29	MP5A	Z	-4.384	5
30	MP5A	Mx	-.000866	5
31	MP4A	X	5.534	1
32	MP4A	Z	-9.585	1
33	MP4A	Mx	-.008	1
34	MP4A	X	5.534	6
35	MP4A	Z	-9.585	6
36	MP4A	Mx	-.008	6
37	MP4A	X	5.534	1
38	MP4A	Z	-9.585	1
39	MP4A	Mx	.004	1
40	MP4A	X	5.534	6
41	MP4A	Z	-9.585	6
42	MP4A	Mx	.004	6
43	M15	X	4.424	1
44	M15	Z	-7.663	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bh@UXg'f6 @ '& . '5 bhYbbUK a 'ff \$'8 Y] 4

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	1.031	4
2	MP2A	Z	-.595	4
3	MP2A	Mx	-.000456	4
4	MP3A	X	3.312	1
5	MP3A	Z	-1.912	1
6	MP3A	Mx	-.001	1
7	MP3A	X	3.312	3
8	MP3A	Z	-1.912	3
9	MP3A	Mx	-.001	3



Company : Maser Consulting
 Designer : AJH
 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
 4:23 PM
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A Ya VYf'Dc]bh@UXg'f6 @ '&'. '5 bhYbbUK a 'ft'\$'8 Y] 4'f' cb]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP4A	X	.665	1
11	MP4A	Z	-.384	1
12	MP4A	Mx	.000294	1
13	MP5A	X	3.302	3
14	MP5A	Z	-1.906	3
15	MP5A	Mx	.001	3
16	MP4A	X	2.997	3
17	MP4A	Z	-1.73	3
18	MP4A	Mx	.001	3
19	MP1A	X	4.16	2
20	MP1A	Z	-2.402	2
21	MP1A	Mx	-.002	2
22	MP1A	X	4.16	5
23	MP1A	Z	-2.402	5
24	MP1A	Mx	-.002	5
25	MP5A	X	4.16	2
26	MP5A	Z	-2.402	2
27	MP5A	Mx	-.002	2
28	MP5A	X	4.16	5
29	MP5A	Z	-2.402	5
30	MP5A	Mx	-.002	5
31	MP4A	X	7.975	1
32	MP4A	Z	-4.604	1
33	MP4A	Mx	-.007	1
34	MP4A	X	7.975	6
35	MP4A	Z	-4.604	6
36	MP4A	Mx	-.007	6
37	MP4A	X	7.975	1
38	MP4A	Z	-4.604	1
39	MP4A	Mx	-7.4e-5	1
40	MP4A	X	7.975	6
41	MP4A	Z	-4.604	6
42	MP4A	Mx	-7.4e-5	6
43	M15	X	6.855	1
44	M15	Z	-3.958	1
45	M15	Mx	0	1

A Ya VYf'Dc]bh@UXg'f6 @ "'\$. '5 bhYbbUK a 'ft'\$'8 Y] 4

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	.496	4
2	MP2A	Z	0	4
3	MP2A	Mx	-.000244	4
4	MP3A	X	2.438	1
5	MP3A	Z	0	1
6	MP3A	Mx	-.001	1
7	MP3A	X	2.438	3
8	MP3A	Z	0	3
9	MP3A	Mx	-.001	3
10	MP4A	X	.657	1
11	MP4A	Z	0	1
12	MP4A	Mx	.000324	1



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Sept 1, 2021
 4:23 PM
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A Ya Vyf Dc]bhi @ UXg f6 @ ' '\$: '5 bhYbbUK a 'ft \$'8 Y] t f' cb]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP5A	X	3.212	3
14	MP5A	Z	0	3
15	MP5A	Mx	.002	3
16	MP4A	X	2.629	3
17	MP4A	Z	0	3
18	MP4A	Mx	.001	3
19	MP1A	X	4.592	2
20	MP1A	Z	0	2
21	MP1A	Mx	-.002	2
22	MP1A	X	4.592	5
23	MP1A	Z	0	5
24	MP1A	Mx	-.002	5
25	MP5A	X	4.592	2
26	MP5A	Z	0	2
27	MP5A	Mx	-.002	2
28	MP5A	X	4.592	5
29	MP5A	Z	0	5
30	MP5A	Mx	-.002	5
31	MP4A	X	7.693	1
32	MP4A	Z	0	1
33	MP4A	Mx	-.005	1
34	MP4A	X	7.693	6
35	MP4A	Z	0	6
36	MP4A	Mx	-.005	6
37	MP4A	X	7.693	1
38	MP4A	Z	0	1
39	MP4A	Mx	-.003	1
40	MP4A	X	7.693	6
41	MP4A	Z	0	6
42	MP4A	Mx	-.003	6
43	M15	X	8.127	1
44	M15	Z	0	1
45	M15	Mx	0	1

A Ya Vyf Dc]bhi @ UXg f6 @ ' '\$: '5 bhYbbUK a 'fp & \$'8 Y] t

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	.566	4
2	MP2A	Z	.327	4
3	MP2A	Mx	-.000307	4
4	MP3A	X	2.384	1
5	MP3A	Z	1.376	1
6	MP3A	Mx	-.001	1
7	MP3A	X	2.384	3
8	MP3A	Z	1.376	3
9	MP3A	Mx	-.001	3
10	MP4A	X	.59	1
11	MP4A	Z	.341	1
12	MP4A	Mx	.00032	1
13	MP5A	X	2.9	3
14	MP5A	Z	1.674	3
15	MP5A	Mx	.002	3



A Ya Vyf'Dc]bhi@UXg'f6 @ ' ' % . 5 bhYbbUK a 'fP\$'8 Y[H'f' c b]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4A	X	2.44	3
17	MP4A	Z	1.409	3
18	MP4A	Mx	.001	3
19	MP1A	X	4.018	2
20	MP1A	Z	2.32	2
21	MP1A	Mx	-.002	2
22	MP1A	X	4.018	5
23	MP1A	Z	2.32	5
24	MP1A	Mx	-.002	5
25	MP5A	X	4.018	2
26	MP5A	Z	2.32	2
27	MP5A	Mx	-.002	2
28	MP5A	X	4.018	5
29	MP5A	Z	2.32	5
30	MP5A	Mx	-.002	5
31	MP4A	X	6.96	1
32	MP4A	Z	4.018	1
33	MP4A	Mx	-.002	1
34	MP4A	X	6.96	6
35	MP4A	Z	4.018	6
36	MP4A	Mx	-.002	6
37	MP4A	X	6.96	1
38	MP4A	Z	4.018	1
39	MP4A	Mx	-.005	1
40	MP4A	X	6.96	6
41	MP4A	Z	4.018	6
42	MP4A	Mx	-.005	6
43	M15	X	8.029	1
44	M15	Z	4.636	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @ ' ' & . 5 bhYbbUK a 'fP\$'8 Y[H

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	.752	4
2	MP2A	Z	1.303	4
3	MP2A	Mx	-.000483	4
4	MP3A	X	2.227	1
5	MP3A	Z	3.857	1
6	MP3A	Mx	-.001	1
7	MP3A	X	2.227	3
8	MP3A	Z	3.857	3
9	MP3A	Mx	-.001	3
10	MP4A	X	.409	1
11	MP4A	Z	.708	1
12	MP4A	Mx	.000263	1
13	MP5A	X	2.043	3
14	MP5A	Z	3.538	3
15	MP5A	Mx	.001	3
16	MP4A	X	1.919	3
17	MP4A	Z	3.323	3
18	MP4A	Mx	.001	3

A Ya Vyf Dc]bh@UXg f6 @ ' &. ' 5 bhYbbUK a fl% \$ '8 Y] 4L'f' cb]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
19	MP1A	X	2.449	2
20	MP1A	Z	4.243	2
21	MP1A	Mx	-.002	2
22	MP1A	X	2.449	5
23	MP1A	Z	4.243	5
24	MP1A	Mx	-.002	5
25	MP5A	X	2.449	2
26	MP5A	Z	4.243	2
27	MP5A	Mx	-.002	2
28	MP5A	X	2.449	5
29	MP5A	Z	4.243	5
30	MP5A	Mx	-.002	5
31	MP4A	X	4.948	1
32	MP4A	Z	8.57	1
33	MP4A	Mx	.001	1
34	MP4A	X	4.948	6
35	MP4A	Z	8.57	6
36	MP4A	Mx	.001	6
37	MP4A	X	4.948	1
38	MP4A	Z	8.57	1
39	MP4A	Mx	-.008	1
40	MP4A	X	4.948	6
41	MP4A	Z	8.57	6
42	MP4A	Mx	-.008	6
43	M15	X	5.102	1
44	M15	Z	8.838	1
45	M15	Mx	0	1

A Ya Vyf Dc]bh@UXg f6 @ ' ' ' . ' 5 bhYbbUK a fl% \$ '8 Y] 4L

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	4
2	MP2A	Z	2.198	4
3	MP2A	Mx	-.000191	4
4	MP3A	X	0	1
5	MP3A	Z	5.84	1
6	MP3A	Mx	-.000507	1
7	MP3A	X	0	3
8	MP3A	Z	5.84	3
9	MP3A	Mx	-.000507	3
10	MP4A	X	0	1
11	MP4A	Z	.928	1
12	MP4A	Mx	8.1e-5	1
13	MP5A	X	0	3
14	MP5A	Z	4.687	3
15	MP5A	Mx	.000407	3
16	MP4A	X	0	3
17	MP4A	Z	4.669	3
18	MP4A	Mx	.000405	3
19	MP1A	X	0	2
20	MP1A	Z	5.11	2
21	MP1A	Mx	-.000444	2



Company : Maser Consulting
 Designer : AJH
 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
 4:23 PM
 Checked By: _____

A Ya Vyf'Dc]bhi@UXg'f6 @ ' ' ' .5 bhYbbUK a 'f% \$'8 Y] t'f' c b]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP1A	X	0	5
23	MP1A	Z	5.11	5
24	MP1A	Mx	-.000444	5
25	MP5A	X	0	2
26	MP5A	Z	5.11	2
27	MP5A	Mx	-.000444	2
28	MP5A	X	0	5
29	MP5A	Z	5.11	5
30	MP5A	Mx	-.000444	5
31	MP4A	X	0	1
32	MP4A	Z	11.412	1
33	MP4A	Mx	.006	1
34	MP4A	X	0	6
35	MP4A	Z	11.412	6
36	MP4A	Mx	.006	6
37	MP4A	X	0	1
38	MP4A	Z	11.412	1
39	MP4A	Mx	-.008	1
40	MP4A	X	0	6
41	MP4A	Z	11.412	6
42	MP4A	Mx	-.008	6
43	M15	X	0	1
44	M15	Z	9.993	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @ ' (.5 bhYbbUK a 'f% \$'8 Y] t

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-1.021	4
2	MP2A	Z	1.768	4
3	MP2A	Mx	.000349	4
4	MP3A	X	-2.763	1
5	MP3A	Z	4.785	1
6	MP3A	Mx	.000945	1
7	MP3A	X	-2.763	3
8	MP3A	Z	4.785	3
9	MP3A	Mx	.000945	3
10	MP4A	X	-.451	1
11	MP4A	Z	.782	1
12	MP4A	Mx	-.000154	1
13	MP5A	X	-2.275	3
14	MP5A	Z	3.941	3
15	MP5A	Mx	-.000778	3
16	MP4A	X	-2.24	3
17	MP4A	Z	3.88	3
18	MP4A	Mx	-.000766	3
19	MP1A	X	-2.531	2
20	MP1A	Z	4.384	2
21	MP1A	Mx	.000866	2
22	MP1A	X	-2.531	5
23	MP1A	Z	4.384	5
24	MP1A	Mx	.000866	5



A Ya Vyf'Dc]bh@UXg'f6 @ ' (: '5 bhYbbUK a 'fB\$'8 Y] H'f' c b]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP5A	X	-2.531	2
26	MP5A	Z	4.384	2
27	MP5A	Mx	.000866	2
28	MP5A	X	-2.531	5
29	MP5A	Z	4.384	5
30	MP5A	Mx	.000866	5
31	MP4A	X	-5.534	1
32	MP4A	Z	9.585	1
33	MP4A	Mx	.008	1
34	MP4A	X	-5.534	6
35	MP4A	Z	9.585	6
36	MP4A	Mx	.008	6
37	MP4A	X	-5.534	1
38	MP4A	Z	9.585	1
39	MP4A	Mx	-.004	1
40	MP4A	X	-5.534	6
41	MP4A	Z	9.585	6
42	MP4A	Mx	-.004	6
43	M15	X	-4.424	1
44	M15	Z	7.663	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bh@UXg'f6 @ ') : '5 bhYbbUK a 'fB(\$'8 Y] H

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-1.031	4
2	MP2A	Z	.595	4
3	MP2A	Mx	.000456	4
4	MP3A	X	-3.312	1
5	MP3A	Z	1.912	1
6	MP3A	Mx	.001	1
7	MP3A	X	-3.312	3
8	MP3A	Z	1.912	3
9	MP3A	Mx	.001	3
10	MP4A	X	-.665	1
11	MP4A	Z	.384	1
12	MP4A	Mx	-.000294	1
13	MP5A	X	-3.302	3
14	MP5A	Z	1.906	3
15	MP5A	Mx	-.001	3
16	MP4A	X	-2.997	3
17	MP4A	Z	1.73	3
18	MP4A	Mx	-.001	3
19	MP1A	X	-4.16	2
20	MP1A	Z	2.402	2
21	MP1A	Mx	.002	2
22	MP1A	X	-4.16	5
23	MP1A	Z	2.402	5
24	MP1A	Mx	.002	5
25	MP5A	X	-4.16	2
26	MP5A	Z	2.402	2
27	MP5A	Mx	.002	2



Company : Maser Consulting
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 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
 4:23 PM
 Checked By: _____

A Ya Vyf'Dc]bhi@UXg'f6 @') : '5 bhYbbUK a 'fB(\$'8 Y] H'f' cbi]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP5A	X	-4.16	5
29	MP5A	Z	2.402	5
30	MP5A	Mx	.002	5
31	MP4A	X	-7.975	1
32	MP4A	Z	4.604	1
33	MP4A	Mx	.007	1
34	MP4A	X	-7.975	6
35	MP4A	Z	4.604	6
36	MP4A	Mx	.007	6
37	MP4A	X	-7.975	1
38	MP4A	Z	4.604	1
39	MP4A	Mx	7.4e-5	1
40	MP4A	X	-7.975	6
41	MP4A	Z	4.604	6
42	MP4A	Mx	7.4e-5	6
43	M15	X	-6.855	1
44	M15	Z	3.958	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @' * : '5 bhYbbUK a 'fB+\$'8 Y] H

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-.496	4
2	MP2A	Z	0	4
3	MP2A	Mx	.000244	4
4	MP3A	X	-2.438	1
5	MP3A	Z	0	1
6	MP3A	Mx	.001	1
7	MP3A	X	-2.438	3
8	MP3A	Z	0	3
9	MP3A	Mx	.001	3
10	MP4A	X	-.657	1
11	MP4A	Z	0	1
12	MP4A	Mx	-.000324	1
13	MP5A	X	-3.212	3
14	MP5A	Z	0	3
15	MP5A	Mx	-.002	3
16	MP4A	X	-2.629	3
17	MP4A	Z	0	3
18	MP4A	Mx	-.001	3
19	MP1A	X	-4.592	2
20	MP1A	Z	0	2
21	MP1A	Mx	.002	2
22	MP1A	X	-4.592	5
23	MP1A	Z	0	5
24	MP1A	Mx	.002	5
25	MP5A	X	-4.592	2
26	MP5A	Z	0	2
27	MP5A	Mx	.002	2
28	MP5A	X	-4.592	5
29	MP5A	Z	0	5
30	MP5A	Mx	.002	5



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Sept 1, 2021
 4:23 PM
 Checked By: _____

A Ya Vyf'Dc]bhi@UXg'f6 @ ' * : '5 bhYbbUK a 'fB+\$'8 Y[H'f' c b]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP4A	X	-7.693	1
32	MP4A	Z	0	1
33	MP4A	Mx	.005	1
34	MP4A	X	-7.693	6
35	MP4A	Z	0	6
36	MP4A	Mx	.005	6
37	MP4A	X	-7.693	1
38	MP4A	Z	0	1
39	MP4A	Mx	.003	1
40	MP4A	X	-7.693	6
41	MP4A	Z	0	6
42	MP4A	Mx	.003	6
43	M15	X	-8.127	1
44	M15	Z	0	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bhi@UXg'f6 @ ' + : '5 bhYbbUK a 'fl \$\$'8 Y[H

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-.566	4
2	MP2A	Z	-.327	4
3	MP2A	Mx	.000307	4
4	MP3A	X	-2.384	1
5	MP3A	Z	-1.376	1
6	MP3A	Mx	.001	1
7	MP3A	X	-2.384	3
8	MP3A	Z	-1.376	3
9	MP3A	Mx	.001	3
10	MP4A	X	-.59	1
11	MP4A	Z	-.341	1
12	MP4A	Mx	-.00032	1
13	MP5A	X	-2.9	3
14	MP5A	Z	-1.674	3
15	MP5A	Mx	-.002	3
16	MP4A	X	-2.44	3
17	MP4A	Z	-1.409	3
18	MP4A	Mx	-.001	3
19	MP1A	X	-4.018	2
20	MP1A	Z	-2.32	2
21	MP1A	Mx	.002	2
22	MP1A	X	-4.018	5
23	MP1A	Z	-2.32	5
24	MP1A	Mx	.002	5
25	MP5A	X	-4.018	2
26	MP5A	Z	-2.32	2
27	MP5A	Mx	.002	2
28	MP5A	X	-4.018	5
29	MP5A	Z	-2.32	5
30	MP5A	Mx	.002	5
31	MP4A	X	-6.96	1
32	MP4A	Z	-4.018	1
33	MP4A	Mx	.002	1



A Ya Vyf'Dc]bh@UXg'f6 @ ' ' +: '5 bhYbbUK a 'fl '\$\$'8 Y[H'f' c b]bi YXL

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP4A	X	-6.96	6
35	MP4A	Z	-4.018	6
36	MP4A	Mx	.002	6
37	MP4A	X	-6.96	1
38	MP4A	Z	-4.018	1
39	MP4A	Mx	.005	1
40	MP4A	X	-6.96	6
41	MP4A	Z	-4.018	6
42	MP4A	Mx	.005	6
43	M15	X	-8.029	1
44	M15	Z	-4.636	1
45	M15	Mx	0	1

A Ya Vyf'Dc]bh@UXg'f6 @ ' ' , : '5 bhYbbUK a 'fl' '\$'8 Y[H

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-.752	4
2	MP2A	Z	-1.303	4
3	MP2A	Mx	.000483	4
4	MP3A	X	-2.227	1
5	MP3A	Z	-3.857	1
6	MP3A	Mx	.001	1
7	MP3A	X	-2.227	3
8	MP3A	Z	-3.857	3
9	MP3A	Mx	.001	3
10	MP4A	X	-.409	1
11	MP4A	Z	-.708	1
12	MP4A	Mx	-.000263	1
13	MP5A	X	-2.043	3
14	MP5A	Z	-3.538	3
15	MP5A	Mx	-.001	3
16	MP4A	X	-1.919	3
17	MP4A	Z	-3.323	3
18	MP4A	Mx	-.001	3
19	MP1A	X	-2.449	2
20	MP1A	Z	-4.243	2
21	MP1A	Mx	.002	2
22	MP1A	X	-2.449	5
23	MP1A	Z	-4.243	5
24	MP1A	Mx	.002	5
25	MP5A	X	-2.449	2
26	MP5A	Z	-4.243	2
27	MP5A	Mx	.002	2
28	MP5A	X	-2.449	5
29	MP5A	Z	-4.243	5
30	MP5A	Mx	.002	5
31	MP4A	X	-4.948	1
32	MP4A	Z	-8.57	1
33	MP4A	Mx	-.001	1
34	MP4A	X	-4.948	6
35	MP4A	Z	-8.57	6
36	MP4A	Mx	-.001	6



A Ya VYf Dc]bh @ UXg f6 @ ' , : ' 5 bh Mb UK a ' fl ' \$ ' 8 Y [t f c b] bi YX

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
37	MP4A	X	-4.948	1
38	MP4A	Z	-8.57	1
39	MP4A	Mx	.008	1
40	MP4A	X	-4.948	6
41	MP4A	Z	-8.57	6
42	MP4A	Mx	.008	6
43	M15	X	-5.102	1
44	M15	Z	-8.838	1
45	M15	Mx	0	1

A Ya VYf Dc]bh @ UXg f6 @ ' ++ : ' @ %

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	M3	Y	-500	%57.41

A Ya VYf Dc]bh @ UXg f6 @ ' + , : ' @ &

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	M3	Y	-500	%27

A Ya VYf Dc]bh @ UXg f6 @ ' + - : ' @ %

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	M3	Y	-250	0

A Ya VYf Dc]bh @ UXg f6 @ ' , \$: ' @ &

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
1	M3	Y	-250	%50

A Ya VYf 8]gh] Vi hX @ UXg f6 @ ' (\$: ' Gh i Wi fY 8]

	Member Label	Direction	Start Magnitude [lb/ft, ...]	End Magnitude [lb/ft, F, ...]	Start Location [ft, %]	End Location [ft, %]
1	M1	Y	-9.369	-9.369	0	%100
2	M3	Y	-6.392	-6.392	0	%100
3	MP5A	Y	-4.839	-4.839	0	%100
4	MP4A	Y	-4.839	-4.839	0	%100
5	MP3A	Y	-4.839	-4.839	0	%100
6	MP1A	Y	-4.839	-4.839	0	%100
7	MP2A	Y	-4.839	-4.839	0	%100
8	M15	Y	-4.839	-4.839	0	%100
9	M16	Y	-6.392	-6.392	0	%100
10	M17	Y	-6.392	-6.392	0	%100
11	M18	Y	-7.417	-7.417	0	%100

A Ya VYf 8]gh] Vi hX @ UXg f6 @ ' (% : ' Gh i Wi fY K c ' f6 8 Y [t

	Member Label	Direction	Start Magnitude [lb/ft, ...]	End Magnitude [lb/ft, F, ...]	Start Location [ft, %]	End Location [ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	-14.051	-14.051	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	-9.781	-9.781	0	%100



A Ya VYf'8]glf]Vi hYX' @ UXg'f6 @' (%.'Gfi Wñ fY'K c`f\$'8 Y] H'f' cbl]bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-9.781	-9.781	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-9.781	-9.781	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-9.781	-9.781	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	-9.781	-9.781	0	%100
15	M15	X	0	0	0	%100
16	M15	Z	-8.913	-8.913	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	-9.015	-9.015	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	-14.051	-14.051	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100

A Ya VYf'8]glf]Vi hYX' @ UXg'f6 @' (&.'Gfi Wñ fY'K c`f\$'8 Y] H'

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.611	1.611	0	%100
2	M1	Z	-2.791	-2.791	0	%100
3	M3	X	5.269	5.269	0	%100
4	M3	Z	-9.126	-9.126	0	%100
5	MP5A	X	4.89	4.89	0	%100
6	MP5A	Z	-8.471	-8.471	0	%100
7	MP4A	X	4.89	4.89	0	%100
8	MP4A	Z	-8.471	-8.471	0	%100
9	MP3A	X	4.89	4.89	0	%100
10	MP3A	Z	-8.471	-8.471	0	%100
11	MP1A	X	4.89	4.89	0	%100
12	MP1A	Z	-8.471	-8.471	0	%100
13	MP2A	X	4.89	4.89	0	%100
14	MP2A	Z	-8.471	-8.471	0	%100
15	M15	X	4.457	4.457	0	%100
16	M15	Z	-7.719	-7.719	0	%100
17	M16	X	4.507	4.507	0	%100
18	M16	Z	-7.807	-7.807	0	%100
19	M17	X	5.269	5.269	0	%100
20	M17	Z	-9.126	-9.126	0	%100
21	M18	X	1.283	1.283	0	%100
22	M18	Z	-2.223	-2.223	0	%100

A Ya VYf'8]glf]Vi hYX' @ UXg'f6 @' ('.'Gfi Wñ fY'K c`f\$'8 Y] H'

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	8.372	8.372	0	%100
2	M1	Z	-4.833	-4.833	0	%100
3	M3	X	3.042	3.042	0	%100
4	M3	Z	-1.756	-1.756	0	%100
5	MP5A	X	8.471	8.471	0	%100
6	MP5A	Z	-4.89	-4.89	0	%100
7	MP4A	X	8.471	8.471	0	%100



A Ya VYf'8]gfl]Vi hYX'@UXg'f6 @' (' : 'Gfi Wi fY'Kc`'f \$'8 Y] H'f7 c b]bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
8	MP4A	Z	-4.89	-4.89	0	%100
9	MP3A	X	8.471	8.471	0	%100
10	MP3A	Z	-4.89	-4.89	0	%100
11	MP1A	X	8.471	8.471	0	%100
12	MP1A	Z	-4.89	-4.89	0	%100
13	MP2A	X	8.471	8.471	0	%100
14	MP2A	Z	-4.89	-4.89	0	%100
15	M15	X	7.719	7.719	0	%100
16	M15	Z	-4.457	-4.457	0	%100
17	M16	X	7.807	7.807	0	%100
18	M16	Z	-4.507	-4.507	0	%100
19	M17	X	3.042	3.042	0	%100
20	M17	Z	-1.756	-1.756	0	%100
21	M18	X	6.669	6.669	0	%100
22	M18	Z	-3.85	-3.85	0	%100

A Ya VYf'8]gfl]Vi hYX'@UXg'f6 @' ((: 'Gfi Wi fY'Kc`'f \$'8 Y] H

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	12.889	12.889	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	MP5A	X	9.781	9.781	0	%100
6	MP5A	Z	0	0	0	%100
7	MP4A	X	9.781	9.781	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	9.781	9.781	0	%100
10	MP3A	Z	0	0	0	%100
11	MP1A	X	9.781	9.781	0	%100
12	MP1A	Z	0	0	0	%100
13	MP2A	X	9.781	9.781	0	%100
14	MP2A	Z	0	0	0	%100
15	M15	X	8.913	8.913	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	9.015	9.015	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	10.267	10.267	0	%100
22	M18	Z	0	0	0	%100

A Ya VYf'8]gfl]Vi hYX'@UXg'f6 @' () : 'Gfi Wi fY'Kc`'f \$'8 Y] H

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	8.372	8.372	0	%100
2	M1	Z	4.833	4.833	0	%100
3	M3	X	3.042	3.042	0	%100
4	M3	Z	1.756	1.756	0	%100
5	MP5A	X	8.471	8.471	0	%100
6	MP5A	Z	4.89	4.89	0	%100
7	MP4A	X	8.471	8.471	0	%100
8	MP4A	Z	4.89	4.89	0	%100



A Ya VYf'8 jgIf]Vi hYX'@UXg'f6 @' () : 'Gfi Wi fY'K c' fV&\$ 8 Y' H'fV' cb]bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
9	MP3A	X	8.471	8.471	0	%100
10	MP3A	Z	4.89	4.89	0	%100
11	MP1A	X	8.471	8.471	0	%100
12	MP1A	Z	4.89	4.89	0	%100
13	MP2A	X	8.471	8.471	0	%100
14	MP2A	Z	4.89	4.89	0	%100
15	M15	X	7.719	7.719	0	%100
16	M15	Z	4.457	4.457	0	%100
17	M16	X	7.807	7.807	0	%100
18	M16	Z	4.507	4.507	0	%100
19	M17	X	3.042	3.042	0	%100
20	M17	Z	1.756	1.756	0	%100
21	M18	X	6.669	6.669	0	%100
22	M18	Z	3.85	3.85	0	%100

A Ya VYf'8 jgIf]Vi hYX'@UXg'f6 @' (* : 'Gfi Wi fY'K c' fV) \$ 8 Y' H'

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.611	1.611	0	%100
2	M1	Z	2.791	2.791	0	%100
3	M3	X	5.269	5.269	0	%100
4	M3	Z	9.126	9.126	0	%100
5	MP5A	X	4.89	4.89	0	%100
6	MP5A	Z	8.471	8.471	0	%100
7	MP4A	X	4.89	4.89	0	%100
8	MP4A	Z	8.471	8.471	0	%100
9	MP3A	X	4.89	4.89	0	%100
10	MP3A	Z	8.471	8.471	0	%100
11	MP1A	X	4.89	4.89	0	%100
12	MP1A	Z	8.471	8.471	0	%100
13	MP2A	X	4.89	4.89	0	%100
14	MP2A	Z	8.471	8.471	0	%100
15	M15	X	4.457	4.457	0	%100
16	M15	Z	7.719	7.719	0	%100
17	M16	X	4.507	4.507	0	%100
18	M16	Z	7.807	7.807	0	%100
19	M17	X	5.269	5.269	0	%100
20	M17	Z	9.126	9.126	0	%100
21	M18	X	1.283	1.283	0	%100
22	M18	Z	2.223	2.223	0	%100

A Ya VYf'8 jgIf]Vi hYX'@UXg'f6 @' (+ : 'Gfi Wi fY'K c' fV) \$ 8 Y' H'

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	14.051	14.051	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	9.781	9.781	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	9.781	9.781	0	%100
9	MP3A	X	0	0	0	%100



A Ya Vyf'8]glf]Vi hYX' @ UXg'f6 @ ' (+ : 'Gfi Wn fY'K c' f% \$ 8 Y' H'f' cbljbi YXL

Table with 7 columns: Member Label, Direction, Start Magnitude[lb/ft,..., End Magnitude[lb/ft,F..., Start Location[ft,%, End Location[ft,%. Rows 10-22.

A Ya Vyf'8]glf]Vi hYX' @ UXg'f6 @ '(, : 'Gfi Wn fY'K c' f%\$ 8 Y' H

Table with 7 columns: Member Label, Direction, Start Magnitude[lb/ft,..., End Magnitude[lb/ft,F..., Start Location[ft,%, End Location[ft,%. Rows 1-22.

A Ya Vyf'8]glf]Vi hYX' @ UXg'f6 @ ' (- : 'Gfi Wn fY'K c' f% \$ 8 Y' H

Table with 7 columns: Member Label, Direction, Start Magnitude[lb/ft,..., End Magnitude[lb/ft,F..., Start Location[ft,%, End Location[ft,%. Rows 1-10.



A Ya Vyf'8 jgfl]Vi hYX' @ UXg'f6 @' (- : 'Gfi Wi fY'K c''f&(\$ 8 Y' H'f'f' cbl]bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	MP1A	X	-8.471	-8.471	0	%100
12	MP1A	Z	4.89	4.89	0	%100
13	MP2A	X	-8.471	-8.471	0	%100
14	MP2A	Z	4.89	4.89	0	%100
15	M15	X	-7.719	-7.719	0	%100
16	M15	Z	4.457	4.457	0	%100
17	M16	X	-7.807	-7.807	0	%100
18	M16	Z	4.507	4.507	0	%100
19	M17	X	-3.042	-3.042	0	%100
20	M17	Z	1.756	1.756	0	%100
21	M18	X	-6.669	-6.669	0	%100
22	M18	Z	3.85	3.85	0	%100

A Ya Vyf'8 jgfl]Vi hYX' @ UXg'f6 @')\$: 'Gfi Wi fY'K c''f&+\$ 8 Y' H'

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-12.889	-12.889	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	MP5A	X	-9.781	-9.781	0	%100
6	MP5A	Z	0	0	0	%100
7	MP4A	X	-9.781	-9.781	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-9.781	-9.781	0	%100
10	MP3A	Z	0	0	0	%100
11	MP1A	X	-9.781	-9.781	0	%100
12	MP1A	Z	0	0	0	%100
13	MP2A	X	-9.781	-9.781	0	%100
14	MP2A	Z	0	0	0	%100
15	M15	X	-8.913	-8.913	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	-9.015	-9.015	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	-10.267	-10.267	0	%100
22	M18	Z	0	0	0	%100

A Ya Vyf'8 jgfl]Vi hYX' @ UXg'f6 @')% : 'Gfi Wi fY'K c''f' \$ \$ 8 Y' H'

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-8.372	-8.372	0	%100
2	M1	Z	-4.833	-4.833	0	%100
3	M3	X	-3.042	-3.042	0	%100
4	M3	Z	-1.756	-1.756	0	%100
5	MP5A	X	-8.471	-8.471	0	%100
6	MP5A	Z	-4.89	-4.89	0	%100
7	MP4A	X	-8.471	-8.471	0	%100
8	MP4A	Z	-4.89	-4.89	0	%100
9	MP3A	X	-8.471	-8.471	0	%100
10	MP3A	Z	-4.89	-4.89	0	%100
11	MP1A	X	-8.471	-8.471	0	%100



A Ya VYf'8]g]f]Vi hYX' @ UXg'f6 @ ') % . 'Gfi Wi fY'K c 'fl '\$\$ 8 Y 4:ft'7 cb]bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
12	MP1A	Z	-4.89	-4.89	0	%100
13	MP2A	X	-8.471	-8.471	0	%100
14	MP2A	Z	-4.89	-4.89	0	%100
15	M15	X	-7.719	-7.719	0	%100
16	M15	Z	-4.457	-4.457	0	%100
17	M16	X	-7.807	-7.807	0	%100
18	M16	Z	-4.507	-4.507	0	%100
19	M17	X	-3.042	-3.042	0	%100
20	M17	Z	-1.756	-1.756	0	%100
21	M18	X	-6.669	-6.669	0	%100
22	M18	Z	-3.85	-3.85	0	%100

A Ya VYf'8]g]f]Vi hYX' @ UXg'f6 @ ') & . 'Gfi Wi fY'K c 'fl ' \$ 8 Y 4

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.611	-1.611	0	%100
2	M1	Z	-2.791	-2.791	0	%100
3	M3	X	-5.269	-5.269	0	%100
4	M3	Z	-9.126	-9.126	0	%100
5	MP5A	X	-4.89	-4.89	0	%100
6	MP5A	Z	-8.471	-8.471	0	%100
7	MP4A	X	-4.89	-4.89	0	%100
8	MP4A	Z	-8.471	-8.471	0	%100
9	MP3A	X	-4.89	-4.89	0	%100
10	MP3A	Z	-8.471	-8.471	0	%100
11	MP1A	X	-4.89	-4.89	0	%100
12	MP1A	Z	-8.471	-8.471	0	%100
13	MP2A	X	-4.89	-4.89	0	%100
14	MP2A	Z	-8.471	-8.471	0	%100
15	M15	X	-4.457	-4.457	0	%100
16	M15	Z	-7.719	-7.719	0	%100
17	M16	X	-4.507	-4.507	0	%100
18	M16	Z	-7.807	-7.807	0	%100
19	M17	X	-5.269	-5.269	0	%100
20	M17	Z	-9.126	-9.126	0	%100
21	M18	X	-1.283	-1.283	0	%100
22	M18	Z	-2.223	-2.223	0	%100

A Ya VYf'8]g]f]Vi hYX' @ UXg'f6 @ ') ' . 'Gfi Wi fY'K]'f6 8 Y 4

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	-4.05	-4.05	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	-3.259	-3.259	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-3.259	-3.259	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-3.259	-3.259	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	-3.259	-3.259	0	%100



A Ya Vyf'8]g]f]Vi hYX' @ UXg'f6 @)' : 'Gfi Wñ fY'K]'f6'8 Y] ½:f7 cb]bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	MP2A	X	0	0	0	%100
14	MP2A	Z	-3.259	-3.259	0	%100
15	M15	X	0	0	0	%100
16	M15	Z	-3.001	-3.001	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	-2.644	-2.644	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	-4.05	-4.05	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100

A Ya Vyf'8]g]f]Vi hYX' @ UXg'f6 @) (: 'Gfi Wñ fY'K]'fl \$'8 Y] ½

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.44	.44	0	%100
2	M1	Z	-.763	-.763	0	%100
3	M3	X	1.519	1.519	0	%100
4	M3	Z	-2.631	-2.631	0	%100
5	MP5A	X	1.63	1.63	0	%100
6	MP5A	Z	-2.823	-2.823	0	%100
7	MP4A	X	1.63	1.63	0	%100
8	MP4A	Z	-2.823	-2.823	0	%100
9	MP3A	X	1.63	1.63	0	%100
10	MP3A	Z	-2.823	-2.823	0	%100
11	MP1A	X	1.63	1.63	0	%100
12	MP1A	Z	-2.823	-2.823	0	%100
13	MP2A	X	1.63	1.63	0	%100
14	MP2A	Z	-2.823	-2.823	0	%100
15	M15	X	1.5	1.5	0	%100
16	M15	Z	-2.599	-2.599	0	%100
17	M16	X	1.322	1.322	0	%100
18	M16	Z	-2.29	-2.29	0	%100
19	M17	X	1.519	1.519	0	%100
20	M17	Z	-2.631	-2.631	0	%100
21	M18	X	.384	.384	0	%100
22	M18	Z	-.666	-.666	0	%100

A Ya Vyf'8]g]f]Vi hYX' @ UXg'f6 @)) : 'Gfi Wñ fY'K]'ft \$'8 Y] ½

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.288	2.288	0	%100
2	M1	Z	-1.321	-1.321	0	%100
3	M3	X	.877	.877	0	%100
4	M3	Z	-.506	-.506	0	%100
5	MP5A	X	2.823	2.823	0	%100
6	MP5A	Z	-1.63	-1.63	0	%100
7	MP4A	X	2.823	2.823	0	%100
8	MP4A	Z	-1.63	-1.63	0	%100
9	MP3A	X	2.823	2.823	0	%100
10	MP3A	Z	-1.63	-1.63	0	%100
11	MP1A	X	2.823	2.823	0	%100
12	MP1A	Z	-1.63	-1.63	0	%100
13	MP2A	X	2.823	2.823	0	%100



A Ya VYf'8]g]f]Vi hYX' @ UXg'f6 @')) : 'Gfi Wi fY'K]'ft \$'8 Y] tL'f7 cb]jbi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	MP2A	Z	-1.63	-1.63	0	%100
15	M15	X	2.599	2.599	0	%100
16	M15	Z	-1.5	-1.5	0	%100
17	M16	X	2.29	2.29	0	%100
18	M16	Z	-1.322	-1.322	0	%100
19	M17	X	.877	.877	0	%100
20	M17	Z	-.506	-.506	0	%100
21	M18	X	1.998	1.998	0	%100
22	M18	Z	-1.153	-1.153	0	%100

A Ya VYf'8]g]f]Vi hYX' @ UXg'f6 @') * : 'Gfi Wi fY'K]'ft \$'8 Y] tL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.523	3.523	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	MP5A	X	3.259	3.259	0	%100
6	MP5A	Z	0	0	0	%100
7	MP4A	X	3.259	3.259	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	3.259	3.259	0	%100
10	MP3A	Z	0	0	0	%100
11	MP1A	X	3.259	3.259	0	%100
12	MP1A	Z	0	0	0	%100
13	MP2A	X	3.259	3.259	0	%100
14	MP2A	Z	0	0	0	%100
15	M15	X	3.001	3.001	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	2.644	2.644	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	3.075	3.075	0	%100
22	M18	Z	0	0	0	%100

A Ya VYf'8]g]f]Vi hYX' @ UXg'f6 @') + : 'Gfi Wi fY'K]'ft \$'8 Y] tL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.288	2.288	0	%100
2	M1	Z	1.321	1.321	0	%100
3	M3	X	.877	.877	0	%100
4	M3	Z	.506	.506	0	%100
5	MP5A	X	2.823	2.823	0	%100
6	MP5A	Z	1.63	1.63	0	%100
7	MP4A	X	2.823	2.823	0	%100
8	MP4A	Z	1.63	1.63	0	%100
9	MP3A	X	2.823	2.823	0	%100
10	MP3A	Z	1.63	1.63	0	%100
11	MP1A	X	2.823	2.823	0	%100
12	MP1A	Z	1.63	1.63	0	%100
13	MP2A	X	2.823	2.823	0	%100
14	MP2A	Z	1.63	1.63	0	%100



A Ya VYf'8 jgflVi hYX'@UXg'f6 @')+ : 'Gfi Wi fY'K]'fP\$'8 Yl L'L'f c bh'bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
15	M15	X	2.599	2.599	0	%100
16	M15	Z	1.5	1.5	0	%100
17	M16	X	2.29	2.29	0	%100
18	M16	Z	1.322	1.322	0	%100
19	M17	X	.877	.877	0	%100
20	M17	Z	.506	.506	0	%100
21	M18	X	1.998	1.998	0	%100
22	M18	Z	1.153	1.153	0	%100

A Ya VYf'8 jgflVi hYX'@UXg'f6 @'), : 'Gfi Wi fY'K]'fP\$'8 Yl L'

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.44	.44	0	%100
2	M1	Z	.763	.763	0	%100
3	M3	X	1.519	1.519	0	%100
4	M3	Z	2.631	2.631	0	%100
5	MP5A	X	1.63	1.63	0	%100
6	MP5A	Z	2.823	2.823	0	%100
7	MP4A	X	1.63	1.63	0	%100
8	MP4A	Z	2.823	2.823	0	%100
9	MP3A	X	1.63	1.63	0	%100
10	MP3A	Z	2.823	2.823	0	%100
11	MP1A	X	1.63	1.63	0	%100
12	MP1A	Z	2.823	2.823	0	%100
13	MP2A	X	1.63	1.63	0	%100
14	MP2A	Z	2.823	2.823	0	%100
15	M15	X	1.5	1.5	0	%100
16	M15	Z	2.599	2.599	0	%100
17	M16	X	1.322	1.322	0	%100
18	M16	Z	2.29	2.29	0	%100
19	M17	X	1.519	1.519	0	%100
20	M17	Z	2.631	2.631	0	%100
21	M18	X	.384	.384	0	%100
22	M18	Z	.666	.666	0	%100

A Ya VYf'8 jgflVi hYX'@UXg'f6 @')- : 'Gfi Wi fY'K]'fP\$'8 Yl L'

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	4.05	4.05	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	3.259	3.259	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	3.259	3.259	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	3.259	3.259	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	3.259	3.259	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	3.259	3.259	0	%100
15	M15	X	0	0	0	%100

A Ya VYf'8]gJf]Vi hYX'@ UXg'f6 @)- : 'Gfi Wi fY'K]'fB, \$'8 Yl L'L'f c b]bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
16	M15	Z	3.001	3.001	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	2.644	2.644	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	4.05	4.05	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100

A Ya VYf'8]gJf]Vi hYX'@ UXg'f6 @ '* \$.'Gfi Wi fY'K]'fB \$'8 Yl L'L

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.44	-.44	0	%100
2	M1	Z	.763	.763	0	%100
3	M3	X	-1.519	-1.519	0	%100
4	M3	Z	2.631	2.631	0	%100
5	MP5A	X	-1.63	-1.63	0	%100
6	MP5A	Z	2.823	2.823	0	%100
7	MP4A	X	-1.63	-1.63	0	%100
8	MP4A	Z	2.823	2.823	0	%100
9	MP3A	X	-1.63	-1.63	0	%100
10	MP3A	Z	2.823	2.823	0	%100
11	MP1A	X	-1.63	-1.63	0	%100
12	MP1A	Z	2.823	2.823	0	%100
13	MP2A	X	-1.63	-1.63	0	%100
14	MP2A	Z	2.823	2.823	0	%100
15	M15	X	-1.5	-1.5	0	%100
16	M15	Z	2.599	2.599	0	%100
17	M16	X	-1.322	-1.322	0	%100
18	M16	Z	2.29	2.29	0	%100
19	M17	X	-1.519	-1.519	0	%100
20	M17	Z	2.631	2.631	0	%100
21	M18	X	-.384	-.384	0	%100
22	M18	Z	.666	.666	0	%100

A Ya VYf'8]gJf]Vi hYX'@ UXg'f6 @ '*%.'Gfi Wi fY'K]'fB (\$'8 Yl L'L

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.288	-2.288	0	%100
2	M1	Z	1.321	1.321	0	%100
3	M3	X	-.877	-.877	0	%100
4	M3	Z	.506	.506	0	%100
5	MP5A	X	-2.823	-2.823	0	%100
6	MP5A	Z	1.63	1.63	0	%100
7	MP4A	X	-2.823	-2.823	0	%100
8	MP4A	Z	1.63	1.63	0	%100
9	MP3A	X	-2.823	-2.823	0	%100
10	MP3A	Z	1.63	1.63	0	%100
11	MP1A	X	-2.823	-2.823	0	%100
12	MP1A	Z	1.63	1.63	0	%100
13	MP2A	X	-2.823	-2.823	0	%100
14	MP2A	Z	1.63	1.63	0	%100
15	M15	X	-2.599	-2.599	0	%100
16	M15	Z	1.5	1.5	0	%100



A Ya VYf'8 jgflVi hYX' @ UXg'f6 @ '*%.' Gfi Wf fY'K]''fB+ \$'8 Yl tL'f c bh'bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
17	M16	X	-2.29	-2.29	0	%100
18	M16	Z	1.322	1.322	0	%100
19	M17	X	-.877	-.877	0	%100
20	M17	Z	.506	.506	0	%100
21	M18	X	-1.998	-1.998	0	%100
22	M18	Z	1.153	1.153	0	%100

A Ya VYf'8 jgflVi hYX' @ UXg'f6 @ '*&.' Gfi Wf fY'K]''fB+\$'8 Yl tL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.523	-3.523	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	MP5A	X	-3.259	-3.259	0	%100
6	MP5A	Z	0	0	0	%100
7	MP4A	X	-3.259	-3.259	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-3.259	-3.259	0	%100
10	MP3A	Z	0	0	0	%100
11	MP1A	X	-3.259	-3.259	0	%100
12	MP1A	Z	0	0	0	%100
13	MP2A	X	-3.259	-3.259	0	%100
14	MP2A	Z	0	0	0	%100
15	M15	X	-3.001	-3.001	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	-2.644	-2.644	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	-3.075	-3.075	0	%100
22	M18	Z	0	0	0	%100

A Ya VYf'8 jgflVi hYX' @ UXg'f6 @ '*' :.' Gfi Wf fY'K]''fL \$\$'8 Yl tL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.288	-2.288	0	%100
2	M1	Z	-1.321	-1.321	0	%100
3	M3	X	-.877	-.877	0	%100
4	M3	Z	-.506	-.506	0	%100
5	MP5A	X	-2.823	-2.823	0	%100
6	MP5A	Z	-1.63	-1.63	0	%100
7	MP4A	X	-2.823	-2.823	0	%100
8	MP4A	Z	-1.63	-1.63	0	%100
9	MP3A	X	-2.823	-2.823	0	%100
10	MP3A	Z	-1.63	-1.63	0	%100
11	MP1A	X	-2.823	-2.823	0	%100
12	MP1A	Z	-1.63	-1.63	0	%100
13	MP2A	X	-2.823	-2.823	0	%100
14	MP2A	Z	-1.63	-1.63	0	%100
15	M15	X	-2.599	-2.599	0	%100
16	M15	Z	-1.5	-1.5	0	%100
17	M16	X	-2.29	-2.29	0	%100

A Ya Vyf'8 jgfl]Vi hYX'@ UXg'f6 @ '*' : 'Gfi Wñ FY'K]'fl '\$\$ '8 Yl'f' c b]bi YXL

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
18	M16	Z	-1.322	-1.322	0 %100
19	M17	X	-.877	-.877	0 %100
20	M17	Z	-.506	-.506	0 %100
21	M18	X	-1.998	-1.998	0 %100
22	M18	Z	-1.153	-1.153	0 %100

A Ya Vyf'8 jgfl]Vi hYX'@ UXg'f6 @ '* (: 'Gfi Wñ FY'K]'fl ' \$ '8 Yl'f' f

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.44	-.44	0 %100
2	M1	Z	-.763	-.763	0 %100
3	M3	X	-1.519	-1.519	0 %100
4	M3	Z	-2.631	-2.631	0 %100
5	MP5A	X	-1.63	-1.63	0 %100
6	MP5A	Z	-2.823	-2.823	0 %100
7	MP4A	X	-1.63	-1.63	0 %100
8	MP4A	Z	-2.823	-2.823	0 %100
9	MP3A	X	-1.63	-1.63	0 %100
10	MP3A	Z	-2.823	-2.823	0 %100
11	MP1A	X	-1.63	-1.63	0 %100
12	MP1A	Z	-2.823	-2.823	0 %100
13	MP2A	X	-1.63	-1.63	0 %100
14	MP2A	Z	-2.823	-2.823	0 %100
15	M15	X	-1.5	-1.5	0 %100
16	M15	Z	-2.599	-2.599	0 %100
17	M16	X	-1.322	-1.322	0 %100
18	M16	Z	-2.29	-2.29	0 %100
19	M17	X	-1.519	-1.519	0 %100
20	M17	Z	-2.631	-2.631	0 %100
21	M18	X	-.384	-.384	0 %100
22	M18	Z	-.666	-.666	0 %100

A Ya Vyf'8 jgfl]Vi hYX'@ UXg'f6 @ '*') : 'Gfi Wñ FY'K a ''f6 '8 Yl'f' f

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0 %100
2	M1	Z	0	0	0 %100
3	M3	X	0	0	0 %100
4	M3	Z	-.864	-.864	0 %100
5	MP5A	X	0	0	0 %100
6	MP5A	Z	-.601	-.601	0 %100
7	MP4A	X	0	0	0 %100
8	MP4A	Z	-.601	-.601	0 %100
9	MP3A	X	0	0	0 %100
10	MP3A	Z	-.601	-.601	0 %100
11	MP1A	X	0	0	0 %100
12	MP1A	Z	-.601	-.601	0 %100
13	MP2A	X	0	0	0 %100
14	MP2A	Z	-.601	-.601	0 %100
15	M15	X	0	0	0 %100
16	M15	Z	-.548	-.548	0 %100
17	M16	X	0	0	0 %100
18	M16	Z	-.554	-.554	0 %100



Company : Maser Consulting
 Designer : AJH
 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
 4:23 PM
 Checked By: _____

A Ya Vyf'8 jgfljVi hYX'@UXg'f6 @'*) :.Gfi Wi fY'Ka ''f\$'8 Yl tL'f' cbjbi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M17	X	0	0	0	%100
20	M17	Z	-.864	-.864	0	%100
21	M18	X	0	0	0	%100
22	M18	Z	0	0	0	%100

A Ya Vyf'8 jgfljVi hYX'@UXg'f6 @' :.Gfi Wi fY'Ka ''f\$'8 Yl tL**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.099	.099	0	%100
2	M1	Z	-.172	-.172	0	%100
3	M3	X	.324	.324	0	%100
4	M3	Z	-.561	-.561	0	%100
5	MP5A	X	.301	.301	0	%100
6	MP5A	Z	-.521	-.521	0	%100
7	MP4A	X	.301	.301	0	%100
8	MP4A	Z	-.521	-.521	0	%100
9	MP3A	X	.301	.301	0	%100
10	MP3A	Z	-.521	-.521	0	%100
11	MP1A	X	.301	.301	0	%100
12	MP1A	Z	-.521	-.521	0	%100
13	MP2A	X	.301	.301	0	%100
14	MP2A	Z	-.521	-.521	0	%100
15	M15	X	.274	.274	0	%100
16	M15	Z	-.475	-.475	0	%100
17	M16	X	.277	.277	0	%100
18	M16	Z	-.48	-.48	0	%100
19	M17	X	.324	.324	0	%100
20	M17	Z	-.561	-.561	0	%100
21	M18	X	.079	.079	0	%100
22	M18	Z	-.137	-.137	0	%100

A Ya Vyf'8 jgfljVi hYX'@UXg'f6 @' *+ :.Gfi Wi fY'Ka ''f\$'8 Yl tL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.515	.515	0	%100
2	M1	Z	-.297	-.297	0	%100
3	M3	X	.187	.187	0	%100
4	M3	Z	-.108	-.108	0	%100
5	MP5A	X	.521	.521	0	%100
6	MP5A	Z	-.301	-.301	0	%100
7	MP4A	X	.521	.521	0	%100
8	MP4A	Z	-.301	-.301	0	%100
9	MP3A	X	.521	.521	0	%100
10	MP3A	Z	-.301	-.301	0	%100
11	MP1A	X	.521	.521	0	%100
12	MP1A	Z	-.301	-.301	0	%100
13	MP2A	X	.521	.521	0	%100
14	MP2A	Z	-.301	-.301	0	%100
15	M15	X	.475	.475	0	%100
16	M15	Z	-.274	-.274	0	%100
17	M16	X	.48	.48	0	%100
18	M16	Z	-.277	-.277	0	%100
19	M17	X	.187	.187	0	%100

A Ya Vyf'8]glf]Vi hYX' @ UXg'f6 @ ' * + : ' Gfi Wñ fY'K a ''fi \$'8 Yl ŁŁ'f' c b]pi YXŁ

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
20	M17	Z	-.108	-.108	0	%100
21	M18	X	.41	.41	0	%100
22	M18	Z	-.237	-.237	0	%100

A Ya Vyf'8]glf]Vi hYX' @ UXg'f6 @ ' * , : ' Gfi Wñ fY'K a ''fi \$'8 Yl ŁŁ

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.792	.792	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	MP5A	X	.601	.601	0	%100
6	MP5A	Z	0	0	0	%100
7	MP4A	X	.601	.601	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	.601	.601	0	%100
10	MP3A	Z	0	0	0	%100
11	MP1A	X	.601	.601	0	%100
12	MP1A	Z	0	0	0	%100
13	MP2A	X	.601	.601	0	%100
14	MP2A	Z	0	0	0	%100
15	M15	X	.548	.548	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	.554	.554	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	.631	.631	0	%100
22	M18	Z	0	0	0	%100

A Ya Vyf'8]glf]Vi hYX' @ UXg'f6 @ ' * - : ' Gfi Wñ fY'K a ''fi \$'8 Yl ŁŁ

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.515	.515	0	%100
2	M1	Z	.297	.297	0	%100
3	M3	X	.187	.187	0	%100
4	M3	Z	.108	.108	0	%100
5	MP5A	X	.521	.521	0	%100
6	MP5A	Z	.301	.301	0	%100
7	MP4A	X	.521	.521	0	%100
8	MP4A	Z	.301	.301	0	%100
9	MP3A	X	.521	.521	0	%100
10	MP3A	Z	.301	.301	0	%100
11	MP1A	X	.521	.521	0	%100
12	MP1A	Z	.301	.301	0	%100
13	MP2A	X	.521	.521	0	%100
14	MP2A	Z	.301	.301	0	%100
15	M15	X	.475	.475	0	%100
16	M15	Z	.274	.274	0	%100
17	M16	X	.48	.48	0	%100
18	M16	Z	.277	.277	0	%100
19	M17	X	.187	.187	0	%100
20	M17	Z	.108	.108	0	%100



A Ya VYf'8 jgflVi hYX'@ UXg'f6 @ '*- : 'Gfi Wi fY'Ka ''fV&\$'8 Yl Lf'fV cbh'bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M18	X	.41	.41	0	%100
22	M18	Z	.237	.237	0	%100

A Ya VYf'8 jgflVi hYX'@ UXg'f6 @ '+\$. 'Gfi Wi fY'Ka ''fV \$'8 Yl Lf

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.099	.099	0	%100
2	M1	Z	.172	.172	0	%100
3	M3	X	.324	.324	0	%100
4	M3	Z	.561	.561	0	%100
5	MP5A	X	.301	.301	0	%100
6	MP5A	Z	.521	.521	0	%100
7	MP4A	X	.301	.301	0	%100
8	MP4A	Z	.521	.521	0	%100
9	MP3A	X	.301	.301	0	%100
10	MP3A	Z	.521	.521	0	%100
11	MP1A	X	.301	.301	0	%100
12	MP1A	Z	.521	.521	0	%100
13	MP2A	X	.301	.301	0	%100
14	MP2A	Z	.521	.521	0	%100
15	M15	X	.274	.274	0	%100
16	M15	Z	.475	.475	0	%100
17	M16	X	.277	.277	0	%100
18	M16	Z	.48	.48	0	%100
19	M17	X	.324	.324	0	%100
20	M17	Z	.561	.561	0	%100
21	M18	X	.079	.079	0	%100
22	M18	Z	.137	.137	0	%100

A Ya VYf'8 jgflVi hYX'@ UXg'f6 @ '+%. 'Gfi Wi fY'Ka ''fV \$'8 Yl Lf

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	.864	.864	0	%100
5	MP5A	X	0	0	0	%100
6	MP5A	Z	.601	.601	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	.601	.601	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	.601	.601	0	%100
11	MP1A	X	0	0	0	%100
12	MP1A	Z	.601	.601	0	%100
13	MP2A	X	0	0	0	%100
14	MP2A	Z	.601	.601	0	%100
15	M15	X	0	0	0	%100
16	M15	Z	.548	.548	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	.554	.554	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	.864	.864	0	%100
21	M18	X	0	0	0	%100

A Ya Vyf'8]gfl]Vi hYX'@ UXg'f6 @ '4 : 'Gfi Wi fY'Ka ''f8+\$'8 Y' tL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.792	-.792	0	%100
2	M1	Z	0	0	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	MP5A	X	-.601	-.601	0	%100
6	MP5A	Z	0	0	0	%100
7	MP4A	X	-.601	-.601	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-.601	-.601	0	%100
10	MP3A	Z	0	0	0	%100
11	MP1A	X	-.601	-.601	0	%100
12	MP1A	Z	0	0	0	%100
13	MP2A	X	-.601	-.601	0	%100
14	MP2A	Z	0	0	0	%100
15	M15	X	-.548	-.548	0	%100
16	M15	Z	0	0	0	%100
17	M16	X	-.554	-.554	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M18	X	-.631	-.631	0	%100
22	M18	Z	0	0	0	%100

A Ya Vyf'8]gfl]Vi hYX'@ UXg'f6 @ '+' : 'Gfi Wi fY'Ka ''fl \$\$'8 Y' tL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.515	-.515	0	%100
2	M1	Z	-.297	-.297	0	%100
3	M3	X	-.187	-.187	0	%100
4	M3	Z	-.108	-.108	0	%100
5	MP5A	X	-.521	-.521	0	%100
6	MP5A	Z	-.301	-.301	0	%100
7	MP4A	X	-.521	-.521	0	%100
8	MP4A	Z	-.301	-.301	0	%100
9	MP3A	X	-.521	-.521	0	%100
10	MP3A	Z	-.301	-.301	0	%100
11	MP1A	X	-.521	-.521	0	%100
12	MP1A	Z	-.301	-.301	0	%100
13	MP2A	X	-.521	-.521	0	%100
14	MP2A	Z	-.301	-.301	0	%100
15	M15	X	-.475	-.475	0	%100
16	M15	Z	-.274	-.274	0	%100
17	M16	X	-.48	-.48	0	%100
18	M16	Z	-.277	-.277	0	%100
19	M17	X	-.187	-.187	0	%100
20	M17	Z	-.108	-.108	0	%100
21	M18	X	-.41	-.41	0	%100
22	M18	Z	-.237	-.237	0	%100

A Ya Vyf'8]gfl]Vi hYX'@ UXg'f6 @ '+* : 'Gfi Wi fY'Ka ''fl '\$'8 Y' tL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.099	-.099	0	%100



A Ya VYf 8]gf]Vi hYX @ UXg f6 @ ' + : ' Ghfi Wn fY'Ka 'fl ' \$ 8 Yf Lf'f cbl]bi YXL

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
2	M1	Z	-.172	-.172	0	%100
3	M3	X	-.324	-.324	0	%100
4	M3	Z	-.561	-.561	0	%100
5	MP5A	X	-.301	-.301	0	%100
6	MP5A	Z	-.521	-.521	0	%100
7	MP4A	X	-.301	-.301	0	%100
8	MP4A	Z	-.521	-.521	0	%100
9	MP3A	X	-.301	-.301	0	%100
10	MP3A	Z	-.521	-.521	0	%100
11	MP1A	X	-.301	-.301	0	%100
12	MP1A	Z	-.521	-.521	0	%100
13	MP2A	X	-.301	-.301	0	%100
14	MP2A	Z	-.521	-.521	0	%100
15	M15	X	-.274	-.274	0	%100
16	M15	Z	-.475	-.475	0	%100
17	M16	X	-.277	-.277	0	%100
18	M16	Z	-.48	-.48	0	%100
19	M17	X	-.324	-.324	0	%100
20	M17	Z	-.561	-.561	0	%100
21	M18	X	-.079	-.079	0	%100
22	M18	Z	-.137	-.137	0	%100

A Ya VYf 5 f YU @ UXg '

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

9bj YcdY > c]bhFYUM]cbg

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	N1	max	990.392	11	1419.715	19	1467.652	1	-1.162	1	2.646	11	.685	6
2		min	-1386.013	5	567.992	1	-916.857	7	-3.686	19	-3.828	5	-1.783	12
3	N34	max	883.886	8	736.205	13	933.866	1	-.766	8	3.735	12	.231	6
4		min	-507.316	2	258.901	7	-1484.648	7	-1.672	14	-2.577	6	-.74	12
5	Totals:	max	1606.109	9	2118.637	18	2401.517	1						
6		min	-1606.111	3	1011.665	12	-2401.505	7						

9bj YcdY 5 -G7 % h fl * \$!% L '@ : 8 ' GhYY 7 cXY7 \ YWg

Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn	
1	M1	HSS4X4X4	.357	0	5	.152	0	z	12	134360.6...	139518	16.181	16.181	1...	H1-1b
2	M3	PIPE 3.0	.437	6.75	1	.160	6.75		1	24533.227	65205	5.749	5.749	1...	H1-1b
3	MP5A	PIPE 2.0	.304	2	49	.045	2.917		18	14916.096	32130	1.872	1.872	1...	H1-1b
4	MP4A	PIPE 2.0	.422	5	18	.114	5		5	14916.096	32130	1.872	1.872	1...	H1-1b
5	MP3A	PIPE 2.0	.278	5.469	24	.130	2.552		6	17855.085	32130	1.872	1.872	2...	H1-1b
6	MP1A	PIPE 2.0	.104	5	24	.024	5		23	20866.733	32130	1.872	1.872	2...	H1-1b
7	MP2A	PIPE 2.0	.183	5	12	.046	2		18	20866.733	32130	1.872	1.872	2...	H1-1b
8	M15	PIPE 2.0	.200	3	6	.020	3		6	26521.424	32130	1.872	1.872	1...	H1-1b
9	M16	PIPE 3.0	.000	.75	10	.000	.75		10	64424.35	65205	5.749	5.749	1...	H1-1b
10	M17	PIPE 3.0	.687	6.75	7	.170	6.75		1	24533.227	65205	5.749	5.749	1...	H1-1b



Company : Maser Consulting
 Designer : AJH
 Job Number :
 Model Name : 467297-VZW_MT_LOT_SectorA_H

Sept 1, 2021
 4:23 PM
 Checked By: _____

9bj YcdY5=G7 %h fl * \$!% L @ : 8 GhYY '7 cXY7 \ YW_g'f7 cbhjbi YXL

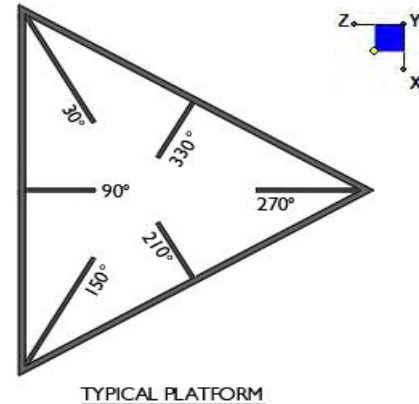
Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y-...	phi*Mn z-...	Cb	Eqn
11	M18	HSS3X3X4	.535	0	12	.121	0	y	48	93583.192	101016	8.556	8.556	2... H1-1b



I. Mount-to-Tower Connection Check - Existing

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N1	90



Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch):

d_y (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

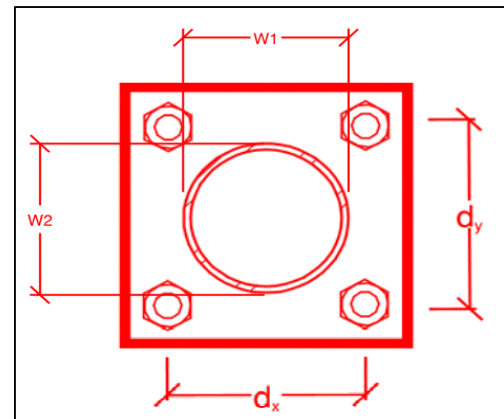
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
6
6
A325N
0.625
17.4
8.2
20.7
12.4
21.0%*
16.4%



*Note: Tension reduction not required if tension or shear capacity < 30%

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

$\Phi * R_n$ (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
8
8
4
4
36
0.625
3
4.18
2.45
46.2%
58.7%

Max Plate Bending Strengths

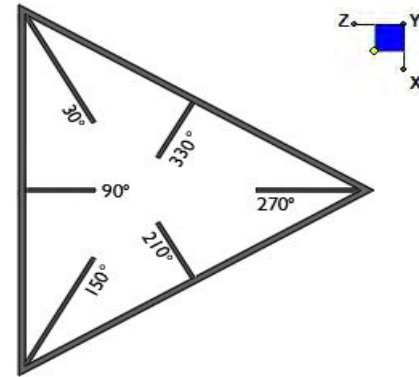
Mu_{xx} (kip-in):	4.4
$\Phi * Mn_{xx}$ (kip-in):	25.3
Mu_{yy} (kip-in):	7.3
$\Phi * Mn_{yy}$ (kip-in):	25.3



I. Mount-to-Tower Connection Check - Proposed

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N34	90



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch):

d_y (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

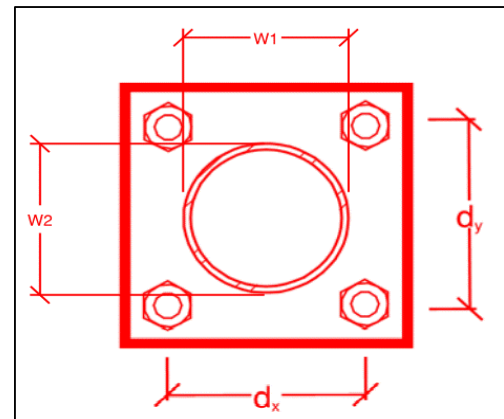
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
6
6
A325N
0.625
15.9
3.7
20.7
12.4
19.2%*
7.4%



*Note: Tension reduction not required if tension or shear capacity < 30%

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

$\Phi * R_n$ (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
8.25
8.25
4
4
36
0.75
5
6.96
2.21
25.0%
31.8%

Max Plate Bending Strengths

Mu_{xx} (kip-in):	1.7
$\Phi * Mn_{xx}$ (kip-in):	37.6
Mu_{yy} (kip-in):	7.7
$\Phi * Mn_{yy}$ (kip-in):	37.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide Maser Consulting Connecticut the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting Connecticut immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzsmart.com> as depicted on the drawings

Photo Requirements:

- Base and “During Installation Photos”
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
 - Overall tower structure before and after installation of the modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- Photos taken at Mount Elevation
 - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
 - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
 - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
 - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
 - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting Connecticut.
 - If the drawings are as specified on the drawings
 - The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized
 - It is required that the Maser Consulting Connecticut certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.


















The Material utilized was as specified on the Maser Consulting Connecticut Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

The material utilized was an "equivalent" and included as part of the contractor submission is the Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

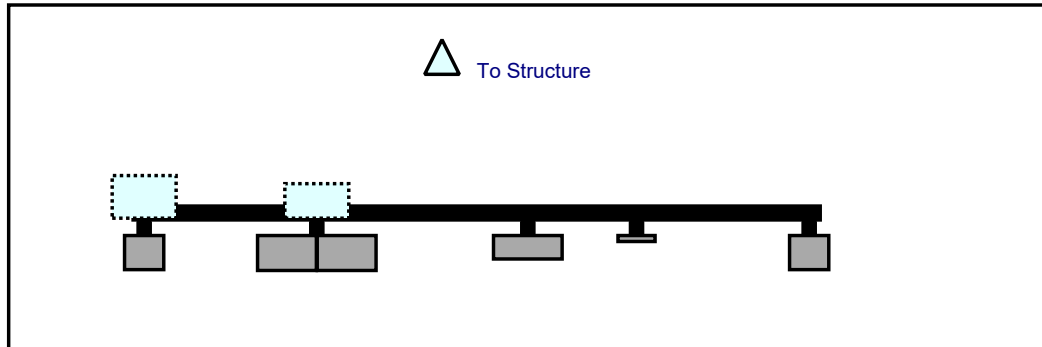
Certifying Individual: Company _____

Name _____

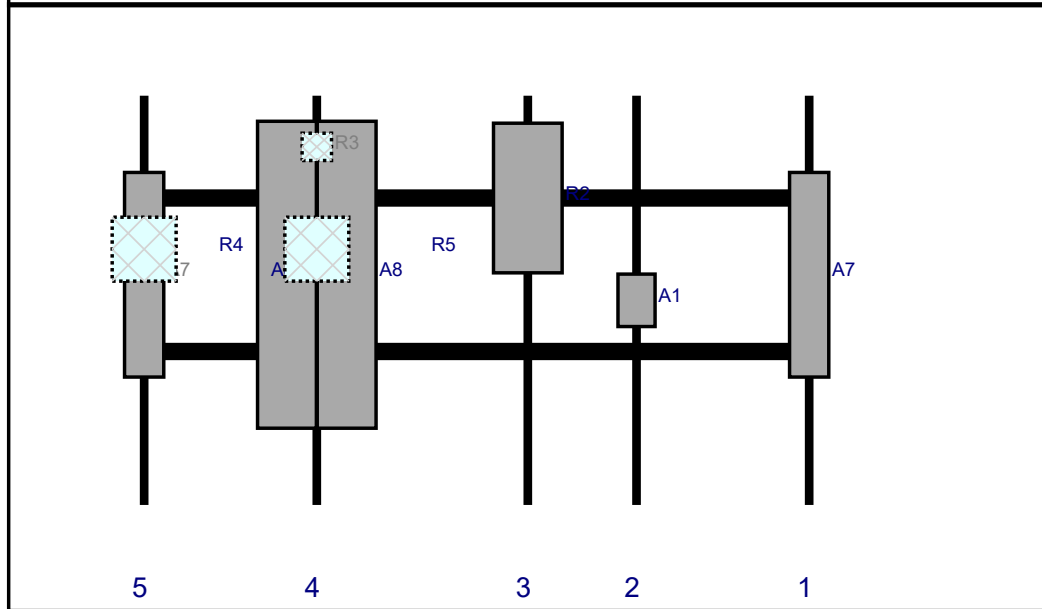
Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present
-  Certifications – Submission of this document including certifications
-  Specific Required Additional Photos

Plan View

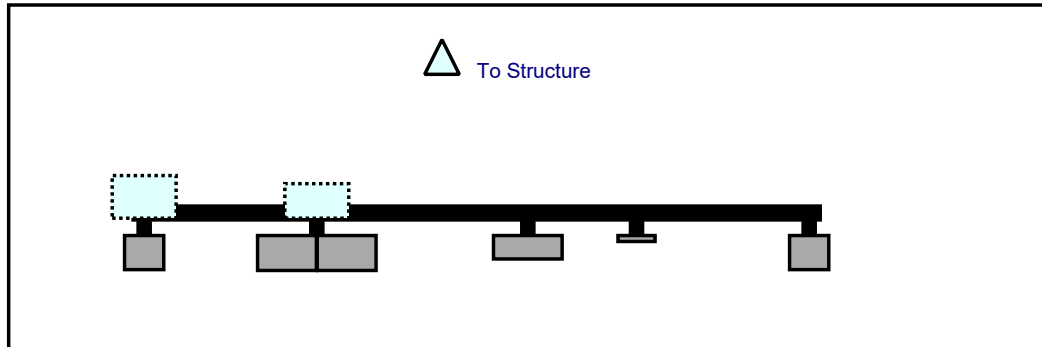


Front View
Looking at Structure

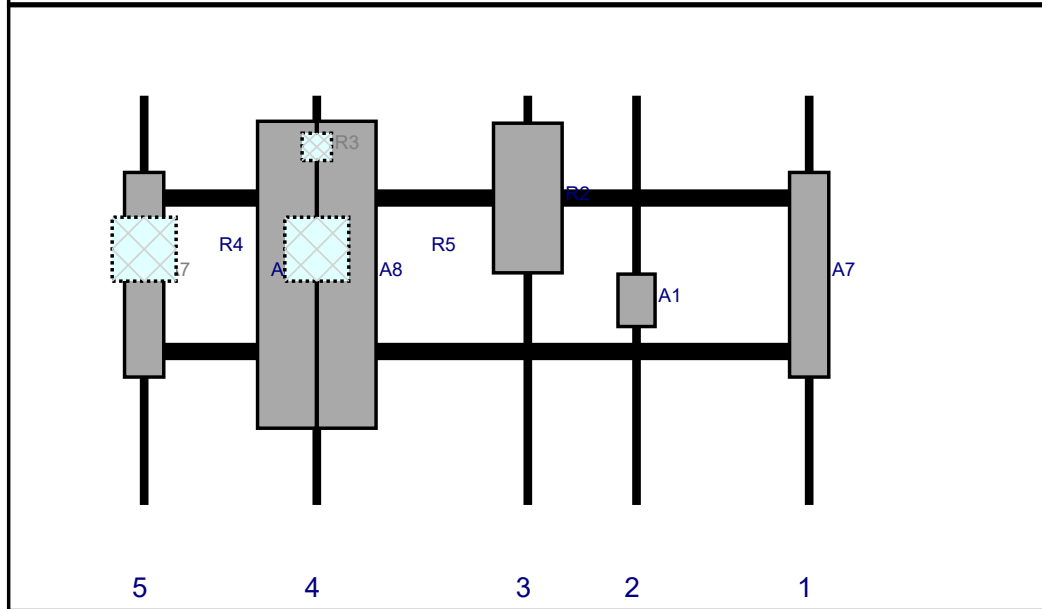


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A7	APL868013	48	9.2	159	1	a	Front	42	0	Retained	
A1	XXDWMM-12.5-65-8T	12.3	8.7	118.5	2	a	Front	48	0	Added	
R2	MT6407-77A	35.1	16.1	93	3	a	Front	24	0	Added	
A8	JAHH-65B-R3B	72	13.8	43.5	4	a	Front	42	7	Retained	
A8	JAHH-65B-R3B	72	13.8	43.5	4	b	Front	42	-7	Retained	
R3	CBC78-DS-43-2X	6.4	6.9	43.5	4	a	Behind	12	0	Added	
R5	B5/B13 RRH-BR04C	15	15	43.5	4	a	Behind	36	0	Added	
A7	APL868013	48	9.2	3	5	a	Front	42	0	Retained	
R4	B2/B66A RRH-BR049	15	15	3	5	a	Behind	36	0	Added	

Plan View

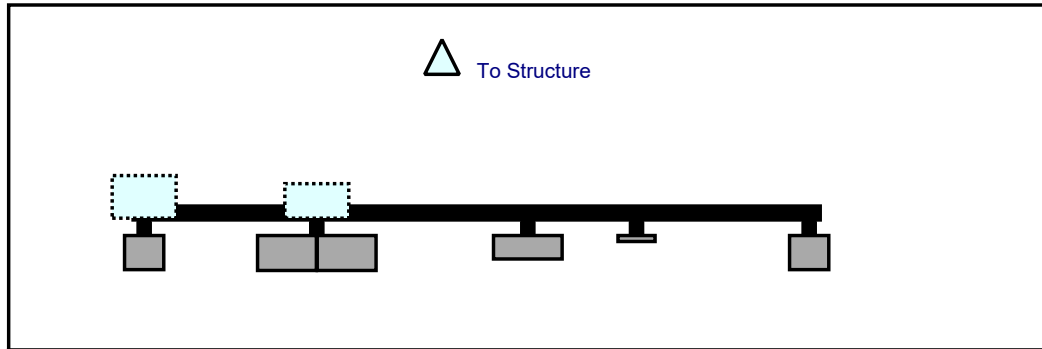


Front View
Looking at Structure

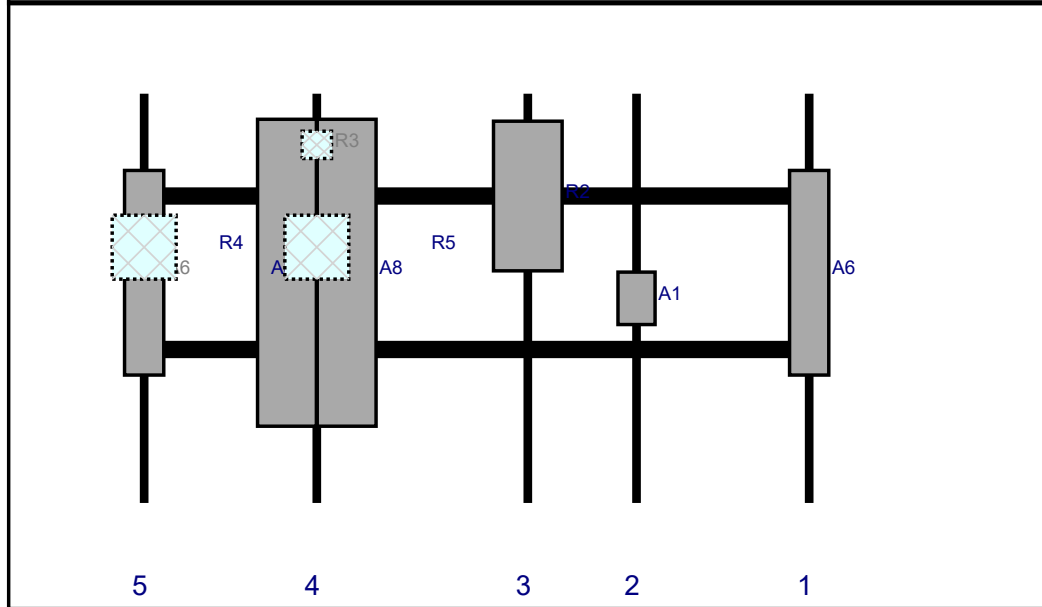


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R2	MT6407-77A	35.1	16.1	93	3	a	Front	24	0	Added	
A7	APL868013	48	9.2	159	1	a	Front	42	0	Retained	
A1	XXDWMM-12.5-65-8T	12.3	8.7	118.5	2	a	Front	48	0	Added	
A8	JAHH-65B-R3B	72	13.8	43.5	4	a	Front	42	7	Retained	
A8	JAHH-65B-R3B	72	13.8	43.5	4	b	Front	42	-7	Retained	
R3	CBC78-DS-43-2X	6.4	6.9	43.5	4	a	Behind	12	0	Added	
R5	B5/B13 RRH-BR04C	15	15	43.5	4	a	Behind	36	0	Added	
A7	APL868013	48	9.2	3	5	a	Front	42	0	Retained	
R4	B2/B66A RRH-BR049	15	15	3	5	a	Behind	36	0	Added	

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	APL866513	48	9.2	159	1	a	Front	42	0	Retained	
A1	XXDWMM-12.5-65-8T	12.3	8.7	118.5	2	a	Front	48	0	Added	
R2	MT6407-77A	35.1	16.1	93	3	a	Front	24	0	Added	
A8	JAHH-65B-R3B	72	13.8	43.5	4	a	Front	42	7	Retained	
A8	JAHH-65B-R3B	72	13.8	43.5	4	b	Front	42	-7	Retained	
R3	CBC78-DS-43-2X	6.4	6.9	43.5	4	a	Behind	12	0	Added	
R5	B5/B13 RRH-BR04C	15	15	43.5	4	a	Behind	36	0	Added	
A6	APL866513	48	9.2	3	5	a	Front	42	0	Retained	
R4	B2/B66A RRH-BR049	15	15	3	5	a	Behind	36	0	Added	

Maser Consulting Connecticut

Subject TIA-222-H Usage

Site Information Site ID:

Site Information

Site ID:	467297-VZW / BRANFORD 2 CT
Site Name:	BRANFORD 2 CT
Carrier Name:	Verizon Wireless
Address:	405 Brushy Plain Rd. Branford, Connecticut 06405 New Haven County
Latitude:	41.31679167°
Longitude:	-72.81969167°

Structure Information

Tower Type:	150-Ft Monopole
Mount Type:	13.50-Ft T-Arm

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H Standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,



Peter Albano, PE
Project Manager

Site Name: **BRANFORD 2 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	2	648	1297	113	0.0037	0.5007	0.73%
VZW CDMA	877.26	2	442	883	113	0.0025	0.5848	0.43%
VZW Cellular	872.5	4	372	1488	113	0.0042	0.5817	0.72%
VZW PCS	1975	4	1617	6467	113	0.0182	1.0000	1.82%
VZW AWS	2120	4	1618	6474	113	0.0182	1.0000	1.82%
VZW CBRS	3560.3	4	42	168	112.5	0.0005	1.0000	0.05%
VZW CBAND	3730.08	4	6531	26125	114.5	0.0717	1.0000	7.17%

Total Percentage of Maximum Permissible Exposure 12.73%

*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/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

Town of Branford

Geographic Information System (GIS)

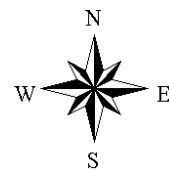


Date Printed: 11/17/2021



MAP DISCLAIMER - NOTICE OF LIABILITY

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



405 BRUSHY PLAIN RD

Location 405 BRUSHY PLAIN RD

Mblu D02/000 003/ 00001/ /

Acct# 004475

Owner JACONETTE EDWARD F JR &

Assessment \$379,000

Appraisal \$541,400

PID 695

Building Count 3

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2019	\$179,200	\$362,200	\$541,400

Assessment			
Valuation Year	Improvements	Land	Total
2019	\$125,500	\$253,500	\$379,000

Owner of Record

Owner JACONETTE EDWARD F JR &
Co-Owner JACONETTE KRISTIN L (SUR)
Address 405 BRUSHY PLAIN RD
BRANFORD, CT 06405

Sale Price \$0
Certificate
Book & Page 0788/1038
Sale Date 11/18/2002
Instrument 25

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
JACONETTE EDWARD F JR &	\$0		0788/1038	25	11/18/2002
ADAMS MARSHA	\$0		442/ 252		12/22/1987
ADAMS MARSHA	\$0				12/22/1987

Building Information

Building 1 : Section 1

Year Built: 1992
Living Area: 550
Replacement Cost: \$27,335
Building Percent Good: 80

Replacement Cost
Less Depreciation: \$21,900

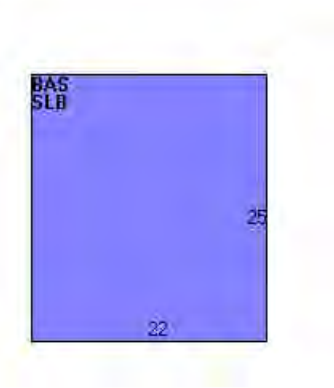
Building Attributes	
Field	Description
STYLE	Warehouse
MODEL	Ind/Comm
Grade	C
Stories:	1
Occupancy	1
Exterior Wall 1	Precast Panel
Exterior Wall 2	
Roof Structure	Shed
Roof Cover	T&G/Rubber
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Hot Air-no Duc
AC Type	Heat Pump
Bldg Use	TEL REL TW MDL96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	0431
Heat/AC	HEAT/AC PKGS
Frame Type	MASONRY
Baths/Plumbing	NONE
Ceiling/Wall	CEILING ONLY
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building Photo



(<http://images.vgsi.com/photos/BranfordCTPhotos/\00\01\45\84.jpg>)

Building Layout



(http://images.vgsi.com/photos/BranfordCTPhotos//Sketches/695_695.jpg)

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	550	550
SLB	Slab	550	0
		1,100	550

Building 2 : Section 1

Year Built: 2001
Living Area: 432
Replacement Cost: \$21,470
Building Percent Good: 86
Replacement Cost
Less Depreciation: \$18,500

Building Attributes : Bldg 2 of 3	
Field	Description
STYLE	Warehouse

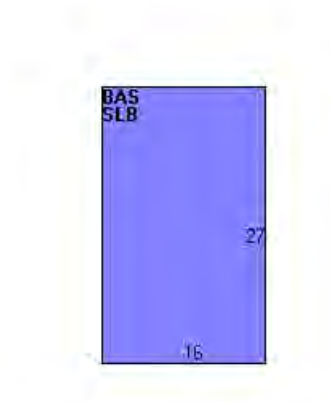
MODEL	Ind/Comm
Grade	C
Stories:	1
Occupancy	4
Exterior Wall 1	Precast Panel
Exterior Wall 2	
Roof Structure	Shed
Roof Cover	T&G/Rubber
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Hot Air-no Duc
AC Type	Heat Pump
Bldg Use	TEL REL TW MDL96
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	0431
Heat/AC	HEAT/AC PKGS
Frame Type	MASONRY
Baths/Plumbing	NONE
Ceiling/Wall	CEILING ONLY
Rooms/Prtns	AVERAGE
Wall Height	9
% Comn Wall	

Building Photo



(<http://images.vgsi.com/photos/BranfordCTPhotos/\00\01\45\85.jpg>)

Building Layout



(http://images.vgsi.com/photos/BranfordCTPhotos//Sketches/695_13769.jp)

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	First Floor	432	432
SLB	Slab	432	0
		864	432

Building 3 : Section 1

Year Built: 1975
Living Area: 1,742
Replacement Cost: \$195,337
Building Percent Good: 66
Replacement Cost Less Depreciation: \$128,900

Building Attributes : Bldg 3 of 3	
Field	Description
Style	Raised Ranch
Model	Residential
Grade:	C +

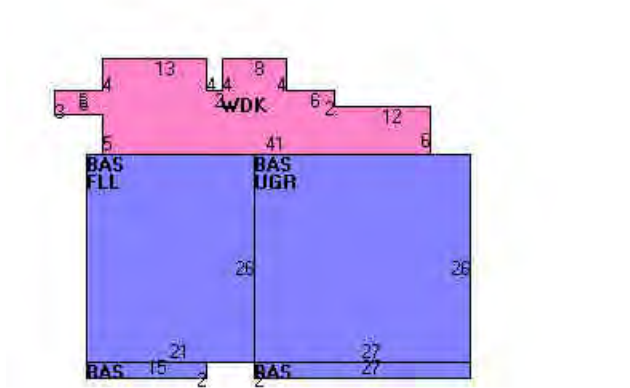
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Wood Shingle
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asphalt
Interior Wall 1	Drywall
Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	Central
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	7 Rooms
Bath Style:	Average
Kitchen Style:	Average
Cottage Cmplx	
Cottage Adj	

Building Photo



(<http://images.vgsi.com/photos/BranfordCTPhotos/\00\01\05\61.jpg>)

Building Layout



(http://images.vgsi.com/photos/BranfordCTPhotos//Sketches/695_13770.jp)

Building Sub-Areas (sq ft)			Legend	
Code	Description	Gross Area	Living Area	
BAS	First Floor	1,332	1,332	
FLL	Finished Lower Level	546	410	
UGR	Garage Under	702	0	
WDK	Deck, Wood	406	0	
		2,986	1,742	

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
FPL2	FIREPLACE 1.5	1 UNITS	\$3,300	3
FPO	EXTRA FPL OPEN	1 UNITS	\$800	3
GEN2	GEN 15-30KW PRMT BKP	1 UNITS	\$4,000	1

Land

Land Use

Use Code 0431
Description TEL REL TW MDL96
Zone R-4
Neighborhood 0050
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 4.5
Frontage
Depth
Assessed Value \$253,500
Appraised Value \$362,200

Outbuildings

Outbuildings						<u>Legend</u>
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN3	FENCE-6' CHAIN			260 L.F.	\$1,300	1
PAV2	PAVING-CONC			137 S.F.	\$500	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$179,200	\$362,200	\$541,400
2019	\$179,200	\$362,200	\$541,400
2018	\$173,100	\$362,200	\$535,300

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$125,500	\$253,500	\$379,000
2019	\$125,500	\$253,500	\$379,000
2018	\$121,200	\$253,500	\$374,700



VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: BRANFORD CT 6
 ATC SITE NUMBER: 302484
 VERIZON SITE NAME: BRANFORD 2 CT
 VERIZON SITE NUMBER: 467297
 SITE ADDRESS: 405 BRUSHY PLAIN RD
 BRANFORD, CT 06405-2308

APPROVALS		
THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH CONSTRUCTION AS DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & ANY CHANGES OR MODIFICATIONS THEY MAY IMPOSE		
APPROVAL:	SIGNATURE:	DATE:
PROJECT MANAGER:		
SITE ACQUISITION:		
CONSTRUCTION MANAGER:		
SITE OWNER:		
VERIZON	RF ENGINEER	
	DEVELOPMENT MANAGER	
	CONSTRUCTION MANAGER	
	OPS MANAGER	
	PROJECT MANAGER	



45 BEECHWOOD DRIVE TEL: (978) 557-5553
 N. ANDOVER, MA 01845 FAX: (978) 336-5586

REV.	DESCRIPTION	BY	DATE
A	PRELIM	EB	06/30/21
0	FINALS	TR	11/05/21

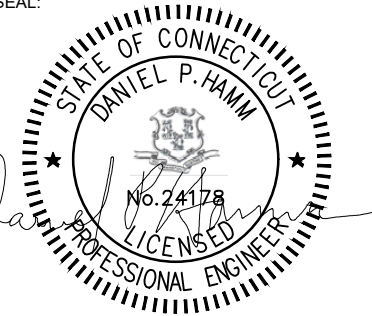
ATC SITE NUMBER:
302484

ATC SITE NAME:
BRANFORD CT 6

VERIZON SITE NAME:
BRANFORD 2 CT

SITE ADDRESS:
405 BRUSHY PLAIN RD
BRANFORD, CT 06405-2308

SEAL:



DATE DRAWN:	06/30/21
ATC JOB NO:	13685617_D1
CUSTOMER ID:	BRANFORD 2 CT
CUSTOMER #:	467297

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

VERIZON
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. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 405 BRUSHY PLAIN RD BRANFORD, CT 06405-2308 COUNTY: NEW HAVEN <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.31680556 LONGITUDE: -72.8197 GROUND ELEVATION: 239' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: REMOVE (12) RRH(s), (2) 1-1/4" HYBRID CABLE(s) INSTALL MOUNT MODIFICATION(s), (6) ANTENNA(s), (12) RRH(s), (3) DIPLEXER(s) EXISTING (12) ANTENNA(s), (2) OVP(s), (6) 1-1/4" COAX CABLE(s) AND (2) 1-1/4" HYBRID CABLE(s) TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> HUDSON DESIGN GROUP, LLC 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845 <u>PROPERTY OWNER:</u> KRISTEN JACONETTE 405 BRUSHY PLAIN RD BRANFORD, CT 06405	<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).					
<u>UTILITY COMPANIES</u> POWER COMPANY: EVERSOURCE PHONE: (877) 659-6326 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (899) 376-6843	<u>APPLICANT:</u> VERIZON WIRELESS	<u>PROJECT LOCATION DIRECTIONS</u> FROM HARTFORD TAKE I-91 SOUTH TO I 95 NORTH. TAKE EXIT 24, TURN LEFT AT END OF RAMP. FOLLOW FOR ABOUT 2 MILES. ROAD WILL WIND UP A HILL AND THE TOWER WILL BE SEEN ON THE RIGHT. TURN RIGHT ONTO HILLTOP ROAD. COMPOUND IS AT CORNER OF BRUSHY PLAIN RD. AND HILLTOP RD. ACCESS SITE FROM HILLTOP ROAD.					



Know what's below.
Call before you dig.

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), BUSS 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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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 GREED 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.



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	EB	06/30/21
0	FINALS	TR	11/05/21

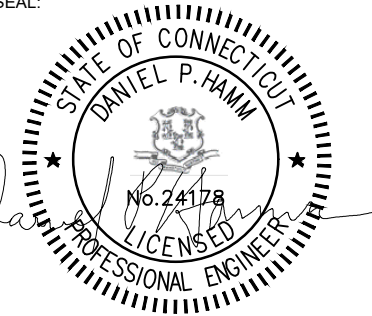
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302484

ATC SITE NAME:
BRANFORD CT 6

VERIZON SITE NAME:
BRANFORD 2 CT

SITE ADDRESS:
405 BRUSHY PLAIN RD
BRANFORD, CT 06405-2308

SEAL:



DATE DRAWN:	06/30/21
ATC JOB NO:	13685617_D1
CUSTOMER ID:	BRANFORD 2 CT
CUSTOMER #:	467297

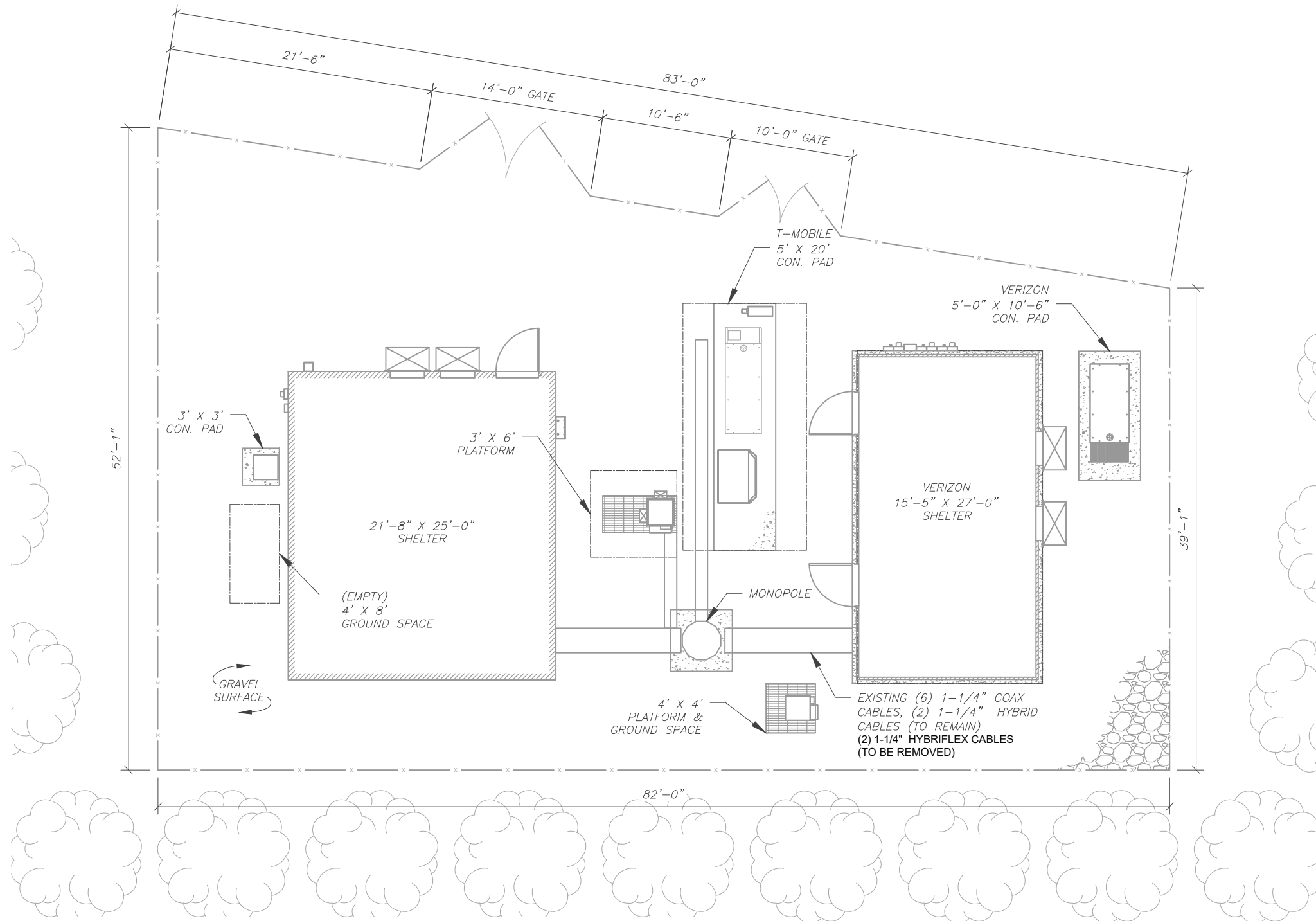
GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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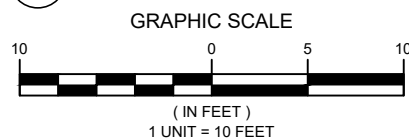
SITE PLAN NOTES:

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. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
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
-x-	CHAINLINK FENCE



1 DETAILED SITE PLAN



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0	FINALS	TR	11/05/21

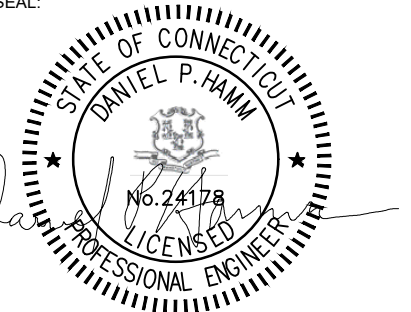
ATC SITE NUMBER:
302484

ATC SITE NAME:
BRANFORD CT 6

VERIZON SITE NAME:
BRANFORD 2 CT

SITE ADDRESS:
 405 BRUSHY PLAIN RD
 BRANFORD, CT 06405-2308

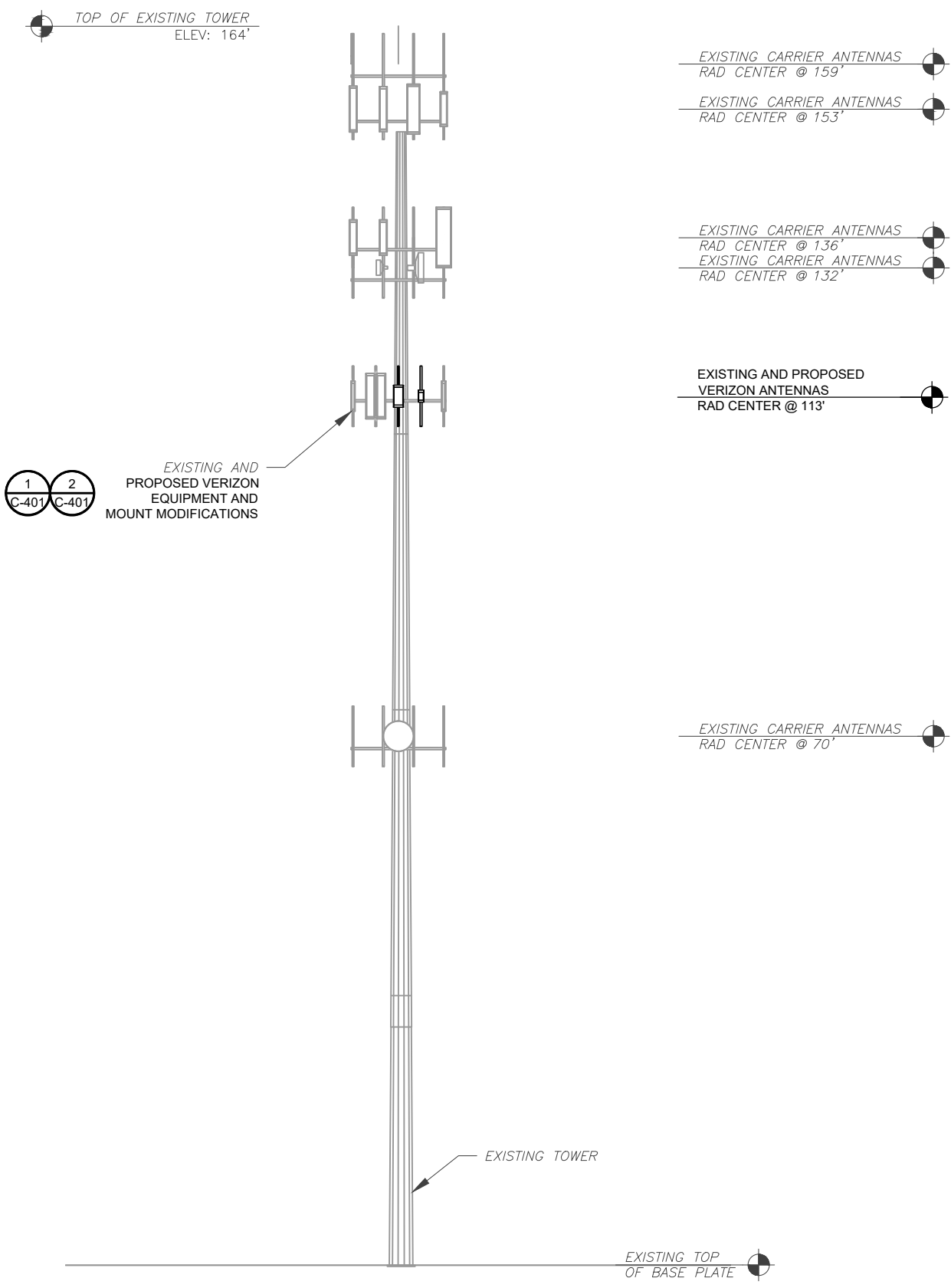
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DATE DRAWN:	06/30/21
ATC JOB NO:	13685617_D1
CUSTOMER ID:	BRANFORD 2 CT
CUSTOMER #:	467297

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0



PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 09/03/21. 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:**
- 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.
 - 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.
 - 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.



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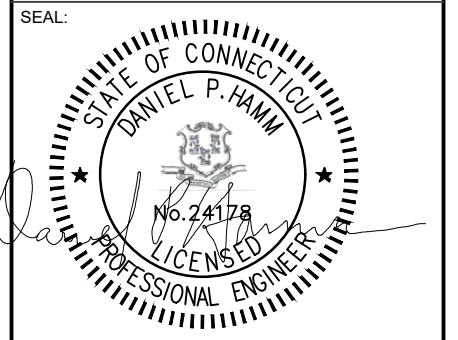
REV.	DESCRIPTION	BY	DATE
A	PRELIM	EB	06/30/21
0	FINALS	TR	11/05/21

ATC SITE NUMBER:
302484

ATC SITE NAME:
BRANFORD CT 6

VERIZON SITE NAME:
BRANFORD 2 CT

SITE ADDRESS:
405 BRUSHY PLAIN RD
BRANFORD, CT 06405-2308

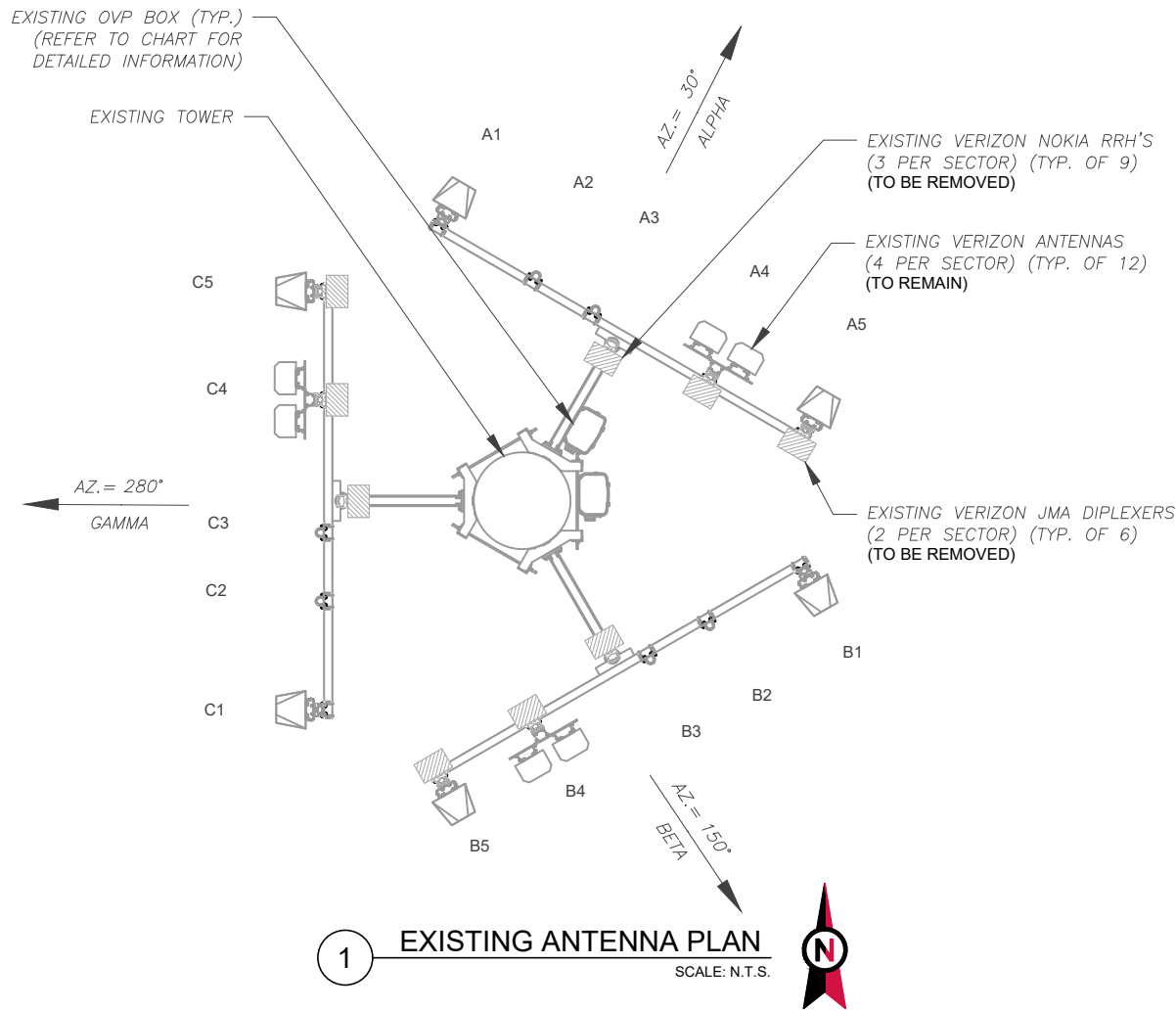


DATE DRAWN:	06/30/21
ATC JOB NO:	13685617_D1
CUSTOMER ID:	BRANFORD 2 CT
CUSTOMER #:	467297

TOWER ELEVATION

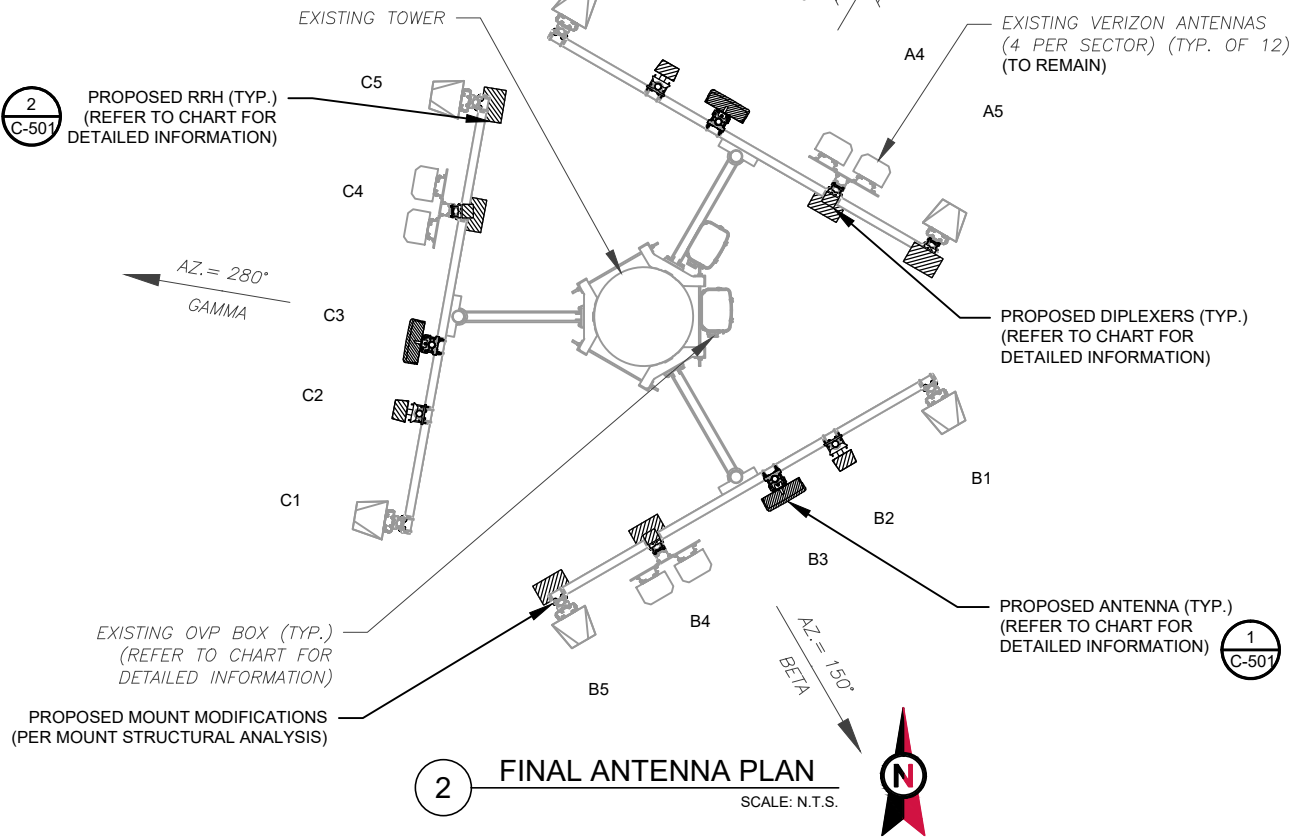
SHEET NUMBER: C-201	REVISION: 0
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PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING CONNECTICUT, DATED 09/03/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

CONTRACTOR SHALL RE-ORIENT ANTENNA MOUNT(S) AS NECESSARY TO ACHIEVE PROPOSED ANTENNA AZIMUTHS



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	113'	30°	A1	APL866513	CDMA	0/0	RMN	-	-
			A2	-	-	-	-	-	-
			A3	-	-	-	-	AHCA AIRSCALE RRH 4T4R B5 160W	RMV
			A4	JAHH-65B-R3B JAHH-65B-R3B	LTE LTE	0/0 0/0	RMN RMN	UHBA B13 RRH 4X30 UHFA B25 RRH 4X30	RMV RMV
			A5	APL868013	CDMA	0/0	RMN	UHIE B66A RRH 4X45	RMV
BETA	113'	150°	B1	APL866513	CDMA	0/0	RMN	-	-
			B2	-	-	-	-	-	-
			B3	-	-	-	-	AHCA AIRSCALE RRH 4T4R B5 160W	RMV
			B4	JAHH-65B-R3B JAHH-65B-R3B	LTE LTE	0/0 0/0	RMN RMN	UHBA B13 RRH 4X30 UHFA B25 RRH 4X30	RMV RMV
			B5	APL868013	CDMA	0/0	RMN	UHIE B66A RRH 4X45	RMV
GAMMA	113'	280°	C1	APL866513	CDMA	0/0	RMN	-	-
			C2	-	-	-	-	-	-
			C3	-	-	-	-	AHCA AIRSCALE RRH 4T4R B5 160W	RMV
			C4	JAHH-65B-R3B JAHH-65B-R3B	LTE LTE	0/0 0/0	RMN RMN	UHBA B13 RRH 4X30 UHFA B25 RRH 4X30	RMV RMV
			C5	APL868013	CDMA	0/0	RMN	UHIE B66A RRH 4X45	RMV

NOTES

- CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
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	113'	30°	A1	APL866513	CDMA	0/0	RMN	-	-
			A2	XXDWM-12.5-65-8T	LTE	0/8	ADD	-	-
			A3	MT6407-77A w/clip on RRH	5G	0/6	ADD	-	-
			A4	JAHH-65B-R3B JAHH-65B-R3B	700/850/1900 700/850/2100	0/2 0/2	RMN RMN	B5/B13 RRH-BR04C CBC78-DS-43-2X	ADD ADD
			A5	APL868013	CDMA	0/0	RMN	B2/B66A RRH-BR049	ADD
BETA	113'	150°	B1	APL866513	CDMA	4/0	RMN	-	-
			B2	XXDWM-12.5-65-8T	LTE	0/8	ADD	-	-
			B3	MT6407-77A w/clip on RRH	5G	0/6	ADD	-	-
			B4	JAHH-65B-R3B JAHH-65B-R3B	700/850/1900 700/850/2100	0/4 0/4	RMN RMN	B5/B13 RRH-BR04C CBC78-DS-43-2X	ADD ADD
			B5	APL868013	CDMA	0/0	RMN	B2/B66A RRH-BR049	ADD
GAMMA	113'	280°	C1	APL866513	CDMA	4/0	RMN	-	-
			C2	XXDWM-12.5-65-8T	LTE	0/8	ADD	-	-
			C3	MT6407-77A w/clip on RRH	5G	0/6	ADD	-	-
			C4	JAHH-65B-R3B JAHH-65B-R3B	700/850/1900 700/850/2100	0/3 0/3	RMN RMN	B5/B13 RRH-BR04C CBC78-DS-43-2X	ADD ADD
			C5	APL868013	CDMA	0/0	RMN	B2/B66A RRH-BR049	ADD

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) OVP (DB-T1-6Z-8AB-0Z)	RMN	(6) 1-1/4"	(2) 1-1/4"	RMN
-	-	-	(2) 1-1/4"	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) OVP (DB-T1-6Z-8AB-0Z)	RMN	(6) 1-1/4"	(2) 1-1/4"	RMN
-	-	-	-	ADD

AMERICAN TOWER®

HDG HUDSON Design Group LLC

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	EB	06/30/21
0	FINALS	TR	11/05/21

ATC SITE NUMBER: 302484

ATC SITE NAME: BRANFORD CT 6

VERIZON SITE NAME: BRANFORD 2 CT

SITE ADDRESS: 405 BRUSHY PLAIN RD BRANFORD, CT 06405-2308

SEAL:

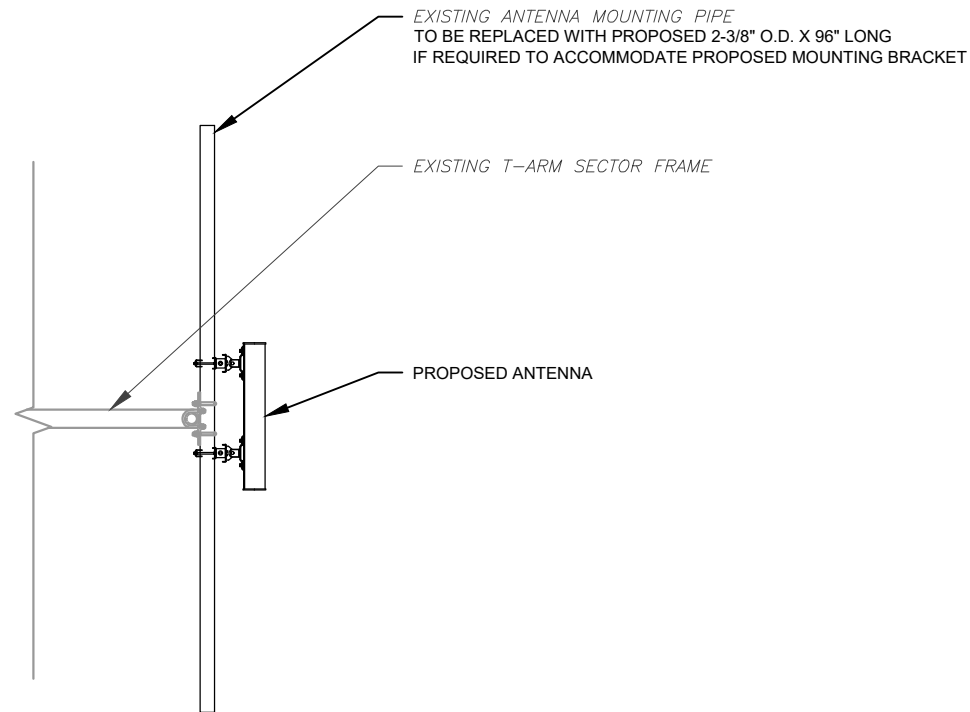
verizon

DATE DRAWN:	06/30/21
ATC JOB NO:	13685617_D1
CUSTOMER ID:	BRANFORD 2 CT
CUSTOMER #:	467297

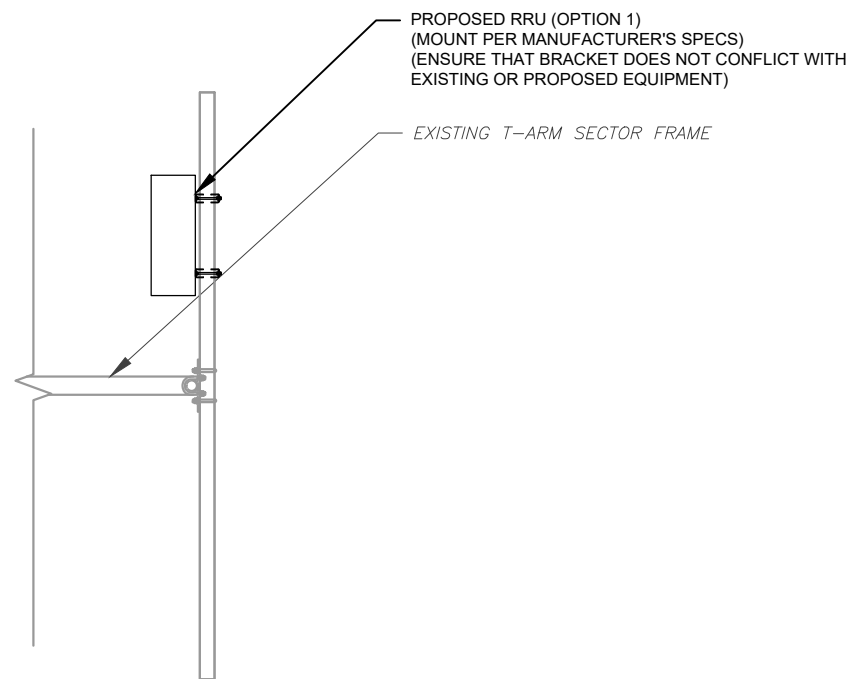
ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

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



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



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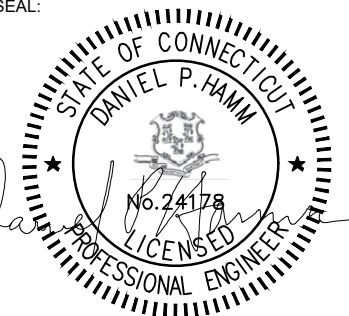
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302484

ATC SITE NAME:
BRANFORD CT 6

VERIZON SITE NAME:
BRANFORD 2 CT

SITE ADDRESS:
405 BRUSHY PLAIN RD
BRANFORD, CT 06405-2308

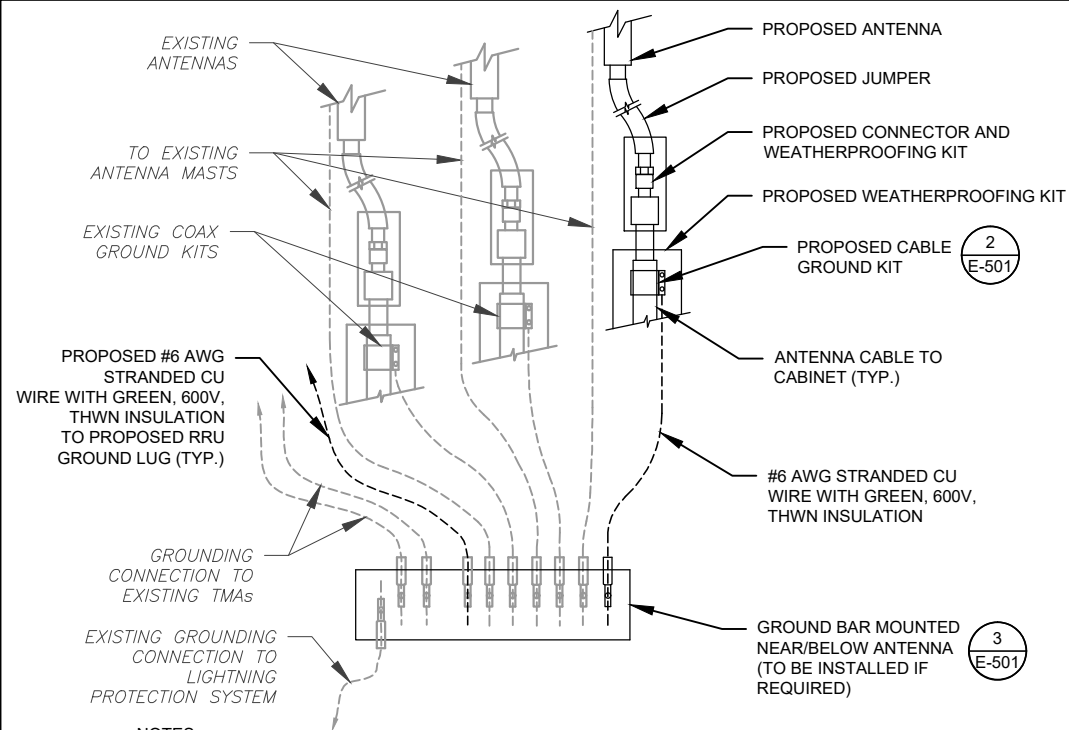
SEAL:



DATE DRAWN:	06/30/21
ATC JOB NO:	13685617_D1
CUSTOMER ID:	BRANFORD 2 CT
CUSTOMER #:	467297

CONSTRUCTION
DETAILS

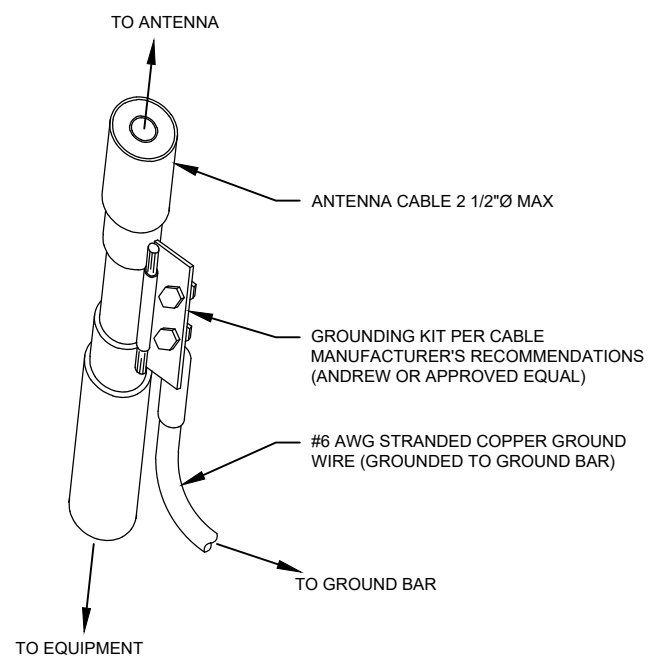
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C-501	0



NOTES:

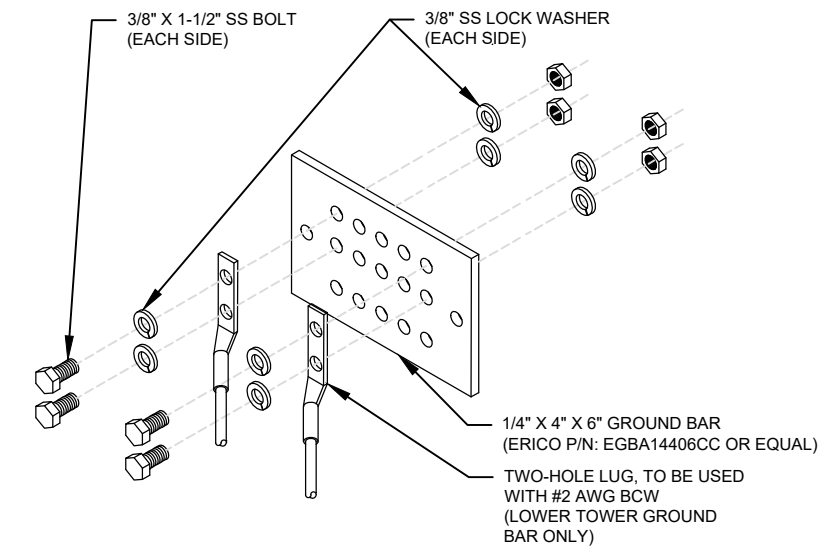
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.



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A	PRELIM	EB	06/30/21
0	FINALS	TR	11/05/21

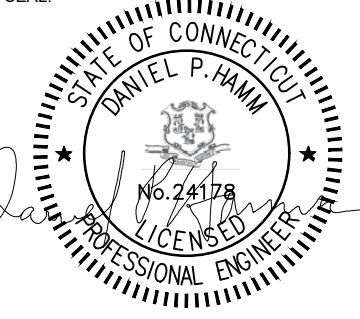
ATC SITE NUMBER:
302484

ATC SITE NAME:
BRANFORD CT 6

VERIZON SITE NAME:
BRANFORD 2 CT

SITE ADDRESS:
405 BRUSHY PLAIN RD
BRANFORD, CT 06405-2308

SEAL:



DATE DRAWN:	06/30/21
ATC JOB NO:	13685617_D1
CUSTOMER ID:	BRANFORD 2 CT
CUSTOMER #:	467297

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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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 #: 10099130
 Maser Consulting Connecticut Project #: 21777824A

September 3, 2021

Site Information

Site ID: 467297-VZW / BRANFORD 2 CT
 Site Name: BRANFORD 2 CT
 Carrier Name: Verizon Wireless
 Address: 405 Brushy Plain Rd.
 Branford, Connecticut 06405
 New Haven County
 Latitude: 41.31679167°
 Longitude: -72.81969167°

Structure Information

Tower Type: 150-Ft Monopole
 Mount Type: 13.50-Ft T-Arm
 FUZE ID # 15904381

Analysis Results

T-Arm: 58.7% Pass

***Contractor PMI Requirements:

Included at the end of this MA report
 Available & Submitted via portal at <https://pmi.vzsmart.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: Selene Chen



Mount Post-Modification Analysis Report
 (3) 13.50-Ft T-Arms

September 3, 2021
 Site ID: 467297-VZW / BRANFORD 2 CT
 Page | 4

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
Connection Check	58.7%	Pass
Standoff	35.7%	Pass
Face Horizontal	43.7%	Pass
Mod Horizontal	68.7%	Pass
Mod Standoff	53.5%	Pass
Mount Pipe	42.2%	Pass

Structure Rating – (Controlling Utilization of all Components)	58.7%
--	-------

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

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 CONSTRUCTION.



MOUNT MODIFICATION DRAWINGS
EXISTING 13.50' T-ARM

TOWER OWNER: AMERICAN TOWER CORPORATION
TOWER OWNER SITE NUMBER: 302484

CARRIER SITE NAME: BRANFORD 2 CT
CARRIER SITE NUMBER: 467297
FUZE ID: 15904381

405 BRUSHY PLAIN RD
BRANFORD, CT 06405
NEW HAVEN COUNTY

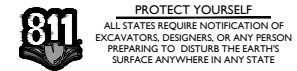
LATITUDE: 41.31679167° N
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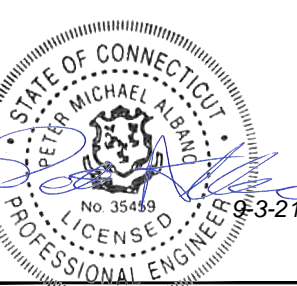
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SITE NAME:
BRANFORD 2 CT
467297
405 BRUSHY PLAIN RD
BRANFORD, CT 06405
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Madison Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
ST-1

DESIGN CRITERIA
<p>WIND LOADS</p> <p>BASIC WIND SPEED (3 SECOND GUST), V = 121 MPH EXPOSURE CATEGORY C TOPOGRAPHIC CATEGORY I MEAN BASE ELEVATION (AMSL) = 236.76'</p> <p>ICE LOADS</p> <p>ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.00 IN</p> <p>SEISMIC LOADS</p> <p>SEISMIC DESIGN CATEGORY B SHORT TERM MCER GROUND MOTION, S_s = 0.203 LONG TERM MCER GROUND MOTION, S_l = .054</p>

PROJECT INFORMATION
<p>APPLICANT/LESSEE</p> <p>COMPANY: VERIZON WIRELESS</p> <p>CLIENT REPRESENTATIVE</p> <p>COMPANY: VERIZON WIRELESS ADDRESS: 118 FLANDERS ROAD, THIRD FLOOR CITY, STATE, ZIP: WESTBOROUGH, MA 01581 CONTACT: ANDREW CANDIELLO EMAIL: ANDREW.CANDIELLO@VERIZONWIRELESS.COM</p> <p>PROJECT MANAGER</p> <p>COMPANY: MASER CONSULTING CONNECTICUT CONTACT: PETER ALBANO PHONE: 856-797-0412 E-MAIL: PETER.ALBANO@COLLIERENGINEERING.COM</p>

CONTRACTOR PMI REQUIREMENTS
<p>PMI LOCATION: HTTPS://PMI.VZWSMART.COM SMART TOOL PROJECT #: 10099130 VZW LOCATION CODE (PSLC): 467297 ANALYSIS DATE: 9/3/2021</p> <p>PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT</p>

SHEET INDEX
SHEET DESCRIPTION
ST-1 TITLE SHEET
SBOM-1 BILL OF MATERIALS
SGN-1 GENERAL NOTES
SCF-1 CLIMBING FACILITY DETAIL
SS-1 MODIFICATION DETAILS
SS-2 GEOMETRY VERIFICATION SKETCHES
SS-3 MOUNT PHOTOS
SPECIFICATION SHEETS

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PROJECT NOTES

- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 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.
- 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.
- 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.
- 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.
- 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.
- SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

- 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.
- 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.
- 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.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
- 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 ANSITIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSITIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
- 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.

- 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, ANSITIA-322.
- 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.
- 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.
- DO NOT SCALE DRAWINGS.
- DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
- 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.
- THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

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

- 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.
- PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
 - SUBMIT SHOP DRAWINGS TO
PETER.ALBANO@COLLIERSENGINEERING.COM
 - PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL
- 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.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- 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.
- CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
- 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.
- 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.
- FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.

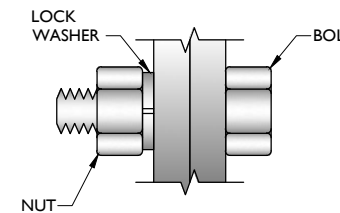
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- ALL EXISTING 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).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

- ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
- CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
- THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS, PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
- IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
- OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.

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	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 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

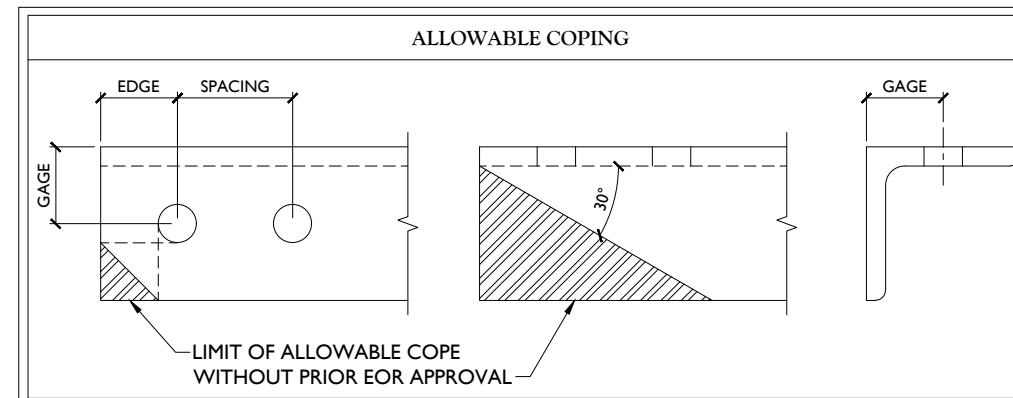
WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

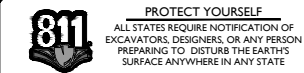
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
- THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS 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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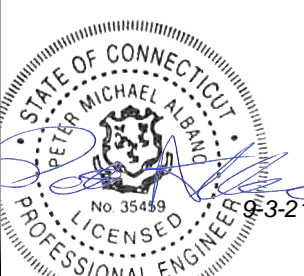
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SITE NAME:
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467297
405 BRUSHY PLAIN RD
BRANFORD, CT 06405
NEW HAVEN COUNTY

MT. LAUREL OFFICE
2000 Highlands Drive
Suite 100
Mount Laurel, NJ 08054
Phone: 856.797.0412
Fax: 856.722.1120

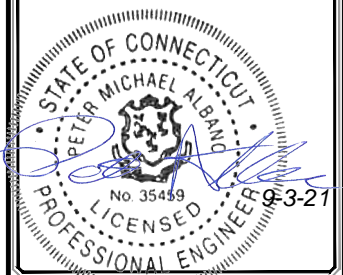
SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
SGN-1



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REV	DATE	DESCRIPTION	DRAWN BY / CHECKED BY
0	9/3/2021	ISSUED FOR CONSTRUCTION	FAC. PMA



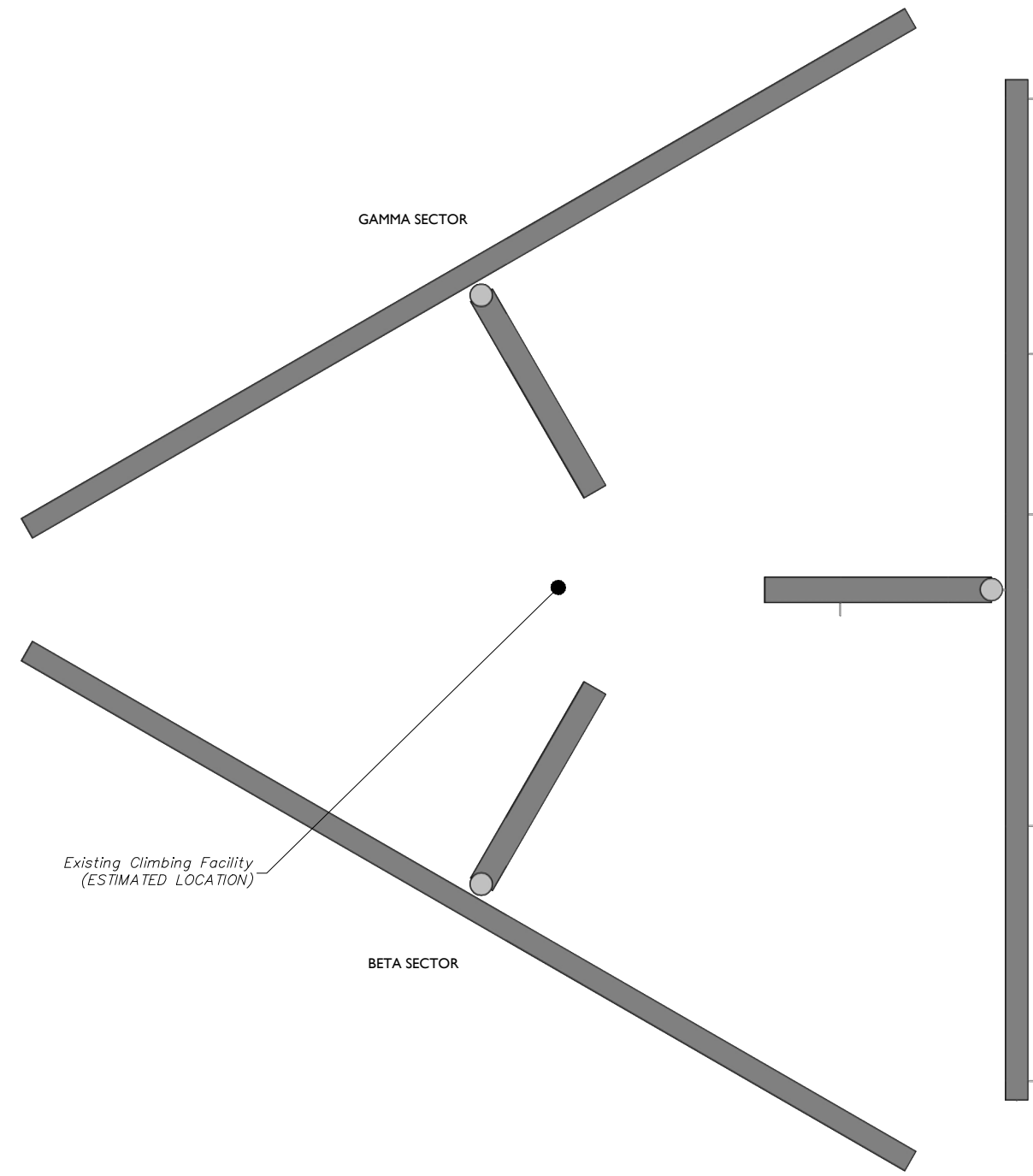
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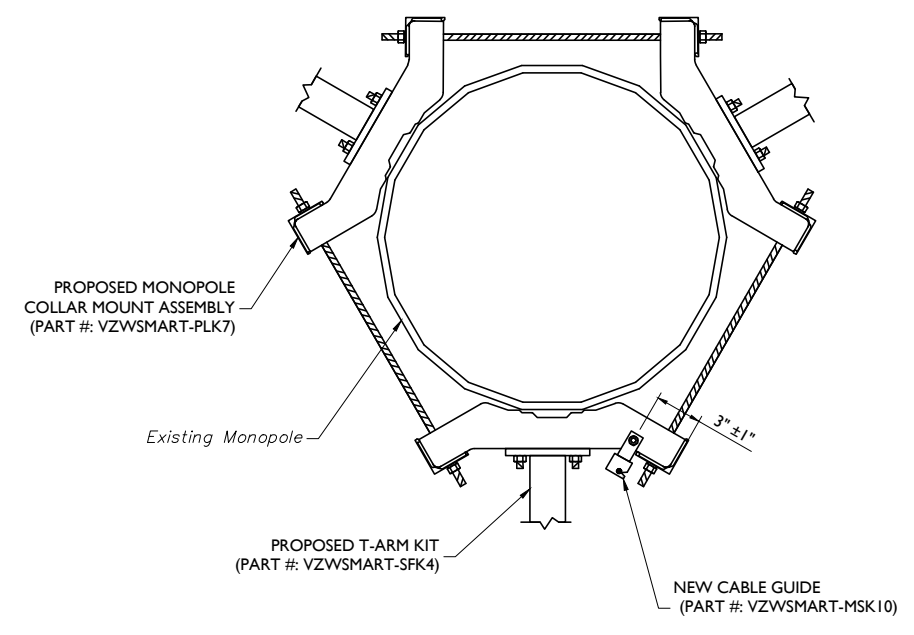
SHEET TITLE:
 CLIMBING FACILITY DETAIL

SHEET NUMBER:
 SCF-1



1 CLIMBING FACILITY LOCATION
 SCALE : N.T.S.

- STRUCTURAL NOTES:**
- CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.
 - 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.



2 PROPOSED (T-ARM) THREADED ROD ATTACHEMENT - PLAN VIEW
 SCALE : N.T.S.

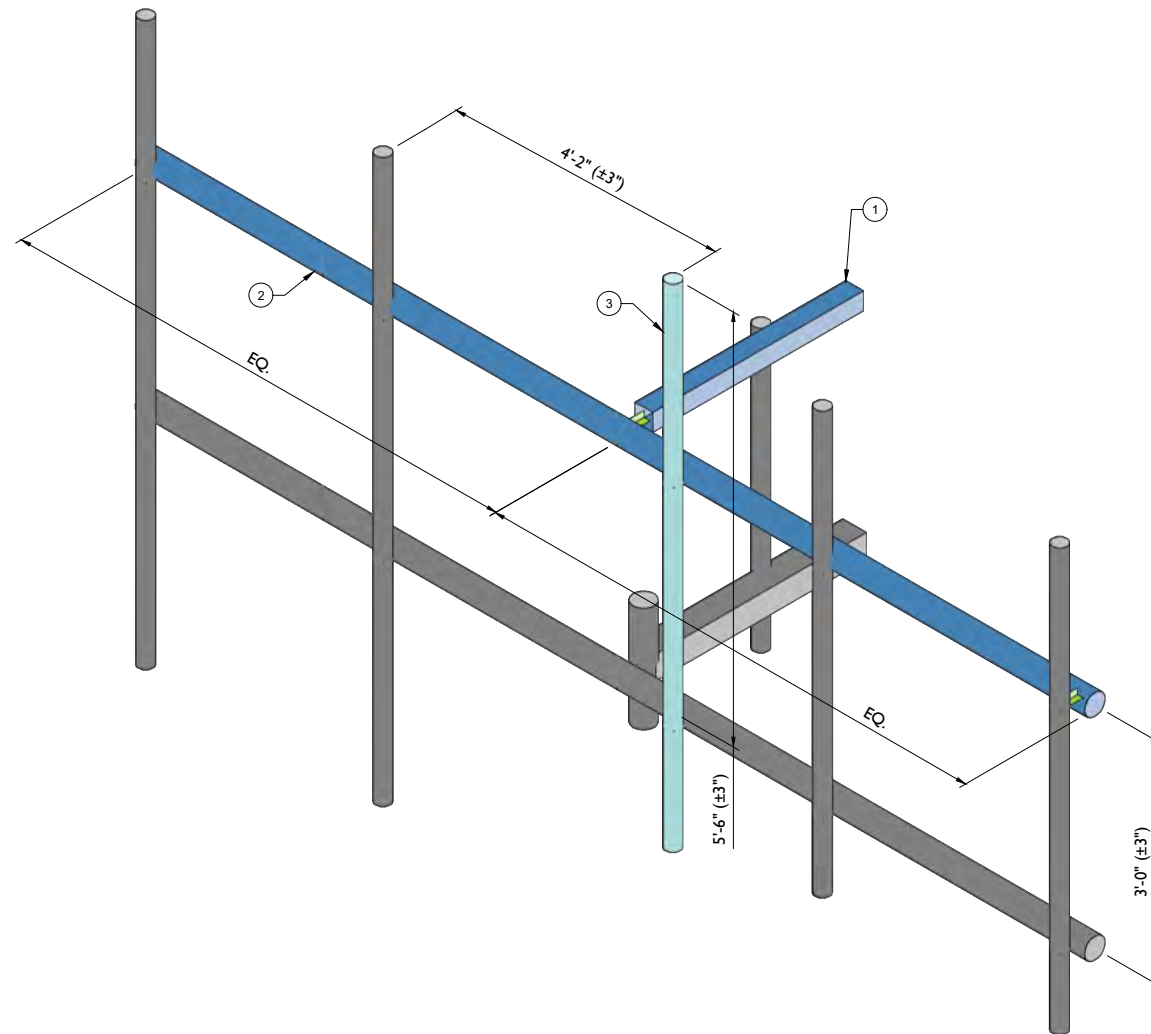


CLIMBING FACILITY PHOTO

LEGEND:

- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE				
NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	112'-0"	3	PROPOSED T-ARM KIT (PART #: VZWSMART-SFK4)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT OTHER END OF T-ARM KIT TO MONOPOLE COLLAR MOUNT ASSEMBLY (PART #: VZWSMART-PLK7).
2		3	162" LONG, P3 STD	GALVANIZED, CONNECT NEW HORIZONTAL TO ALL VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
3		3	RELOCATED MOUNT PIPE	CONNECT RELOCATED MOUNT PIPE TO EXISTING HORIZONTAL WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
<p>NOTES:</p> <p>MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.</p> <p>RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.</p>				



1

PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.

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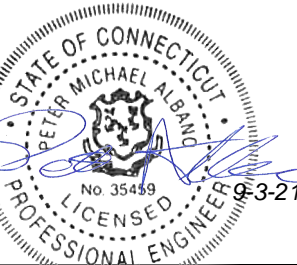
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Fax: 856.722.1120

SHEET TITLE: **MODIFICATION DETAILS**

SHEET NUMBER: **SS-1**

EXISTING MEMBERS

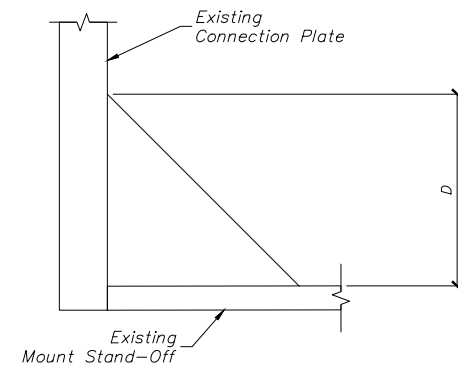
NO.	DESCRIPTION	SHAPE	NOTES	DEVIATIONS
1	FACE HORIZONTAL	162" LONG, P3 STD	TYP. OF 3, 1 PER SECTOR	± 3"
2	STANDOFF ARM	46" LONG, HSS4x4x1/4	TYP. OF 3, 1 PER SECTOR	± 3"
3	MAST PIPE	18" LONG, P3 STD	TYP. OF 3, 1 PER SECTOR	± 3"
4	MOUNT PIPE 1	96" LONG, P2 STD	TYP OF 6, 2 PER SECTOR	± 3"
5	MOUNT PIPE 2	84" LONG, P2 STD	TYP. OF 3, 1 PER SECTOR	± 3"
6	MOUNT PIPE 3	72" LONG, P2 STD	TYP. OF 6, 2 PER SECTOR	± 3"
7	OVP PIPE	48" LONG, P2 STD	ALPHA & BETA SECTOR	± 3"

NOTE:
LIST ALL MEMBER SIZE DEVIATIONS IN PROVIDED COLUMN. DIMENSION DEVIATIONS SHALL BE DOCUMENTED ON SKETCHES.

PIPE SIZE	O.D. (IN.)	THICKNESS (IN.)		
		STD	XSTR	XXSTR
P1 1/2	1.900	0.145	0.200	0.400
P2	2.375	0.154	0.218	0.436
P2 1/2	2.875	0.203	0.276	0.552
P3	3.500	0.216	0.300	0.600
P3 1/2	4.000	0.226	0.318	0.636
P4	4.500	0.237	0.337	0.674
P4 1/2	5.000	0.247	0.355	0.710
P5	5.563	0.258	0.375	0.750
P6	6.625	0.280	0.432	0.864

NOTE:

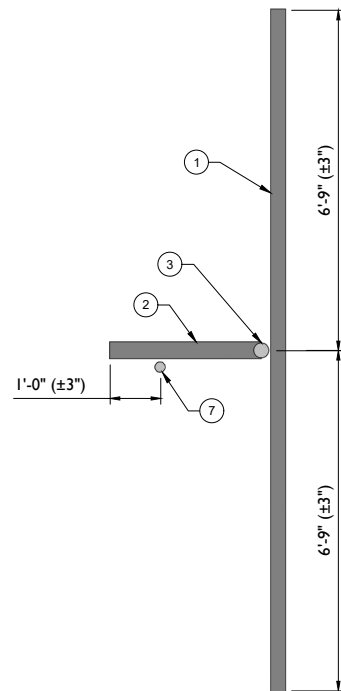
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND MEMBER SIZES SHOWN IN THIS SKETCH. DOCUMENT ALL VARIATIONS OR DEVIATIONS VIA PHOTOS AND SKETCHES AND PROVIDE TO THE EOR FOR EVALUATION. THE CONTRACTOR SHALL STOP CONSTRUCTION IF ANY VARIATIONS OR DEVIATIONS ARE FOUND AND OBTAIN APPROVAL TO PROCEED FROM EOR.



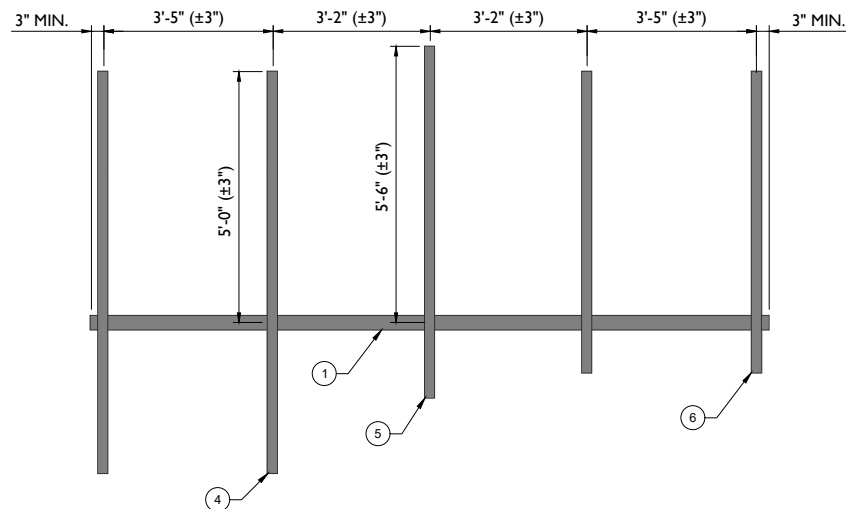
WELD MEASUREMENT NOTE:

CONTRACTOR SHALL MEASURE WELD SIZE 'D' AS SHOWN IN THIS DETAIL.

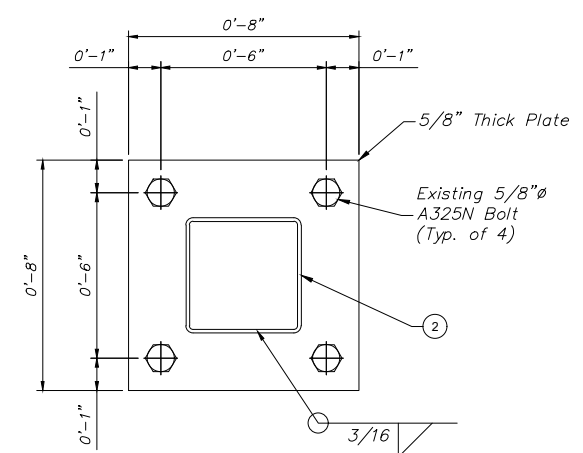
4 WELD MEASUREMENT DETAIL
SCALE : N.T.S.



1 EXISTING MOUNT GEOMETRY VERIFICATION PLAN VIEW
SCALE : N.T.S.



2 EXISTING MOUNT GEOMETRY VERIFICATION FRONT ELEVATION VIEW
SCALE : N.T.S.



NOTE:

REFER TO WELD MEASUREMENT DETAIL FOR DIRECTIONS ON OBTAINING WELD MEASUREMENTS.

3 MOUNT CONNECTION DETAIL
SCALE : N.T.S.



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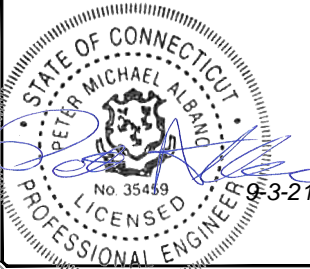


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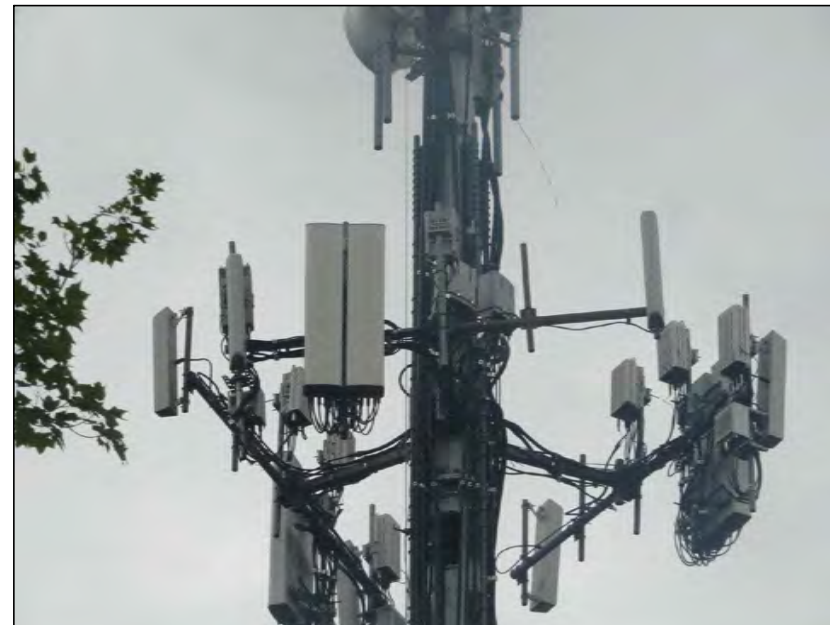
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Fax: 856.722.1120

SHEET TITLE:
GEOMETRY VERIFICATION SKETCHES

SHEET NUMBER:
SS-2



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4

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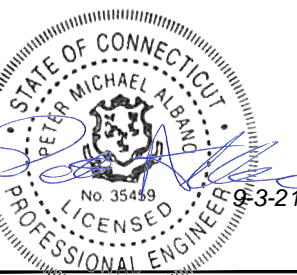
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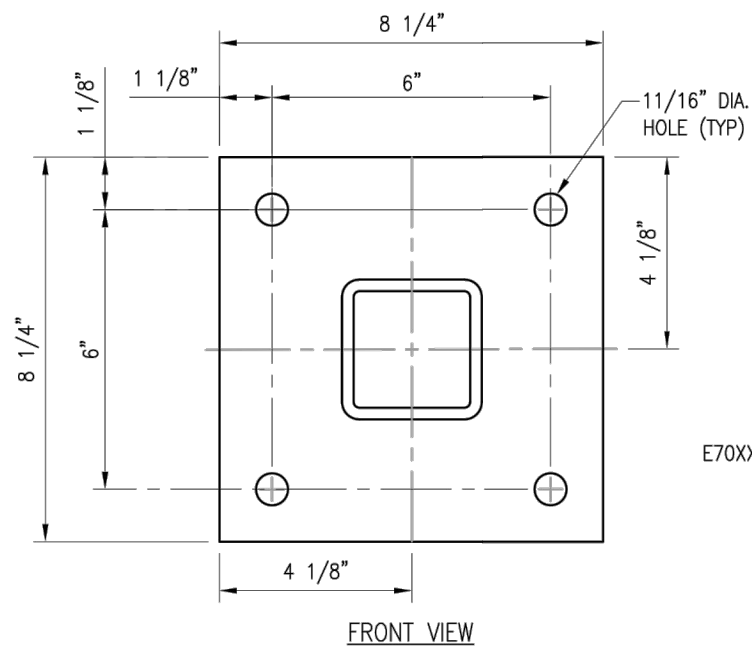
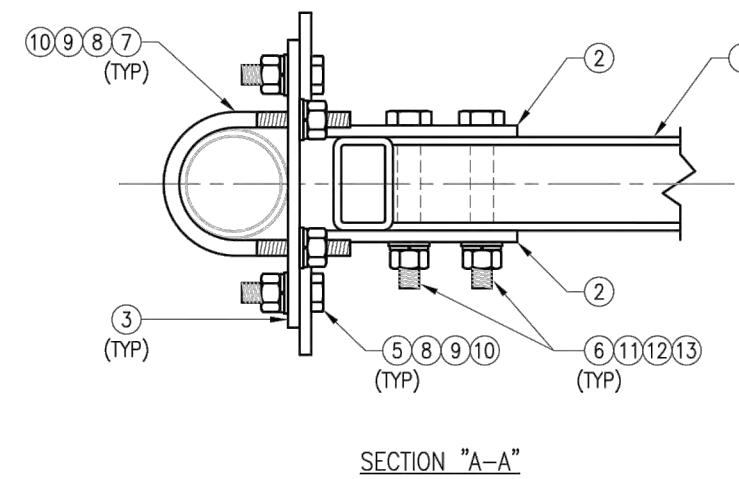
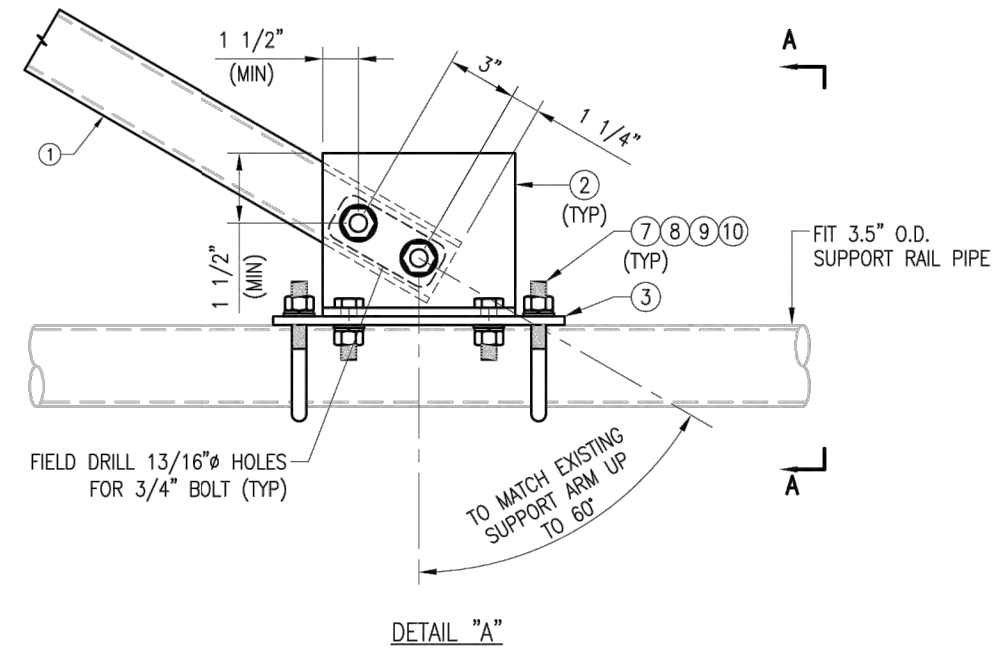
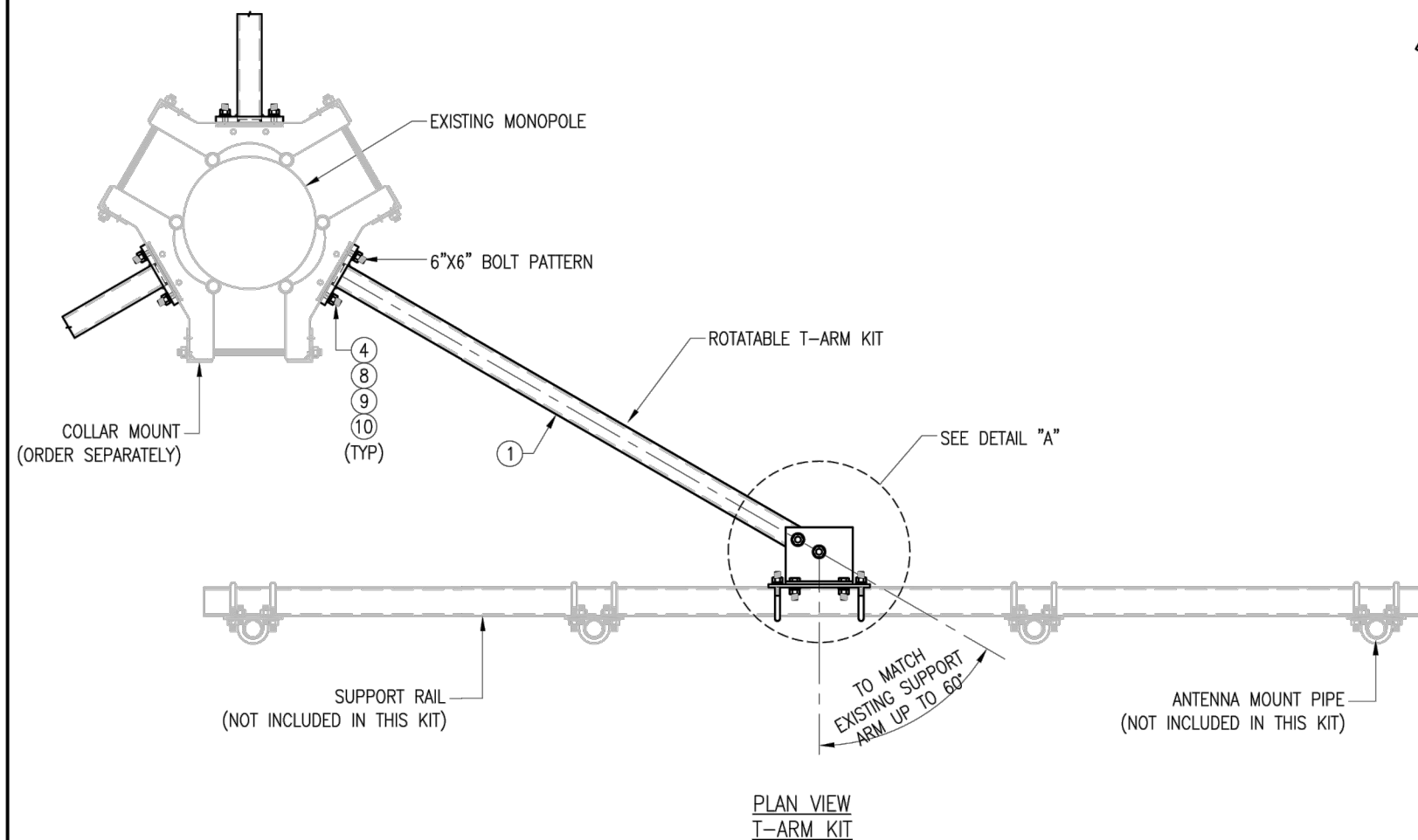
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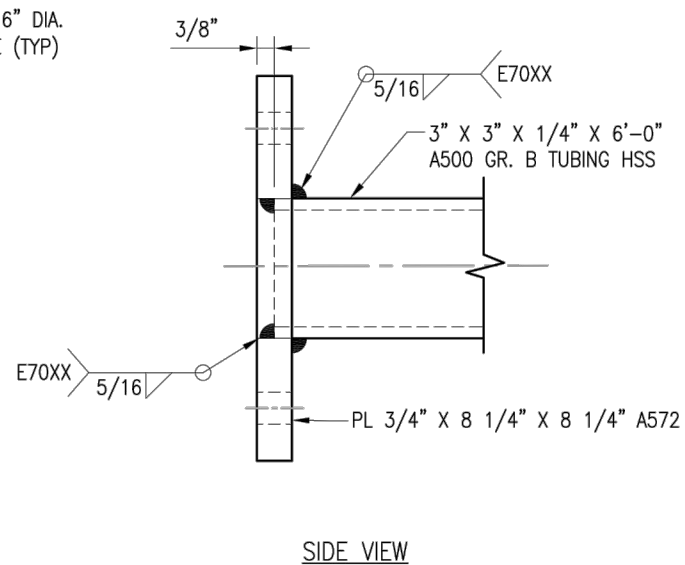
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 Fax: 856.722.1120

SHEET TITLE:
 MOUNT PHOTOS

SHEET NUMBER:
 SS-3



RO-TAW-6 WELDMENT



VZWSMART-SFK4 (T-ARM KIT)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	RO-TAW-6	T-ARM WELDMENT	SFK4-F1	71
2	2	BP825-94375	PL 3/8" X 8 1/4" X 9 7/16" A36 BEND PLATE	SFK4-F2	17
3	1	PL375-92512025	PL 3/8" X 9 1/4" X 1'-0 1/2" A36	SFK4-F3	12
4	4	---	BOLT 5/8" X 2 1/4" A325	---	0
5	4	---	BOLT 5/8" X 2" A325	---	0
6	2	---	BOLT 3/4" X 5 1/4" A325	---	0
7	2	MS02-625-3625-600	RU-BOLT 5/8" X 3 5/8" I.W. X 6" I.L. A36 (OR EQUIV.)	RBC-1	3
8	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
9	12	LW-625	5/8" HDG LOCK WASHER	---	0
10	12	NUT-625	5/8" HDG HEX NUT	---	1
11	2	FW-75	3/4" HDG USS FLAT WASHER	---	0
12	2	LW-75	3/4" HDG LOCK WASHER	---	0
13	2	NUT-75	3/4" HDG HEX NUT	---	0
GALVANIZED WT					106

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

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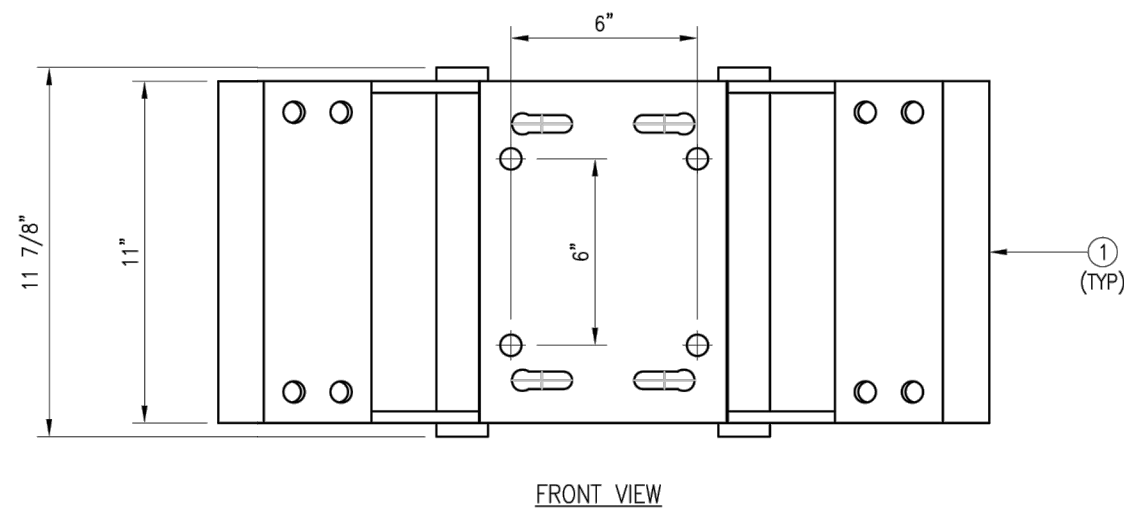
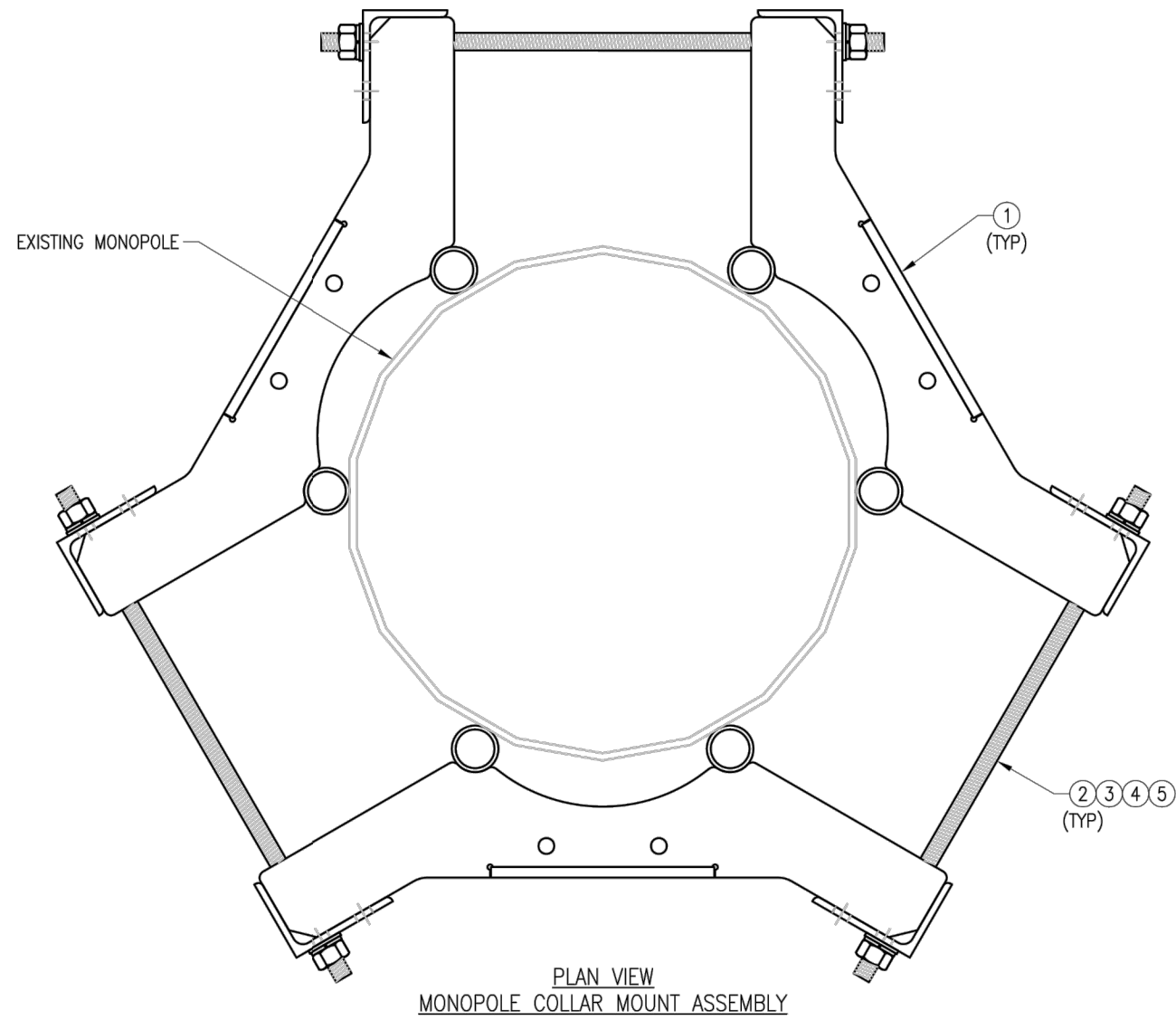
REV. DESCRIPTION BY DATE
△ FIRST ISSUE BT 05/08/20

SHEET TITLE:

VZWSMART-SFK4
T-ARM KIT

SHEET NUMBER: REV #:

VZWSMART-SFK4 0



NOTES:
 1. FIT 12" TO 45" DIA MONOPOLE.
 2. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	---
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					150

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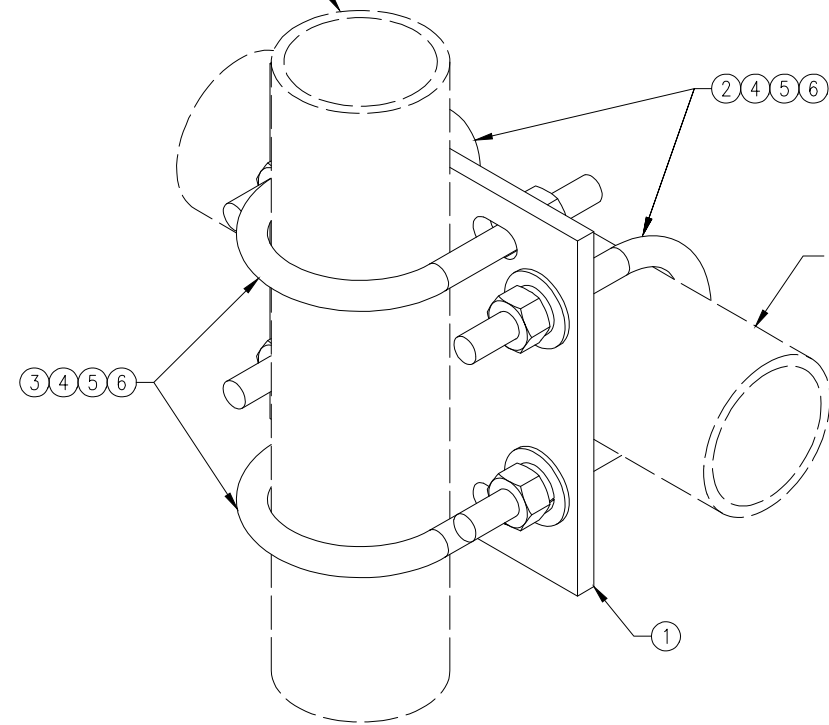
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
 VZSMART-PLK7
 MONOPOLE COLLAR
 MOUNT ASSEMBLY

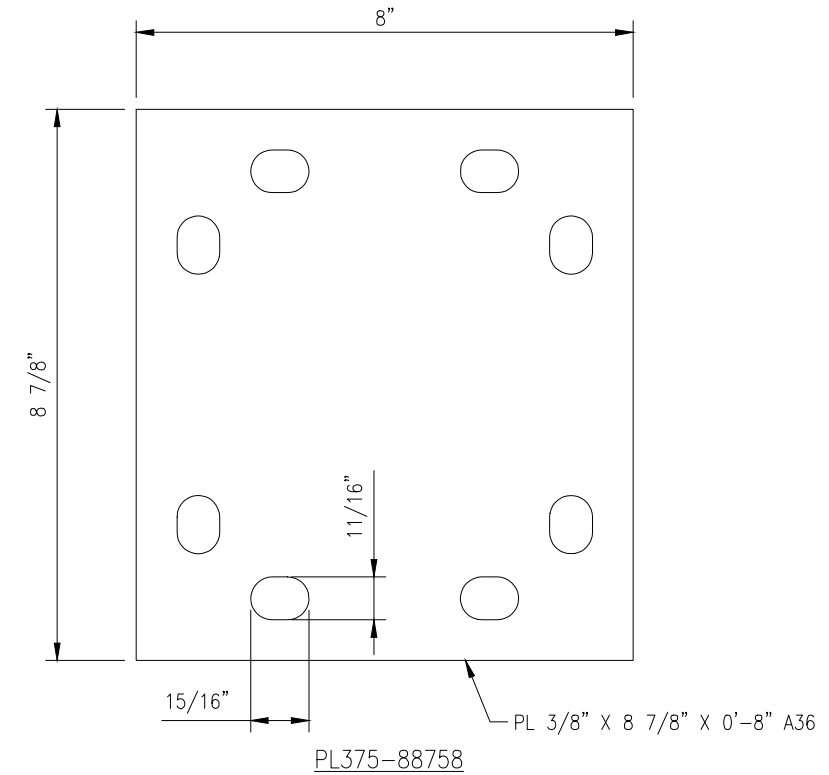
SHEET NUMBER: VZSMART-PLK7 REV #: 0



FITS 2.375" O.D. AND 2.875" O.D.
 VERTICAL PIPE.
 (NOT INCLUDED IN THIS KIT)



FITS 3.5" O.D. AND 4" O.D.
 HORIZONTAL PIPE.
 (NOT INCLUDED IN THIS KIT)



DRAWN BY: H.R		CHECKED BY: HMA	
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R	05/08/20

SHEET TITLE:
 VZWSMART-MSK2
 CROSSOVER PLATE

SHEET NUMBER: VZWSMART-MSK2
 REV #: 0

VZWSMART-MSK2 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-88758	PL 3/8" X 8 3/4" X 0'-8" A36	MSK2-F1	8
2	2	MS02-625-4125-600	RU-BOLT 5/8" X 4 1/8" I.W. X 6" I.L. A36 (OR EQUIV.)	RBC-1	3
3	2	MS02-625-300-500	RU-BOLT 5/8" X 3" I.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	3
4	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
5	8	LW-625	5/8" HDG LOCK WASHER	---	0
6	8	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					15

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