



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

September 19, 2023

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

RE: **Notice of Exempt Modification for Verizon**
Crown #876390_Crown_VZW
116 Grant Hill Road, Brooklyn, CT 06234
Latitude: 41° 47' 29.64"/ Longitude: -72° 0' 54.04"

Dear Ms. Bachman:

Verizon Wireless is requesting to file an exempt modification for an existing tower located at 116 Grant Hill Road, Brooklyn, CT 06234. The property and tower are owned by Global Signal/Crown Castle. Verizon now intends to add three (3) interference mitigation filters to be installed at the 119-foot level of the tower of the 150-foot monopole. This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G(LTE) and/or 5GNR capable through remote software configuration and either or both services may be turned on or off at various times.

Panned Modification:

Tower:

Installed New:

(3) Kaelus BSF0020F3V1-1 Twin Bandstop 900MHZ Interference Mitigation Filters

The proposed work in this application only pertains to the installation of interference mitigation filter(s) and does not involve any additional equipment that may be called out in the Mount Analysis and/or in Table 1 of the Structural Analysis Reports.

The facility was approved by the Town of Brooklyn though the original zoning documents have not been located despite diligent inquiry and effort. The original Building Permit #5802 was issued on April 14, 2000 by the Town of Brooklyn. No conditions of the approval are known. The Connecticut Siting Council approved tower sharing on July 8, 2003. Please see attached.

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 First Selectman Austin Tanner and Town Planner Jana Butts Roberson for the municipality. Global Signal/Crown Castle is the property and tower owner. The proposed modifications will not result in an increase in the height of the existing tower.

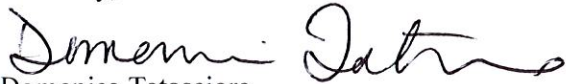
1. The proposed modifications will not require the extension of the site boundary.

The Foundation for a Wireless World.
CrownCastle.com

2. The proposed modification will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
3. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communication Commission safety standard.
4. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
5. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Verizon respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Domenica Tatasciore.

Sincerely,



Domenica Tatasciore
Site Acquisition Specialist
1800 W. Park Drive
Westborough, MA 01581
(508) 621-9161/ Domenica.Tatasciore@crowncastle.com

Attachments

cc:

First Selectman Austin Tanner
Town of Brooklyn
4 Wolf Den Road
Brooklyn, CT 06234
860-779-3411

Jana Butts Roberson, Town Planner
Town of Brooklyn
4 Wolf Den Road
Brooklyn, CT 06234
860-779-3411

Global Signal/Crown Castle, Property & Tower Owner

From: TrackingUpdates@fedex.com
To: [Tatasciore, Domenica](#)
Subject: FedEx Shipment 773364567020: Your package has been delivered
Date: Tuesday, September 19, 2023 10:36:44 AM

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



Hi. Your package was
delivered Tue, 09/19/2023 at
10:29am.



Delivered to 4 WOLF DEN RD, BROOKLYN, CT 06234
Received by K.BISSON

OBTAIN PROOF OF DELIVERY

How was your delivery ?



TRACKING NUMBER [773364567020](#)

FROM Crown Castle
1800 West Park Drive
Suite 200
WESTBOROUGH, MA, US, 01581

TO Town of Brooklyn
First Selectman Austin Tanner
4 Wolf Den Road
BROOKLYN, CT, US, 06234

REFERENCE 799001.7680

SHIPPER REFERENCE 799001.7680

SHIP DATE Mon 9/18/2023 05:50 PM

DELIVERED TO Receptionist/Front Desk

PACKAGING TYPE FedEx Envelope

ORIGIN WESTBOROUGH, MA, US, 01581

DESTINATION BROOKLYN, CT, US, 06234

NUMBER OF PIECES 1

TOTAL SHIPMENT WEIGHT 0.50 LB

SERVICE TYPE FedEx Priority Overnight

Wondering when a package will arrive?

Enter your tracking number to see your estimated delivery time within a 4-hour window.

[TRACK A PACKAGE](#)

From: TrackingUpdates@fedex.com
To: [Tatasciore, Domenica](#)
Subject: FedEx Shipment 773364580050: Your package has been delivered
Date: Tuesday, September 19, 2023 10:36:47 AM

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Hi. Your package was
delivered Tue, 09/19/2023 at
10:29am.



Delivered to 4 WOLF DEN RD, BROOKLYN, CT 06234
Received by K.BISSON

[OBTAIN PROOF OF DELIVERY](#)

How was your delivery ?



TRACKING NUMBER	773364580050
FROM	Crown Castle 1800 West Park Drive Suite 200 WESTBOROUGH, MA, US, 01581
TO	Town of Brooklyn Jana Butts Roberson, Town Planner 4 Wolf Den Road BROOKLYN, CT, US, 06234
REFERENCE	799001.7680
SHIPPER REFERENCE	799001.7680
SHIP DATE	Mon 9/18/2023 05:50 PM
DELIVERED TO	Receptionist/Front Desk
PACKAGING TYPE	FedEx Envelope
ORIGIN	WESTBOROUGH, MA, US, 01581
DESTINATION	BROOKLYN, CT, US, 06234
NUMBER OF PIECES	1
TOTAL SHIPMENT WEIGHT	0.50 LB
SERVICE TYPE	FedEx Priority Overnight

Wondering when a
package will arrive?

Enter your tracking number to see
your estimated delivery time within a
4-hour window.

[TRACK A PACKAGE](#)



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

Stephen J. Humes
LeBoeuf, Lamb, Greene & MacRae
Goodwin Square
225 Asylum Street
Hartford, CT 06103

RE: **TS-T-MOBILE-019-030617** - Omnipoint Communications, Inc. request for an order to approve tower sharing at an existing telecommunications facility located at 116 Grant Hill Road, Brooklyn, Connecticut.

Dear Attorney Humes:

At a public meeting held July 8, 2003, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated June 17, 2003.

Thank you for your attention and cooperation.

Very truly yours,

Pamela B. Katz, P.E.
Chairman

PBK/laf

c: Honorable Maurice F. Bowen, First Selectman, Town of Brooklyn
Chester Dobrowski, Zoning Enforcement Officer, Town of Brooklyn
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels, LLP
Christopher B. Fisher, Esq., Cuddy & Feder LLP

PERMIT NO. No. 005802 **APPLICATION FOR BUILDING PERMIT** **TOWN OF BROOKLYN CONNECTICUT**
 (Application must be typed or printed)

LOCATION OF JOB (NO. & STREET) <u>116 Grant Hwy</u>	CARD NO.	MAP <u>4</u>	BLOCK	LOT <u>5</u>
OWNER <u>Robert Berrin</u>	TEL	ADDRESS (NO., STREET, TOWN, STATE, ZIP) <u>None</u>		
APPLICANT <u>Sprint Spectrum</u>	TEL	ADDRESS (NO., STREET, TOWN, STATE, ZIP) <u>9 Barnes Rd Wallingford Ct 06492</u>		
BUILDER	TEL	ADDRESS (NO., STREET, TOWN, STATE, ZIP)		
LICENSE #	NAME & TEL # OF PERSON RESPONSIBLE			

All Permits Must Be Posted And Visible From The Street

SIZE OF BUILDING STORIES _____ NO. OF FAMILIES _____ HEIGHT _____ DEPTH _____ FRONT _____ TOTAL FLOOR AREA (NEW) _____ SQ.FT.	DISTANCES FROM LOT LINE (Circle Front Lot Line) EAST _____ WEST _____ NORTH _____ SOUTH _____ PROPOSED USE ☐ NEW HOME (Single Family) ☐ MULTI FAMILY # OF BEDROOMS _____ WATER SUPPLY _____ ☐ ADDITION ☐ GARAGE ☐ DECK/PORCH ☐ SHED ☐ POOL ☐ COMMERCIAL/PUBLIC ☐ OTHER _____	OTHER REQUIREMENTS ZONING PERMIT _____ REQ'D. _____ ATTACHED _____ PLOT PLAN _____ REQ'D. _____ ATTACHED _____ SEPTIC PERMIT _____ REQ'D. _____ ATTACHED _____ APPROVALS ZONING _____ FIRE MARSHAL _____ WETLAND _____ ENGINEER _____ SANITATION _____ STREET SUPT. _____ FEE COVERS <table border="1"> <thead> <tr> <th></th> <th>VALUE</th> <th>FEE</th> </tr> </thead> <tbody> <tr> <td>☒ CONSTRUCTION</td> <td><u>118,000</u></td> <td><u>826</u></td> </tr> <tr> <td>☐ PLUMBING</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>☐ HEATING</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>☐ ELECTRICAL</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>☐ SEPTIC</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>☒ ZONING</td> <td>_____</td> <td><u>35</u></td> </tr> <tr> <td>☐ OTHER</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>TOTAL</td> <td><u>118,000</u></td> <td><u>861</u></td> </tr> </tbody> </table> CHECK # <u>0588</u> DATE PAID <u>4-6-00</u>		VALUE	FEE	☒ CONSTRUCTION	<u>118,000</u>	<u>826</u>	☐ PLUMBING	_____	_____	☐ HEATING	_____	_____	☐ ELECTRICAL	_____	_____	☐ SEPTIC	_____	_____	☒ ZONING	_____	<u>35</u>	☐ OTHER	_____	_____	TOTAL	<u>118,000</u>	<u>861</u>
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☐ OTHER	_____	_____																											
TOTAL	<u>118,000</u>	<u>861</u>																											
TYPE OF WORK BEING DONE ☐ ORIG. CONSTRUCTION ☐ REPAIR ☐ ALTERATION ☐ DEMOLITION ☐ ADDITION	CONSTRUCTION VALUE ESTIMATED _____ ACTUAL _____	TYPE OF HEAT ☐ ELECTRIC ☐ SOLAR ☐ GAS ☐ OTHER _____ ☐ OIL																											
DESCRIPTION OF WORK / REMARKS: <u>150' tower telecommunications tower</u>																													

All work covered by this application has been authorized by the (owner) or (agent) of this property and will be done according to state regulations. This permit shall lapse if work does not commence within 6 months.

<u>4/17/00</u> Date	<u>Chris J. Roberts</u> Owner/Agent Signature	☒ APPROVED <u>4/17/00</u> Date	☐ DISAPPROVED <u>[Signature]</u> Building Official
------------------------	--	--	---

Office Copy - White

Owner Copy - Yellow

Assessor's Copy - Pink

Building Official - Green

Building Official - Goldenvod

116 GRANT HILL RD

Location 116 GRANT HILL RD

Mblu 4 / 5 / CELL /

Acct# 00024910

Owner SPRINT SPECTRUM

Assessment \$845,500

Appraisal \$1,207,800

PID 3735

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$1,207,800	\$0	\$1,207,800

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$845,500	\$0	\$845,500

Owner of Record

Owner SPRINT SPECTRUM

Sale Price \$0

Co-Owner C/O GLOBAL SIGNAL AC1 II LLC

Certificate

Care Of

Book 0000

Address PMB353

Page 0000

4017 WASHINGTON RD

Sale Date 10/01/2009

MCMURRAY, PA 15317

Instrument

Qualified U

Ownership History

Ownership History						
Owner	Sale Price	Certificate	Instrument	Sale Date	Book	Page
SPRINT SPECTRUM	\$0			10/01/2009	0000	0000

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

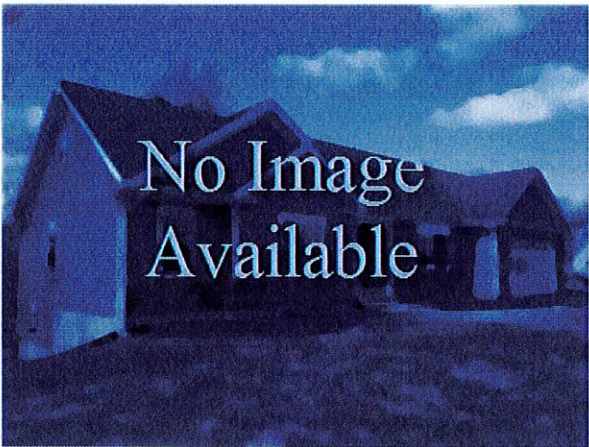
Replacement Cost: \$0

Building Percent Good:

Replacement Cost
Less Depreciation: \$0

Building Attributes	
Field	Description
Style:	Outbuildings
Model	
Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Num Kitchens	
Cndtn	
Num Park	
Fireplaces	
Fndtn Cndtn	
Basement	

Building Photo



(https://images.vgsi.com/photos/BrooklynCTPhotos/default.jpg)

Building Layout

 Building Layout (ParcelSketch.ashx?pid=3735&bid=3668)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 4300
Description TEL TWR MDL00
Zone
Neighborhood
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 0
Frontage
Depth
Assessed Value \$0
Appraised Value \$0

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
SHD5	Cell Shed			360.00 SF	\$54,000	1
FN3	FENCE-6' CHAIN			280.00 L.F.	\$1,300	1
TWR	CELL TOWER			1.00 UNITS	\$90,000	1
ARY	CELL ARRAY			5.00 UNIT	\$1,062,500	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$1,207,800	\$0	\$1,207,800
2019	\$1,055,300	\$0	\$1,055,300
2018	\$1,055,300	\$0	\$1,055,300

Assessment			
Valuation Year	Improvements	Land	Total
2020	\$845,500	\$0	\$845,500
2019	\$738,700	\$0	\$738,700
2018	\$738,700	\$0	\$738,700



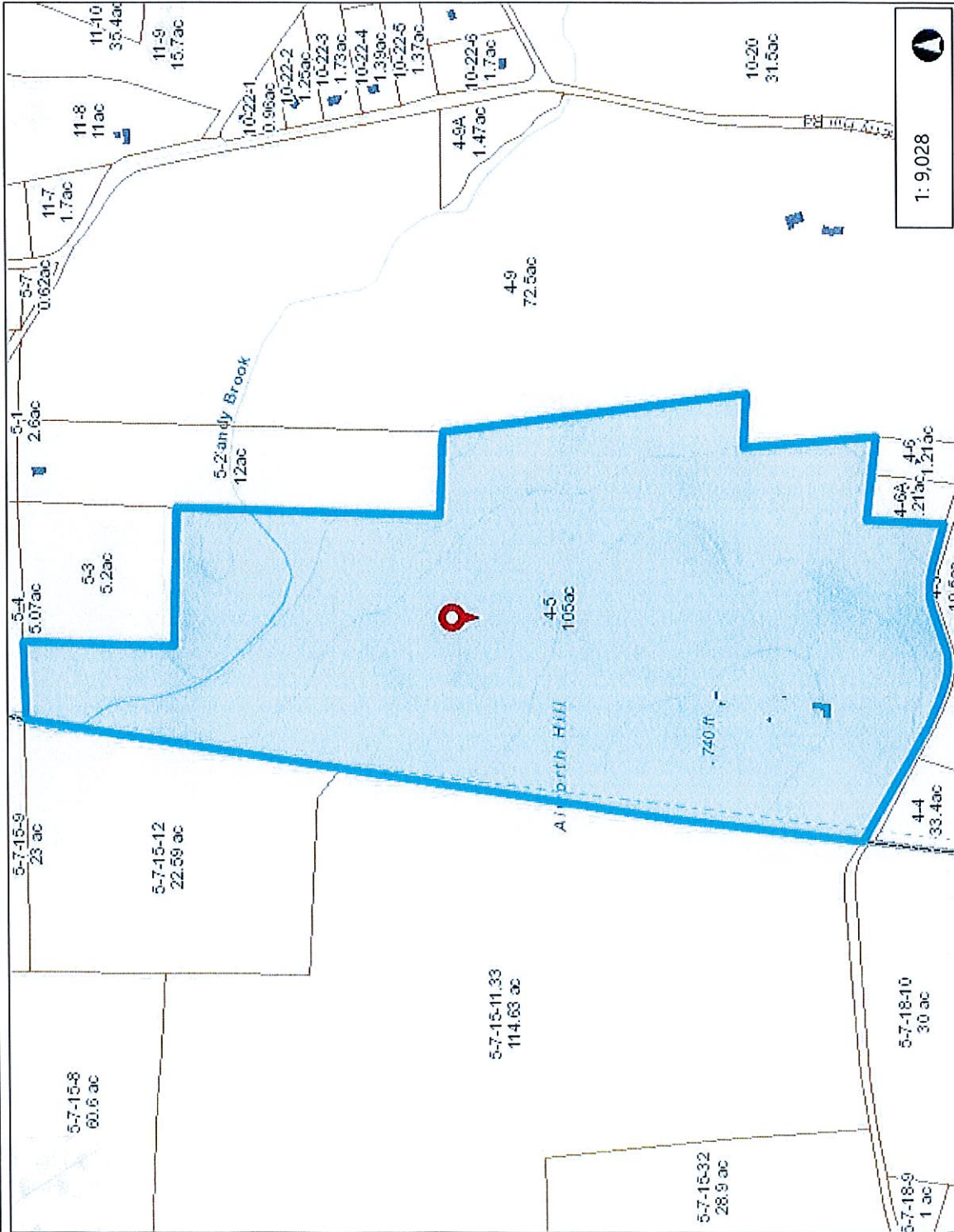
Norway GIS Site



- Legend
- Town
 - Buildings 2012
 - Parcels

Notes

116 Grant Hill Road, Brooklyn, CT



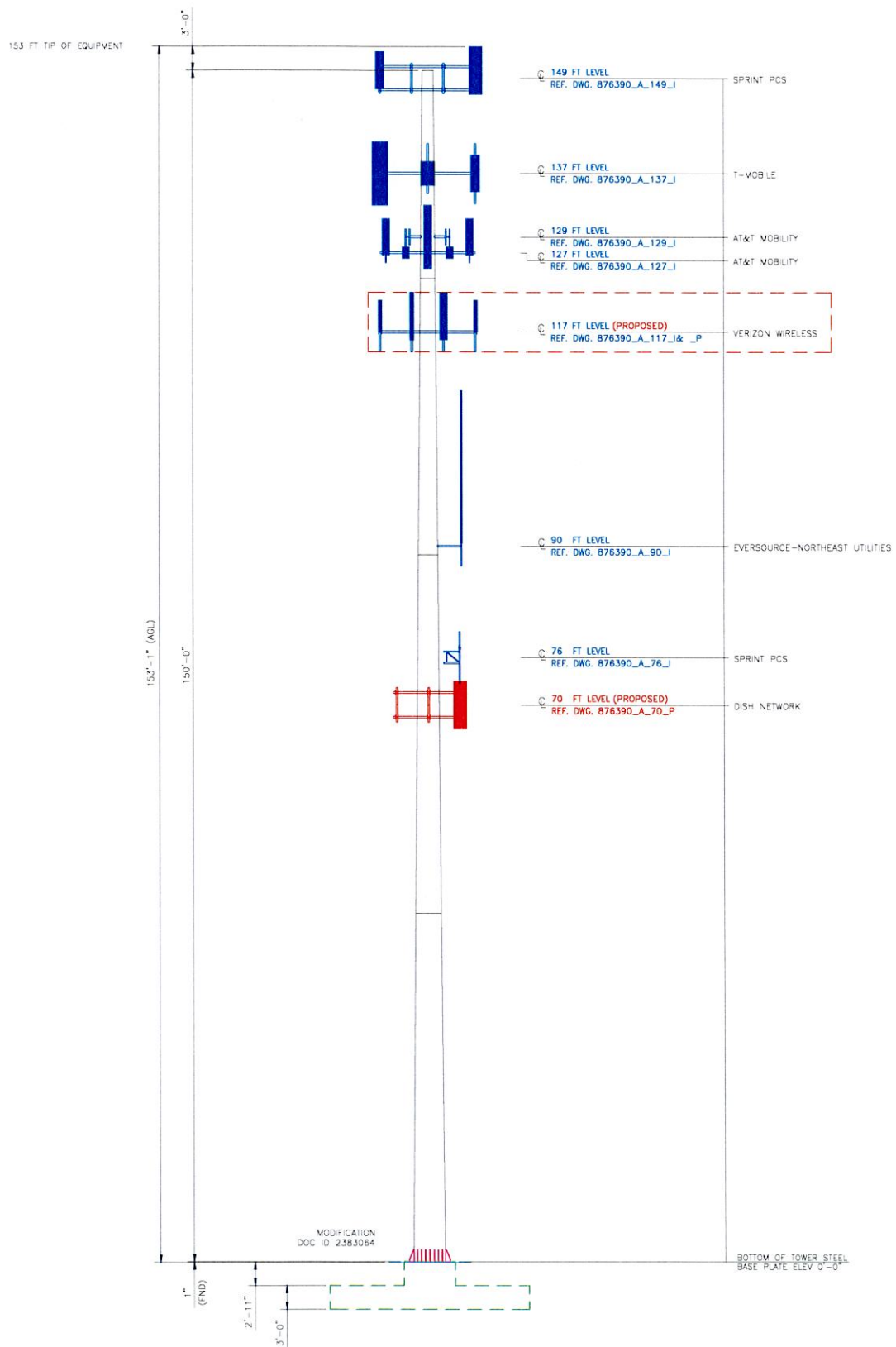
1: 9,028



This map is a user generated static output from an internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION

WGS_1984_Web_Mercator_Auxiliary_Sphere
© Latitude Geographics Group Ltd.



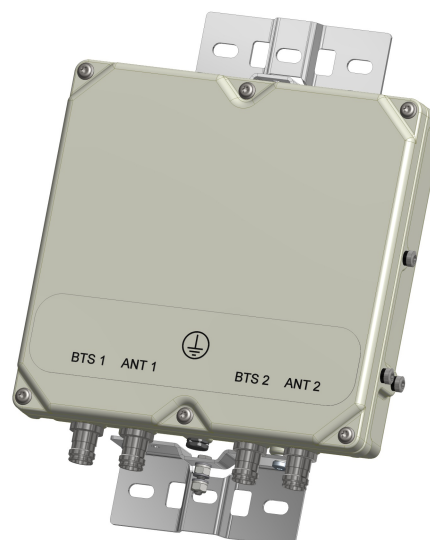
BSF0020F3V1-1

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The BSF0020 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the BSF0020 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the BSF0020 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.

FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available



TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	

ELECTRICAL

Impedance	50Ohms
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm

DC / AISG

Passband	0 - 13MHz
Insertion loss	0.3dB maximum
Return loss	15dB minimum
Input voltage range	± 33V
DC current rating	2A continuous, 4A peak
Compliance	3GPP TS 25.461

ENVIRONMENTAL

For further details of environmental compliance, please contact Kaelus.

Temperature range	-20°C to +60°C -4°F to +140°F
Ingress protection	IP67
Altitude	2600m 8530ft
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE

MECHANICAL

Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)
Weight	8.0 kg 17.6 lbs (no bracket)
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
BSF0020F3V1	TWIN, 2 in / 2 out	DC/AISG PASS NO BRACKET	4.3-10 (F)
BSF0020F3V1-1	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-2	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM

ANT1



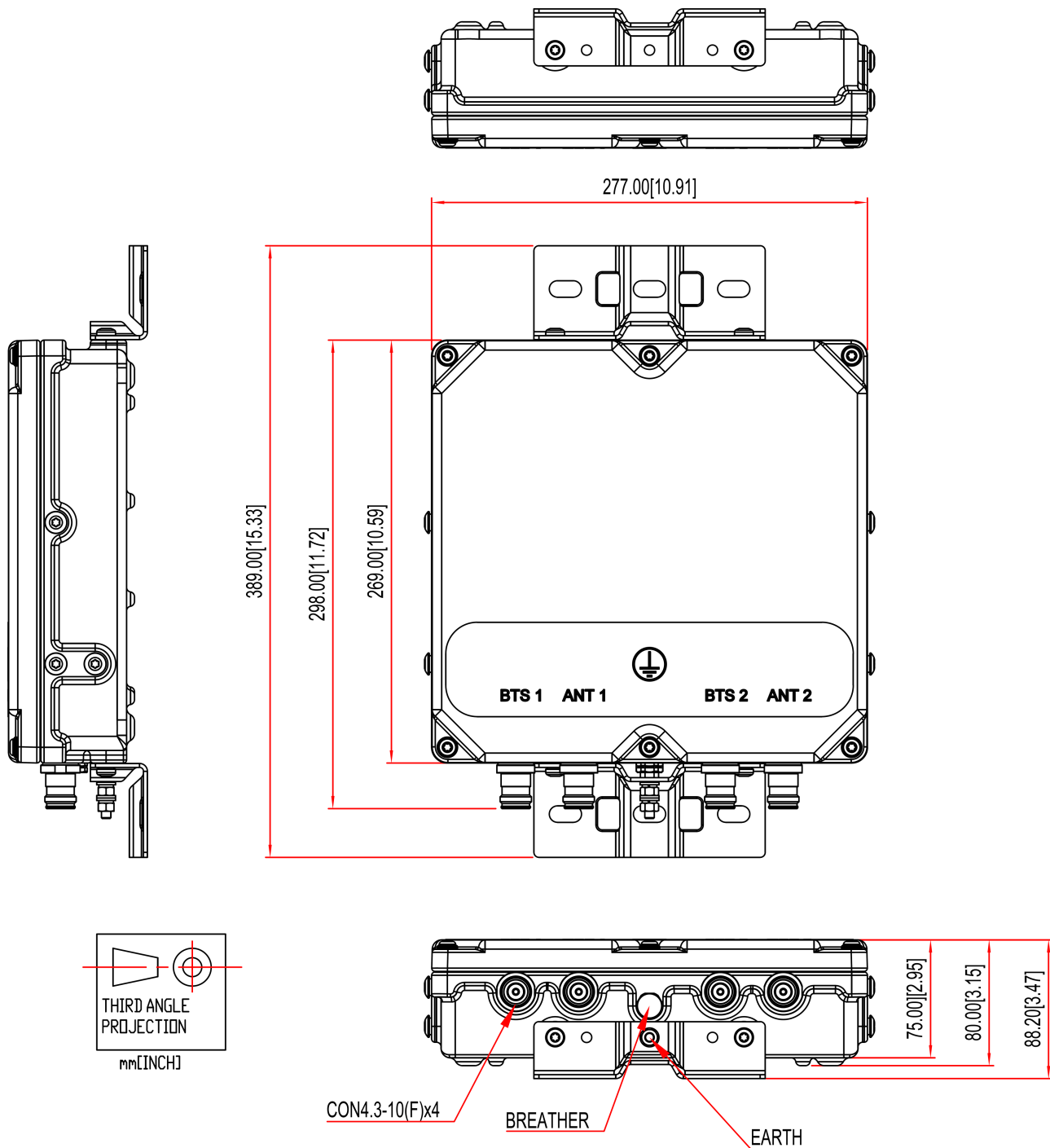
BTS1

ANT2



BTS2

MECHANICAL BLOCK DIAGRAM





Colliers Engineering & Design CT, PC
1055 Washington Boulevard
Stamford, CT 06901
203.324.0800
peter.albano@collierseng.com

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10206413
Colliers Engineering & Design CT, PC Project #: 23777060

July 10, 2023

Site Information

Site ID: 5000397339-VZW / BROOKLYN WEST CT
Site Name: BROOKLYN WEST CT
Carrier Name: Verizon Wireless
Address: 116 Grant Hill Road
Brooklyn, Connecticut 06234
Windham County
Latitude: 41.791806°
Longitude: -72.014775°

Structure Information

Tower Type: 140-Ft Monopole
Mount Type: 12.08-Ft Platform

FUZE ID # 17123681

Analysis Results

Platform: 43.8% Pass*

***Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

***Contractor PMI Requirements:

Included at the end of this MA report

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

*For additional questions and support, please reach out to:
pmisupport@colliersengineering.com*

Report Prepared By: Vincent DiGirolamo

Executive Summary:

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

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
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 674854 Dated July 27, 2021
Previous Mount Modification Report	Maser Consulting Connecticut Project #: 21777307A Dated November 12, 2021
Post Modification Inspection	Colliers Engineering & Design CT, PC Project #: 21777307 Dated March 21, 2023
Mount Mapping Report	Structural Components Site ID: 16272122 Dated October 20, 2021
Filter Add Scope	Provided by Verizon Wireless

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (DSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 125 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.975
Seismic Parameters:	S_s : 0.184 g S_1 : 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, L_v : 250 lbs. Maintenance Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
113.00	115.00	6	Antel	LPA-80080/4CF	Retained
		6	Commscope	NHH-65B-R2B	
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48	
		3	Samsung	RF4440d-13A	
		3	Samsung	RF4439d-25A	
		6	KAelus	BSF0020F3V1-1	Added

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 Colliers Engineering & Design CT, PC 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 Colliers Engineering & Design CT, PC 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 in accordance with the NSTD-446 Standard, 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. Colliers Engineering & Design 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:
 - Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Colliers Engineering & Design CT, PC.

Analysis Results:

Component	Utilization %	Pass/Fail
Face Horizontal	13.6	Pass
Standoff Horizontal	30.4	Pass
Corner Plate	20.0	Pass
Platform Crossmember	17.1	Pass
Grating Support	15.7	Pass
Mount Pipe	36.7	Pass
Cross Arm Plate	25.1	Pass
Support Rail	18.4	Pass
Support Rail Angle	32.4	Pass
Mount Connection	43.8	Pass

Structure Rating – (Controlling Utilization of all Components)	43.8%
---	--------------

Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	24.5	24.5	37.6	37.6
0.5	31.8	31.8	50.5	50.5
1	38.6	38.6	62.7	62.7

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations

Requirements:

The existing mount is **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

--

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

Attachments:

1. **Contractor Required Post Installation Inspection (PMI) Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – **Passing Mount Analysis**

Passing Mount Analysis requires a PMI due to a modification in loading.

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>.

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000397339

SMART Project #: 10206413

Fuze Project ID: 17123681

Purpose – to provide SMART Tool structural vendor 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 installation was completed in accordance with this Passing Mount Analysis.
- Contractor shall relay any data that can impact the performance of the mount, this includes safety issues.

Base Requirements:

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

Photo Requirements:

- *Photos taken at ground level*
 - Photo of Gate Signs showing the tower owner, site name, and number.
 - Overall tower structure after installation.
 - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- *Photos taken at Mount Elevation*
 - Photos showing the safety climb wire rope above and below the mount prior to installation.
 - Photos showing the climbing facility and safety climb if present.
 - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

☐ The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

☐ The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:

Issue:

Response:

Special Instruction Confirmation:

☐ The contractor has read and acknowledges the above special instructions.

☐ All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.

☐ The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

☐ The material utilized was approved by a SMART Tool engineering vendor as an “equivalent” and this approval is included as part of the contractor submission.

Comments:

--

Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:

☐ Yes ☐ No

Contractor certifies no new damage created during the current installation:

☐ Yes ☐ No

Contractor to certify the condition of the safety climb and verify no damage when leaving the site:

☐ Safety Climb in Good Condition ☐ Safety Climb Damaged

Certifying Individual:

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Sector: B

7/10/2023

Structure Type: Monopole

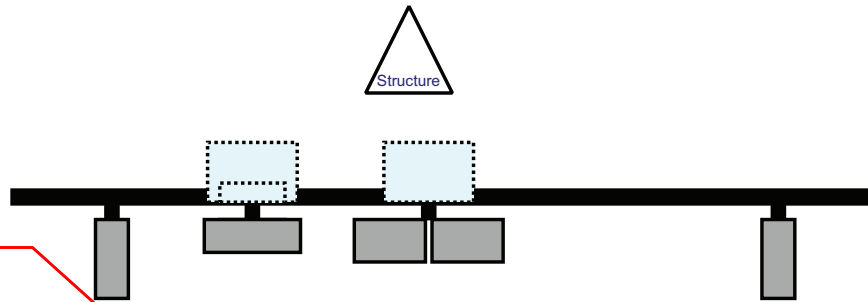
10206413

Mount Elev: 113.00

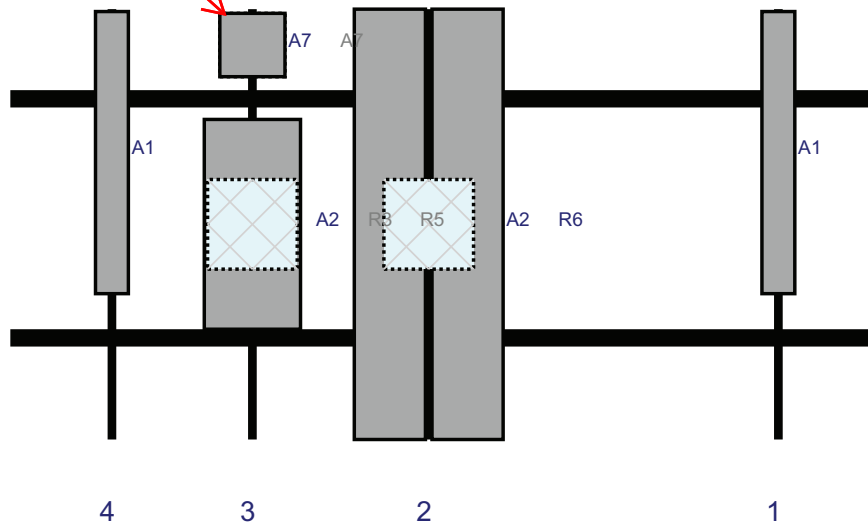
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Plan View

PROPOSED
FILTERS TO BE
MOUNTED BACK TO
BACK



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
A1	LPA-80080/4CF ____	47.2	5.5	128.5	1	a	Front	24	0	Retained	03/07/2023
A2	NHH-65B-R2B	72	11.9	70	2	a	Front	36	-6.5	Retained	03/07/2023
A2	NHH-65B-R2B	72	11.9	70	2	b	Front	36	6.5	Retained	03/07/2023
R6	RF4439d-25A	15	15	70	2	a	Behind	36	0	Retained	03/07/2023
R3	MT6407-77A	35.1	16.1	40.5	3	a	Front	36	0	Retained	03/07/2023
R5	RF4440d-13A	15	15	40.5	3	a	Behind	36	0	Retained	03/07/2023
A7	BSF0020F3V1-1	10.6	10.9	40.5	3	a	Behind	6	0	Added	
A7	BSF0020F3V1-1	10.6	10.9	40.5	3	b	Front	6	0	Added	
A1	LPA-80080/4CF ____	47.2	5.5	17	4	a	Front	24	0	Retained	03/07/2023

Sector: C

7/10/2023

Structure Type: Monopole

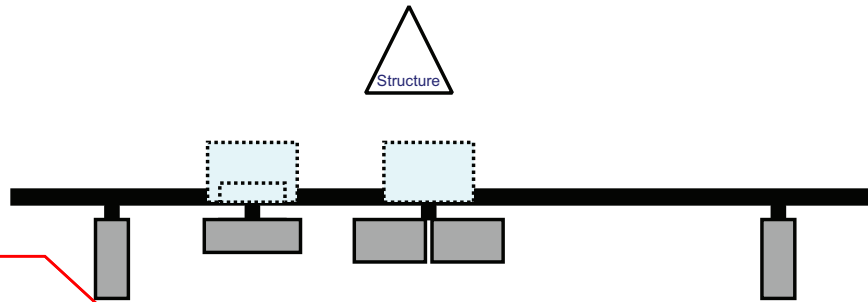
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Mount Elev: 113.00

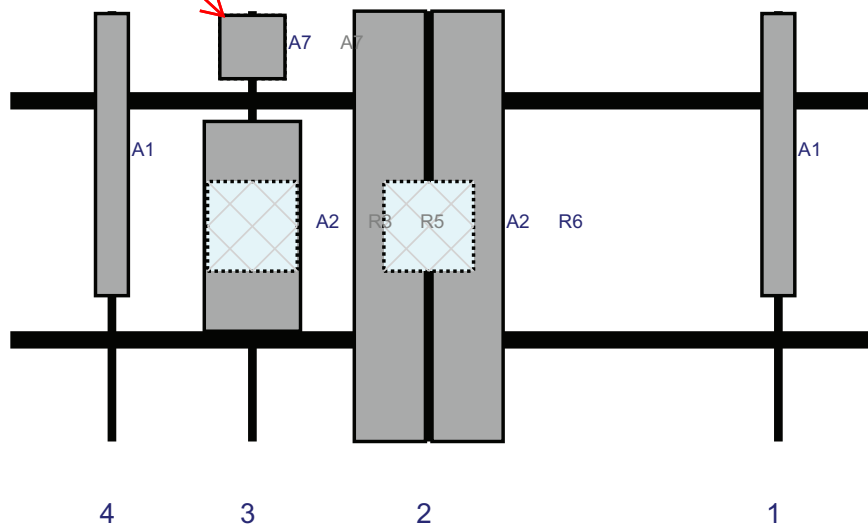
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Plan View

PROPOSED
FILTERS TO BE
MOUNTED BACK TO
BACK



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
A1	LPA-80080/4CF ____	47.2	5.5	128.5	1	a	Front	24	0	Retained	03/07/2023
A2	NHH-65B-R2B	72	11.9	70	2	a	Front	36	-6.5	Retained	03/07/2023
A2	NHH-65B-R2B	72	11.9	70	2	b	Front	36	6.5	Retained	03/07/2023
R6	RF4439d-25A	15	15	70	2	a	Behind	36	0	Retained	03/07/2023
R3	MT6407-77A	35.1	16.1	40.5	3	a	Front	36	0	Retained	03/07/2023
R5	RF4440d-13A	15	15	40.5	3	a	Behind	36	0	Retained	03/07/2023
A7	BSF0020F3V1-1	10.6	10.9	40.5	3	a	Behind	6	0	Added	
A7	BSF0020F3V1-1	10.6	10.9	40.5	3	b	Front	6	0	Added	
A1	LPA-80080/4CF ____	47.2	5.5	17	4	a	Front	24	0	Retained	03/07/2023

Sector: A

7/10/2023

Structure Type: Monopole

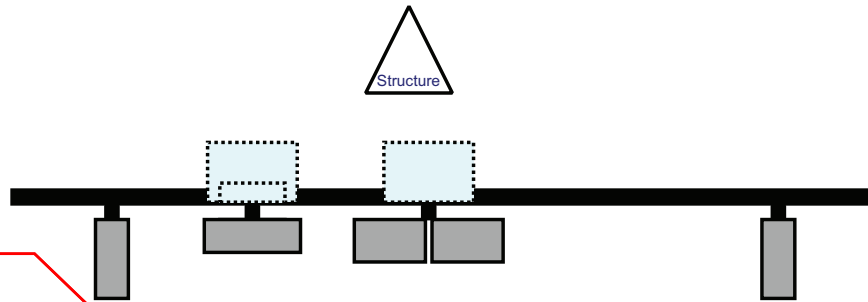
10206413

Mount Elev: 113.00

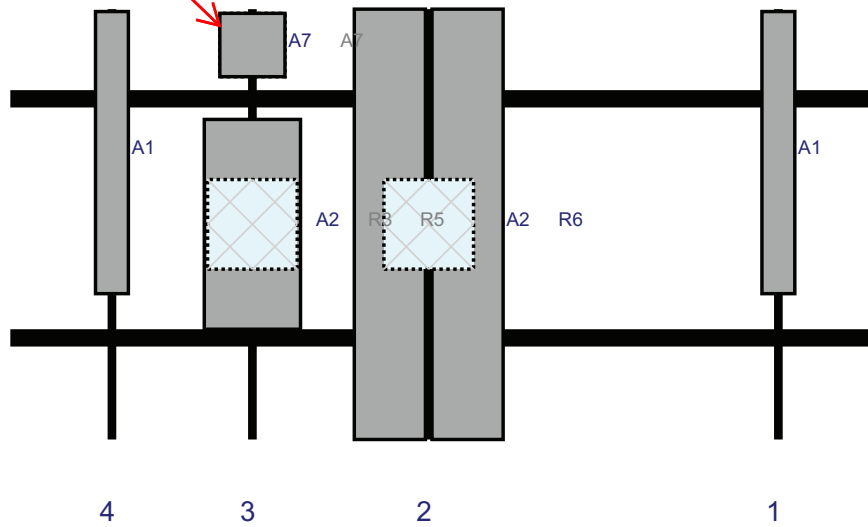
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Plan View

PROPOSED
FILTERS TO BE
MOUNTED BACK TO
BACK



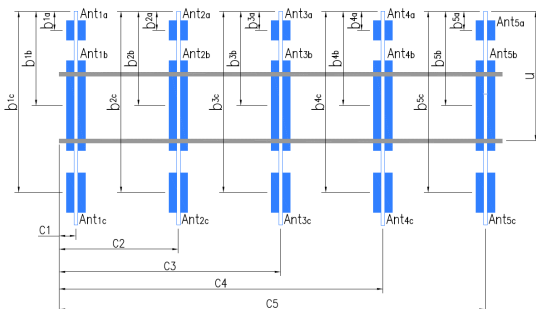
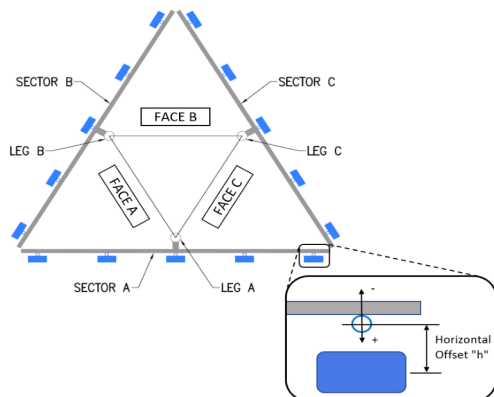
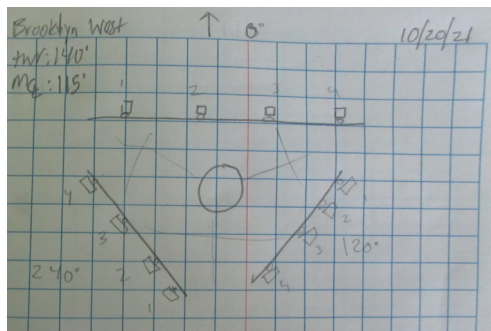
Front View - Looking at Structure



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
A1	LPA-80080/4CF ____	47.2	5.5	128.5	1	a	Front	24	0	Retained	03/07/2023
A2	NHH-65B-R2B	72	11.9	70	2	a	Front	36	-6.5	Retained	03/07/2023
A2	NHH-65B-R2B	72	11.9	70	2	b	Front	36	6.5	Retained	03/07/2023
R6	RF4439d-25A	15	15	70	2	a	Behind	36	0	Retained	03/07/2023
R3	MT6407-77A	35.1	16.1	40.5	3	a	Front	36	0	Retained	03/07/2023
R5	RF4440d-13A	15	15	40.5	3	a	Behind	36	0	Retained	03/07/2023
A7	BSF0020F3V1-1	10.6	10.9	40.5	3	a	Behind	6	0	Added	
A7	BSF0020F3V1-1	10.6	10.9	40.5	3	b	Front	6	0	Added	
A1	LPA-80080/4CF ____	47.2	5.5	17	4	a	Front	24	0	Retained	03/07/2023
M94	RVZDC-6627-PF-48	29.5	16.5		Member					Retained	03/07/2023

Mar 7, 2023 at 11:40:56 AM
116 Grant Hill Rd
Hampton CT 06234
United States



[illegible]

QUESTION

[illegible][illegible]



PROJECT INFORMATION

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	PROJECT DATE
PROJECT OWNER	PROJECT ENGINEER	PROJECT DESIGNER	PROJECT CHECKER
PROJECT CONTRACTOR	PROJECT SUBMITTER	PROJECT REVIEWER	PROJECT APPROVER
PROJECT DESCRIPTION	PROJECT STATUS	PROJECT BUDGET	PROJECT COST

PROJECT INFORMATION

West Brooklyn CT

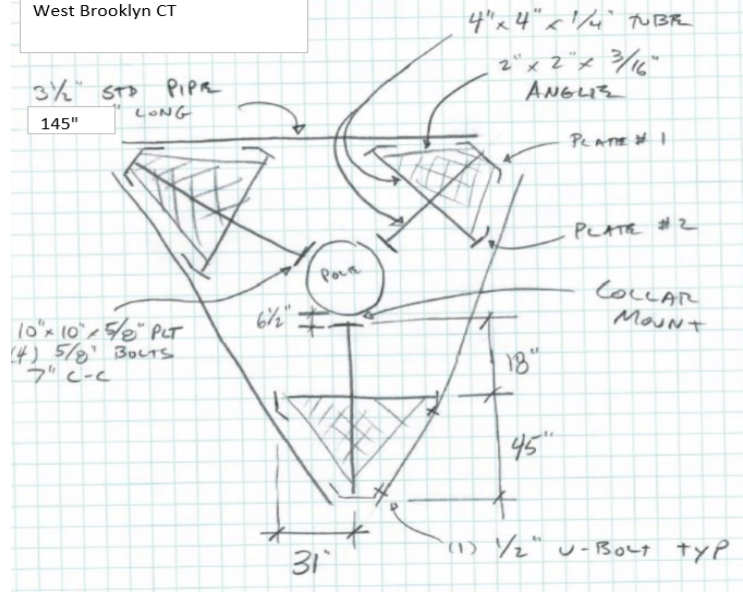


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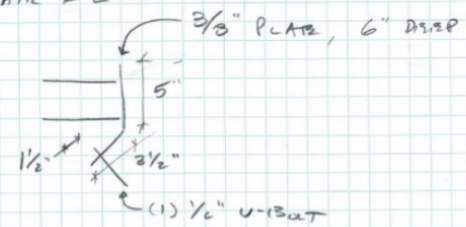
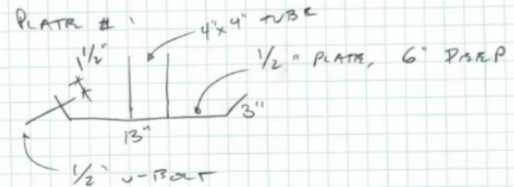
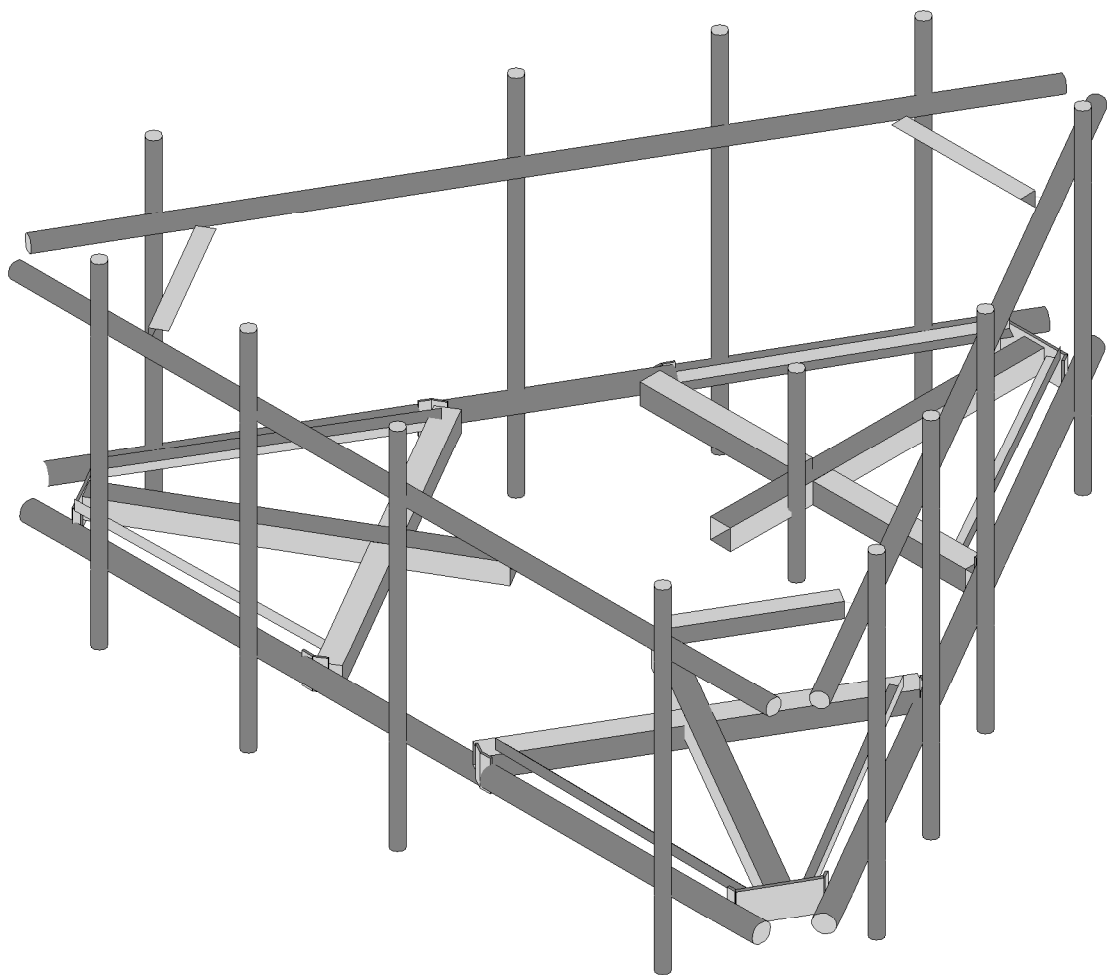


PLATE # 1

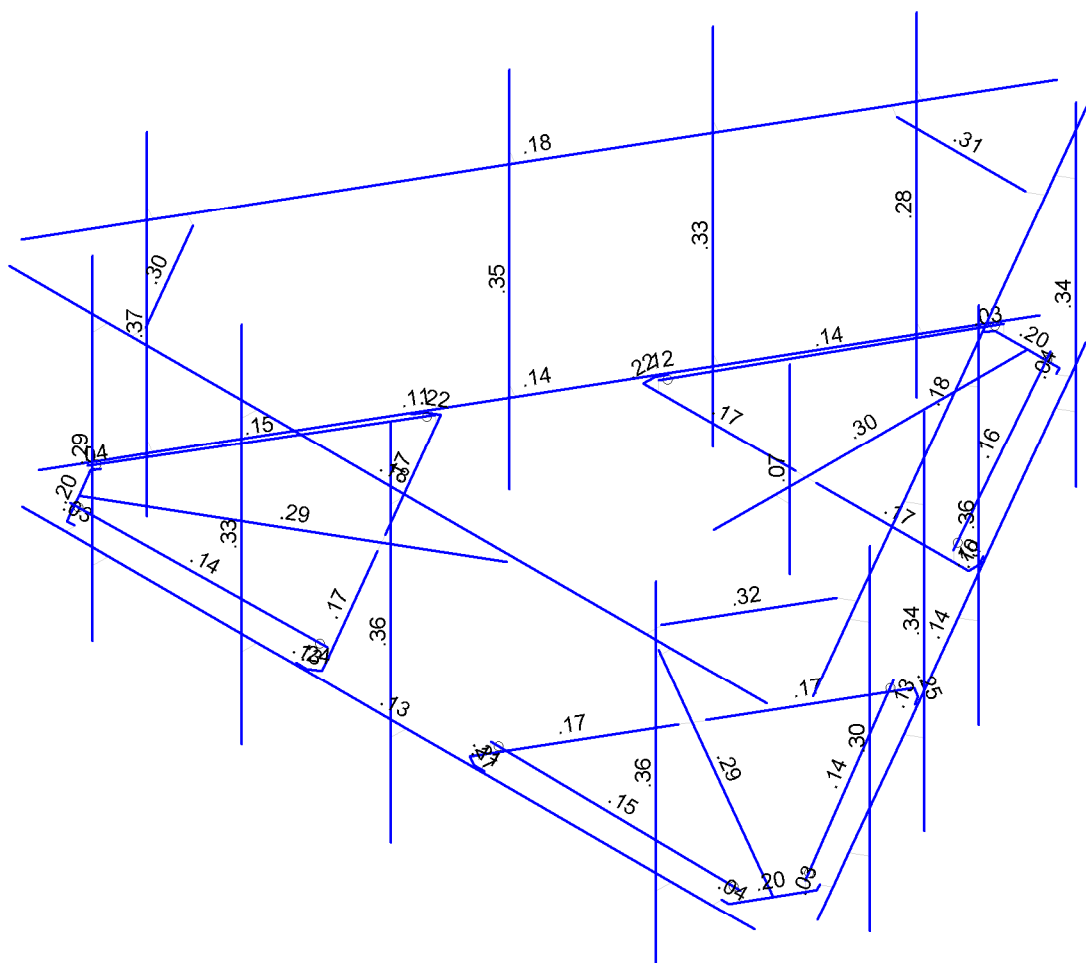


Pipe Connections to footrail
Bent Plate 7-3/4" x 2" x 3/8" x 8"
(4) 1/2" u-bolts



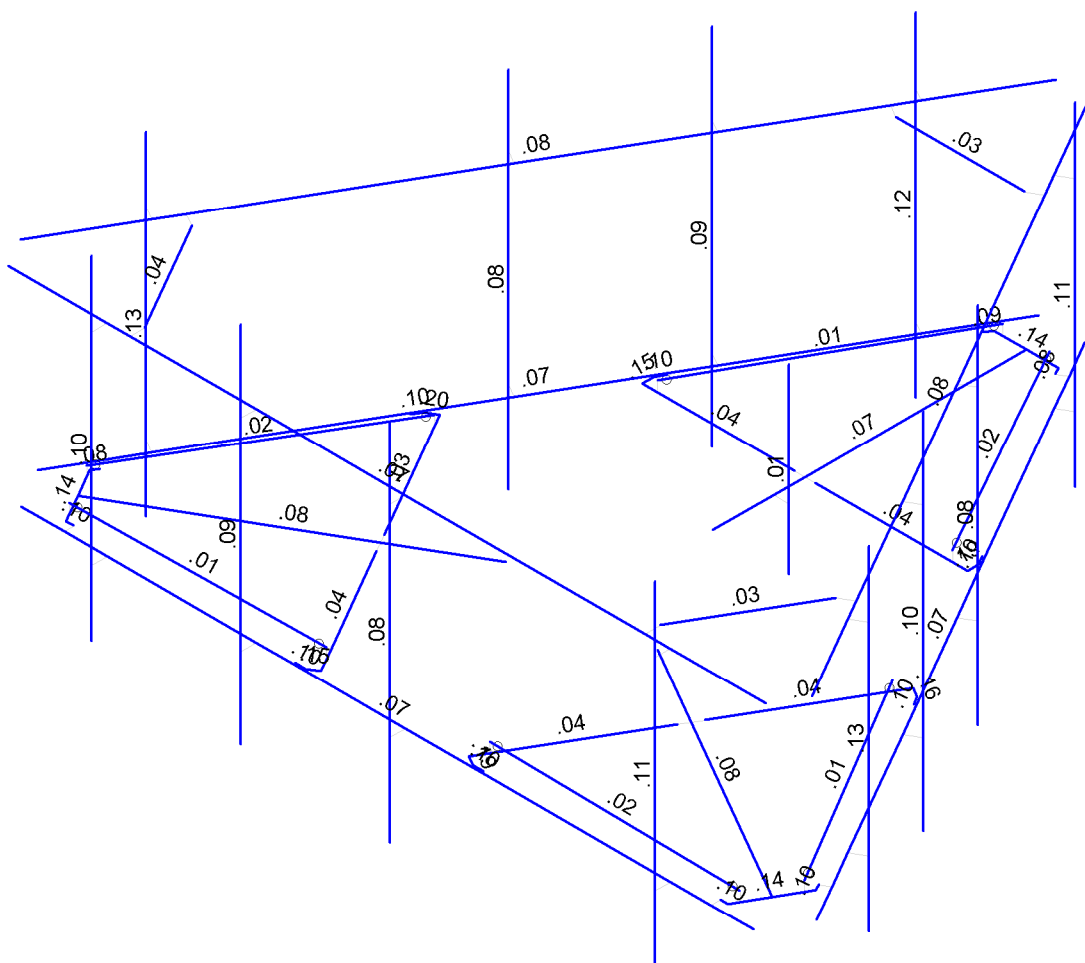
Envelope Only Solution

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		5000397339-VZW_MT_LO_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

		SK - 2
		July 6, 2023 at 5:39 PM
	Bending Check	5000397339-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

	Shear Check	SK - 3
		July 6, 2023 at 5:39 PM
		5000397339-VZW_MT_LO_H.r3d

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 103

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	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
1	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
2	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
3	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
4	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
5	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
6	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
7	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
8	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
9	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他
10	環境問題	社会問題	経済問題	政治問題	文化問題	教育問題	健康問題	安全問題	倫理問題	その他

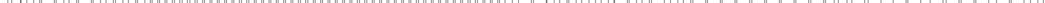
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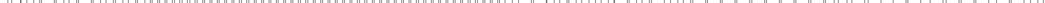
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2	10:00	10:00	10:00			10:00	10:00	10:00	10:00	10:00
3	10:00	10:00	10:00			10:00	10:00	10:00	10:00	10:00
4	10:00	10:00	10:00			10:00	10:00	10:00	10:00	10:00
5	10:00	10:00	10:00			10:00	10:00	10:00	10:00	10:00
6	10:00	10:00	10:00			10:00	10:00	10:00	10:00	10:00
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Project Overview		Team & Roles		Timeline & Milestones		Resource Allocation		Risk Management		Communication & Reporting	
Project Name	Project ID	Team Lead	Team Members	Start Date	End Date	Resource A	Resource B	Risk Level	Risk Mitigation	Reporting Frequency	Reporting Channel
Project Alpha	PA-001	John Doe	Jane Smith, Bob Johnson	2023-01-01	2023-06-30	100%	100%	Low	Regular Updates	Weekly	Email
Project Beta	PB-002	Alice Brown	Charlie Davis, Eve White	2023-02-01	2023-07-31	100%	100%	Medium	Regular Updates	Weekly	Slack
Project Gamma	PG-003	Frank Green	Grace Black, Henry Blue	2023-03-01	2023-08-31	100%	100%	High	Regular Updates	Daily	Zoom
Project Delta	PD-004	Ivy Red	Jack Purple, Karen Yellow	2023-04-01	2023-09-30	100%	100%	Low	Regular Updates	Weekly	Phone
Project Epsilon	PE-005	Leo Orange	Mia Silver, Noah Gold	2023-05-01	2023-10-31	100%	100%	Medium	Regular Updates	Daily	Teams

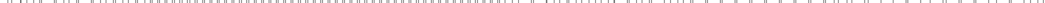
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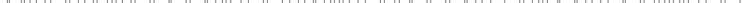
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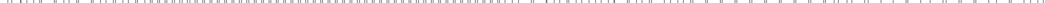
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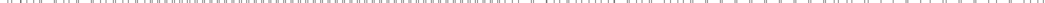
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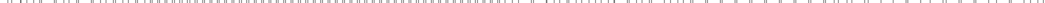
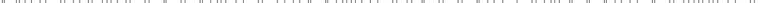


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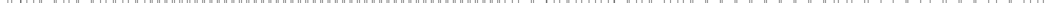
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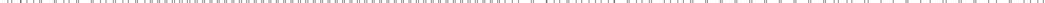
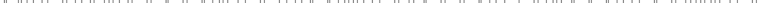
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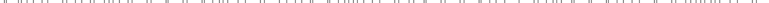
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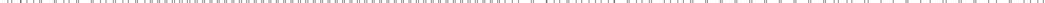
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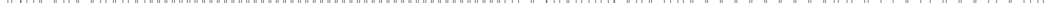
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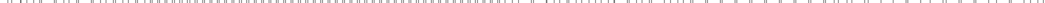
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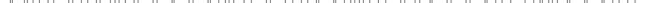
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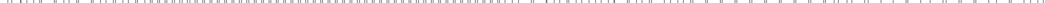
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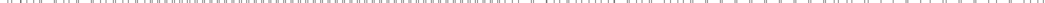


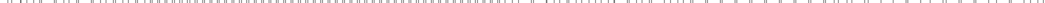
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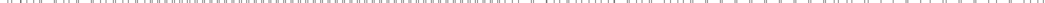


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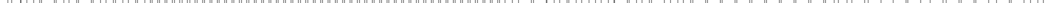
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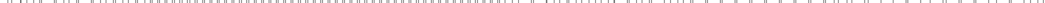
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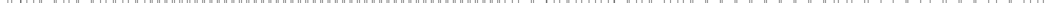


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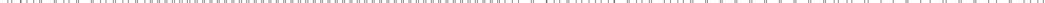
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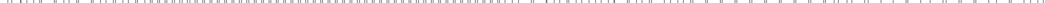
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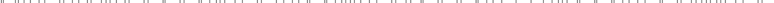
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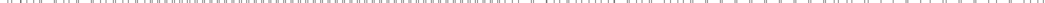
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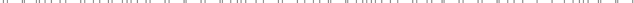
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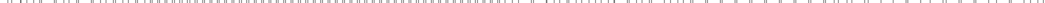
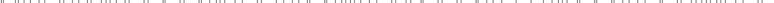


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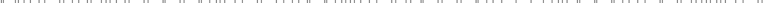
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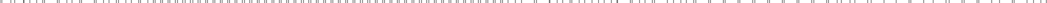
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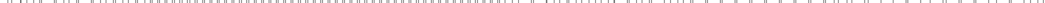
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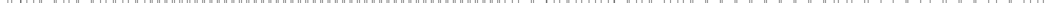
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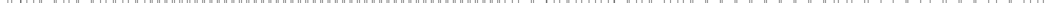
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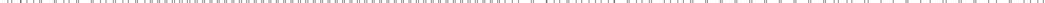


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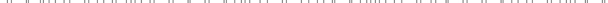
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3	A3	B3	C3	D3	E3	A4	B4	C4	D4
4	A4	B4	C4	D4	E4	A5	B5	C5	D5
5	A5	B5	C5	D5	E5	A6	B6	C6	D6
6	A6	B6	C6	D6	E6	A7	B7	C7	D7
7	A7	B7	C7	D7	E7	A8	B8	C8	D8
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9	A9	B9	C9	D9	E9	A10	B10	C10	D10
10	A10	B10	C10	D10	E10	A11	B11	C11	D11
11	A11	B11	C11	D11	E11	A12	B12	C12	D12
12	A12	B12	C12	D12	E12	A13	B13	C13	D13
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14	A14	B14	C14	D14	E14	A15	B15	C15	D15
15	A15	B15	C15	D15	E15	A16	B16	C16	D16
16	A16	B16	C16	D16	E16	A17	B17	C17	D17
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56	A56	B56	C56	D56	E56	A57	B57	C5	

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11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 103

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11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 103

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A		B		C		D		E		F	
A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	F1	F2
A3	A4	B3	B4	C3	C4	D3	D4	E3	E4	F3	F4
A5	A6	B5	B6	C5	C6	D5	D6	E5	E6	F5	F6
A7	A8	B7	B8	C7	C8	D7	D8	E7	E8	F7	F8
A9	A10	B9	B10	C9	C10	D9	D10	E9	E10	F9	F10
A11	A12	B11	B12	C11	C12	D11	D12	E11	E12	F11	F12
A13	A14	B13	B14	C13	C14	D13	D14	E13	E14	F13	F14
A15	A16	B15	B16	C15	C16	D15	D16	E15	E16	F15	F16
A17	A18	B17	B18	C17	C18	D17	D18	E17	E18	F17	F18
A19	A20	B19	B20	C19	C20	D19	D20	E19	E20	F19	F20
A21	A22	B21	B22	C21	C22	D21	D22	E21	E22	F21	F22
A23	A24	B23	B24	C23	C24	D23	D24	E23	E24	F23	F24
A25	A26	B25	B26	C25	C26	D25	D26	E25	E26	F25	F26
A27	A28	B27	B28	C27	C28	D27	D28	E27	E28	F27	F28
A29	A30	B29	B30	C29	C30	D29	D30	E29	E30	F29	F30
A31	A32	B31	B32	C31	C32	D31	D32	E31	E32	F31	F32
A33	A34	B33	B34	C33	C34	D33	D34	E33	E34	F33	F34
A35	A36	B35	B36	C35	C36	D35	D36	E35	E36	F35	F36
A37	A38	B37	B38	C37	C38	D37	D38	E37	E38	F37	F38
A39	A40	B39	B40	C39	C40	D39	D40	E39	E40	F39	F40
A41	A42	B41	B42	C41	C42	D41	D42	E41	E42	F41	F42
A43	A44	B43	B44	C43	C44	D43	D44	E43	E44	F43	F44
A45	A46	B45	B46	C45	C46	D45	D46	E45	E46	F45	F46
A47	A48	B47	B48	C47	C48	D47	D48	E47	E48	F47	F48
A49	A50	B49	B50	C49	C50	D49	D50	E49	E50	F49	F50
A51	A52	B51	B52	C51	C52	D51	D52	E51	E52	F51	F52
A53	A54	B53	B54	C53	C54	D53	D54	E53	E54	F53	F54
A55	A56	B55	B56	C55	C56	D55	D56	E55	E56	F55	F56
A57	A58	B57	B58	C57	C58	D57	D58	E57	E58	F57	F58
A59	A60	B59	B60	C59	C60	D59	D60	E59	E60	F59	F60
A61	A62	B61	B62	C61	C62	D61	D62	E61	E62	F61	F62
A63	A64	B63	B64	C63	C64	D63	D64	E63	E64	F63	F64
A65	A66	B65	B66	C65	C66	D65	D66	E65	E66	F65	F66
A67	A68	B67	B68	C67	C68	D67	D68	E67	E68	F67	F68
A69	A70	B69	B70	C69	C70	D69	D70	E69	E70	F69	F70
A71	A72	B71	B72	C71	C72	D71	D72	E71	E72	F71	F72
A73	A74	B73	B74	C73	C74	D73	D74	E73	E74	F73	F74
A75	A76	B75	B76	C75	C76	D75	D76	E75	E76	F75	F76
A77	A78	B77	B78	C77	C78	D77	D78	E77	E78	F77	F78
A79	A80	B79	B80	C79	C80	D79	D80	E79	E80	F79	F80
A81	A82	B81	B82	C81	C82	D81	D82	E81	E82	F81	F82
A83	A84	B83	B84	C83	C84	D83	D84	E83	E84	F83	F84
A85	A86	B85	B86	C85	C86	D85	D86	E85	E86	F85	F86
A87	A88	B87	B88	C87	C88	D87	D88	E87	E88	F87	F88
A89	A90	B89	B90	C89	C90	D89	D90	E89	E90	F89	F90
A91	A92	B91	B92	C91	C92	D91	D92	E91	E92	F91	F92
A93	A94	B93	B94	C93	C94</						

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A		B		C		D		E		F	
A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	F1	F2
A3	A4	B3	B4	C3	C4	D3	D4	E3	E4	F3	F4
A5	A6	B5	B6	C5	C6	D5	D6	E5	E6	F5	F6
A7	A8	B7	B8	C7	C8	D7	D8	E7	E8	F7	F8
A9	A10	B9	B10	C9	C10	D9	D10	E9	E10	F9	F10
A11	A12	B11	B12	C11	C12	D11	D12	E11	E12	F11	F12
A13	A14	B13	B14	C13	C14	D13	D14	E13	E14	F13	F14
A15	A16	B15	B16	C15	C16	D15	D16	E15	E16	F15	F16
A17	A18	B17	B18	C17	C18	D17	D18	E17	E18	F17	F18
A19	A20	B19	B20	C19	C20	D19	D20	E19	E20	F19	F20
A21	A22	B21	B22	C21	C22	D21	D22	E21	E22	F21	F22
A23	A24	B23	B24	C23	C24	D23	D24	E23	E24	F23	F24
A25	A26	B25	B26	C25	C26	D25	D26	E25	E26	F25	F26
A27	A28	B27	B28	C27	C28	D27	D28	E27	E28	F27	F28
A29	A30	B29	B30	C29	C30	D29	D30	E29	E30	F29	F30
A31	A32	B31	B32	C31	C32	D31	D32	E31	E32	F31	F32
A33	A34	B33	B34	C33	C34	D33	D34	E33	E34	F33	F34
A35	A36	B35	B36	C35	C36	D35	D36	E35	E36	F35	F36
A37	A38	B37	B38	C37	C38	D37	D38	E37	E38	F37	F38
A39	A40	B39	B40	C39	C40	D39	D40	E39	E40	F39	F40
A41	A42	B41	B42	C41	C42	D41	D42	E41	E42	F41	F42
A43	A44	B43	B44	C43	C44	D43	D44	E43	E44	F43	F44
A45	A46	B45	B46	C45	C46	D45	D46	E45	E46	F45	F46
A47	A48	B47	B48	C47	C48	D47	D48	E47	E48	F47	F48
A49	A50	B49	B50	C49	C50	D49	D50	E49	E50	F49	F50
A51	A52	B51	B52	C51	C52	D51	D52	E51	E52	F51	F52
A53	A54	B53	B54	C53	C54	D53	D54	E53	E54	F53	F54
A55	A56	B55	B56	C55	C56	D55	D56	E55	E56	F55	F56
A57	A58	B57	B58	C57	C58	D57	D58	E57	E58	F57	F58
A59	A60	B59	B60	C59	C60	D59	D60	E59	E60	F59	F60
A61	A62	B61	B62	C61	C62	D61	D62	E61	E62	F61	F62
A63	A64	B63	B64	C63	C64	D63	D64	E63	E64	F63	F64
A65	A66	B65	B66	C65	C66	D65	D66	E65	E66	F65	F66
A67	A68	B67	B68	C67	C68	D67	D68	E67	E68	F67	F68
A69	A70	B69	B70	C69	C70	D69	D70	E69	E70	F69	F70
A71	A72	B71	B72	C71	C72	D71	D72	E71	E72	F71	F72
A73	A74	B73	B74	C73	C74	D73	D74	E73	E74	F73	F74
A75	A76	B75	B76	C75	C76	D75	D76	E75	E76	F75	F76
A77	A78	B77	B78	C77	C78	D77	D78	E77	E78	F77	F78
A79	A80	B79	B80	C79	C80	D79	D80	E79	E80	F79	F80
A81	A82	B81	B82	C81	C82	D81	D82	E81	E82	F81	F82
A83	A84	B83	B84	C83	C84	D83	D84	E83	E84	F83	F84
A85	A86	B85	B86	C85	C86	D85	D86	E85	E86	F85	F86
A87	A88	B87	B88	C87	C88	D87	D88	E87	E88	F87	F88
A89	A90	B89	B90	C89	C90	D89	D90	E89	E90	F89	F90
A91	A92	B91	B92	C91	C92	D91	D92	E91	E92	F91	F92
A93	A94	B93	B94	C93	C94</						

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A		B		C		D		E		F	
A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	F1	F2
A3	A4	B3	B4	C3	C4	D3	D4	E3	E4	F3	F4
A5	A6	B5	B6	C5	C6	D5	D6	E5	E6	F5	F6
A7	A8	B7	B8	C7	C8	D7	D8	E7	E8	F7	F8
A9	A10	B9	B10	C9	C10	D9	D10	E9	E10	F9	F10
A11	A12	B11	B12	C11	C12	D11	D12	E11	E12	F11	F12
A13	A14	B13	B14	C13	C14	D13	D14	E13	E14	F13	F14
A15	A16	B15	B16	C15	C16	D15	D16	E15	E16	F15	F16
A17	A18	B17	B18	C17	C18	D17	D18	E17	E18	F17	F18
A19	A20	B19	B20	C19	C20	D19	D20	E19	E20	F19	F20
A21	A22	B21	B22	C21	C22	D21	D22	E21	E22	F21	F22
A23	A24	B23	B24	C23	C24	D23	D24	E23	E24	F23	F24
A25	A26	B25	B26	C25	C26	D25	D26	E25	E26	F25	F26
A27	A28	B27	B28	C27	C28	D27	D28	E27	E28	F27	F28
A29	A30	B29	B30	C29	C30	D29	D30	E29	E30	F29	F30
A31	A32	B31	B32	C31	C32	D31	D32	E31	E32	F31	F32
A33	A34	B33	B34	C33	C34	D33	D34	E33	E34	F33	F34
A35	A36	B35	B36	C35	C36	D35	D36	E35	E36	F35	F36
A37	A38	B37	B38	C37	C38	D37	D38	E37	E38	F37	F38
A39	A40	B39	B40	C39	C40	D39	D40	E39	E40	F39	F40
A41	A42	B41	B42	C41	C42	D41	D42	E41	E42	F41	F42
A43	A44	B43	B44	C43	C44	D43	D44	E43	E44	F43	F44
A45	A46	B45	B46	C45	C46	D45	D46	E45	E46	F45	F46
A47	A48	B47	B48	C47	C48	D47	D48	E47	E48	F47	F48
A49	A50	B49	B50	C49	C50	D49	D50	E49	E50	F49	F50
A51	A52	B51	B52	C51	C52	D51	D52	E51	E52	F51	F52
A53	A54	B53	B54	C53	C54	D53	D54	E53	E54	F53	F54
A55	A56	B55	B56	C55	C56	D55	D56	E55	E56	F55	F56
A57	A58	B57	B58	C57	C58	D57	D58	E57	E58	F57	F58
A59	A60	B59	B60	C59	C60	D59	D60	E59	E60	F59	F60
A61	A62	B61	B62	C61	C62	D61	D62	E61	E62	F61	F62
A63	A64	B63	B64	C63	C64	D63	D64	E63	E64	F63	F64
A65	A66	B65	B66	C65	C66	D65	D66	E65	E66	F65	F66
A67	A68	B67	B68	C67	C68	D67	D68	E67	E68	F67	F68
A69	A70	B69	B70	C69	C70	D69	D70	E69	E70	F69	F70
A71	A72	B71	B72	C71	C72	D71	D72	E71	E72	F71	F72
A73	A74	B73	B74	C73	C74	D73	D74	E73	E74	F73	F74
A75	A76	B75	B76	C75	C76	D75	D76	E75	E76	F75	F76
A77	A78	B77	B78	C77	C78	D77	D78	E77	E78	F77	F78
A79	A80	B79	B80	C79	C80	D79	D80	E79	E80	F79	F80
A81	A82	B81	B82	C81	C82	D81	D82	E81	E82	F81	F82
A83	A84	B83	B84	C83	C84	D83	D84	E83	E84	F83	F84
A85	A86	B85	B86	C85	C86	D85	D86	E85	E86	F85	F86
A87	A88	B87	B88	C87	C88	D87	D88	E87	E88	F87	F88
A89	A90	B89	B90	C89	C90	D89	D90	E89	E90	F89	F90
A91	A92	B91	B92	C91	C92	D91	D92	E91	E92	F91	F92
A93	A94	B93	B94	C93	C94</						

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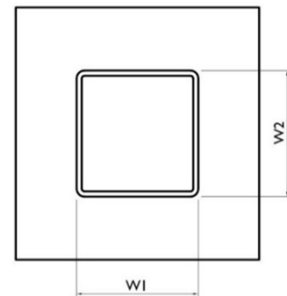
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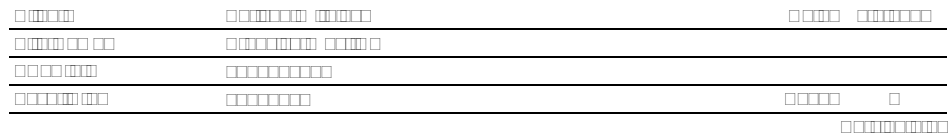
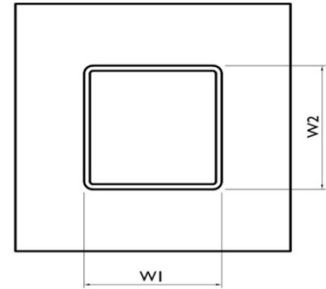
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1. 本表为《企业会计准则》规定的财务报表附注，是企业财务报表的重要组成部分。
 2. 本表应当与资产负债表、利润表、现金流量表、所有者权益变动表一并编制和披露。
 3. 本表应当按照《企业会计准则》的规定进行编制和披露。

4. 本表应当按照《企业会计准则》的规定进行编制和披露。
 5. 本表应当按照《企业会计准则》的规定进行编制和披露。

项目名称		年初余额	期末余额	变动原因	变动原因	变动原因
流动资产	流动资产					
货币资金	货币资金					
应收账款	应收账款					
预付款项	预付款项					
其他应收款	其他应收款					
存货	存货					
流动资产合计	流动资产合计					
非流动资产	非流动资产					
长期股权投资	长期股权投资					
固定资产	固定资产					
无形资产	无形资产					
非流动资产合计	非流动资产合计					
资产总计	资产总计					

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项目	2023年度				2022年度				变动原因
	年初余额	期末余额	变动原因	变动原因	年初余额	期末余额	变动原因	变动原因	
流动资产									
货币资金									
应收账款									
预付款项									
其他应收款									
存货									
流动资产合计									
非流动资产									
长期股权投资									
固定资产									
无形资产									
非流动资产合计									
资产总计									
负债									
流动负债									
应付账款									
预收款项									
其他应付款									
流动负债合计									
非流动负债									
长期借款									
应付债券									
非流动负债合计									
负债合计									
所有者权益									
实收资本									
资本公积									
盈余公积									
未分配利润									
所有者权益合计									
负债和所有者权益总计									

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Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
149.00	NNVV-65B-R4 w/ Mount Pipe	40	35.768	2.2081	0.0086	16822
137.00	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	40	30.297	2.1082	0.0059	6470
129.00	TME-RRUS-11	40	26.777	2.0276	0.0048	4028
127.00	(2) 7770.00 w/ Mount Pipe	40	25.923	2.0044	0.0045	3762
117.00	(2) LPA-80080/4CF w/ Mount Pipe	40	21.843	1.8652	0.0036	3506
90.00	DS9A09F36D-N	40	12.523	1.3838	0.0027	3253
76.00	KS24019-L112A	40	8.732	1.1298	0.0021	3149
70.00	MX08FRO665-21 w/ Mount Pipe	40	7.334	1.0244	0.0018	3106

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	150 - 123.29	157.107	4	9.6423	0.0399
L2	126.71 - 88.88	112.026	4	8.7230	0.0195
L3	93.13 - 43.8	58.567	4	6.2819	0.0119
L4	49.22 - 0	15.582	4	2.9671	0.0038

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
149.00	NNVV-65B-R4 w/ Mount Pipe	4	155.119	9.6101	0.0388	4189
137.00	APX16DWV-16DWV-S-E-A20 w/ Mount Pipe	4	131.476	9.1938	0.0260	1608
129.00	TME-RRUS-11	4	116.254	8.8417	0.0207	998
127.00	(2) 7770.00 w/ Mount Pipe	4	112.558	8.7386	0.0196	931
117.00	(2) LPA-80080/4CF w/ Mount Pipe	4	94.891	8.1294	0.0155	854
90.00	DS9A09F36D-N	4	54.452	6.0286	0.0116	762
76.00	KS24019-L112A	4	37.978	4.9206	0.0090	735
70.00	MX08FRO665-21 w/ Mount Pipe	4	31.903	4.4613	0.0077	723

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio P _u / φP _n
L1	150 - 123.29 (1)	TP22.9x17x0.1875	26.71	0.00	0.0	13.0672	-12.96	764.43	0.017
L2	123.29 - 88.88 (2)	TP30x21.7696x0.3125	37.83	0.00	0.0	28.5292	-21.41	1668.96	0.013
L3	88.88 - 43.8 (3)	TP39.2x28.4504x0.375	49.33	0.00	0.0	44.8057	-35.41	2621.13	0.014
L4	43.8 - 0 (4)	TP48x37.2689x0.4375	49.22	0.00	0.0	66.0465	-52.23	3863.72	0.014

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	150 - 123.29 (1)	TP22.9x17x0.1875	223.76	413.83	0.541	0.00	413.83	0.000
L2	123.29 - 88.88 (2)	TP30x21.7696x0.3125	934.82	1249.92	0.748	0.00	1249.92	0.000
L3	88.88 - 43.8 (3)	TP39.2x28.4504x0.375	2157.64	2537.12	0.850	0.00	2537.12	0.000
L4	43.8 - 0 (4)	TP48x37.2689x0.4375	3819.72	4628.73	0.825	0.00	4628.73	0.000

Pole Shear Design Data

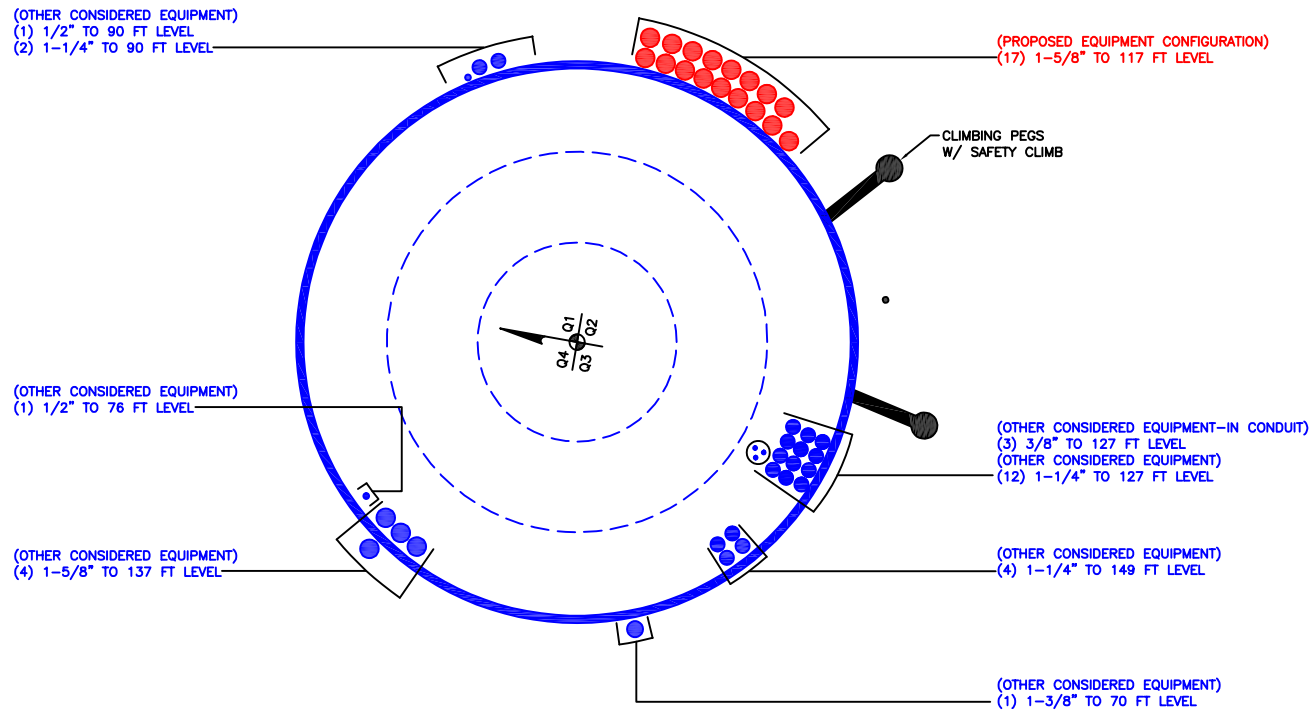
Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	150 - 123.29 (1)	TP22.9x17x0.1875	16.74	229.33	0.073	0.42	440.97	0.001
L2	123.29 - 88.88 (2)	TP30x21.7696x0.3125	23.53	500.69	0.047	1.53	1261.18	0.001
L3	88.88 - 43.8 (3)	TP39.2x28.4504x0.375	31.71	786.34	0.040	0.00	2592.30	0.000
L4	43.8 - 0 (4)	TP48x37.2689x0.4375	35.75	1159.12	0.031	0.00	4828.05	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	150 - 123.29 (1)	0.017	0.541	0.000	0.073	0.001	0.563	1.050	4.8.2
L2	123.29 - 88.88 (2)	0.013	0.748	0.000	0.047	0.001	0.763	1.050	4.8.2
L3	88.88 - 43.8 (3)	0.014	0.850	0.000	0.040	0.000	0.866	1.050	4.8.2
L4	43.8 - 0 (4)	0.014	0.825	0.000	0.031	0.000	0.840	1.050	4.8.2

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	150 - 123.29	Pole	TP22.9x17x0.1875	1	-12.96	802.65	53.6	Pass
L2	123.29 - 88.88	Pole	TP30x21.7696x0.3125	2	-21.41	1752.41	72.7	Pass
L3	88.88 - 43.8	Pole	TP39.2x28.4504x0.375	3	-35.41	2752.19	82.4	Pass
L4	43.8 - 0	Pole	TP48x37.2689x0.4375	4	-52.23	4056.91	80.0	Pass
							Summary	
							Pole (L3)	Pass
							RATING = 82.4	Pass



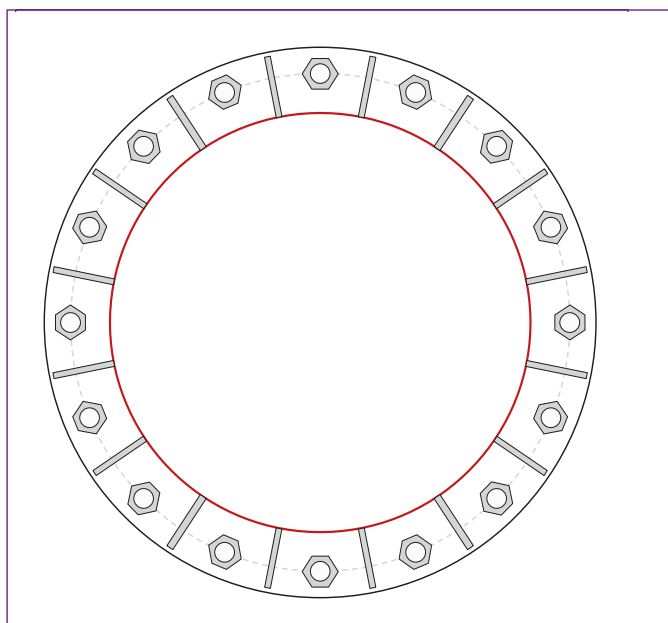
Monopole Base Plate Connection

Site Info	
BU #	876390
Site Name	Hampton / Bernier
Order #	654639 Rev. 1

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
I_{ar} (in)	1

Applied Loads	
Moment (kip-ft)	3819.73
Axial Force (kips)	52.23
Shear Force (kips)	35.75

*TIA-222-H Section 15.5 Applied



Connection Properties

Anchor Rod Data

(16) 2-1/4" ϕ bolts (A615-75 N; $F_y=75$ ksi, $F_u=100$ ksi) on 57" BC

Base Plate Data

63" OD x 2" Plate (A871 Gr. 60; $F_y=60$ ksi, $F_u=75$ ksi)

Stiffener Data

(16) 18"H x 7"W x 0.75"T, Notch: 0.75"

plate: $F_y=50$ ksi ; weld: $F_y=70$ ksi

horiz. weld: 0.375" groove, 45° dbl bevelFALSE

vert. weld: 0.375" fillet

Pole Data

48" x 0.4375" 18-sided pole (A572-65; $F_y=65$ ksi, $F_u=80$ ksi)

Analysis Results

Anchor Rod Summary

(units of kips, kip-in)

$Pu_t = 197.65$	$\phi Pn_t = 243.75$	Stress Rating
$Vu = 2.23$	$\phi Vn = 149.1$	77.2%
$Mu = n/a$	$\phi Mn = n/a$	Pass

Base Plate Summary

Max Stress (ksi):	35.28	(Roark's Flexural)
Allowable Stress (ksi):	54	
Stress Rating:	62.2%	Pass

Stiffener Summary

Horizontal Weld:	64.2%	Pass
Vertical Weld:	49.0%	Pass
Plate Flexure+Shear:	22.8%	Pass
Plate Tension+Shear:	64.9%	Pass
Plate Compression:	71.5%	Pass

Pole Summary

Punching Shear:	12.6%	Pass
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Pier and Pad Foundation



BU #: 876390
 Site Name: Hampton / Bernier
 App. Number: 654639 Rev. 1

TIA-222 Revision: H
 Tower Type: Monopole

Top & Bot. Pad Rein. Different?: ☒
 Block Foundation?: ☐
 Rectangular Pad?: ☐

Superstructure Analysis Reactions		
Compression, P_{comp} :	52.27	kips
Base Shear, V_u comp:	35.69	kips
Moment, M_u :	3819.73	ft-kips
Tower Height, H :	150	ft
BP Dist. Above Fdn, bp_{dist} :	3.25	in

Pier Properties		
Pier Shape:	Square	
Pier Diameter, d_{pier} :	6.5	ft
Ext. Above Grade, E :	1	ft
Pier Rebar Size, Sc :	9	
Pier Rebar Quantity, mc :	27	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	4	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Pad Properties		
Depth, D :	5	ft
Pad Width, W_1 :	25.25	ft
Pad Thickness, T :	3	ft
Pad Rebar Size (Top dir. 2), Sp_{top2} :	9	
Pad Rebar Quantity (Top dir. 2), mp_{top2} :	20	
Pad Rebar Size (Bottom dir. 2), Sp_2 :	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	35	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, F_y :	60	ksi
Concrete Compressive Strength, F'_c :	4	ksi
Dry Concrete Density, δ_c :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	125	pcf
Ultimate Net Bearing, Q_{net} :	12.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :	6	
Base Friction, μ :	0.5	
Neglected Depth, N :	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	13	ft

Seismic Design Category: B

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	217.57	35.69	15.6%	Pass
Bearing Pressure (ksf)	9.47	2.74	28.9%	Pass
Overturing (kip*ft)	5378.60	4043.54	75.2%	Pass
Pier Flexure (Comp.) (kip*ft)	4131.62	3926.80	90.5%	Pass
Pier Compression (kip)	26891.28	75.09	0.3%	Pass
Pad Flexure (kip*ft)	4770.48	1890.84	37.7%	Pass
Pad Shear - 1-way (kips)	899.95	277.76	29.4%	Pass
Pad Shear - 2-way (Comp) (ksi)	0.190	0.041	20.8%	Pass
Flexural 2-way (Comp) (kip*ft)	4566.12	2356.08	49.1%	Pass

*Rating per TIA-222-H Section 15.5

Structural Rating*:	90.5%
Soil Rating*:	75.2%

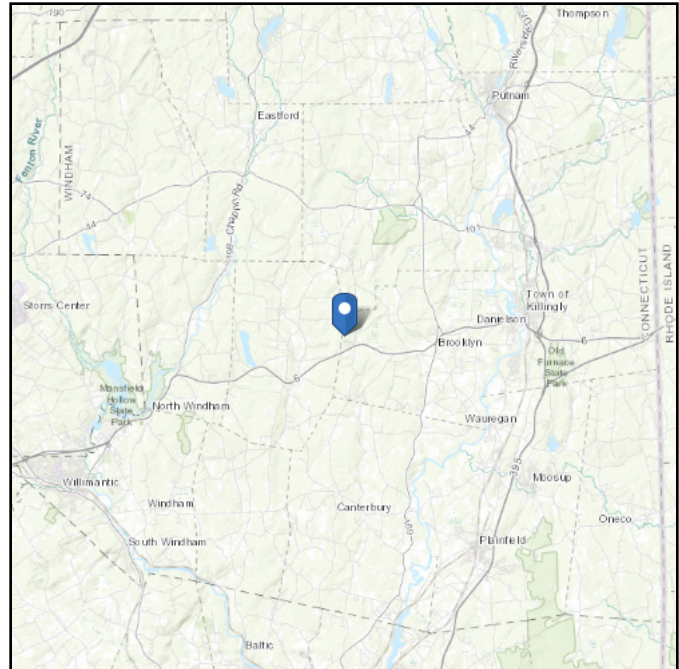
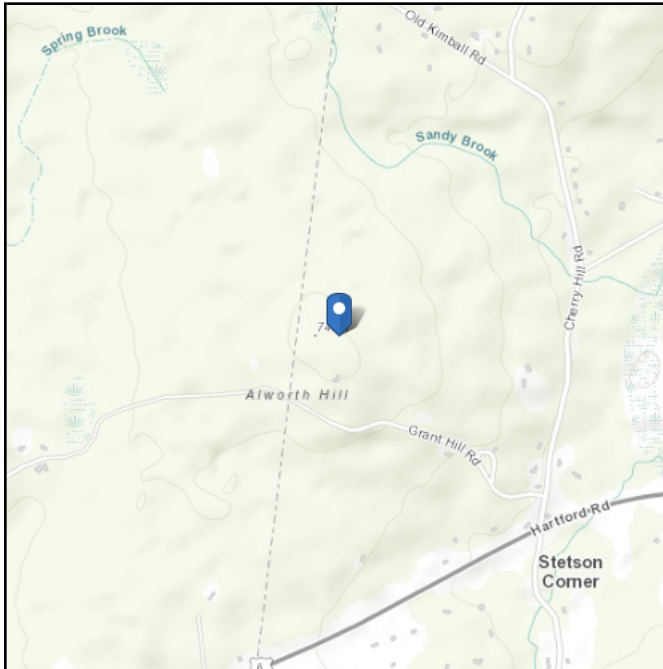
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ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Default (see
Section 11.4.3)

Latitude: 41.791567
Longitude: -72.015011
Elevation: 720.9157298343945 ft
(NAVD 88)



Wind

Results:

Wind Speed	121 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	94 Vmph
100-year MRI	100 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Fri Jul 21 2023

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

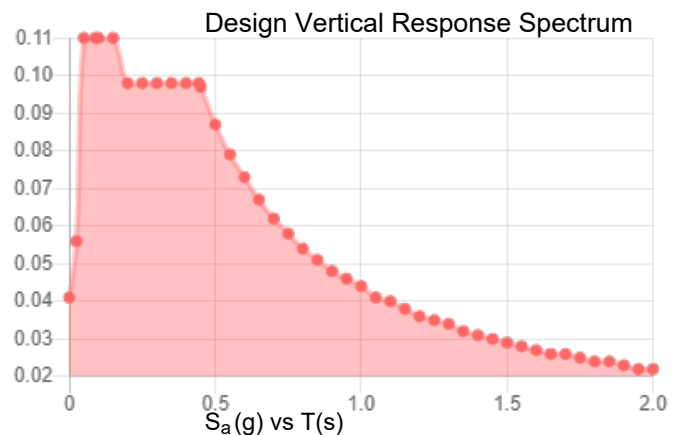
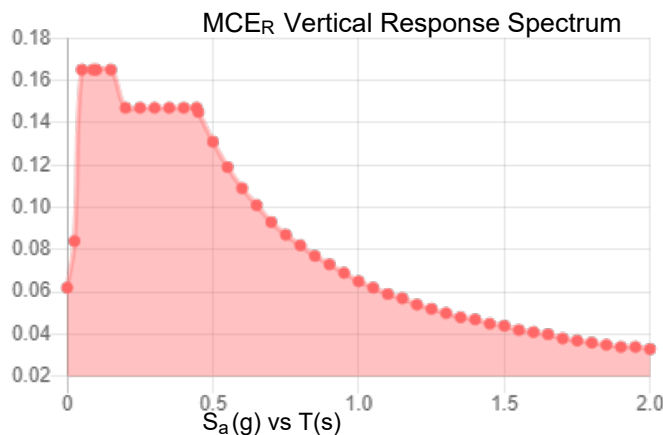
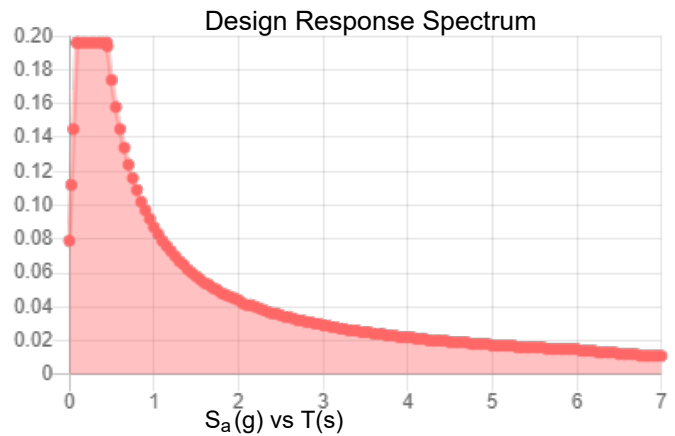
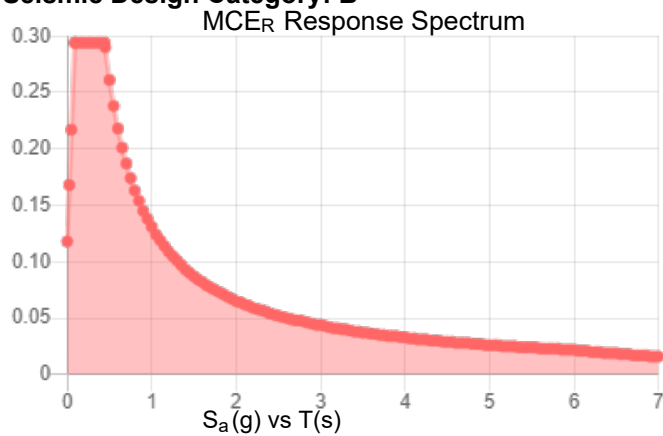
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class:

Results:

S_S :	0.184	S_{D1} :	0.087
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.099
F_v :	2.4	PGA _M :	0.159
S_{MS} :	0.294	F_{PGA} :	1.6
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.196	C_v :	0.7

Seismic Design Category: B



Data Accessed:

Fri Jul 21 2023

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Fri Jul 21 2023

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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