

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
:
A PETITION FOR A DECLARATORY : PETITION NO. ____
RULING ON THE NEED TO OBTAIN A :
SITING COUNCIL CERTIFICATE FOR THE :
PROPOSED MODIFICATION OF AN :
EXISTING WIRELESS :
TELECOMMUNICATIONS FACILITY AT :
440 HAYDEN STATION RD, WINDSOR CT : April 11, 2023

PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING NO
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), Verizon Wireless LLC (“Verizon”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) for the modification of an existing wireless telecommunications facility at 440 Hayden Station Road, Windsor, Connecticut (the “Existing Facility”).

II. Existing Facility

The Existing Facility is located on an approximately 3.76-acre parcel owned by CB BAGGS LLP, the tower is owned by Crown Castle LLC. The Facility consists of a 96-foot monopole tower. **Attachment 1** contains the owner’s authorization permitting Verizon to file this Petition. The Facility was originally approved for use by the Town of Windsor Zoning Board of Appeals on October 3rd, 1996 as documented in **Attachment 2**.

III. Verizon Facility

Verizon’s proposed modification to its facility is illustrated on the plans submitted as **Attachment 3**. Verizon proposes to expand the existing 1,517sqft compound by an additional 24’x15’ (360sqft) to accommodate their 12’x20’ concrete pad that will house their proposed ground equipment. The proposed new fence will match the existing compound fence. No Generator or backup power is proposed at this time. Installation of Verizon’s facility will take approximately three (3) weeks to complete. Construction will occur during normal business hours, or as allowed by the tower and/or property owner.

Verizon Planned Installation:

Install New Tower Equipment:

- (3) Commscope NHHS4-65B-R3B
- (3) Commscope NHHSS-65B-R2BT4
- (3) Samsung MT6407-77A
- (1) Raycap RVZDC-6627-PF-48 CCIV2
- (3) Samsung CBRS RRHRT440T-48A
- (3) Samsung RF4402D-D1A
- (3) Samsung RF4439D-25A
- (1) 12.5' Platform Mount

Installation of Verizon's facility will cost approximately \$55,000.

Verizon has confirmed that the Modified Facility is capable of supporting the additional antennas and other changes to the tower mounted equipment as documented in the Structural Analysis Report by Crown Castle dated February 23, 2023, annexed hereto as **Attachment 4**.

IV. The Proposed Modification Will Not Have A Substantial Adverse Environmental Effect

1. Physical Environmental Effects

The modification of Verizon's Facility will not involve a significant alteration to the physical and environmental characteristics of the Property. No native trees will need to be removed and no on-site or off-site wetlands or watercourses will be impacted by the proposed facility expansion.

2. Visual Effects

There will be no visual impact made to the existing tower. Verizon's equipment will be installed at the 50ft level of the 96ft monopole which will have a minimal visual impact when viewed from the public right-of-way or adjacent private properties.

3. FCC Compliance

Radio frequency ("RF") emissions resulting from Verizon's proposed modification of the Existing Facility will be well below the standards adopted by the Federal Communications Commission ("FCC"). Included in **Attachment 6** is a Radio Frequency Emissions Analysis Report prepared by Verizon. This report confirms that the modified facility will operate well within the RF emission standards established by the FCC.

V. Notice to the Municipality, Property Owner and Abutting Landowners

On April 11, 2023, a copy of this Petition was sent to Mayor Donald Trinks of The Town of Windsor as well as Eric Barz, Town Planner. A notice of Verizon's intent to file this Petition was also sent to the owners of land that may be considered to abut the Property or are within 200-feet. Included in **Attachment 5** is a sample abutter's letter and the list of those abutting landowners who were sent notice.

VI. Conclusion

Based on the information provided above, the Petitioners respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of a temporary tower at the Property will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

Respectfully submitted,

Denise Sabo
Northeast Site Solutions- Agent for Crown Castle USA Inc. o/b/o Verizon
(203) 435-3640
denise@northeastsitesolutions.com

Attachments

Cc: Mayor Donald Trinks
Town of Windsor
275 Broad Street
Windsor, CT 06095

Eric Barz, Town Planner
Town of Windsor
275 Broad Street
Windsor, CT 06095

ATTACHMENT 1



9250 W Flagler St
Miami, FL 33174

Phone:
www.crowncastle.com

Crown Castle Letter of Authorization

CT - CONNECTICUT SITING COUNCIL

Connecticut Siting Council

TEN FRANKLIN SQUARE

NEW BRITAIN, CT 06051

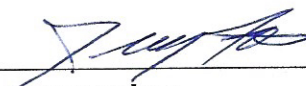
Re: Application for Zoning/Building Permit
Crown Castle telecommunications site at: 440 HAYDEN STATION ROAD,
WINDSOR, CT 06095

GLOBAL SIGNAL ACQUISITIONS II LLC ("Crown Castle") hereby authorizes VERIZON WIRELESS, including their Agent, to act as our Agent in the processing of all zoning applications, building permits and approvals through the CT - CONNECTICUT SITING COUNCIL for the existing wireless communications site described below:

Crown Site ID/Name: 876326/HAYDEN STATION
Customer Site ID: 720913/WINDSOR NE CT
Site Address: 440 Hayden Station Road, WINDSOR, CT 06095
APN: WIND-000049-000471-000109T

Crown Castle

By: _____


Jerry Feathers

Real Estate Specialist

Date: _____

4/12/23

Property Location 440 HAYDEN STATION RD
Vision ID 184168 Account # 06739.01

Map ID 49/ 471/ 109/T /
Bldg # 1

Bldg Name
Sec # 1 of 1 Card # 1 of 1

State Use 4340
Print Date 12/10/2020 11:57:48

CURRENT OWNER		TOPO	UTILITIES	STRT / ROAD	LOCATION	CURRENT ASSESSMENT				6164 WINDSOR, CT VISION							
						Description	Code	Appraised	Assessed								
CB BAGGS LLP						IND LAND	3-1	139,400	97,580								
C/O SPRINT SPECTRUM LLP						IND BLDG	3-2	5,700	3,990								
TAX DEPT PO BOX 8430						IND IMPR	3-3	114,500	80,150								
KANSAS CITY MO 64114		SUPPLEMENTAL DATA															
		Alt Prcl ID 6739		CTRACT 4735.02													
		INC: GH		CBLOCK 916													
		2007 156380		DIST HEART GL YEAR													
		GIS ID 6739		Assoc Pid#													
						Total				259,600	181,720						
RECORD OF OWNERSHIP		BK-VOL/PAGE	SALE DATE	Q/U	V/I	SALE PRICE	VC	PREVIOUS ASSESSMENTS (HISTORY)									
CB BAGGS LLP		1243 0531	10-06-2000	U	V		0	Year	Code	Assessed	Year	Code	Assessed V	Year	Code	Assessed	
								2019	3-1	107,338	2018	3-1	97,580	2017	3-1	97,580	
									3-2	4,389		3-2	3,990		3-2	51,240	
									3-3	88,165		3-3	80,150		3-3	28,910	
								Total		199892	Total		181720	Total		177730	
EXEMPTIONS				OTHER ASSESSMENTS				This signature acknowledges a visit by a Data Collector or Assessor									
Year	Code	Description	Amount	Code	Description	Number	Amount	Comm Int									
Total			0.00														
ASSESSING NEIGHBORHOOD																	
Nbhd	Sub	Nbhd Name	B		Tracing		Batch										
0001	A																
NOTES																	
06739.01 0049/0471/0109/T																	
SPRINT SPECTUM																	
CELLULAR TOWER																	
105' MONOPOLE TOWER																	
LAND VALUE=INC APPR																	
REF: V1501 P139 ESMNT ASSIGN																	
BUILDING PERMIT RECORD									VISIT / CHANGE HISTORY								
Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments	Date	Id	Type	Is	Cd	Purpost/Result			
E-183101	12-15-2018	EL	Electric	12,500		0		DIESEL GENERATOR FOR T-	12-04-2019	LL			64	I & E PENALTY			
E-170415	03-01-2017	EL	Electric	7,500	08-18-2017	100	10-01-2017	REPLACE 3 RRU'S - AT&T	06-17-2015	LL			20	Bldg Permit Insp			
E-162925	11-08-2016	EL	Electric	20,000	08-18-2017	100	10-01-2017	REPLACE 3 ANTENNA & 3 R	11-17-2003	SK			00	Measur+Listed			
E-121307	08-19-2016	EL	Electric		08-19-2016	100	10-01-2016										
E-160448	03-02-2016	EL	Electric	20,000	08-19-2016	100	10-01-2016	REPLACE 3 ANTENNA & 3 R									
B-140692	04-14-2014	RE	Renovation	20,000	10-01-2014	100	10-01-2014	CELL TOWER CHANGES C/									
B-992651	10-01-2000	CM	Commercial			0		CELL EQUIPMENT BUILDING									
LAND LINE VALUATION SECTION																	
B	Use Code	Description	Zone	Land Type	Land Units	Unit Price	Size Adj	Site Index	Cond.	Nbhd.	Nbhd. Adj	Notes	Location Adjustment	Adj Unit P	Land Value		
1	4340	Cell Tower	I		0.050 AC	82,000	40.0000	0	0.85		1.000	CELL TOWER SITE		1.0000	139,400		
Total Card Land Units					0.050 AC	Parcel Total Land Area					0.0500	Total Land Value					139,400

State Use 4340
Print Date 12/10/2020 11:57:49

CONSTRUCTION DETAIL						CONSTRUCTION DETAIL (CONTINUED)						
Element	Cd	Description	Element	Cd	Description							
Style:	94	Outbuildings										
Model:	00	Vacant										
Grade:												
Stories:												
Occupancy												
Exterior Wall 1												
Exterior Wall 2												
Roof Structure:												
Roof Cover												
Interior Wall 1												
Interior Wall 2												
Interior Flr 1												
Interior Flr 2												
Heat Fuel												
Heat Type:												
AC Type:												
Total Bedrooms												
Total Bthrms:												
Total Half Baths												
Total Xtra Fixtrs												
Total Rooms:												
Bath Style:												
Kitchen Style:												
			CONDO DATA									
			Parcel Id		C		Owne					
					B		S					
			Adjust Type		Code		Description		Factor%			
			Condo Flr									
			Condo Unit									
			COST / MARKET VALUATION									
			Building Value New									
			Year Built									
			Effective Year Built									
			Depreciation Code									
			Remodel Rating									
			Year Remodeled									
			Depreciation %									
			Functional Obsol									
			External Obsol									
			Trend Factor									
			Condition									
			Condition %									
			Percent Good									
			Cns Sect Rcld									
			Dep % Ovr									
			Dep Ovr Comment									
			Misc Imp Ovr									
			Misc Imp Ovr Comment									
			Cost to Cure Ovr									
			Cost to Cure Ovr Comment									
OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)												
Code	Descript	Sub	Sub Ty	L/B	Units	Unit Pric	Yr Blt	Cond. C	% Gd	Grade	Grade A	Appr. V
CB3	PerCast			L	425	350.00	2000		77		0.00	114,50
BUILDING SUB-AREA SUMMARY SECTION												
Code	Description				Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value			
Ttl Gross Liv / Lease Area					0	0			0			

State Use 4010
Print Date 12/10/2020 11:57:23

CURRENT OWNER				TOPO		UTILITIES		STRT / ROAD		LOCATION		CURRENT ASSESSMENT						6164 WINDSOR, CT VISION								
CB BAGGS LLP 4 HICKORY HILL WEST SPRINGFIELD MA 01089				1 Level				1 Paved				Description		Code	Appraised	Assessed										
										IND LAND		3-1	351,500	246,050												
										IND BLDG		3-2	1,121,600	785,120												
												IND IMPR		3-3	31,500	22,050										
				SUPPLEMENTAL DATA																						
				Alt Prcl ID 6739 INC: RETURNED GH				CTRACT 4735.02 CBLOCK 916 DIST HEART GL YEAR																		
				2007		1071490																				
				GIS ID		6739		Assoc Pid#																		
												Total		1,504,600		1,053,220										
RECORD OF OWNERSHIP				BK-VOL/PAGE		SALE DATE		Q/U		V/I		SALE PRICE		VC		PREVIOUS ASSESSMENTS (HISTORY)										
CB BAGGS LLP ADFM ASSOCIATES LLC COAST DISTRIBUTION SYSTEM INC COAST DISTRIBUTION SYS				1243		0531		10-06-2000		Q		I		1,500,000		00		Year	Code	Assessed	Year	Code	Assessed	Year	Code	Assessed
				1243		0522		10-06-2000		U		I		666,483		25		2019	3-1	246,050	2018	3-1	246,050	2017	3-1	246,050
				0998		0108		04-15-1994		U		I		0		4			3-2	785,120		3-2	785,120		3-2	771,820
				0758		0213		08-31-1989						0					3-3	22,050		3-3	22,050		3-3	14,560
																Total	1053220	Total	1053220	Total	1032430					
EXEMPTIONS								OTHER ASSESSMENTS				This signature acknowledges a visit by a Data Collector or Assessor														
Year	Code	Description		Amount		Code	Description		Number	Amount		Comm Int														
Total				0.00																						
ASSESSING NEIGHBORHOOD																										
Nbhd		Sub		Nbhd Name		B		Tracing		Batch																
200		A																								
NOTES																										
06739.00				REMOVED FROM PARCEL																						
49-471-109				AND PUT ON 06739.01																						
MEZZANINE REMOVED 10/94				10/01/03																						
ADDED VAULT 10/02				REF:V1501 P127 ESMNT & ASSIGNMENT																						
OBXF#6=DEPR ADJ ON HVAC																										
CELLULAR EQUIP BLDG																										
BUILDING PERMIT RECORD														VISIT / CHANGE HISTORY												
Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments						Date	Id	Type	Is	Cd	Purpost/Result							
H-022011	10-01-2003	HA	HVAC					CENTRAL A/C						01-03-2019	LL			40	No change							
B-021026	10-01-2002	CM	Commercial					VAULT						11-06-2003	SK			00	Measur+Listed							
														10-01-2002	SK			00	Measur+Listed							
														09-28-2000	SK			00	Measur+Listed							
														12-20-1989	JM			43	Change - Reinspection Rer							
														04-19-1988	GH			00								
LAND LINE VALUATION SECTION																										
B	Use Code	Description	Zone	Land Type	Land Units	Unit Price	I. Factor	Site Index	Cond.	Nbhd.	Nbhd Adj	Notes		Location Adjustment		Adj Unit Pric	Land Value									
1	4010	Ind Whses	I		2.900	AC	82,000	1.00000	1	1.00	200	1.400			0		332,900									
1	4010	Ind Whses	AA		0.810	AC	82,000	1.00000	0	0.20	200	1.400			0		18,600									
1	4340	Cell Tower			0.000	SF	0	1.00000	0	1.00		1.000			0		0									
Total Card Land Units					3.710	AC	Parcel Total Land Area: 3.7100					Total Land Value					351,500									

Property Location 440 HAYDEN STATION RD
 Vision ID 4740 Account # 06739.00

Map ID 49/ 471/ 109/ /
 Bldg # 1

Bldg Name
 Sec # 1 of 1

Card # 1 of 1

State Use 4010
 Print Date 12/10/2020 11:57:24

CONSTRUCTION DETAIL			CONSTRUCTION DETAIL (CONTINUED)		
Element	Cd	Description	Element	Cd	Description
Style:	48	Warehouse			
Model	96	Ind/Comm			
Grade	03	Average			
Stories:	1				
Occupancy					
Exterior Wall 1	27	Pre-finish Metl			
Exterior Wall 2					
Roof Structure	01	Flat			
Roof Cover	09	Enam Mtl Shing			
Interior Wall 1	01	Minim/Masonry			
Interior Wall 2					
Interior Floor 1	03	Concrete			
Interior Floor 2					
Heating Fuel	03	Gas			
Heating Type	03	Hot Air-no Duc			
AC Type	03	Central			
Bldg Use	4010	Ind Whses			
Total Rooms					
Total Bedrms	00				
Total Baths	2				
Heat/AC	01	Heat/AC Pkgs			
Frame Type	05	Steel			
Baths/Plumbing	02	Average			
Ceiling/Wall	03	Sus-Ceil/Mn Wl			
Rooms/Prtns	02	Average			
Wall Height	16.00				
% Conn Wall	0.00				
1st Floor Use:	4010				

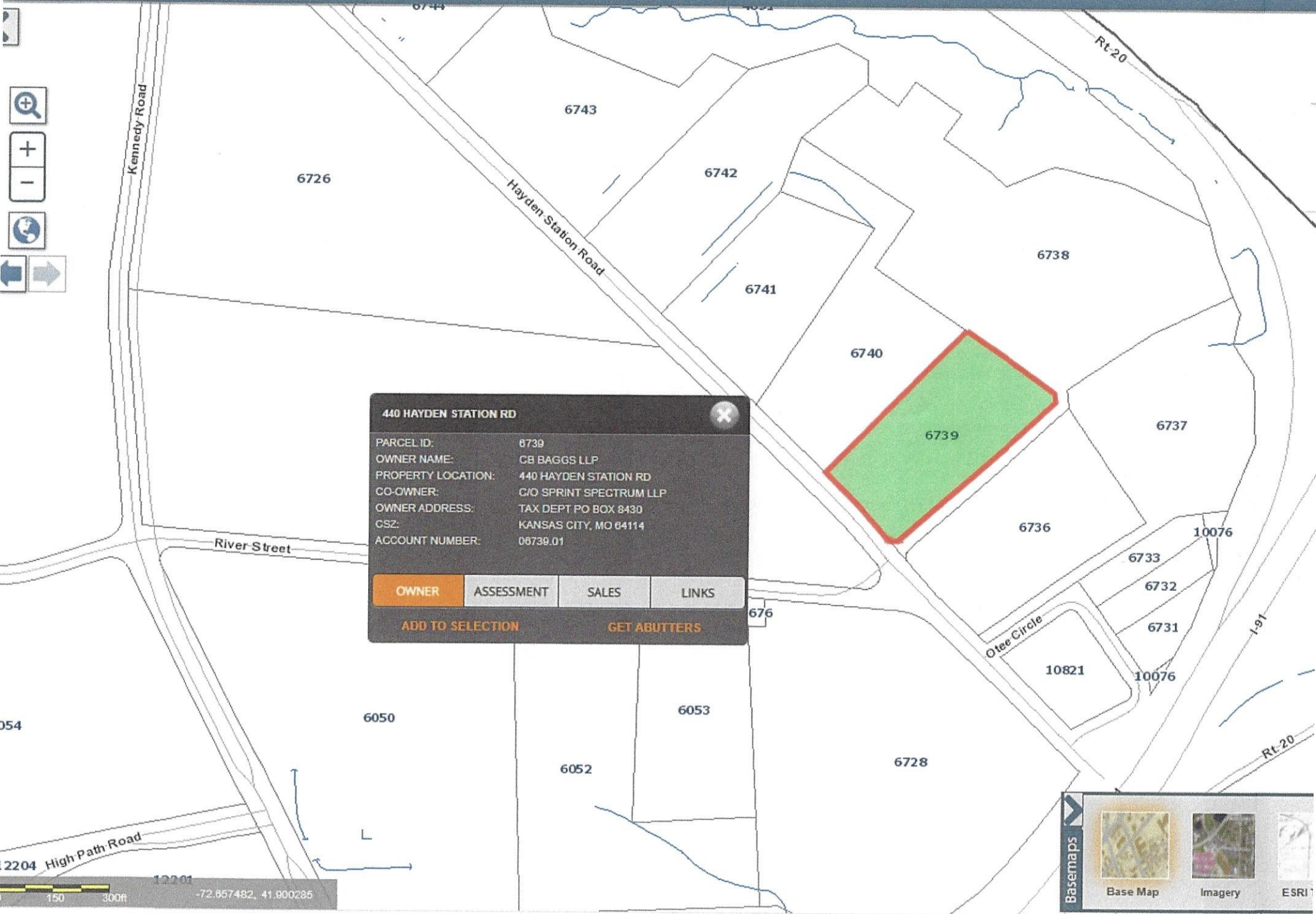
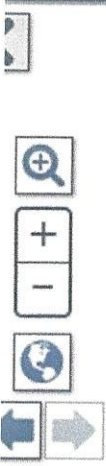
MIXED USE		
Code	Description	Percentage
4010	Ind Whses	100
		0
		0
COST / MARKET VALUATION		
RCN		1,546,037
Year Built		1982
Effective Year Built		
Depreciation Code		A
Remodel Rating		
Year Remodeled		
Depreciation %		21
Functional Obsol		0
External Obsol		15
Trend Factor		1
Condition		
Condition %		
Percent Good		64
Cns Sect Rcnd		989,500
Dep % Ovr		
Dep Ovr Comment		
Misc Imp Ovr		
Misc Imp Ovr Comment		
Cost to Cure Ovr		
Cost to Cure Ovr Comment		



OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)													
Code	Descripti	Sub	Sub Ty	L/B	Units	Unit Price	Yr Blt	Cond.	Cd	% Gd	Grade	Grade Ad	Appr. V
PAV1	PAVING-			L	21,00	2.50	2003			60		0.00	31,500
LDL1	LOAD L			B	7	3000.00	1997			64		0.00	13,400
SPR1	SPRINK			B	42,72	2.50	1997			64		0.00	68,400
VLT2	VAULT-			B	600	125.00	1997			64		0.00	48,000

BUILDING SUB-AREA SUMMARY SECTION						
Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value
BAS	First Floor	42,720	42,720		36.19	1,546,037
Ttl Gross Liv / Lease Area		42,720	42,720			1,546,037





440 HAYDEN STATION RD

PARCEL ID: 6739

OWNER NAME: CB BAGGS LLP

PROPERTY LOCATION: 440 HAYDEN STATION RD

CO-OWNER: C/O SPRINT SPECTRUM LLP

OWNER ADDRESS: TAX DEPT PO BOX 8430

CS2: KANSAS CITY, MO 64114

ACCOUNT NUMBER: 08739.01

OWNER

ASSESSMENT

SALES

LINKS

ADD TO SELECTION

GET ABUTTERS



Basemaps

Base Map

Imagery

ESRI

ATTACHMENT 2



SITE 065 Zoning Hayden Station
TOWN OF WINDSOR • CONNECTICUT
FIRST IN STATE • FIRST IN SERVICE • FIRST IN VALUE

October 3, 1996

Sprint Spectrum L.P.
C/O John Stevens
450 Murdock Road
Meriden, Connecticut 06450

Subject: 440 Hayden Station Road
Variance Request

Dear Mr. Stevens,

The Windsor Zoning Board of Appeals at it's business meeting following the public hearing held at 7:00 P.M. on Wednesday September 18, 1996, approved your request for a variance of Section 3.4.2F(l).

In accordance with Public Act 75-317 of the Connecticut General Statutes, the enclosed form must be **filed with the Town Clerk** of Windsor before said grant becomes effective. There is a filing fee of \$10.00. The paperwork must be filed by the record owner of the property within six months, according to Section 6.6 of the Zoning Board of Appeals By Laws, or the grant is null and void.

Very truly yours,

Helene H. Shay
Secretary
WINDSOR ZONING BOARD OF APPEALS

Encl.

Certified Mail No. P 433 581 779

WINDSOR ZONING BOARD OF APPEALS

I, Helene H. Shay, Secretary of the Windsor Zoning Board of Appeals, hereby certify that on Wednesday, September 18, 1996, the Zoning Board of Appeals of the Town of Windsor granted to:

Owner of Record: Jeffrey R. Wannamaker
(The Coast Distribution System, Inc.)

Located at: 440 Hayden Station Road

and more particularly bounded and described as follows:

Map No. 49, Block No. 471, Lot No. 109
in Volume 998, Page 108

the following variances to the Windsor Zoning Regulations:

Section 3.4.2F(1) - Parking Reduction
for Erection of Tower Antenna

Dated at Windsor, Connecticut, this 3rd day of October, 1996.



Helene H. Shay, Secretary
Windsor Zoning Board of Appeals

Received for the Record:

TOP SECTION TO BE FILLED IN BY Z.B.A. CLERK:

within 500' of other town? No

fee amount \$ 110.00

receipt number # 1874

clerk's name Karen

date submitted 8.27.96

date sign given 8.27.96

official date rec'd 8.27.96

(APPLICANT, DO NOT WRITE ABOVE THIS LINE)

Z O N I N G V A R I A N C E A P P L I C A T I O N

1.1)) PROPERTY INFORMATION ((

<u>79 Lamberton Road, Windsor</u>			<u>I-1</u>	
Street Address			Zone	
<u>43</u>	<u>108</u>	<u>5</u>	<u>642</u>	<u>151</u>
Map No.	Block No.	Lot No.	Volume No.	Page No.

1.2)) OWNER INFORMATION ((

Jerome M. Scharr

Name(s) as they appear on the deed of record

<u>40 East Newberry Road</u>	<u>Bloomfield</u>	<u>CT</u>	<u>06002</u>
Street Address	City	State	Zip

1.3)) APPLICANT INFORMATION ((

Sprint Spectrum, L.P. c/o John Stevens

Name of applicant

<u>450 Murdock Ave.</u>	<u>Meriden</u>	<u>CT</u>	<u>06450</u>
Street Address	City	State	Zip

1.4 Applicant's interest in the subject parcel? Lessee
(such as owner, agent, lessee, optionee, tenant)

1.5 Phone no. where applicant can be reached in the daytime 203-238-6910

1.6 Were any variances ever requested for this parcel in the past? No

1.7 Does the subject parcel have any existing non-conformities? No
(if so, describe them briefly)

1.8 Is the subject parcel vacant? No
(if not vacant, what is the parcel's existing use? Business Use -
golfing range currently operating on the parcel.

2.1 Complete the following table only for "SIZE VARIANCES",
or "DISTANCE VARIANCES", or "LOCATION VARIANCES"...

ZONING REGULATION SECTION NO.	DISTANCE REQUIRED BY REGULATIONS	LOCATION OF VARIANCE (side?, front?, rear?)	DISTANCE REQUESTED BY APPLICANT	NET AMOUNT OF VARIANCE :(#2 - #4 = #5)
#1	#2	#3	#4	#5
10.5.10C	240'	side	10'	230'
10.5.10C	240"	rear	5' approx.	235' approx.

2.2 For all other types of variances, state the Section Number of the
Zoning Regulations and describe precisely what is being requested...

2.3 (FIRST TEST) How is this request in HARMONY with the intent of the
Zoning Regulations?...

The requested set back variances will permit reasonable development of industrially
zoned land with a compatible use which recognizes and promotes the public health,
safety and welfare purposes of the regulations.

2.4 (SECOND TEST) How are the Zoning Regulations restricting the use of
the subject parcel in a manner different than similarly-zoned parcels
throughout Town? (In other words: What is the LEGAL HARDSHIP?)

The purpose of the distance requirements is to provide a safety area should the tower
fall. Although current construction techniques make such fall zones unnecessary, this
parcel's unique characteristics make the imposition of the regulations a hardship.

Wetlands and water courses to the west of the site make development within the fall zone
a highly regulated activity while the Terry Steam complex to the north precludes
development there.

3.1 List the names and addresses of ALL abutting landowners.

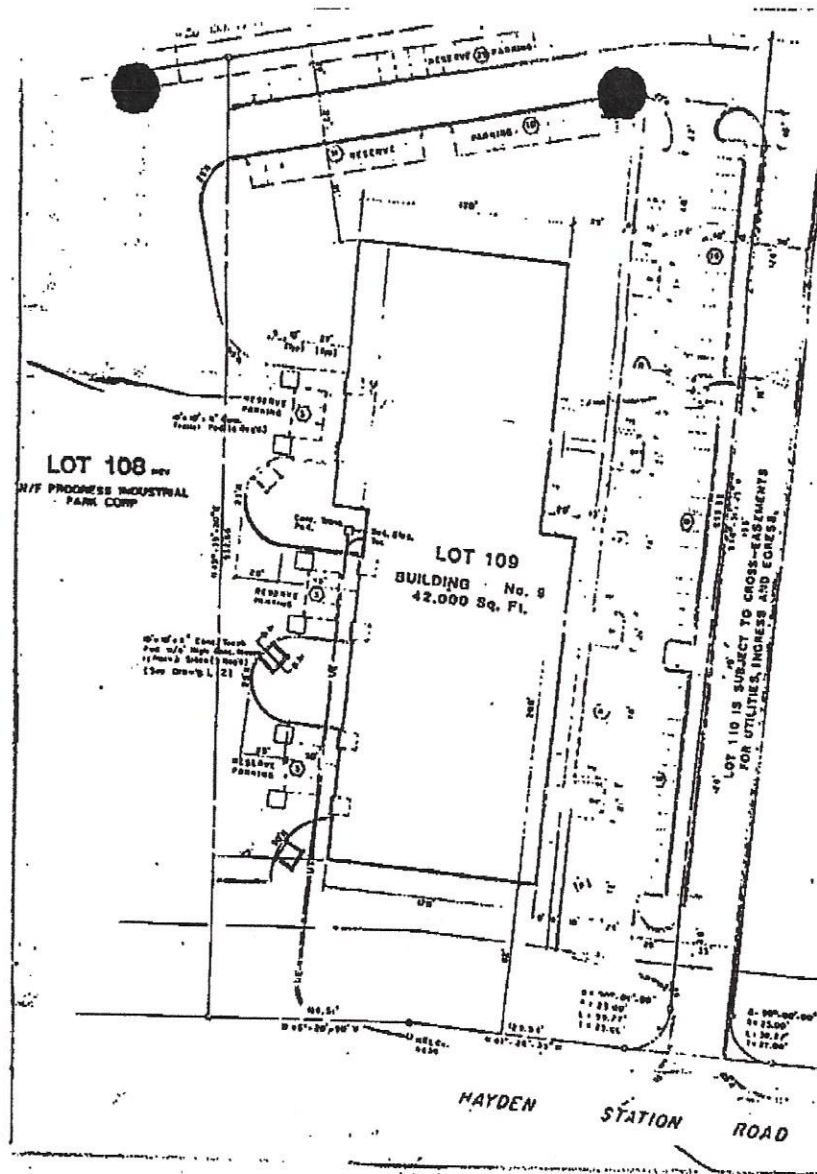
You MUST include ANY parcel which has ANY part of it within 100 feet of the subject parcel.

You MUST include these parcels even if they are separated from the subject parcel by streets, roads, rights-of-way, rivers, streams, buildings, railroad tracks, or anything else.

ALL ON MAP 43	N A M E	A D D R E S S
Wilkos, Walter Block-106 Lot-4		295 Pigeon Hill Rd.
Wilkos, Theodore Block 106 Lot-4A		337 Pigeon Hill Rd.
Caesar, Carolyn Block-106 Lot-5		321 Pigeon Hill Rd.
Dresser-Rand Co. Block-108 Lot 1A		Baron Stenben Place, Corning, NY 14830
Dudack Ignatz Block-108 Lot 6		400 Pigeon Hill Rd.
80 and 82 Lamberton Rd. LP		100 Pearl St. Hartford, CT 06103
c/o Farley Co. Block-109 Lot 43B		
Caesar, Carolyn Block-109 Lot 45		280 Pigeon Hill Rd.

ZBA application - revised 03/12/87 - PAGE 4 OF 5

4.1 USE THIS PAGE TO INCLUDE ANY OTHER INFORMATION WHICH CAN NOT FIT ANYWHERE ELSE ON THIS APPLICATION.



- 5.1 (PLOT PLAN) YOU MUST SUBMIT 10 COPIES OF A SURVEYOR'S PLOT PLAN OF THE SUBJECT PARCEL. THE PLOT PLAN MUST SHOW:
- ...ALL PROPOSED ADDITIONS OR CHANGES WITH DOTTED LINES
 - ...ALL RELEVANT DIMENSIONS
 - ...A NORTH ARROW
 - ...THE SCALE OF THE DRAWING
 - ...A PROPER LABEL WITH THE STREET ADDRESS

IF YOUR VARIANCE REQUEST IS FOR ANY DIMENSIONAL REQUIREMENT, SUCH AS A SET-BACK FROM A PROPERTY LINE, THE SURVEYOR'S PLOT PLAN MUST BE CERTIFIED TO BE ACCURATE TO AT LEAST AN "A-2" QUALITY STANDARD.

READ THE FOLLOWING STATEMENTS BEFORE SIGNING:

- 5.2 IT IS THE APPLICANT'S RESPONSIBILITY TO BE AWARE OF THE HEARING DATE.
- 5.3 THE APPLICANT MAY WITHDRAW THIS APPLICATION AT ANY TIME. IF EXPENSES HAVE BEEN INCURRED THE FEE WILL NOT BE REFUNDED.
- 5.4 IF A VARIANCE IS GRANTED, IT WILL NOT BECOME EFFECTIVE UNTIL THE APPLICANT FILES A CERTIFIED COPY OF THE VARIANCE WITH THE TOWN CLERK.
- 5.5 THE APPLICANT MUST POST THE SUPPLIED PLACARD SIGN ON THE SUBJECT PARCEL (not on a public utility pole!) AT LEAST 10 DAYS PRIOR TO THE HEARING...AND...MUST REMOVE IT 5 DAYS AFTER THE HEARING (or else the variance may be nullified).
- 5.6 THIS IS THE APPLICANT'S APPLICATION ONLY. THE STAFF IS NOT PERMITTED TO HELP COMPLETE THE APPLICATION. THE APPLICANT ASSUMES SOLE RESPONSIBILITY FOR ITS COMPLETENESS AND ACCURACY.

----- (COMPLETE EVERYTHING BELOW THIS LINE IN THE PRESENCE OF A NOTARY) -----

The undersigned applicant assumes sole responsibility for the completeness and accuracy of this application and, further, acknowledges that he/she has read and understands the above statements numbered 5.2 through 5.6:

(Applicant's Signature) *John Sever*

(To be filled in by Notary) On this date August 22, 1996, the above-signed applicant did personally appear before me and proved to my satisfaction to be the person who is herein referred to as the applicant; in witness whereof I hereunto set my hand and seal:

(Notary's Signature) _____
(And Seal)

My Commission Expires: _____

THOMAS F. FLYNN III
Commissioner of
The Superior Court

ATTACHMENT 3



VERIZON SITE NUMBER: 617244220
VERIZON SITE NAME: WINDSOR NE CT
VERIZON FUZE PROJECT ID: 16897287
VERIZON LOCATION CODE: 720913
SITE TYPE: MONOPOLE TOWER

BUSINESS UNIT #: 876326
SITE ADDRESS: 440 HAYDEN STATION ROAD
WINDSOR, CT 06095
COUNTY: HARTFORD
JURISDICTION: TOWN OF WINSOR
TOWER HEIGHT: 96'-0"

VERIZON NEW SITE BUILD - MC;4G_700,4G_850,4G_AWS,4G_CBRs,4G_PCS,5G_L-SUB6

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CC CROWN CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

326 TRYON RD 502 CENTENNIAL AVE
RALEIGH, NC 27603 CRANFORD, NJ 07016
(919) 661-6351

TEP JOB #: 217432.784455

VERIZON SITE ID:
617244220

VERIZON SITE NAME:
WINDSOR NE CT

CROWN BU #: 876326
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/12/23	SBS	CONSTRUCTION	RST
1	02/16/23	SBS	CONSTRUCTION	RST
2	03/01/23	SBS	CONSTRUCTION	RST
3	03/03/23	SBS	CONSTRUCTION	RST

03/03/23

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

SHEET NUMBER:
T-1

REVISION:
3

SITE INFORMATION	
CROWN CASTLE USA INC. SITE NAME:	HAYDEN STATION
SITE ADDRESS:	440 HAYDEN STATION ROAD WINDSOR, CT 06095
COUNTY:	HARTFORD
LOC ID #:	720913
AREA OF CONSTRUCTION:	EXISTING
LATITUDE:	41.897835° / 41° 53' 52.206" N
LONGITUDE:	-72.644067° / 72° 38' 38.6412" W
LAT/LONG TYPE:	NAD83
GROUND ELEVATION:	142'±
CURRENT ZONING:	I
JURISDICTION:	TOWN OF WINDSOR
OCCUPANCY CLASSIFICATION:	U
TYPE OF CONSTRUCTION:	IIB
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION
PROPERTY OWNER:	CB BAGGS LLP 4 HICKORY HILL WEST SPRINGFIELD, MA 01089
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA
CARRIER/APPLICANT:	VERIZON WIRELESS 20 ALEXANDER DRIVE WALLINGFORD, CT 06492
ELECTRIC PROVIDER:	NORTHEAST UTILITIES (800) 286-2000
FIBER PROVIDER:	AT&T (800) 331-0500

PROJECT TEAM	
A&E FIRM:	TOWER ENGINEERING PROFESSIONALS 325 TRYON ROAD RALIEGH, NC 27603-3530 OFFICE: (919) 661-6351 PROJECT MANAGER: JOSEPH T. CRESS CIVIL ENGINEER: SCOTT C. BRANTLEY
CROWN CASTLE USA INC. DISTRICT CONTACTS:	3 CORPORATE PARK DRIVE, SUITE 101 CLIFTON PARK, NY 12065 SARA REA LOADHOLDT - A&E SPECIALIST SARA.LOADHOLDT@CROWNCastle.COM WILLIAM GATES - PROJECT MANAGER WILLIAM.GATES@CROWNCastle.COM

VzW APPROVED SMART KIT
VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR
VzW SMART KIT APPROVED VENDORS WHERE APPLICABLE.

DRAWING INDEX	
SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
SP-1	SITE PLAN
C-1.1	COMPOUND PLAN
C-1.2	ENLARGED EQUIPMENT AREA PLAN
C-1.3	EQUIPMENT LAYOUT AND ELEVATION
C-2.1	TOWER ELEVATION & ANTENNA PLAN
C-2.2	EQUIPMENT AND PLUMBING SCHEDULE
C-3.1	ANTENNA AND RRH SCHEDULES
C-3.2	ANTENNA AND RRH SCHEDULES
C-4	EQUIPMENT DETAILS
C-5	EQUIPMENT DETAILS
C-6	CONCRETE PAD DETAILS
C-7	FENCE DETAILS
C-8	PLUMBING DIAGRAM
E-1	SERVICE PLAN AND DETAIL
E-2	POWER AND TELCO ROUTING PLAN
G-1	GROUNDING PLAN
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
APPENDIX	MOUNT SPECIFICATIONS
	ICE CANOPY SPECIFICATIONS
ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR FULL SIZE. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	

APPROVALS	
<u>SIGNATURE</u>	<u>DATE</u>
_____	_____
_____	_____
_____	_____

CONTRACTOR PMI REQUIREMENTS	
PMI ACCESSED AT	https://pmi.vxwsmart.com
SMART TOOL VENDOR	
PROJECT NUMBER	----
VzW LOCATION CODE (PSLC)	720913
*** PMI AND REQUIREMENTS ALSO EMBEDDED IN MOUNT ANALYSIS REPORT WHERE APPLICABLE.	

LOCATION MAP

DRIVING DIRECTIONS FROM DISTRICT OFFICE:

I-91 TO EXIT 40 GOING (EAST), EXIT EAST ONTO HWY 20, EXIT OFF AT FIRST EXIT (OLD COUNTY ROAD) TURN LEFT. GO TO HAYDEN STATION ROAD, TURN LEFT GO DOWN 1/2 MILE & MONOPOLE IS ON LEFT.

ACCESS TO TOWER UTILITIES IN THE WAREHOUSE INVOLVES COORDINATION WITH THE WAREHOUSE OWNERS. 48-72 HOURS NOTICE IS REQUIRED FOR ANY ACCESS TO THE BUILDING. CONTACT THE OWNERS AT LEAST 10 BUSINESS DAYS FOR ANY UTILITY INSTALL AND MAINTENANCE WORK THAT WILL INTERFERE WITH THE WAREHOUSE BUSINESS.

APPLICABLE CODES/REFERENCE DOCUMENTS

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	2022 Connecticut SBC/ 2021 IBC
MECHANICAL	2022 Connecticut SBC/ 2021 IMC
ELECTRICAL	2022 Connecticut SBC/ 2020 NEC

REFERENCE DOCUMENTS:

STRUCTURAL ANALYSIS:	B+T GROUP
DATED:	07/11/22
MOUNT ANALYSIS:	B+T GROUP
DATED:	03/02/23
RFDS REVISION:	0
DATED:	06/09/22
ORDER ID:	615099
REVISION:	1

CALL CONNECTICUT ONE CALL
(800) 922-4455 CBYD.COM
CALL 2 WORKING DAYS
BEFORE YOU DIG!

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO ENHANCE BROADBAND CONNECTIVITY AND CAPACITY TO THE EXISTING ELIGIBLE WIRELESS FACILITY.

TOWER SCOPE OF WORK:

- INSTALL (1) PLATFORM MOUNT
- INSTALL (3) DUAL ANTENNA MOUNTS
- INSTALL (9) ANTENNAS
- INSTALL (9) RRUs
- INSTALL (1) 12-OVP
- INSTALL (2) HYBRID CABLE

GROUND SCOPE OF WORK:

- REMOVE PARTIAL COMPOUND FENCE
- INSTALL COMPOUND FENCE EXTENSION
- INSTALL 12x20' CONCRETE PAD WITH 12X14' ICE CANOPY
- INSTALL EQUIPMENT AAND BATTERY CABINET
- INSTALL UTILITY FRAME
- INSTALL 200A INTEGRATED LOAD CENTER WITH GENERATOR INTERFACE
- INSTALL TELCO CABINET
- INSTALL 200A METER AND SERVICE DISCONNECT

NOTE:
PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT
THE CROWN NOC AT (800) 788-7011 & CROWN CONSTRUCTION
MANAGER

CROWN CASTLE USA INC. SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED– NO WORK SHALL COMMENCE PRIOR TO CROWN CASTLE USA INC. WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE CROWN CASTLE USA INC. NOC AT 800–788–7011 & THE CROWN CASTLE USA INC. CONSTRUCTION MANAGER.
2. "LOOK UP" – CROWN CASTLE USA INC. SAFETY CLIMB REQUIREMENT: THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR CROWN CASTLE USA INC. POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.
3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.
4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING LANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND CROWN CASTLE USA INC. STANDARD CED–STD–10253, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).
5. ALL SITE WORK TO COMPLY WITH QAS–STD–10068 "INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON CROWN CASTLE USA INC. TOWER SITE," CED–STD–10294 "STANDARD FOR INSTALLATION OF MOUNTS AND APPURTENANCES," AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS." IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY CROWN CASTLE USA INC. PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.
11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS. LATEST APPROVED REVISION.
12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, TOWER OWNER, CROWN CASTLE USA INC., AND/OR LOCAL UTILITIES.
14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.
15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.
18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR: GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER: VERIZON
TOWER OWNER: CROWN CASTLE USA INC.
2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.
3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.
4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.
5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CROWN CASTLE.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND CROWN CASTLE PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.
11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION AND IS TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.
12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF CROWN CASTLE USA INC.
13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.
3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.
4. CONCRETE EXPOSED TO FREEZE–THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER–TO–CEMENT RATIO (W/C) OF 0.45.
5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:
#4 BARS AND SMALLER.....40 ksi
#5 BARS AND LARGER.....60 ksi
6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER.....2"
#5 BARS AND SMALLER.....1–1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
SLAB AND WALLS.....3/4"
BEAMS AND COLUMNS.....1–1/2"
7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE; UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
 - 4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
 - 4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.
5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR–CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI–CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI–CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN–2, XHHW, XHHW–2, THW, THW–2, RHW, OR RHW–2 INSULATION UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP–STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT) OR METAL–CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
18. LIQUID–TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID–TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION–TYPE AND APPROVED FOR THE LOCATION USED. SET NEW FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEC AND THE NEC.
21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON–PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER–ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3R (OR BETTER) FOR EXTERIOR LOCATIONS.
25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR CROWN CASTLE USA INC. BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "VERIZON".
30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

CONDUCTOR COLOR CODE		
SYSTEM	CONDUCTOR	COLOR
120/240V, 1Ø	A PHASE	BLACK
	B PHASE	RED
	NEUTRAL	WHITE
	GROUND	GREEN
120/208V, 3Ø	A PHASE	BLACK
	B PHASE	RED
	C PHASE	BLUE
	NEUTRAL	WHITE
277/480V, 3Ø	GROUND	GREEN
	A PHASE	BROWN
	B PHASE	ORANGE OR PURPLE
	C PHASE	YELLOW
DC VOLTAGE	NEUTRAL	GREY
	GROUND	GREEN
	POS (+)	RED**
	NEG (–)	BLACK**

* SEE NEC 210.5(C)(1) AND (2)
** POLARITY MARKED AT TERMINATION

ABBREVIATIONS:

ANT	ANTENNA
(E)	EXISTING
FIF	FACILITY INTERFACE FRAME
GEN	GENERATOR
GPS	GLOBAL POSITIONING SYSTEM
GSM	GLOBAL SYSTEM FOR MOBILE
LTE	LONG TERM EVOLUTION
MGB	MASTER GROUND BAR
MW	MICROWAVE
(N)	NEW
NEC	NATIONAL ELECTRIC CODE
(P)	PROPOSED
PP	POWER PLANT
QTY	QUANTITY
RECT	RECTIFIER
RBS	RADIO BASE STATION
RET	REMOTE ELECTRIC TILT
RFDS	RADIO FREQUENCY DATA SHEET
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
SIAD	SMART INTEGRATED DEVICE
TMA	TOWER MOUNTED AMPLIFIER
TYP	TYPICAL
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
W.P.	WORK POINT

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

326 TRYON RD 502 CENTENNIAL AVE
RALEIGH, NC 27603 CRANFORD, NJ 07016
(919) 661-6351

TEP JOB #: 217432.784455

VERIZON SITE ID:
617244220

VERIZON SITE NAME:
WINDSOR NE CT

CROWN BU #: 876326
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/12/23	SBS	CONSTRUCTION	RST

GREENFIELD GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL–OF–POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON–ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 ft. OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON–METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON–METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD–WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).
21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY).

01/12/23

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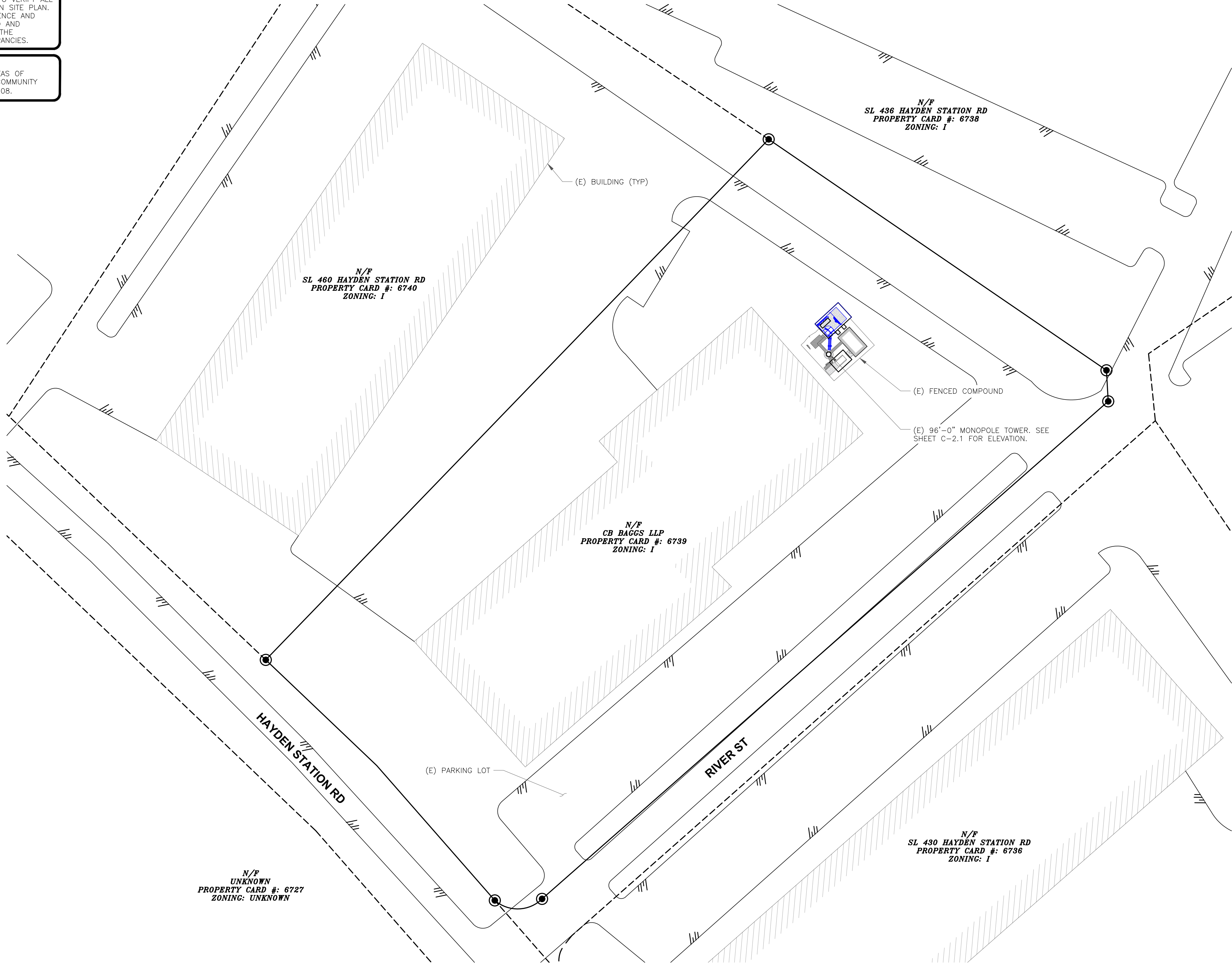
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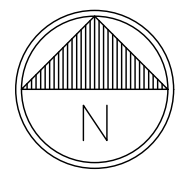
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NOTE:
COMPOUND SHOWN BELOW WAS REPRODUCED FROM
INFORMATION PROVIDED BY CROWN CASTLE AND SITE
WALK CONDUCTED BY TEP. CONTRACTOR TO VERIFY ALL
EXISTING INFORMATION IS AS INDICATED ON SITE PLAN.
CONTRACTOR IS TO ESTABLISH THE EXISTENCE AND
LOCATION OF ALL EXISTING UNDERGROUND AND
OVERHEAD UTILITIES. IMMEDIATELY NOTIFY THE
CONSTRUCTION MANAGER OF ANY DISCREPANCIES.

FLOODPLAIN NOTE:
THE TOWER IS LOCATED IN ZONE "X" AREAS OF
MINIMAL FLOODING ACCORDING TO FEMA COMMUNITY
PANEL #09003C01219F, DATED 09/26/2008.



1 SITE PLAN
SCALE: 1"=40'-0" (FULL SIZE)
1"=80'-0" (11x17)



verizon
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS
326 TRYON RD 502 CENTENNIAL AVE
RALEIGH, NC 27603 CRANFORD, NJ 07016
(919) 661-6351
TEP JOB #: 217432.784455

VERIZON SITE ID:
617244220

VERIZON SITE NAME:
WINDSOR NE CT

CROWN BU #: 876326
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/12/23	SBS	CONSTRUCTION	RST
1	02/16/23	SBS	CONSTRUCTION	RST
2	03/01/23	SBS	CONSTRUCTION	RST
3	03/03/23	SBS	CONSTRUCTION	RST



03/03/23

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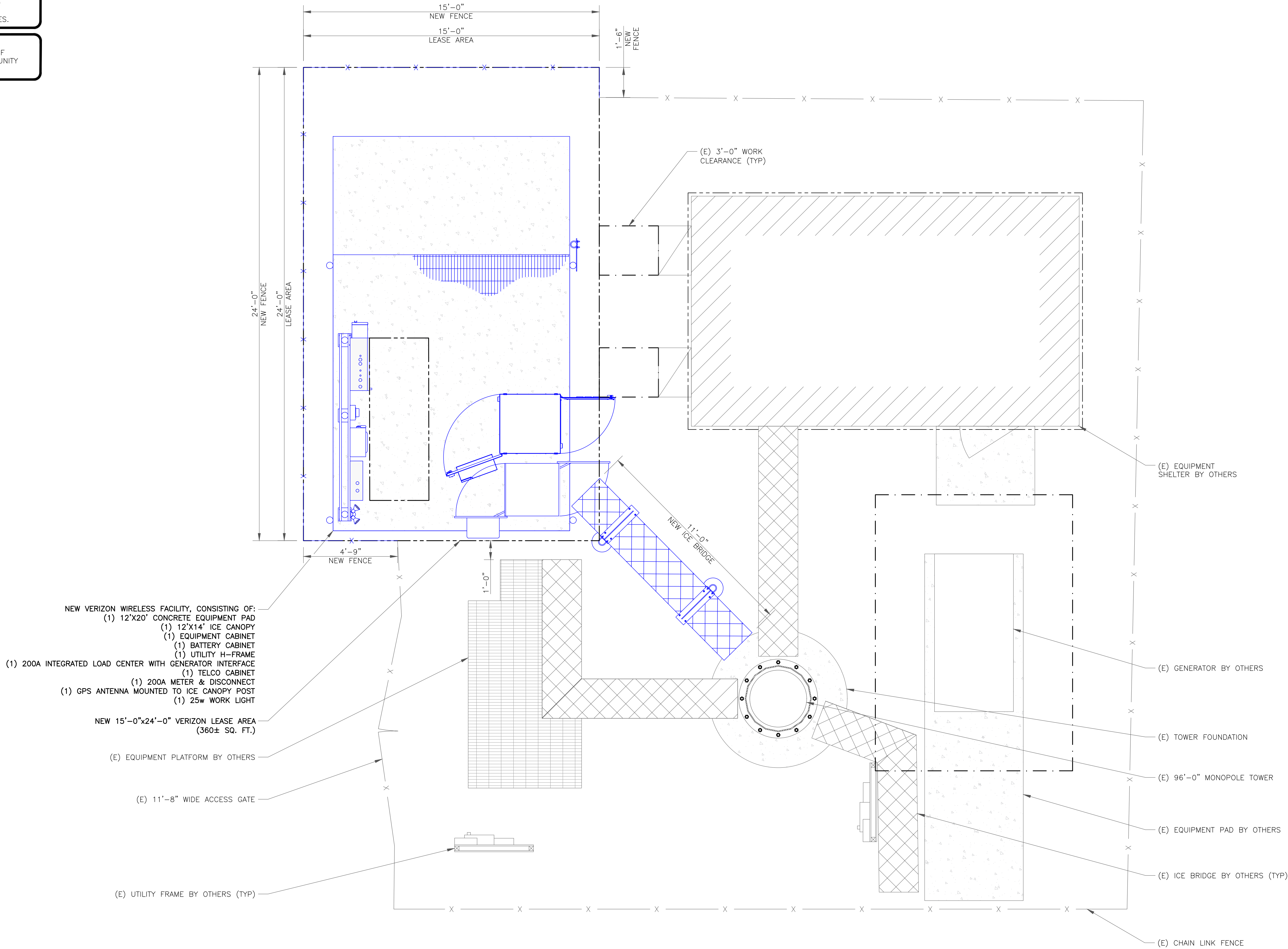
SP-1

REVISION:

3

NOTE:
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WALK CONDUCTED BY TEP. CONTRACTOR TO VERIFY ALL
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FLOODPLAIN NOTE:
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PANL #09003C01219F, DATED 09/26/2008.



NEW VERIZON WIRELESS FACILITY, CONSISTING OF:
(1) 12'X20" CONCRETE EQUIPMENT PAD
(1) 12'X14' ICE CANOPY
(1) EQUIPMENT CABINET
(1) BATTERY CABINET
(1) UTILITY H-FRAME
(1) 200A INTEGRATED LOAD CENTER WITH GENERATOR INTERFACE
(1) TELCO CABINET
(1) 200A METER & DISCONNECT
(1) GPS ANTENNA MOUNTED TO ICE CANOPY POST
(1) 25w WORK LIGHT

NEW 15'-0"x24'-0" VERIZON LEASE AREA
(360± SQ. FT.)

(E) EQUIPMENT PLATFORM BY OTHERS

(E) 11'-8" WIDE ACCESS GATE

(E) UTILITY FRAME BY OTHERS (TYP)

(E) 3'-0" WORK
CLEARANCE (TYP)

(E) EQUIPMENT
SHELTER BY OTHERS

(E) GENERATOR BY OTHERS

(E) TOWER FOUNDATION

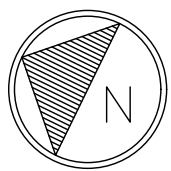
(E) 96'-0" MONOPOLE TOWER

(E) EQUIPMENT PAD BY OTHERS

(E) ICE BRIDGE BY OTHERS (TYP)

(E) CHAIN LINK FENCE

1 PROPOSED COMPOUND PLAN
SCALE: 3/8"=1'-0" (FULL SIZE)
3/16"=1'-0" (11x17)



verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

**CROWN
CASTLE**

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
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326 TRYON RD 502 CENTENNIAL AVE
RALEIGH, NC 27603 CRANFORD, NJ 07016
(919) 661-6351

TEP JOB #: 217432.784455

VERIZON SITE ID:
617244220

VERIZON SITE NAME:
WINDSOR NE CT

CROWN BU #: **876326**
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

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03/01/23

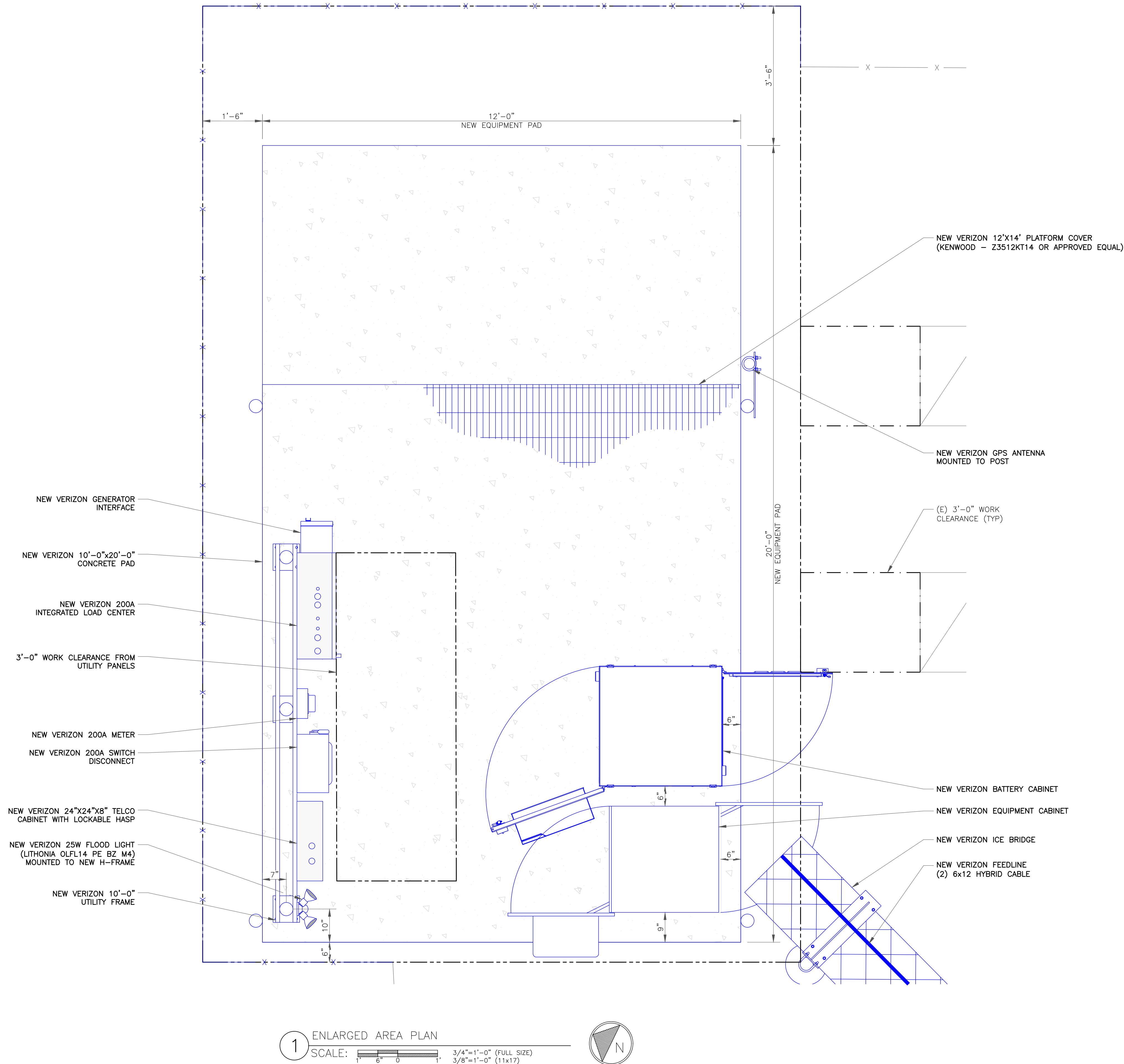
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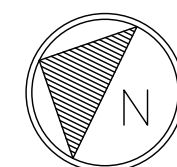
C-1.1

REVISION:

2



1 ENLARGED AREA PLAN
SCALE: 3/4"=1'-0" (FULL SIZE)
3/8"=1'-0" (11x17)



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MONOPOLE TOWER

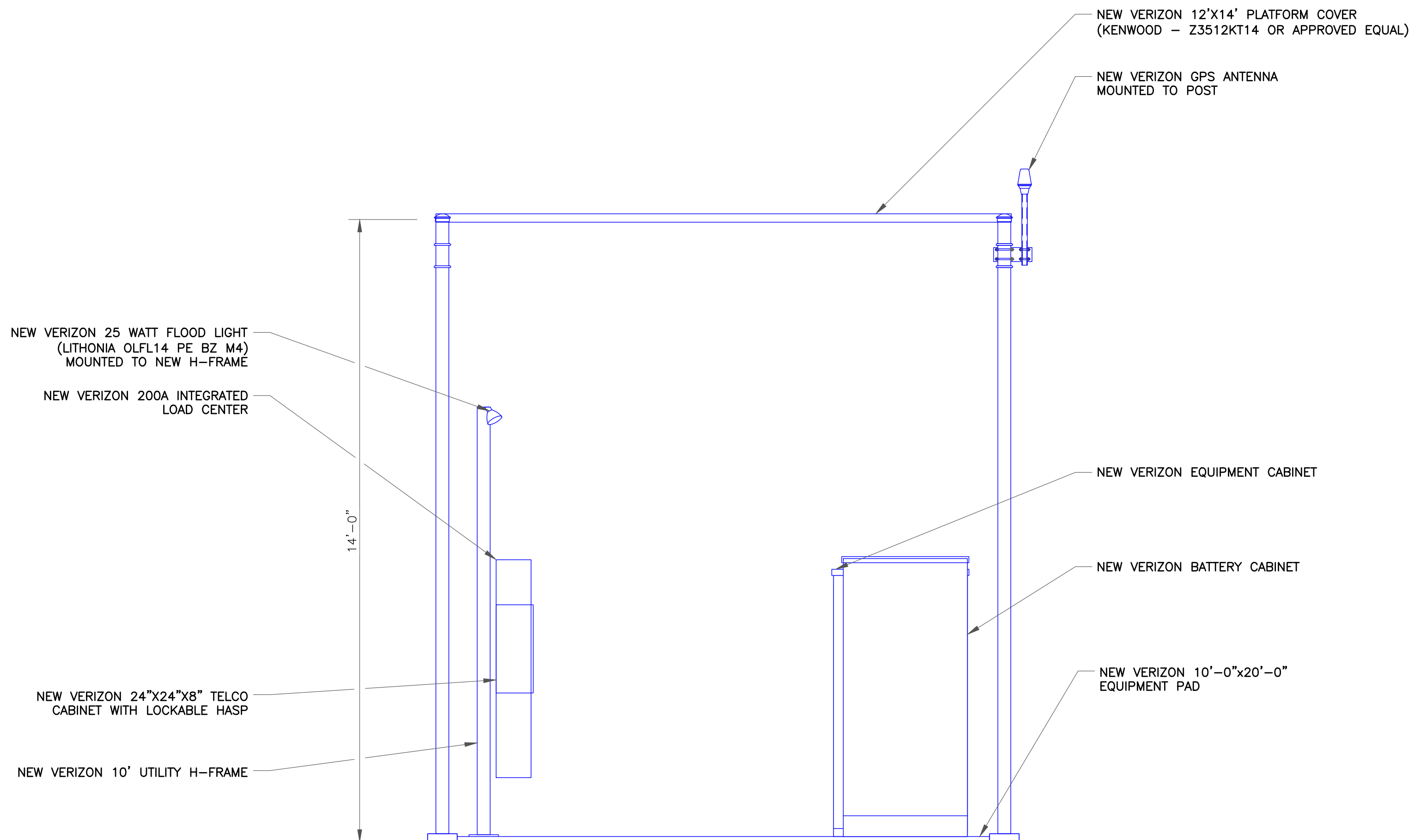
ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/12/23	SBS	CONSTRUCTION	RST
1	02/16/23	SBS	CONSTRUCTION	RST
2	03/01/23	SBS	CONSTRUCTION	RST



03/01/23

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SHEET NUMBER: **C-1.2** REVISION: **2**



1 EQUIPMENT ELEVATION
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

326 TRYON RD
RALEIGH, NC 27603
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502 CENTENNIAL AVE
CRANFORD, NJ 07016
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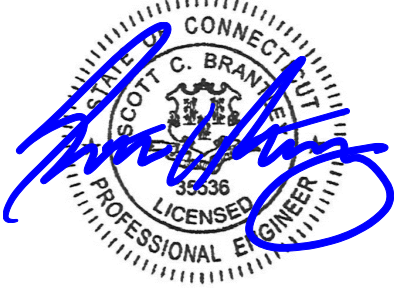
CROWN BU #: **876326**
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:

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01/12/23

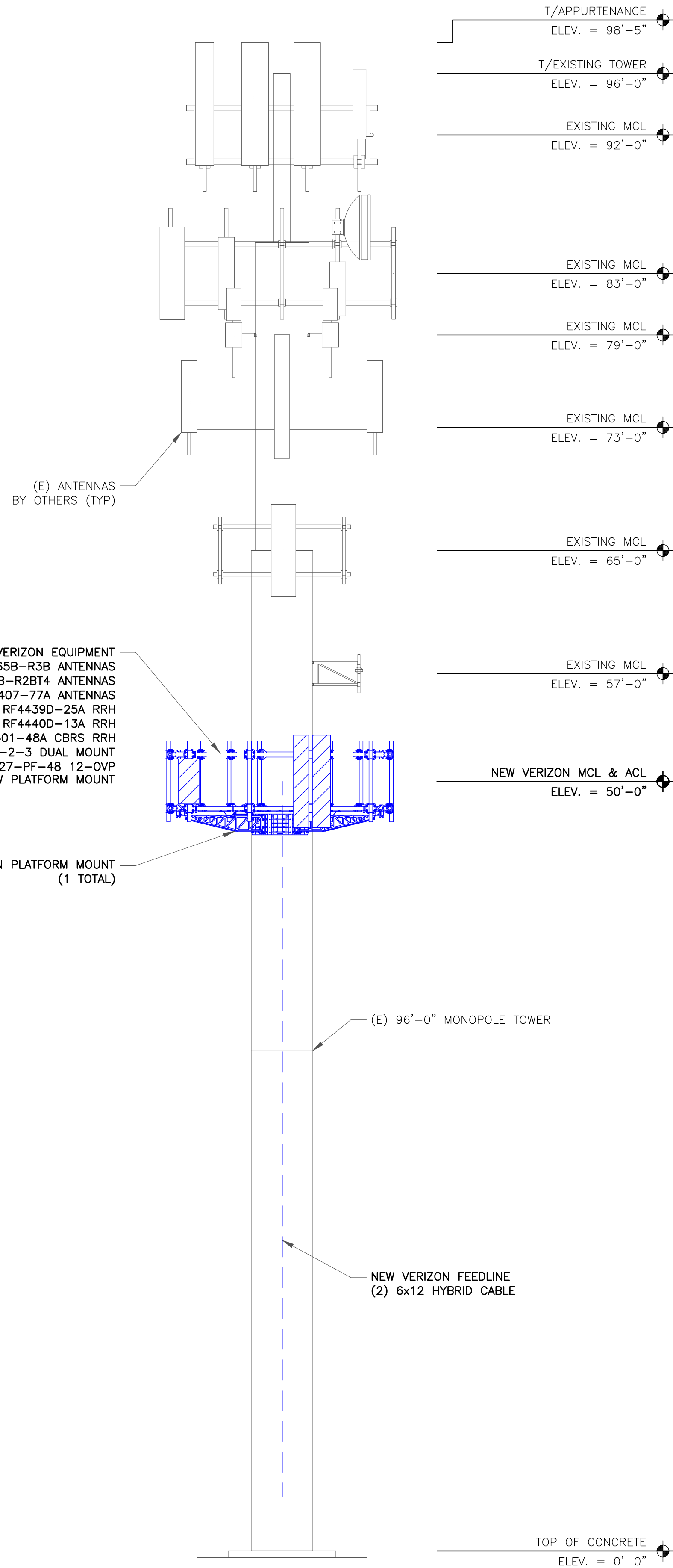
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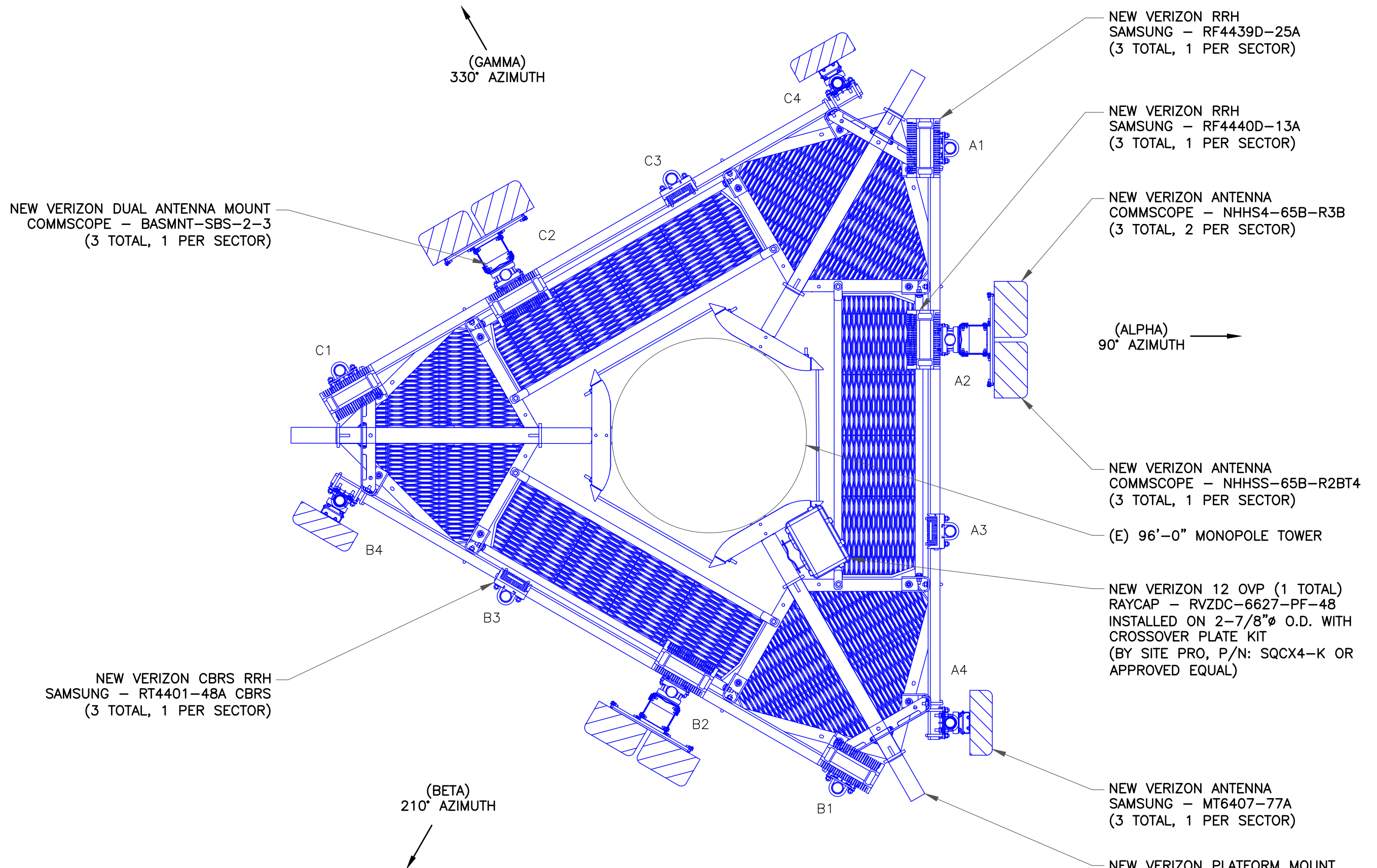
C-1.3

REVISION:

0



1 TOWER ELEVATION
SCALE: 3/16"=1'-0" (FULL SIZE)
3/32"=1'-0" (11x17)



INSTALLER NOTE:

EXISTING AND PROPOSED ANTENNA/
EQUIPMENT POSITIONING SHOWN PER
RFDS. FIELD CONDITIONS MAY VARY.

TOWER ANALYSIS NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING TOWER ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE TOWER ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED TOWER MODIFICATION DESIGN OR TOWER REPLACEMENT SHALL BE APPROVED BY EOR.

MOUNT ANALYSIS NOTES:

1. THE DESIGN DEPICTED IN THESE DRAWINGS IS VALID WHEN ACCOMPANIED BY A CORRESPONDING PASSING MOUNT ANALYSIS.
2. CONSTRUCTION MANAGER / GENERAL CONTRACTOR SHALL REVIEW THE MOUNT ANALYSIS FOR ANY CONDITIONS PRIOR TO INSTALLATION.
3. ANY REQUIRED MOUNT MODIFICATION DESIGN OR MOUNT REPLACEMENT SHALL BE APPROVED BY EOR.

2 PROPOSED ANTENNA PLAN
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



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**CROWN
CASTLE**

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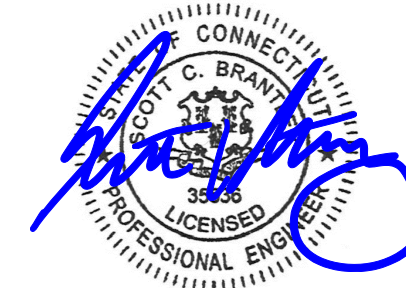
CROWN BU #: **876326**
HAYDEN STATION

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WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/12/23	SBS	CONSTRUCTION	RST



01/12/23

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TO ALTER THIS DOCUMENT.

SHEET NUMBER:

C-2.1

REVISION:

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verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN
CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

502 CENTENNIAL AVE
CRANFORD, NJ 07016

TEP JOB #: 217432.784455

VERIZON SITE ID:
617244220

VERIZON SITE NAME:
WINDSOR NE CT

CROWN BU #: 876326
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

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FINAL ANTENNA SCHEDULE											
SECTOR	ANTENNA								TOWER MOUNTED EQUIPMENT	FEEDLINE TYPE	
	POS.	TECHNOLOGY	RAD CENTER	AZIMUTH	MANUFACTURER	MODEL	MECH. TILT	ELEC. TILT			
ALPHA	A1	—	—	—	—	—	—	—	(1) SAMSUNG –RF4440D–13A RRH (1) SAMSUNG –RF4439D–25A RRH (1) SAMSUNG – RT4401–48A CBRS RRH (1) RAYCAP – RVZDC–6627–PF–48 12–OVP	(2) 6x12 HYBRID	
	A2	700/850/1900	50'–0"	90°	COMMSCOPE	NHHS4–65B–R3B	0°	0°			
		700/850/2100/CBRS	50'–0"	90°	COMMSCOPE	NHHSS–65B–R2BT4	0°	4°			
	A3	—	—	—	—	—	—	—			
	A4	L–SUB6	50'–0"	90°	SAMSUNG	MT6407–77A	0°	6°			
BETA	B1	—	—	—	—	—	—	—	(1) SAMSUNG –RF4440D–13A RRH (1) SAMSUNG –RF4439D–25A RRH (1) SAMSUNG – RT4401–48A CBRS RRH		(2) 6x12 HYBRID
	B2	700/850/1900	50'–0"	210°	COMMSCOPE	NHHS4–65B–R3B	0°	0°			
		700/850/2100/CBRS	50'–0"	210°	COMMSCOPE	NHHSS–65B–R2BT4	0°	4°			
	B3	—	—	—	—	—	—	—			
	B4	L–SUB6	50'–0"	210°	SAMSUNG	MT6407–77A	0°	6°			
GAMMA	C1	—	—	—	—	—	—	—	(1) SAMSUNG –RF4440D–13A RRH (1) SAMSUNG –RF4439D–25A RRH (1) SAMSUNG – RT4401–48A CBRS RRH	(2) 6x12 HYBRID	
	C2	700/850/1900	50'–0"	330°	COMMSCOPE	NHHS4–65B–R3B	0°	0°			
		700/850/2100/CBRS	50'–0"	330°	COMMSCOPE	NHHSS–65B–R2BT4	0°	4°			
	C3	—	—	—	—	—	—	—			
	C4	L–SUB6	50'–0"	330°	SAMSUNG	MT6407–77A	0°	6°			

FINAL CABLE SCHEDULE			
STATUS	CABLE TYPE	SIZE	QUANTITY
NEW	HYBRID	6x12	2
TOTAL CABLE QUANTITY			2



EAST > North East > New England > New England West > WINDSORNECT

RF Submit by: Brauer, Mark - mark.brauer2@verizonwireless.com - 6/9/2022, 12:55:23 PM

EE Submit by: , - -

Project Details
FUZE Project ID: 16897287
Project Name: WINDSOR NE CT
Project Alt Name: WINDSOR NE CT - MKT 68 - MC
Project Type: Initial Build
Modification Type:
Designed Sector Carrier 4G: 18
Designed Sector Carrier 5G: 3
Additional Sector Carrier 4G: N/A
Additional Sector Carrier 5G: N/A
FP Solution Type & Tech Type: MC;4G_700,4G_850,4G_AWS,4G_CBRS,4G_PCS,5G_L-Sub6
Carrier Aggregation: false
MPT Id:
eCIP-O: false
Suffix:

Location Information
Site ID: 617244220
E-NodeB ID:
PSLC: 720913
Switch Name:
Tower Owner:
Tower Type: Monopole
Site Type: MEDIUM-CELL
Site Sub Type: CRAN
Street Address: 440 Hayden Station RD
City: Windsor
State: CT
Zip Code: 06095
County: Hartford
Latitude: 41.897835 / 41° 53' 52.206" N
Longitude: -72.644067 / 72° 38' 38.6412" W

RFDS Project Scope: New build, preliminary need to verify available centerline.

Antenna Summary

Added																
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
LTE	LTE 5G	LTE				COMMSCOPE	NHHS4-65B-R3B	50	53	210(B) 330(C) 90(A)	true	true	PHYSICAL	3		
LTE	LTE 5G		LTE	LTE		COMMSCOPE	NHHSS-65B-R2BT4	50	53	210(B) 330(C) 90(A)	true	true	PHYSICAL	3	NHHSS-65B-R2BT4	
					5G	Samsung	MT6407-77A	50	51.5	210(B) 330(C) 90(A)	false	false	PHYSICAL	3		
Removed																
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
No data available.																
Retained																
700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID	
No data available.																

Added: 9 Removed: 0 Retained: 0

Equipment Summary

Added															
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID	
Mount	Tower							Commscope	BASMNT-SBS-2-3			PHYSICAL	3		
OVP Box	Tower							N/A	12 OVP			PHYSICAL	1		
Hybrid Cable	Tower							N/A	6x12 Hybriflex			PHYSICAL	2		
RRU	Tower				LTE	LTE		Samsung	B2/B66A RRH ORAN (RF4439d-25A)			PHYSICAL	3		
RRU	Tower		LTE	LTE 5G				Samsung	B5/B13 RRH ORAN (RF4440d-13A)			PHYSICAL	3		
RRU	Tower					LTE		Samsung	CBRS RRH - RT4401-48A			PHYSICAL	3	SLS-BR0542EAEX	
RRU	Tower						5G	Samsung	MT6407-77A			PHYSICAL	3		
Removed															
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID	
No data available.															
Retained															
Equipment Type	Location	700	850	1900	AWS	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID	
No data available.															



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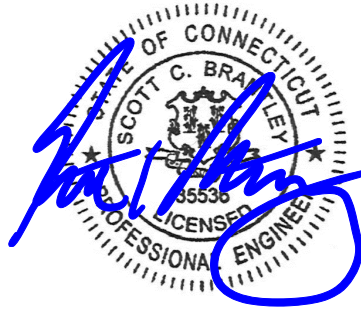
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Service Info

CBRS 3.5 GHz			
Sector	19	20	21
Azimuth	90	210	330
Cell / ENode B ID	068326	068326	068326
Antenna Model	NHH55-65B-R2BT4	NHH55-65B-R2BT4	NHH55-65B-R2BT4
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	50	50	50
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	4	4	4
Tip Height	53	53	53
Regulatory Power	84.65	84.65	84.65
DLEARFCN	55790	55790	55790
Channel Bandwidth(MHz)	10	10	10
Total ERP (W)	116.09	116.09	116.09
TMA Make			
TMA Model			
RRU Make	Samsung	Samsung	Samsung
RRU Model	CBRS RRH - RT4401-48A	CBRS RRH - RT4401-48A	CBRS RRH - RT4401-48A
Number of Tx, Rx Lines	4,4	4,4	4,4
Position	2	2	2
Transmitter Id	12609324	12609325	12609326
Source	ATOLL_API	ATOLL_API	ATOLL_API
700 MHz LTE			
Sector	01	02	03
Azimuth	90	210	330
Cell / ENode B ID	068326	068326	068326
Antenna Model	NHH54-65B-R3B	NHH54-65B-R3B	NHH54-65B-R3B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	50	50	50
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	0	0	0
Tip Height	53	53	53
Regulatory Power	74.23	74.23	74.23
DLEARFCN	5230	5230	5230
Channel Bandwidth(MHz)	10	10	10
Total ERP (W)	668.04	668.04	668.04
TMA Make			
TMA Model			
RRU Make	Samsung	Samsung	Samsung
RRU Model	B5/B13 RRH ORAN (RF4440d-13A)	B5/B13 RRH ORAN (RF4440d-13A)	B5/B13 RRH ORAN (RF4440d-13A)
Number of Tx, Rx Lines	4,4	4,4	4,4
Position	2,3	2,3	2,3
Transmitter Id	12609321	12609322	12609323
Source	ATOLL_API	ATOLL_API	ATOLL_API
850 MHz LTE			
Sector	01	0002	03
Azimuth	90	210	330
Cell / ENode B ID	068394	068394	068394
Antenna Model	NHH54-65B-R3B	NHH54-65B-R3B	NHH54-65B-R3B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	50	50	50
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	0	0	0
Tip Height	53	53	53
Regulatory Power	333.9	333.9	333.9
DLEARFCN	2450	2450	2450
Channel Bandwidth(MHz)	10	10	10
Total ERP (W)	751.28	751.28	751.28
TMA Make			
TMA Model			
RRU Make	Samsung	Samsung	Samsung
RRU Model	B5/B13 RRH ORAN (RF4440d-13A)	B5/B13 RRH ORAN (RF4440d-13A)	B5/B13 RRH ORAN (RF4440d-13A)
Number of Tx, Rx Lines	4,4	4,4	4,4
Position	2,3	2,3	2,3
Transmitter Id	12610513	12610514	12610515
Source	ATOLL_API	ATOLL_API	ATOLL_API
850 MHz 5G NR			
Sector	0097	0098	0099
Azimuth	90	210	330
Cell / ENode B ID	0689551	0689551	0689551
Antenna Model	NHH54-65B-R3B	NHH54-65B-R3B	NHH54-65B-R3B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	50	50	50
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	0	0	0
Tip Height	53	53	53
Regulatory Power	333.9	333.9	333.9
DLEARFCN	2450	2450	2450
Channel Bandwidth(MHz)	10	10	10
Total ERP (W)	751.28	751.28	751.28
TMA Make			
TMA Model			
RRU Make	Samsung	Samsung	Samsung
RRU Model	B5/B13 RRH ORAN (RF4440d-13A)	B5/B13 RRH ORAN (RF4440d-13A)	B5/B13 RRH ORAN (RF4440d-13A)
Number of Tx, Rx Lines	4,4	4,4	4,4
Position	2,3	2,3	2,3
Transmitter Id	12610513	12610514	12610515
Source	ATOLL_API	ATOLL_API	ATOLL_API

1900 MHz LTE			
Sector	01	02	03
Azimuth	90	210	330
Cell / ENode B ID	068326	068326	068326
Antenna Model	NHH54-65B-R3B	NHH54-65B-R3B	NHH54-65B-R3B
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	50	50	50
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	0	0	0
Tip Height	53	53	53
Regulatory Power	270.74	270.74	270.74
DLEARFCN	1050	1050	1050
Channel Bandwidth(MHz)	10	10	10
Total ERP (W)	1485.25	1485.25	1485.25
TMA Make			
TMA Model			
RRU Make	Samsung	Samsung	Samsung
RRU Model	B2/B66A RRH ORAN (RF4439d-25A)	B2/B66A RRH ORAN (RF4439d-25A)	B2/B66A RRH ORAN (RF4439d-25A)
Number of Tx, Rx Lines	4,4	4,4	4,4
Position	3	3	3
Transmitter Id	12609333	12609334	12609335
Source	ATOLL_API	ATOLL_API	ATOLL_API
2100 MHz LTE			
Sector	01	0002	03
Azimuth	90	210	330
Cell / ENode B ID	068326	068326	068326
Antenna Model	NHH55-65B-R2BT4	NHH55-65B-R2BT4	NHH55-65B-R2BT4
Antenna Make	COMMSCOPE	COMMSCOPE	COMMSCOPE
Antenna Centerline(Ft)	50	50	50
Mechanical Down-Tilt(Deg.)	0	0	0
Electrical Down-Tilt	0	0	0
Tip Height	53	53	53
Regulatory Power	136.31	136.31	136.31
DLEARFCN	2050	2050	2050
Channel Bandwidth(MHz)	20	20	20
Total ERP (W)	1495.55	1495.55	1495.55
TMA Make			
TMA Model			
RRU Make	Samsung	Samsung	Samsung
RRU Model	B2/B66A RRH ORAN (RF4439d-25A)	B2/B66A RRH ORAN (RF4439d-25A)	B2/B66A RRH ORAN (RF4439d-25A)
Number of Tx, Rx Lines	4,4	4,4	4,4
Position	2	2	2
Transmitter Id	12609318	12609319	12609320
Source	ATOLL_API	ATOLL_API	ATOLL_API
nL-Sub6			
Sector	0097	0098	0099
Azimuth	90	210	330
Cell / ENode B ID	0689551	0689551	0689551
Antenna Model	MT6407-77A	MT6407-77A	MT6407-77A
Antenna Make	Samsung	Samsung	Samsung
Antenna Centerline(Ft)	50	50	50
Mechanical Down-Tilt(Deg.)	null	null	null
Electrical Down-Tilt	6	6	6
Tip Height	51.5	51.5	51.5
Regulatory Power	767.64	767.64	767.64
DLEARFCN	640672	640672	640672
Channel Bandwidth(MHz)	60	60	60
Total ERP (W)	13335.21	13335.21	13335.21
TMA Make			
TMA Model			
RRU Make	Samsung	Samsung	Samsung
RRU Model	MT6407-77A	MT6407-77A	MT6407-77A
Number of Tx, Rx Lines	2,2	2,2	2,2
Position	1	1	1
Transmitter Id	12609327	12609328	12609329
Source	ATOLL_API	ATOLL_API	ATOLL_API
Service Comments			

verizon

20 ALEXANDER DRIVE
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CROWN
CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
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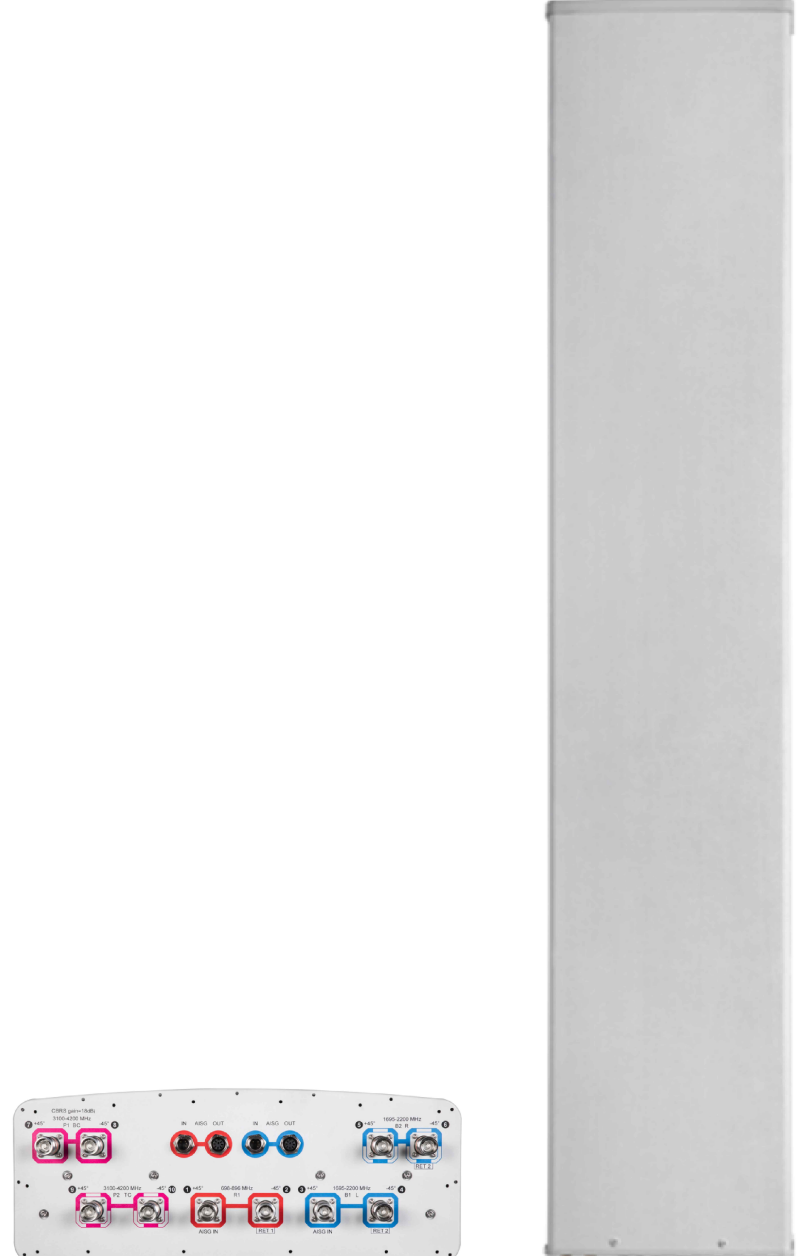
REVISION:

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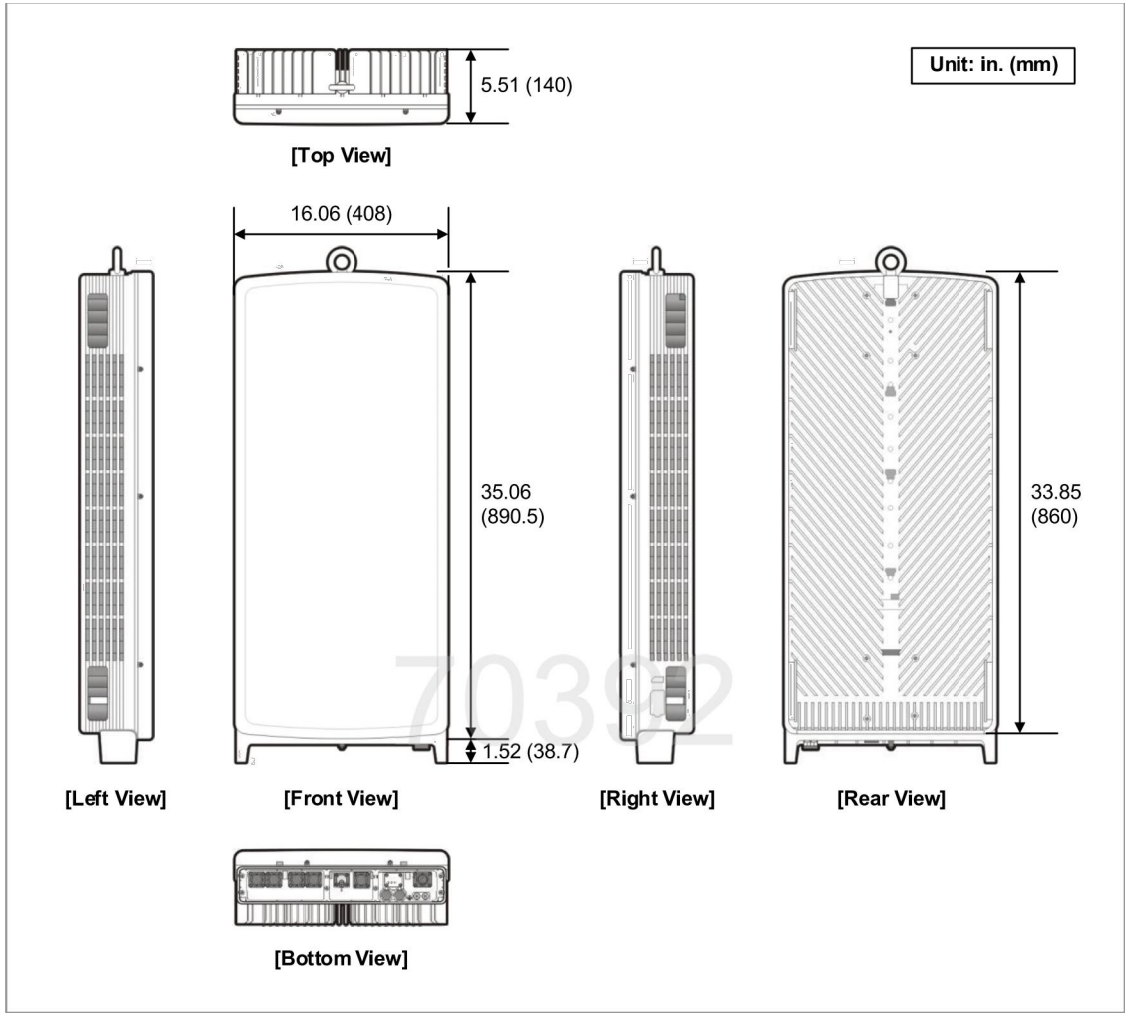
COMMSCOPE — NHHS4-65B-R3B
WEIGHT: 73.20 LBS
SIZE (HxWxD): 72.0x13.8x8.2 IN.

1 COMMSCOPE — NHHS4-65B-R3B
SCALE: NOT TO SCALE



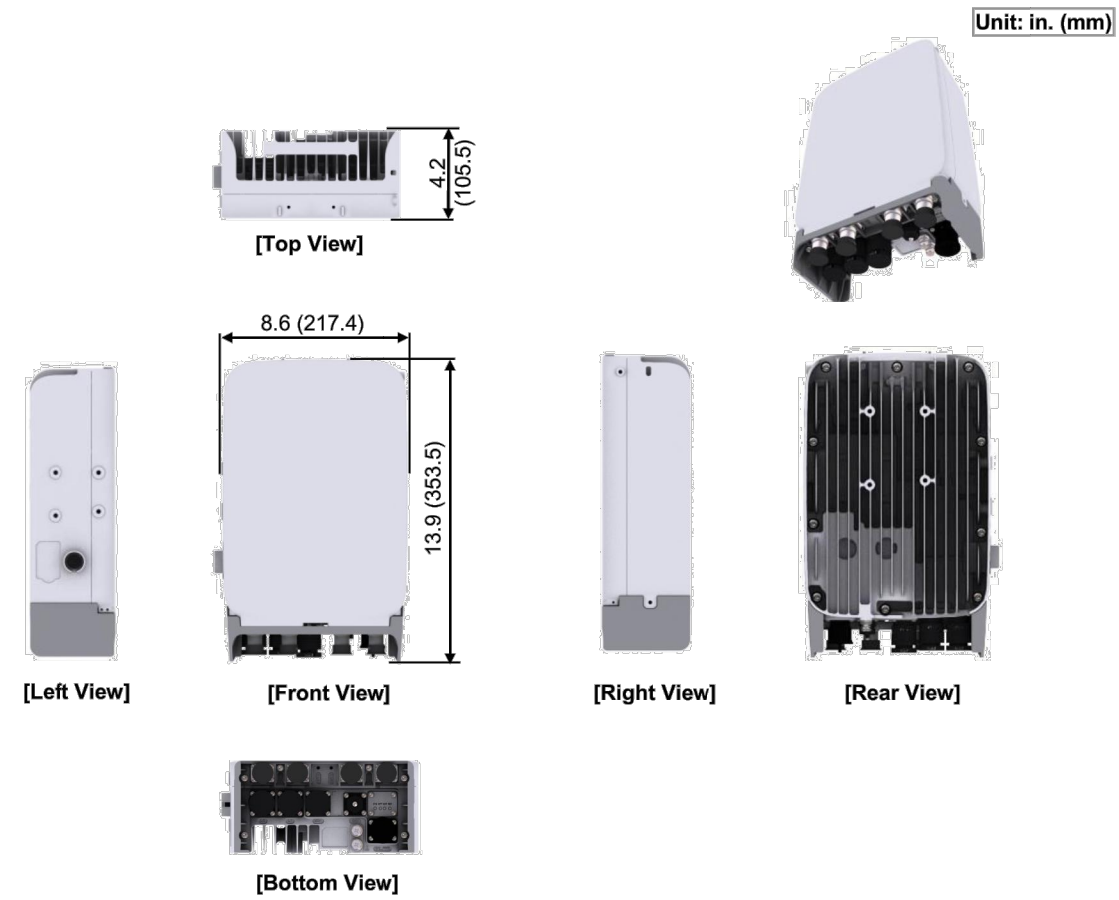
COMMSCOPE — NHHS-65B-R2BT4
WEIGHT: 64.63 LBS
SIZE (HxWxD): 71.97x11.85x7.13 IN.

2 COMMSCOPE — NHHS-65B-R2BT4
SCALE: NOT TO SCALE



SAMSUNG TELECOMMUNICATIONS — MT6407-77A ANTENNA
WEIGHT: 81.57 LBS
SIZE (HxWxD): 35.06x16.06x5.51 IN.

3 SAMSUNG — MT6407-77A
SCALE: NOT TO SCALE



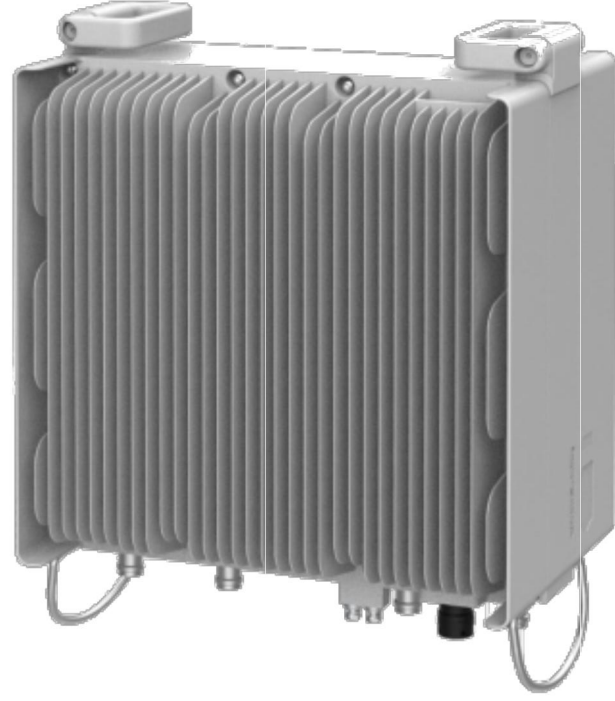
SAMSUNG — RT4401-48A CBRS
SIZE (HxWxD): 16.16x11.39x5.45 IN.

4 SAMSUNG — RT4401-48A CBRS
SCALE: NOT TO SCALE



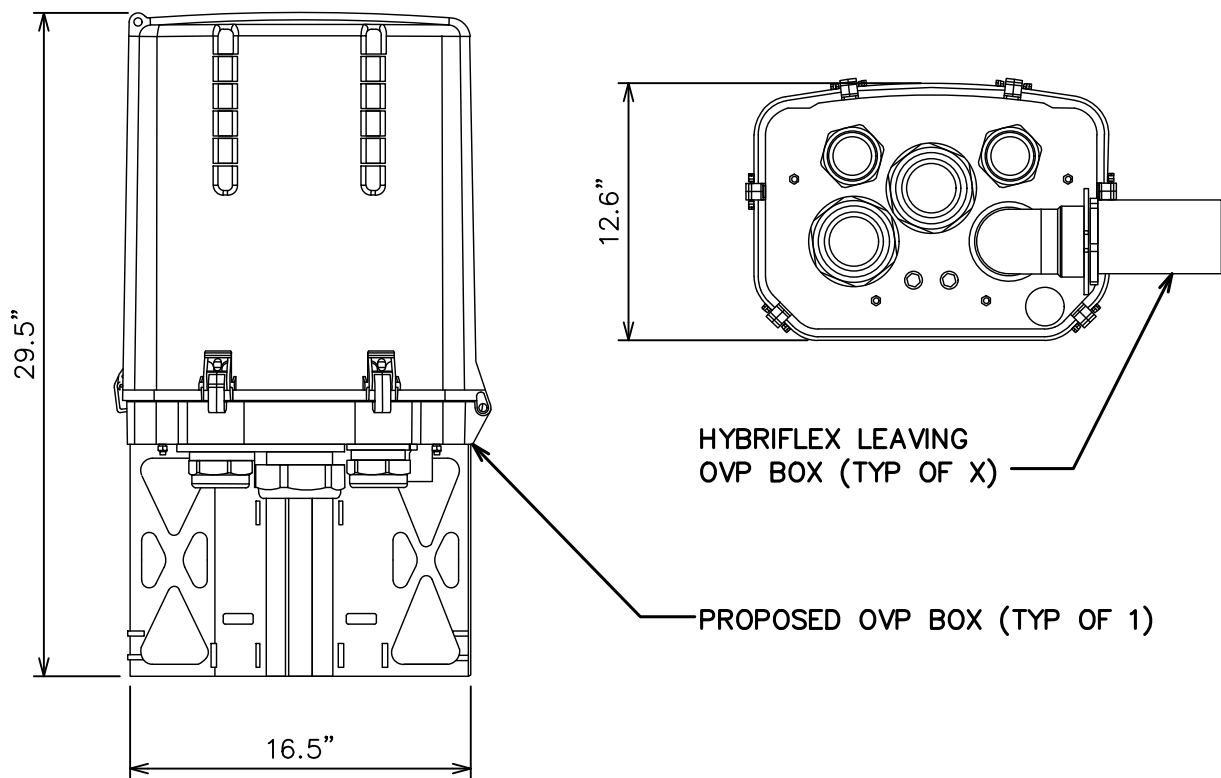
SAMSUNG — RF4439D-25A
WEIGHT: 74.7 LBS
SIZE (HxWxD): 14.96X14.96X10.04IN.

5 SAMSUNG — RF4439D-25A
SCALE: NOT TO SCALE



SAMSUNG — RF4440D-13A
WEIGHT: 70.33 LBS
SIZE (HxWxD): 14.96X14.96X9.05 IN.

6 SAMSUNG — RF4440D-13A
SCALE: NOT TO SCALE

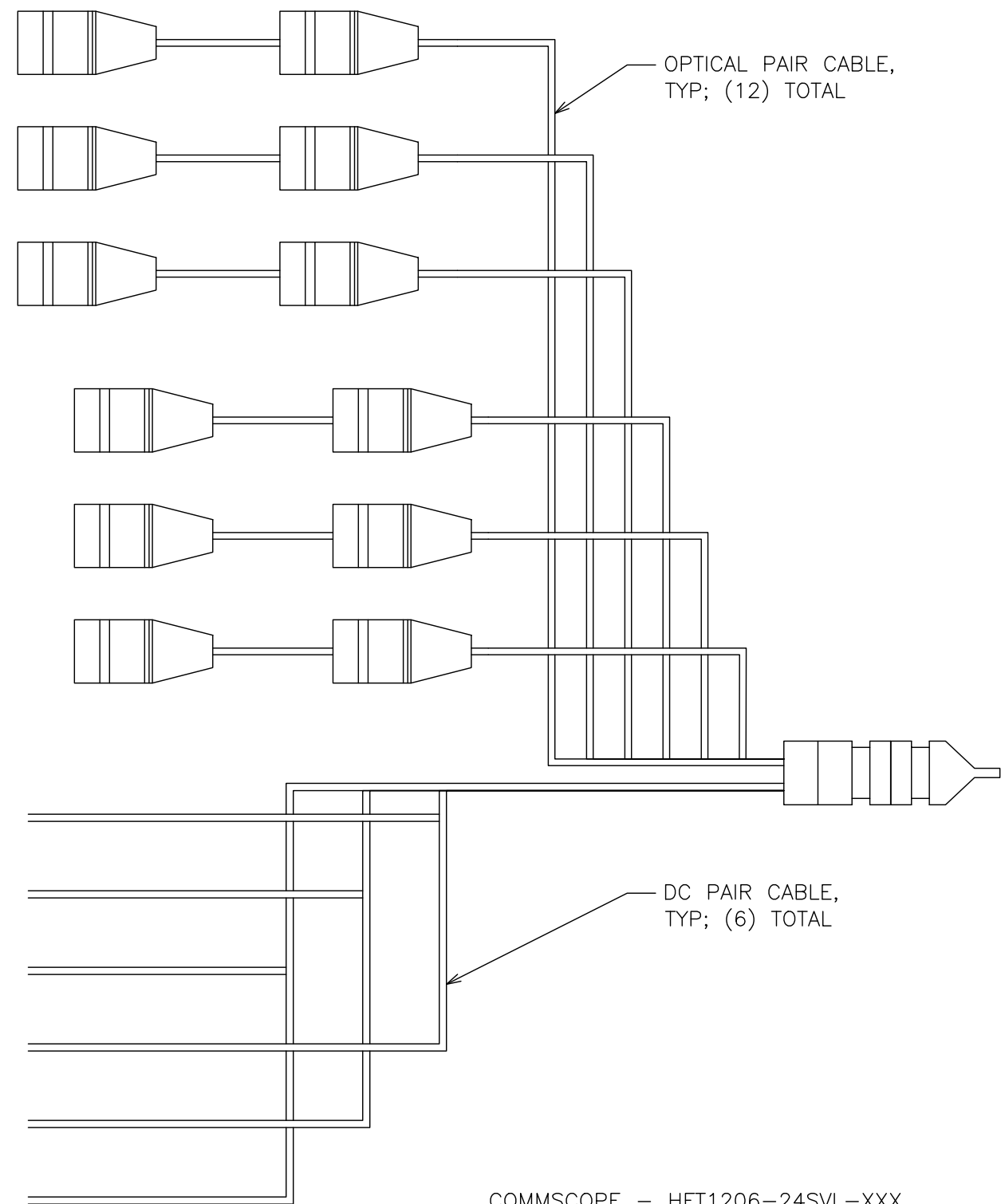


FRONT

TOP

RAYCAP — RVZDC-6627-PF-48
WEIGHT (WITHOUT MOUNTING HARDWARE): 32 LBS
SIZE (HxWxD): 29.5x16.5x12.6 IN.

7 12-OVP DETAIL
SCALE: NOT TO SCALE



COMMSCOPE — HFT1206-24SVL-XXX
WEIGHT: 1.7 LBS/FT
DIAMETER: 1.99" (±.1")
COAX EQUIVALENT: 15"

8 HCS DETAIL
SCALE: NOT TO SCALE

verizon

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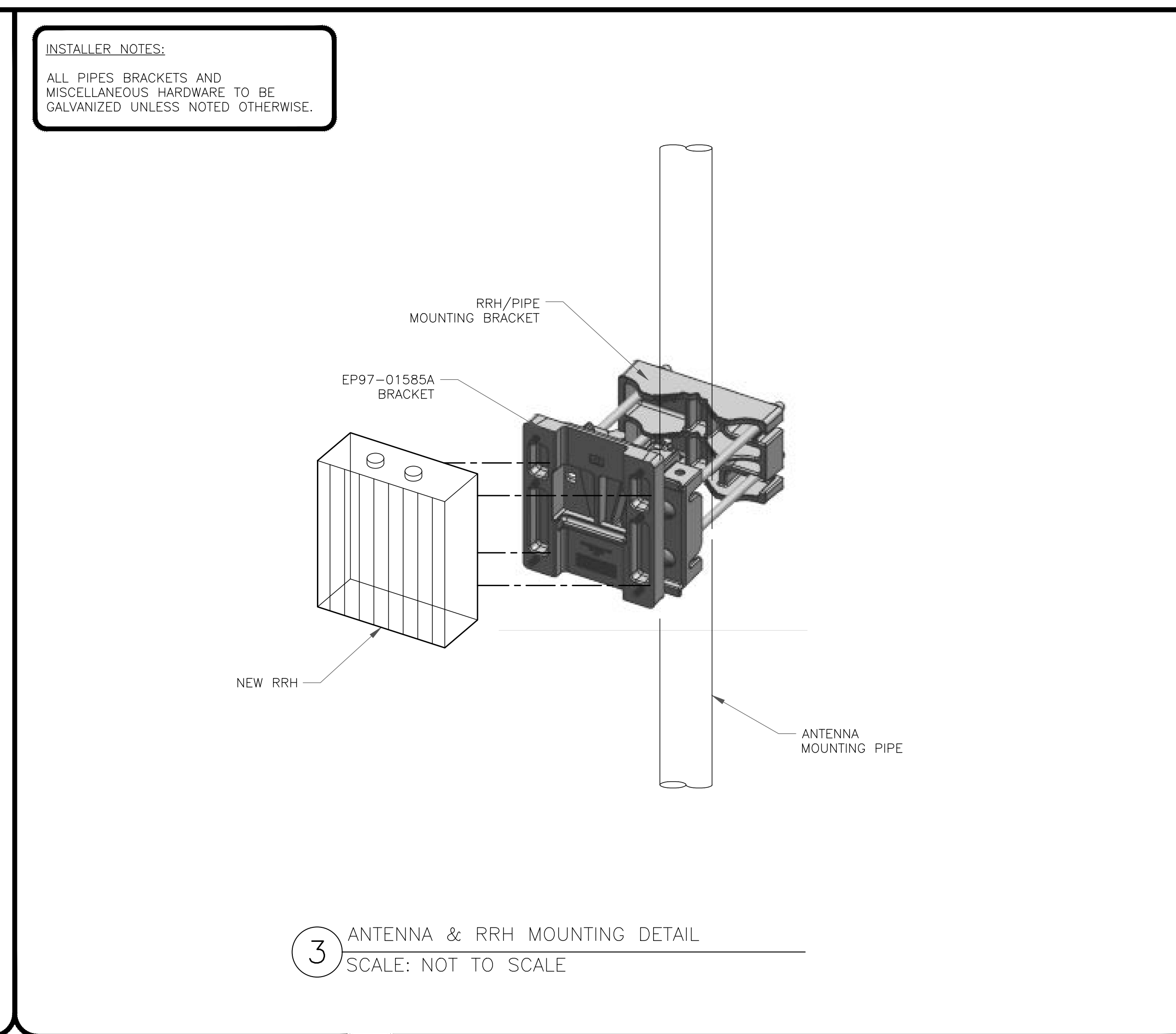
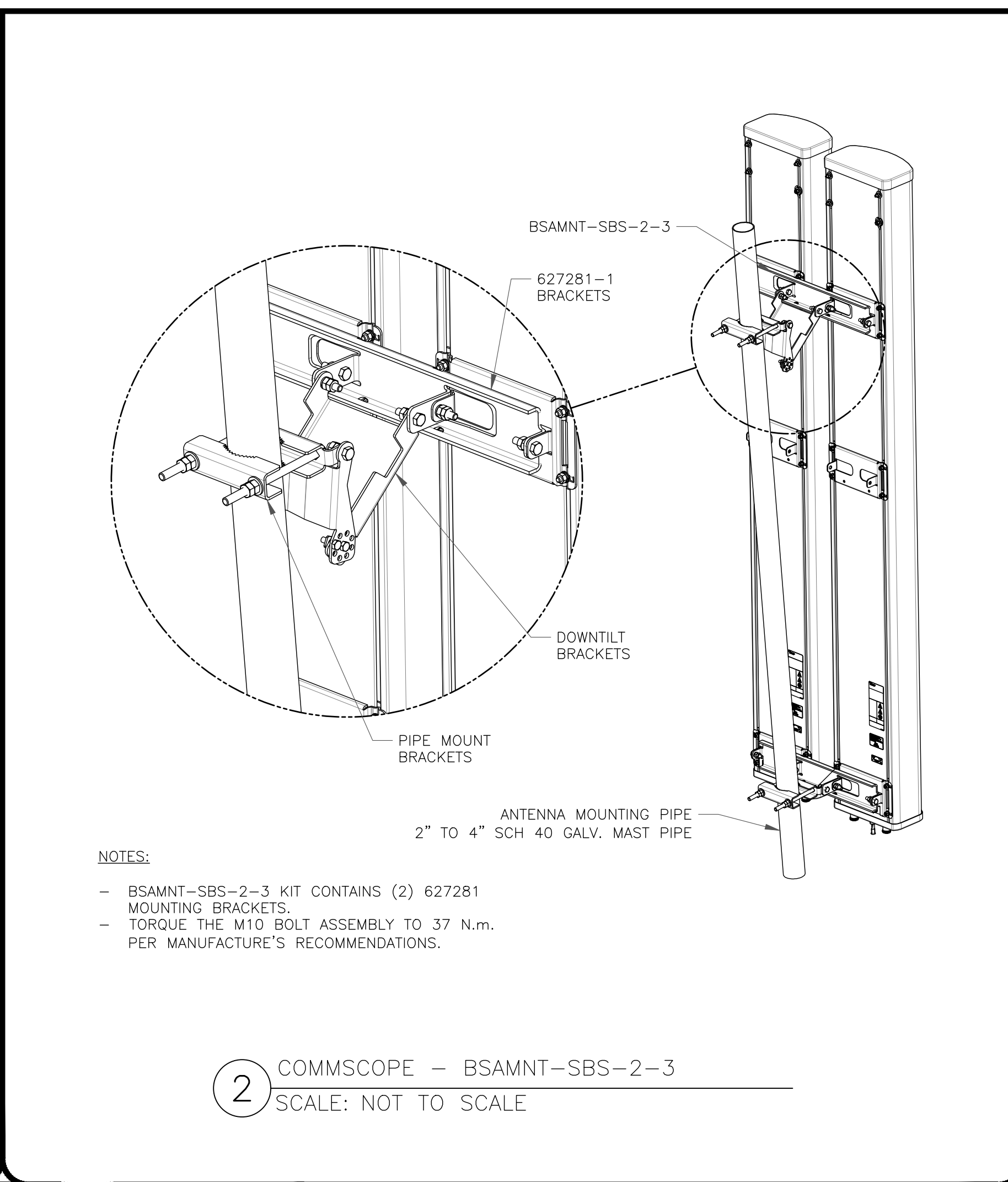
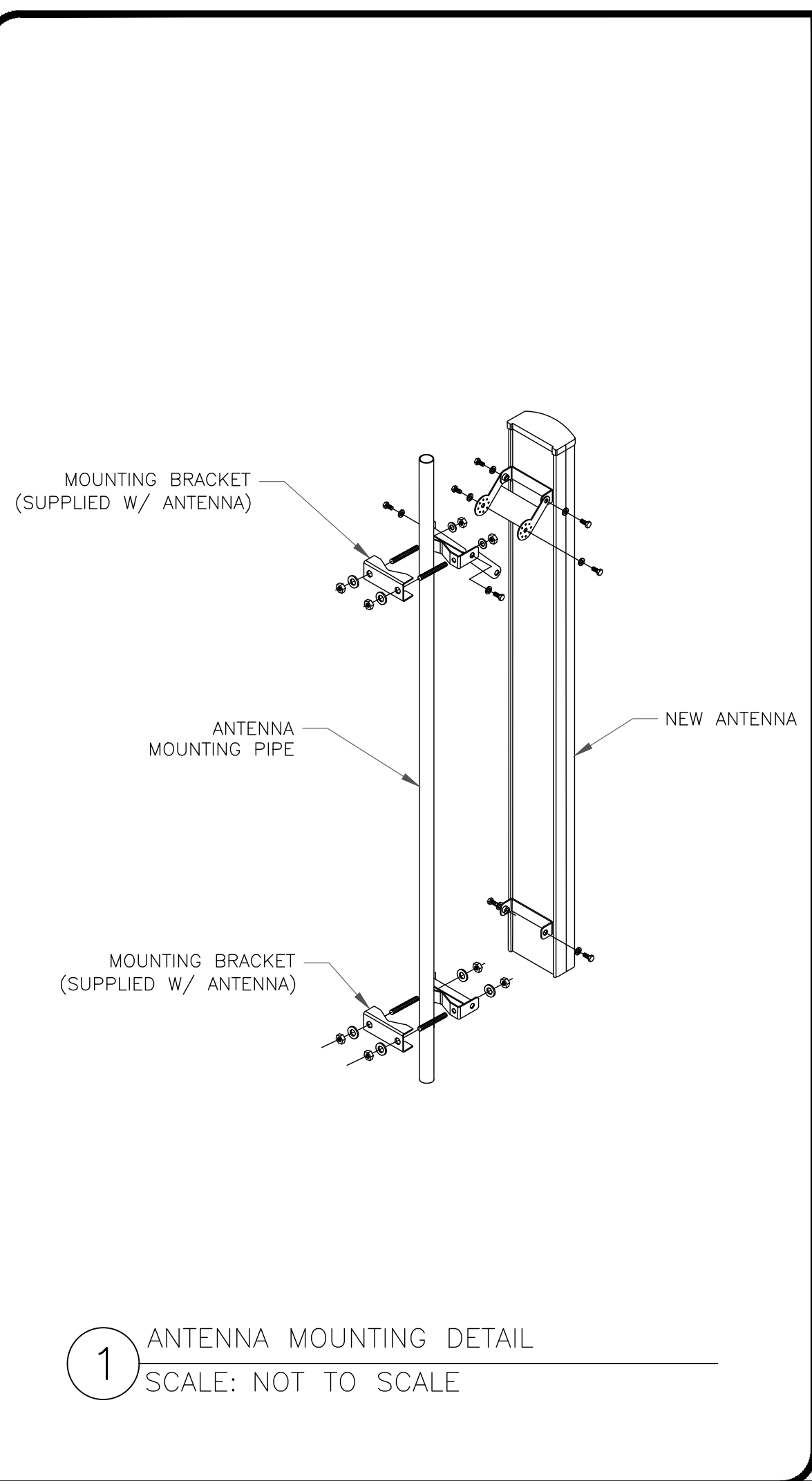
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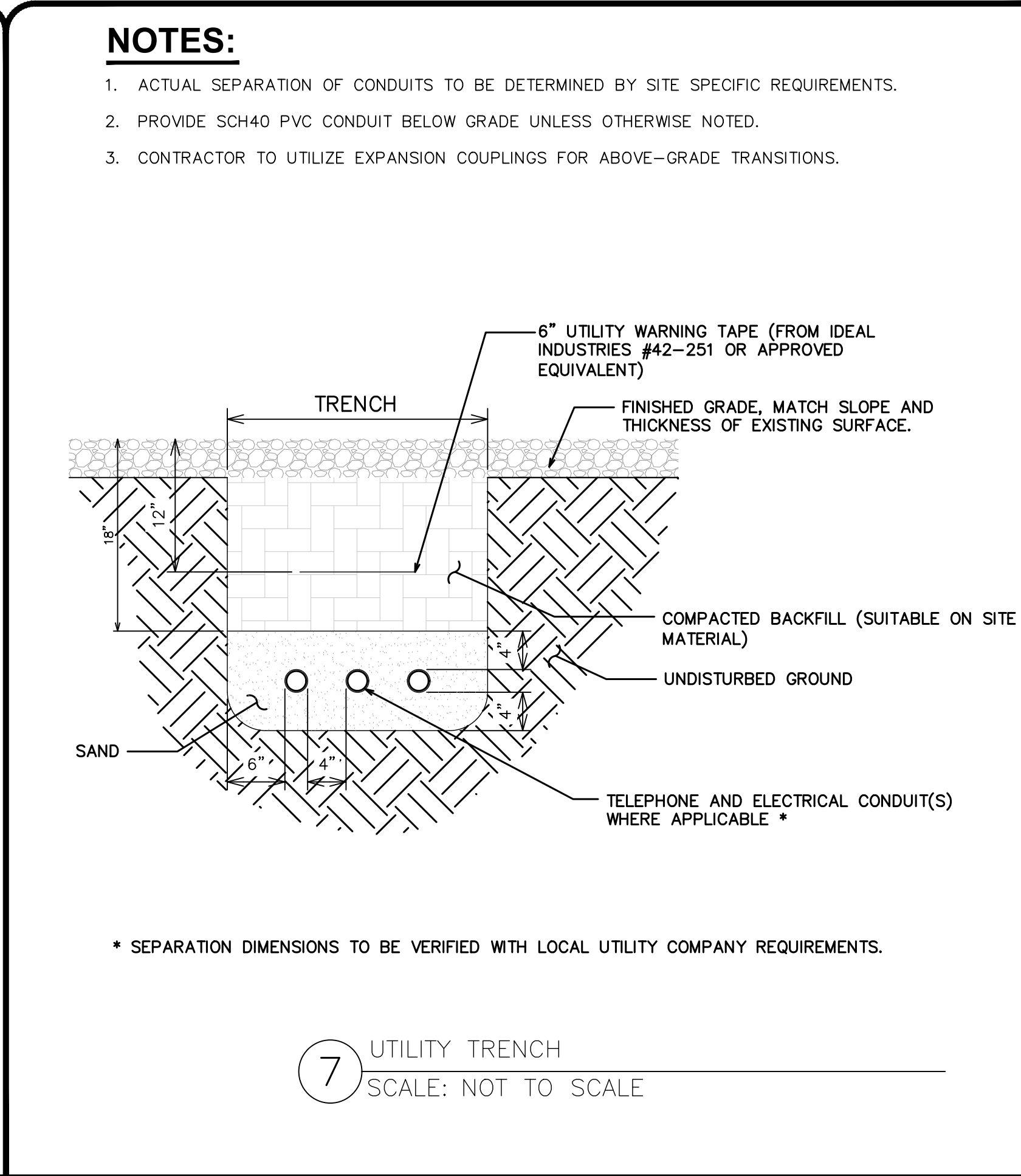
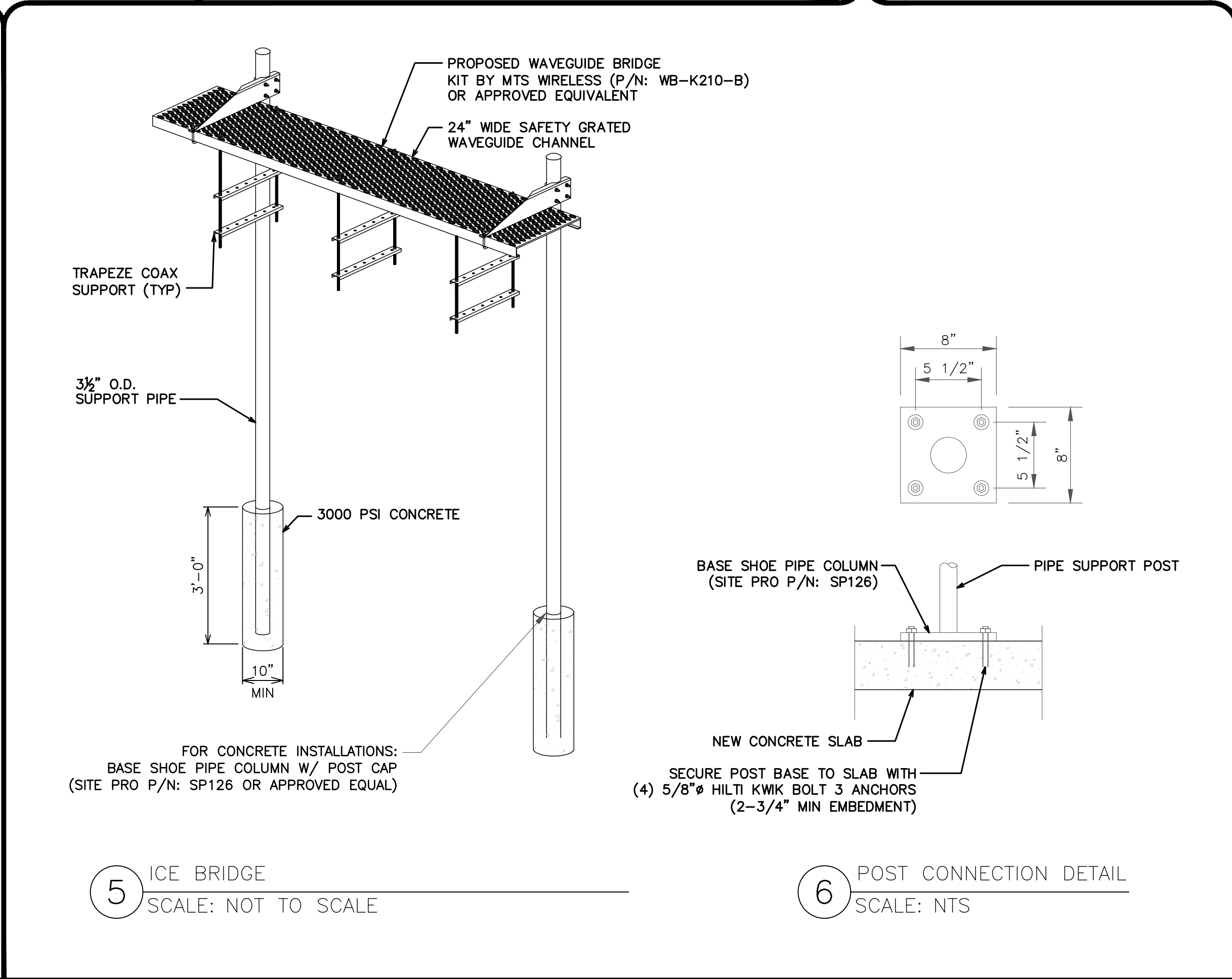
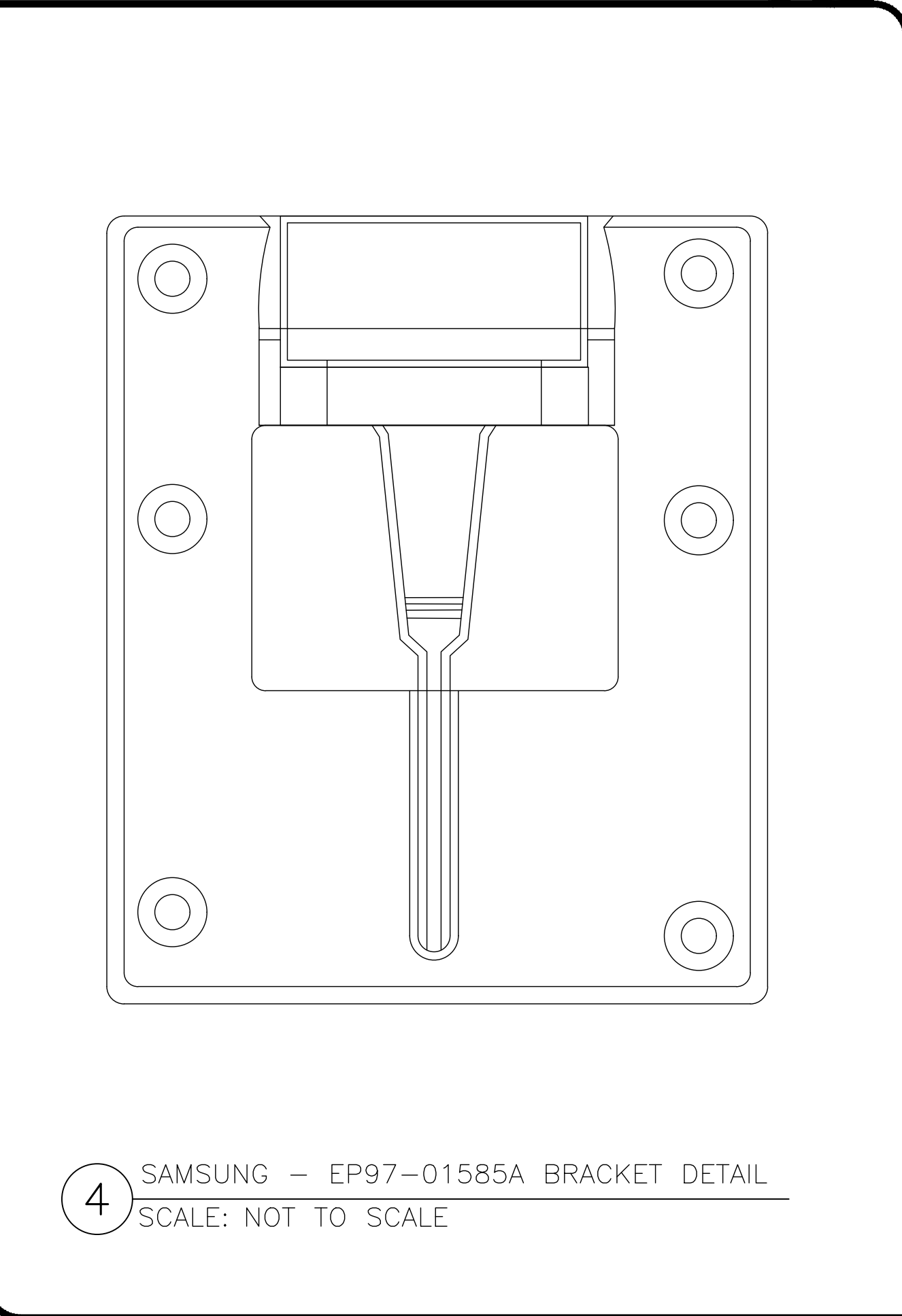
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0	01/12/23	SBS	CONSTRUCTION	RST

01/12/23

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SHEET NUMBER: C-5	REVISION: 0
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FOUNDATION NOTES:

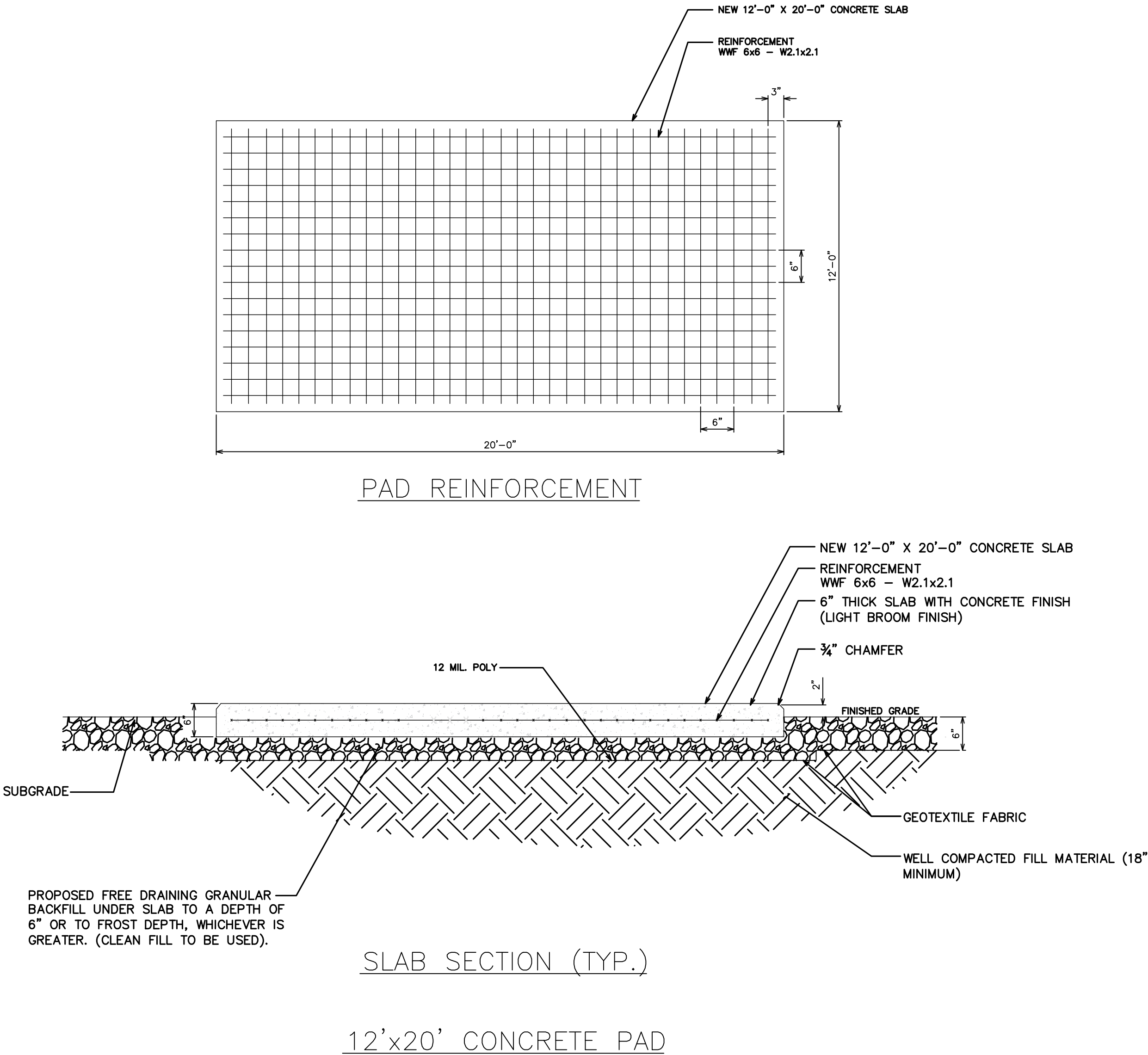
1. FOUNDATION DESIGN BASED ON 2,000 PSF SOIL BEARING CAPACITY.
2. CONCRETE SHALL BE MIN. 4,000 PSI AFTER 28 DAYS.
3. REINFORCING STEEL $F_y = 60,000$ PSI
4. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTOR METHOD.
5. SURFACE OF FINISHED SLAB SHALL BE LEVEL AND FLAT WITHIN A 1/4".
6. CONTRACTOR SHALL VERIFY WITH MANUFACTURER ACTUAL DIMENSIONS OF CABINET PRIOR TO LAYING OUT FOUNDATION.
7. MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED 1 INCH; SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED; OR ONE-THIRD CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING.
8. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE
9. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
10. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.
11. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL BE 3 INCHES MINIMUM.
12. FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS, AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
13. FOUNDATION DESIGN ASSUMED CONTINUOUS CONCRETE PLACEMENT WITHOUT CONSTRUCTION JOINTS.
14. WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS (NOT ROLLED).
15. TEST CYLINDERS SHALL BE MOLDED AND LABORATORY CURED IN ACCORDANCE WITH ASTM C31. THREE CYLINDERS SHALL BE TAKEN FRO EACH DAY'S CONCRETE PLACEMENT. CYLINDERS SHALL BE TESTED IN ACCORDANCE WITH ASTM C39.
16. TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02" OF ELEVATION SPECIFIED BY THE CUSTOMER.

GENERAL STRUCTURAL NOTES:

- SPECIFICATIONS / CODES:
1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
2. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI). "MANUAL OF STANDARD PRACTICE".

FROST DEPTH NOTES:

1. FROST DEPTH FOR MONROE COUNTY IS 60 INCHES.



1 EQUIPMENT FOUNDATION DETAIL
SCALE: NOT TO SCALE

NOTE:
- TEP HAS NOT VERIFIED GENERATOR OR CABINET ANCHORAGE EMBEDMENT DETAILS AND ASSUMES NO RESPONSIBILITY OR LIABILITY AS IT RELATES TO ANCHORAGE. CONTRACTOR TO INSTALL ANCHOR BOLTS PER CABINET AND GENERATOR MANUFACTURER SPECIFICATIONS.
- TEP RECOMMENDS THE INSTALLATION OF GRAVEL EXTEND TO COUNTY DEFINED FROST DEPTH PER IBC 1809.5, ASCE 32-01 AND ANSI-TIA-222-H SECTION 9.7. TEP ASSUMES NO RESPONSIBILITY FOR FOUNDATION FAILURE AS IT RESULTS TO FROST HEAVE DURING FREEZE THAW IF GRAVEL EXTENSION TO FROST LINE DEPTH IS NOT OBTAINED.

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CC

CROWN
CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

326 TRYON RD
RALEIGH, NC 27603
(919) 661-6351

502 CENTENNIAL AVE
CRANFORD, NJ 07016
(919) 661-6351

TEP JOB #: 217432.784455

VERIZON SITE ID:
617244220

VERIZON SITE NAME:
WINDSOR NE CT

CROWN BU #: 876326
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:				
REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/12/23	SBS	CONSTRUCTION	RST

STATE OF CONNECTICUT
NOT C. BRANN
15555
PROFESSIONAL ENGINEER
LICENSED

01/12/23

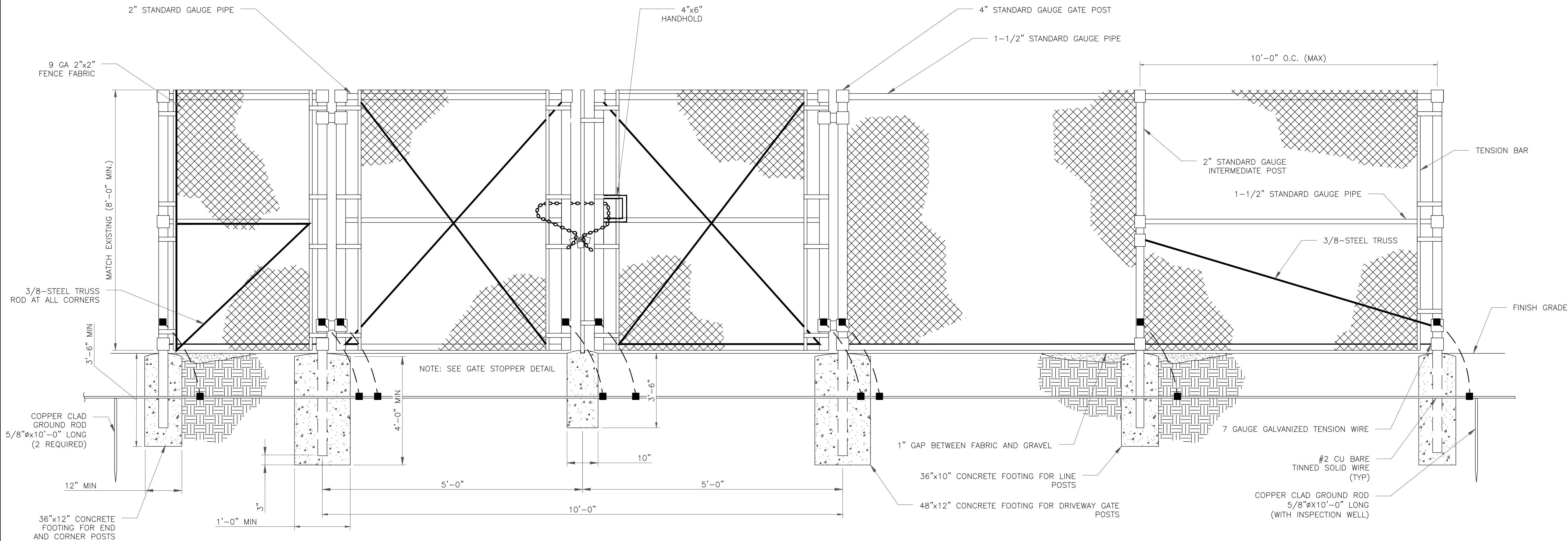
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C-6

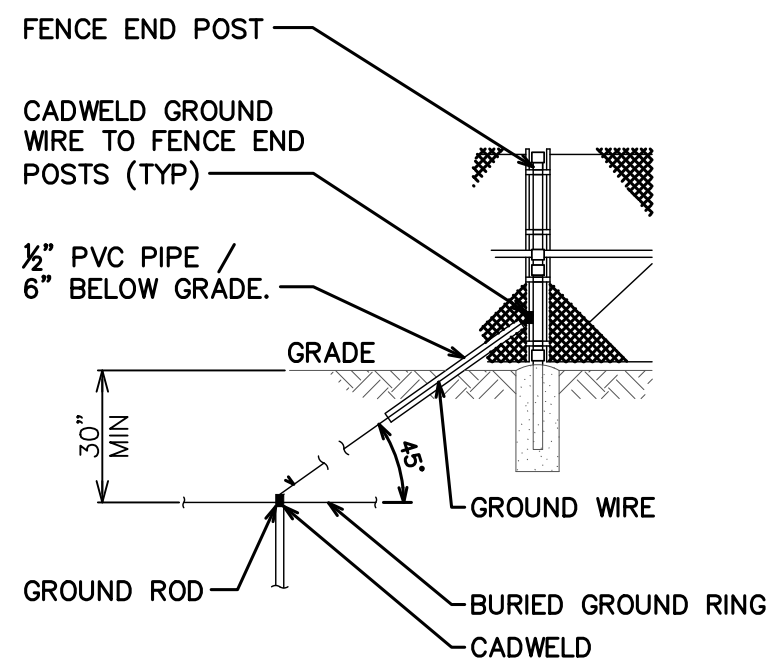
REVISION:
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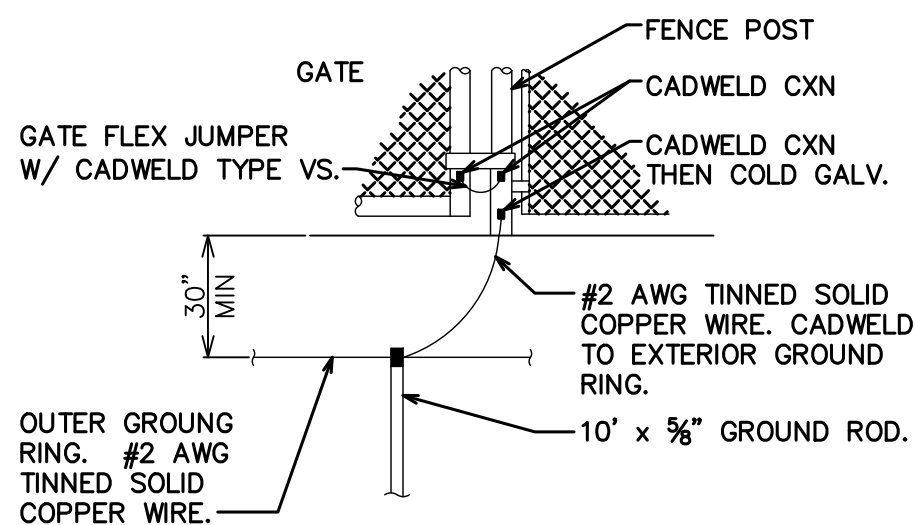
CHAIN LINK FENCE FABRIC TO BE GALVANIZED, 9 GAGE WIRE. FENCE FABRIC TO HAVE 2-INCH OPENINGS. SELVAGE TO BE KNUCKLED BOTH ENDS (UNLESS NOTED OTHERWISE). ZINC COATING TO BE CLASS 2 WITH MINIMUM 2 OUNCES OF ZINC PER SQUARE FOOT OF COATING. SEE ASTM A392. FENCE TO BE INSTALLED PER ASTM F567 AND THE STANDARD GUIDE FROM THE CHAIN LINK FENCE MANUFACTURER'S INSTITUTE. WHERE OCCURS, CHAIN LINK SWING GATES TO BE INSTALLED PER ASTM, F900 AND CHAIN LINK HORIZONTAL SLIDING GATES TO BE INSTALLED PER ASTM F1184.



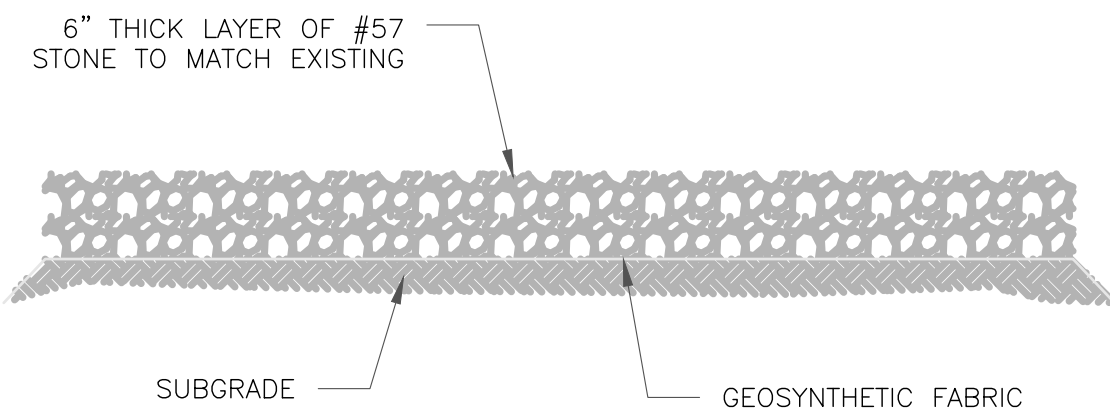
1 CHAIN LINK GATE
SCALE: NOT TO SCALE



2 TYPICAL FENCE GROUNDING DETAIL
SCALE: NOT TO SCALE



3 TYPICAL GATE POST GROUNDING DETAIL
SCALE: NOT TO SCALE



4 TYPICAL GRAVEL COVER
SCALE: NOT TO SCALE

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20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

**CROWN
CASTLE**

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

326 TRYON RD 502 CENTENNIAL AVE
RALEIGH, NC 27603 CRANFORD, NJ 07016
(919) 661-6351

TEP JOB #: 217432.784455

VERIZON SITE ID:
617244220

VERIZON SITE NAME:
WINDSOR NE CT

CROWN BU #: 876326
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:

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01/12/23

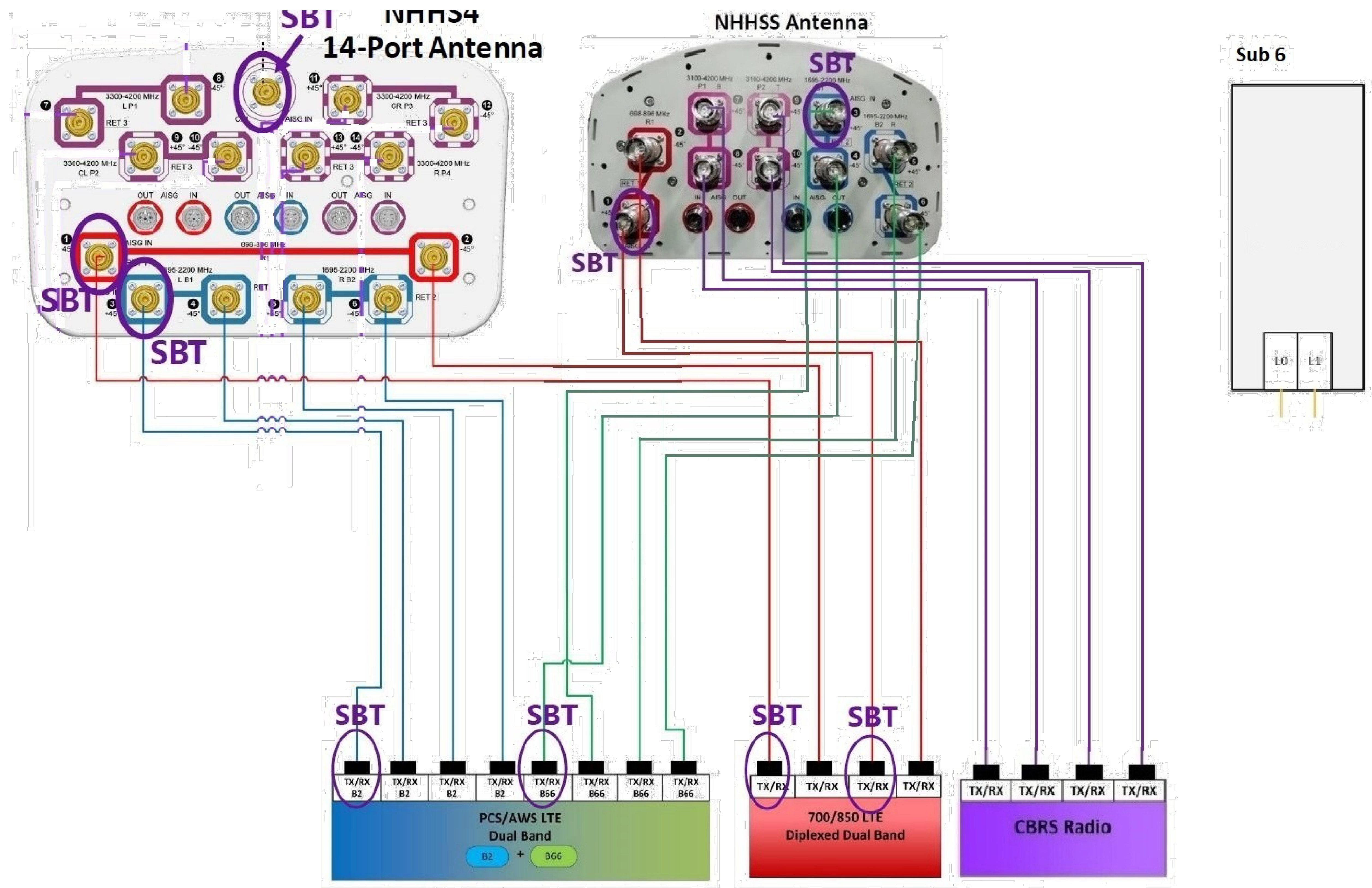
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C-7

REVISION:

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Sub 6

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20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

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SHEET NUMBER: C-8
REVISION: 0

1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

GENERAL NOTES:

- ALL NEW CONDUCTORS TO BE INSTALLED SHALL BE COPPER. ALL CONDUCTORS SHALL BE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL GROUNDING AND BONDING PER THE NEC.
- ONE-LINE DIAGRAM SCHEMATIC SHOW BELOW COMPLETED USING INFORMATION PROVIDED BY CROWN CASTLE. CONTRACTOR TO VERIFY ELECTRICAL CONFIGURATION WITH VERIZON PRIOR TO CONSTRUCTION.

UL NOTE:

ELECTRICAL MATERIALS, DEVICES, CONDUCTORS, APPLIANCES AND EQUIPMENT SHALL BE LABELED/LISTED BY UL OR ACCEPTED BY JURISDICTION (I.E.: LOCAL COUNTY OR STATE) APPROVED THIRD PARTY TESTING AGENCY

CONDUIT NOTES:

- ALL CONDUIT TO BE SCH40 PVC OR LTFC, AS NOTED. INSTALL WEATHERPROOF FITTINGS.
- ABOVE GRADE CONDUIT RUNS TO BE MARKED WITH HAZARD TAPE TO PREVENT TRIPPING HAZARD.

ONE-LINE DIAGRAM NOTES:

1. ELECTRICAL SERVICE SHALL BE 200A, 120/240V, 1Ø, 3W.

2. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT, REFER TO VENDOR PRINTS PROVIDED BY EQUIPMENT MANUFACTURER.

UTILITY NOTES:

1. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH POWER COMPANY AND ENSURE ALL ELECTRICAL EQUIPMENT IS SUITABLE FOR AVAILABLE FAULT CURRENT.

2. CONTRACTOR SHALL COORDINATE UTILITY SERVICES WITH LOCAL UTILITY COMPANIES. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY STANDARDS.

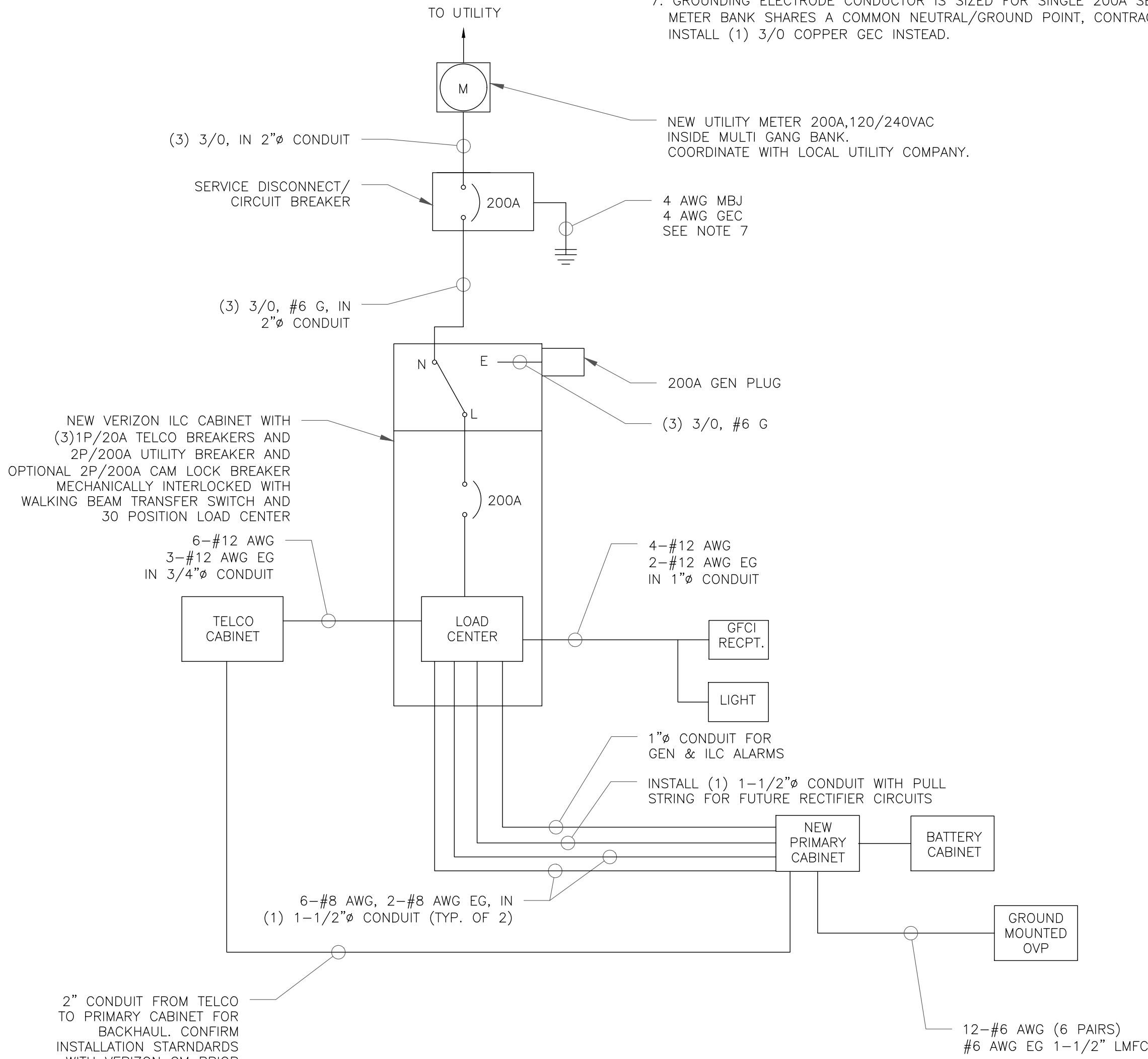
3. ONE-LINE DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY AND IS NOT INDICATIVE OF THE ACTUAL EQUIPMENT LAYOUT.

4. ALL EQUIPMENT WILL HAVE A MINIMUM AIC OF 10 KA. CONTRACTOR TO DETERMINE AVAILABLE FAULT CURRENT BEFORE ENERGIZING EQUIPMENT. THE AMOUNT OF AVAILABLE FAULT CURRENT SHALL BE MARKED ON THE SERVICE EQUIPMENT PER NEC 110.24.

5. CONTRACTOR SHALL NOTIFY UTILITY COMPANY OF CHANGES IN ELECTRICAL LOAD.

6. CONTRACTOR TO VERIFY EXISTING CONDUIT(S) SIZE(S) PRIOR TO CONSTRUCTION AND MAY REUSE EXISTING CONDUIT(S) IF THEY MEET THE MINIMUM REQUIREMENTS PER NEC CODE.

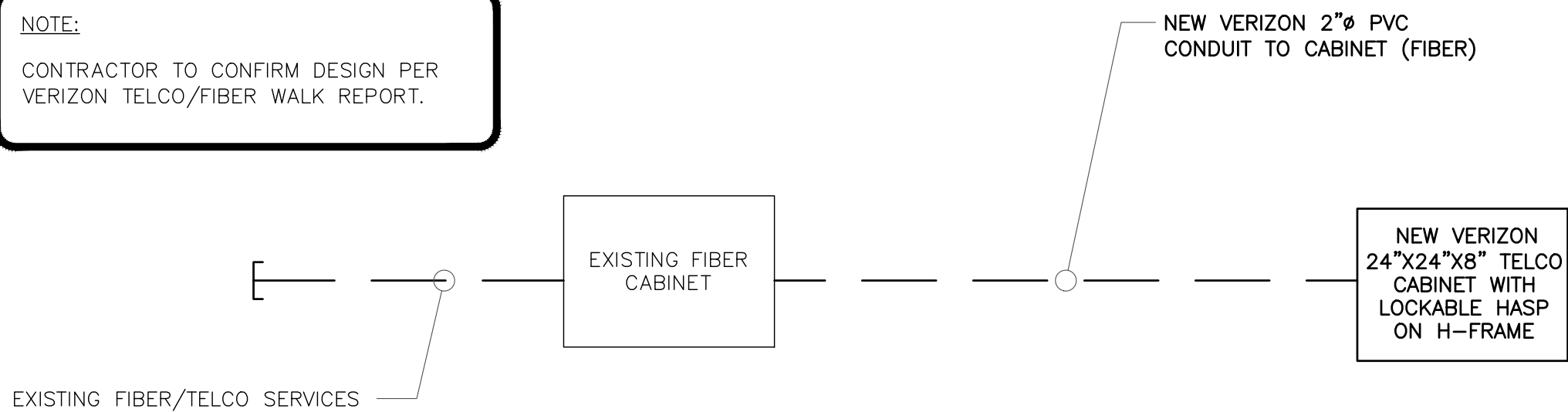
7. GROUNDING ELECTRODE CONDUCTOR IS SIZED FOR SINGLE 200A SERVICE ONLY. IF METER BANK SHARES A COMMON NEUTRAL/GROUND POINT, CONTRACTOR WILL INSTALL (1) 3/0 COPPER GEC INSTEAD.



1 EQUIPMENT ONE LINE DIAGRAM
SCALE: NOT TO SCALE

NOTE:

CONTRACTOR TO CONFIRM DESIGN PER VERIZON TELCO/FIBER WALK REPORT.

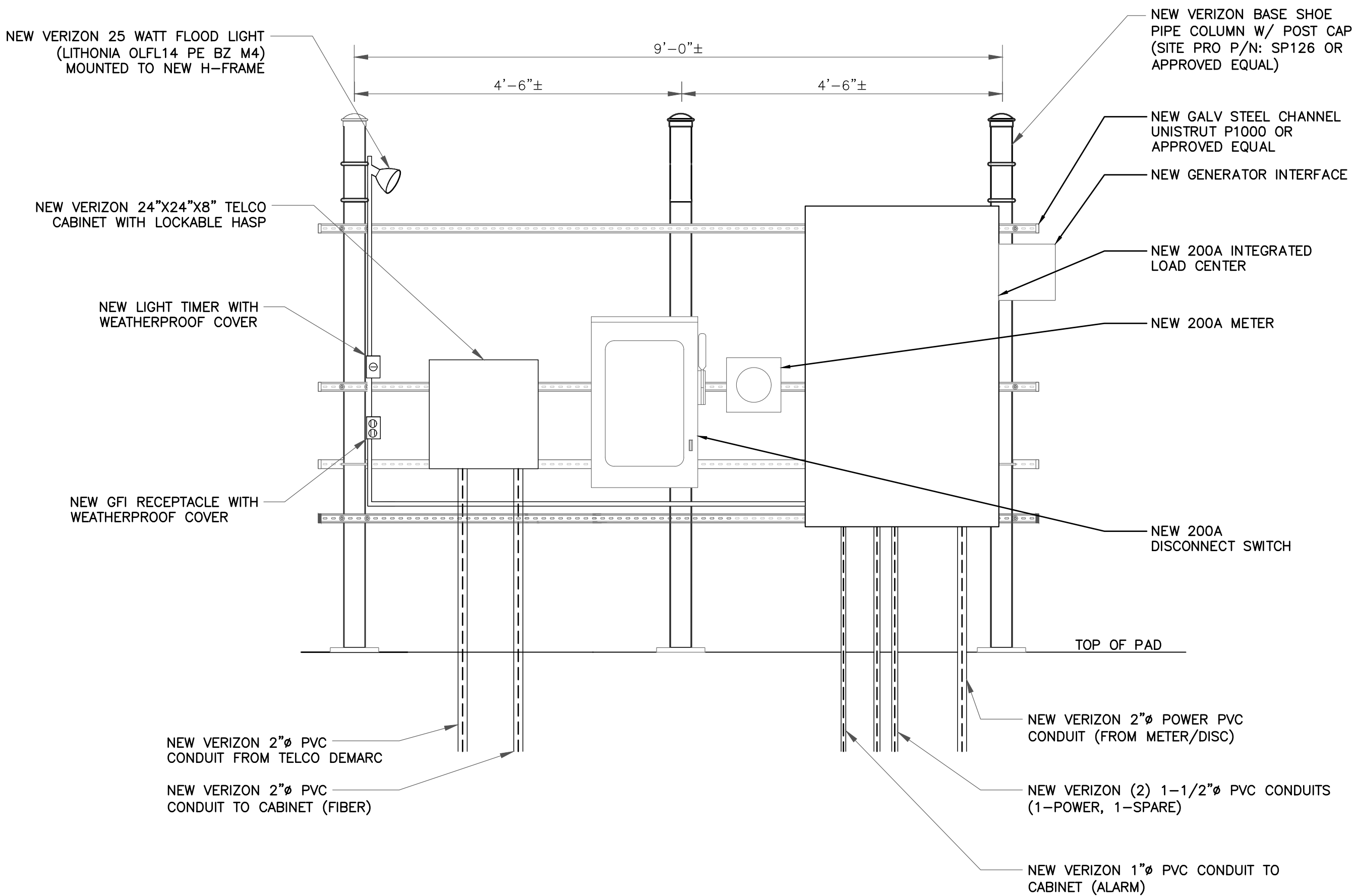


2 TELCO/FIBER LINE DIAGRAM
SCALE: NOT TO SCALE

200A, 120/240V, 1Ø, 3W POWER PANEL SCHEDULE

LOAD SERVED	VOLT AMPERES (WATTS)		TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPERES (WATTS)		LOAD SERVED
	L1	L2						L1	L2	
GFCI	360		20	1	A	2	30	2880	2880	RECTIFIERS #3
LIGHTS		500	20	3	B	4				
RECTIFIERS #1	2880		30	5	A	6	30	2880		RECTIFIERS #4
		2880		7	B	8			2880	
RECTIFIERS #2	2880		30	9	A	10	20	1200		GEN HEATER
		2880		11	B	12			1500	
				13	A	14				
				15	B	16				
				17	A	18				
				19	B	20				
				21	A	22				
				23	B	24				
				25	A	26				
				27	B	28				
				29	A	30				
VOLT AMPS	6120	6260						6960	7260	VOLT AMPS
L1 VOLT AMPERES				13080	13520	L2 VOLT AMPERES				
L1 AMPS				109	112.7	L2 AMPS				
					112.7	MAX AMPS				
					140.9	MAX AMPS x125%				
					155	X 110% FOR MAIN				

3 PANEL SCHEDULE
SCALE: NOT TO SCALE



4 H-FRAME DETAIL
SCALE: NOT TO SCALE

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20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN
CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

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RALEIGH, NC 27603 CRANFORD, NJ 07016
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HAYDEN STATION

440 HAYDEN STATION ROAD
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EXISTING 96'-0"
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STATE OF CONNECTICUT
NOTARY PUBLIC
JAMES C. BRANNETT
JAN 15 2023
PROFESSIONAL ENGINEER
03/01/23

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SHEET NUMBER:

E-1

REVISION:

2

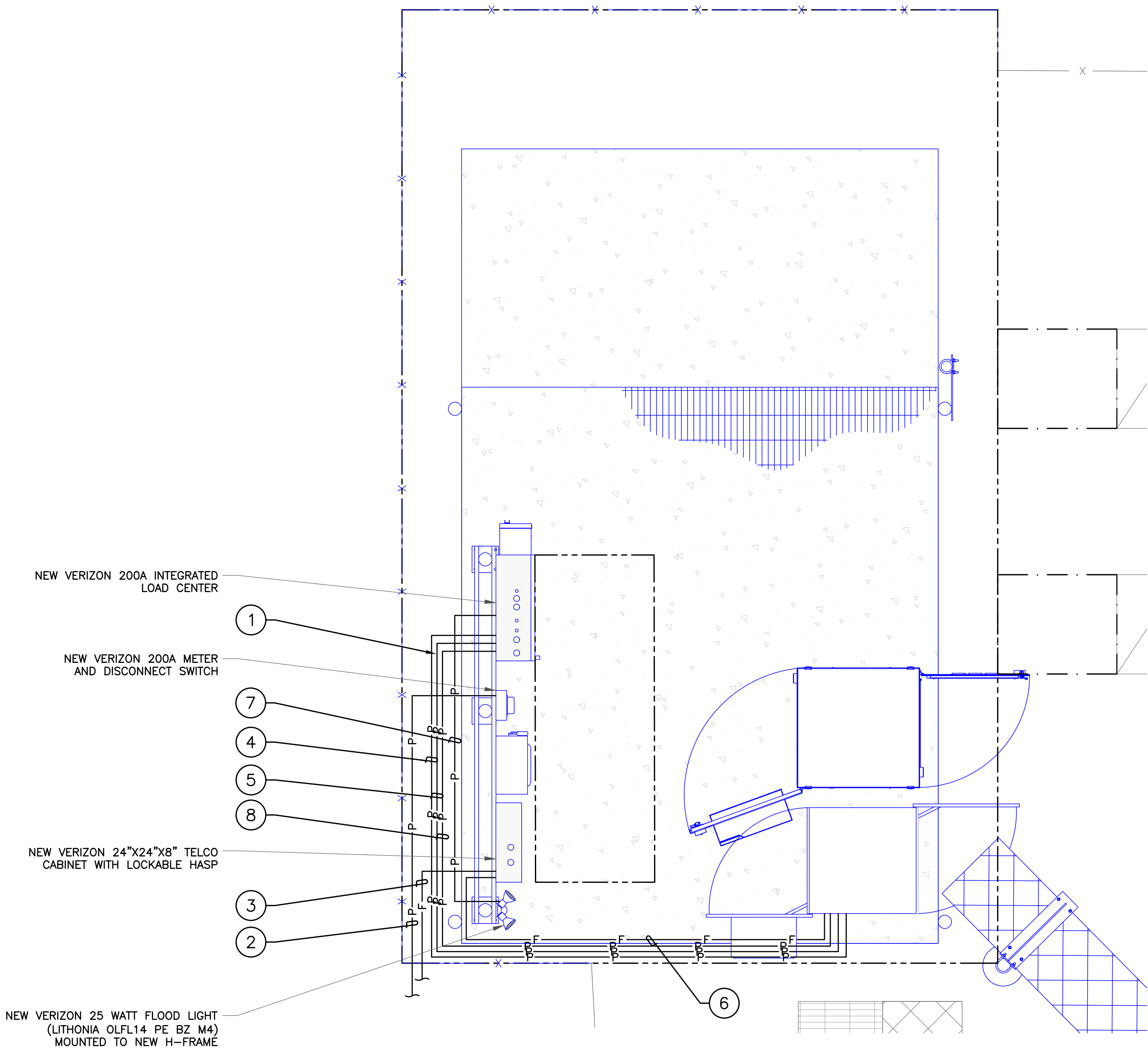
CONDUIT NOTE:
WHERE CONDUITS TRAVERSE IN FRONT OF ACCESS GATES, CROWN REQUIRES THAT CONDUITS BE ENCASED IN CONCRETE (OR AT A DEPTH NOT LESS THAN 48 INCHES FOR THE WIDTH OF THE GATE). THIS STANDARD IS FOR ALL GATES WHICH A VEHICLE OR EQUIPMENT MAY PASS THROUGH.

LABEL LIST:

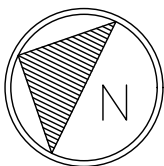
- 1
- VERIZON H-FRAME. SEE SHEET E1 FOR DETAILS.
- 2
- (1)-2" PVC CONDUIT FROM METER TO ILC FOR POWER (CONDUITS MINIMUM 18" BELOW GRADE)
- 3
- (2)-2" PVC TELCO CONDUIT, EACH WITH PULLSTRING. ALL CONDUITS SHALL UTILIZE LONG SWEEPS AT BENDS. (CONDUITS MINIMUM 18" BELOW GRADE)
- 4
- (1)-1-1/2" CONDUIT FOR POWER FROM ILC TO PRIMARY CABINET.
- 5
- (1)-1" CONDUIT FOR ALARM FROM ILC TO PRIMARY CABINET.
- 6
- (1)-2" TELCO CONDUIT FROM TELCO BOX TO PRIMARY CABINET.
- 7
- 1" CONDUIT TO AREA LIGHTS FROM J-BOX ON VZW H-FRAME
- 8
- (1) 1-1/2"Ø CONDUIT WITH PULL STRING FOR FUTURE RECTIFIER CIRCUITS

NOTES:

1. AREA LIGHT LITHONIA HFR 250M SLWA DNA LP1 CONTROL VIA CONTRACTOR PROVIDED MANUAL TIMER SWITCH (WEATHERPROOF).
2. POWER AND TELCO CONDUITS RECEIVING CONDUCTORS BY OTHERS TO HAVE PULL ROPES.
3. ALL TELCO CONDUITS ARE TO BE STUBBED IN D-MARC LOCATION.
4. ALL POWER CONDUITS ARE TO BE TERMINATED AT THE METER CENTER.
5. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO TRENCHING. ANY DAMAGE CAUSED TO THE EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. ALL CONDUITS SHALL BE INSTALLED PRIOR TO FINISH GRADING, GEOFABRIC, AND STONE INSTALLATION.
7. CONTRACTOR SHALL INSTALL SWEEPS AT ALL CONDUIT DIRECTION CHANGES UNLESS NOTED OTHERWISE.
8. WHERE APPLICABLE RUN CONDUITS FROM ILC TO GENERATOR UNDERGROUND AND STUB UP CONDUITS MINIMUM 6" HIGH INSIDE GENERATOR BASE AND TERMINATE WITH MALE ADAPTER AND THREADED BUSHING.
9. WHEN ALL RRUs ARE GROUND MOUNTED, OMIT OVPs AND RUN FIBER/POWER FROM PRIMARY CABINET DIRECTLY TO RRUs.
10. FIBER BRIDGE CONDUIT TO BE LEFT AS 5' LONG CAPPED STUB CONDUIT WHEN NO EXISTING HANDHOLE IS PRESENT.
11. CONTRACTOR TO VERIFY WITH CM WHICH EXISTING HANDHOLE (IF ANY) BELONGS TO FIBER PROVIDER.
12. CONTRACTOR TO INSTALL (2) PULL ROPES IN EACH FIBER CONDUIT.
13. CONTRACTOR TO UTILIZE EXPANSION COUPLINGS WITH ABOVE-GRADE TRANSITIONS.



1 EQUIPMENT LAYOUT
SCALE: 1/2"=1'-0" (FULL SIZE)
1/4"=1'-0" (11x17)



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20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN
CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS
326 TRYON RD 502 CENTENNIAL AVE
RALEIGH, NC 27603 CRANFORD, NJ 07016
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03/01/23

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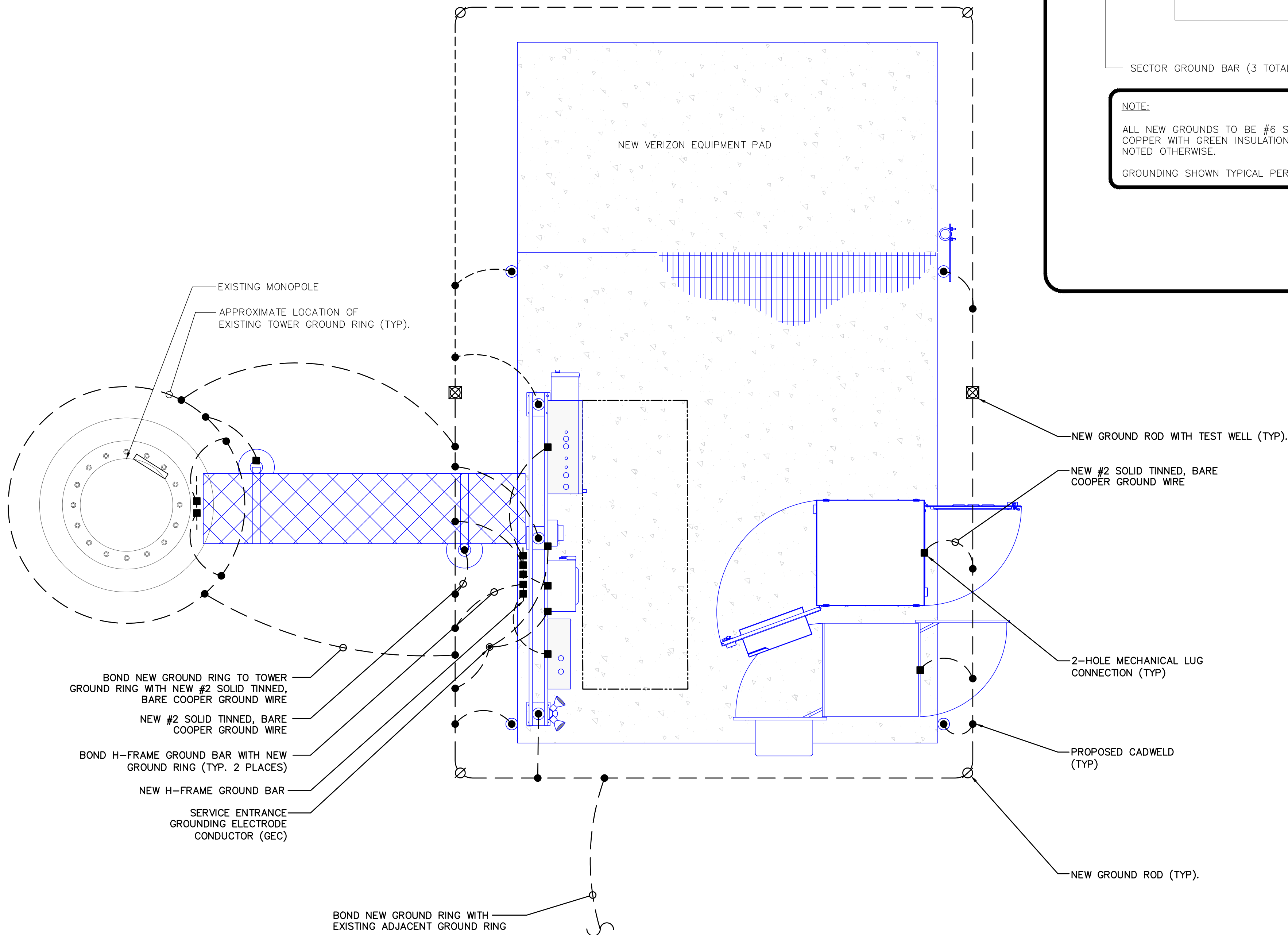
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E-2

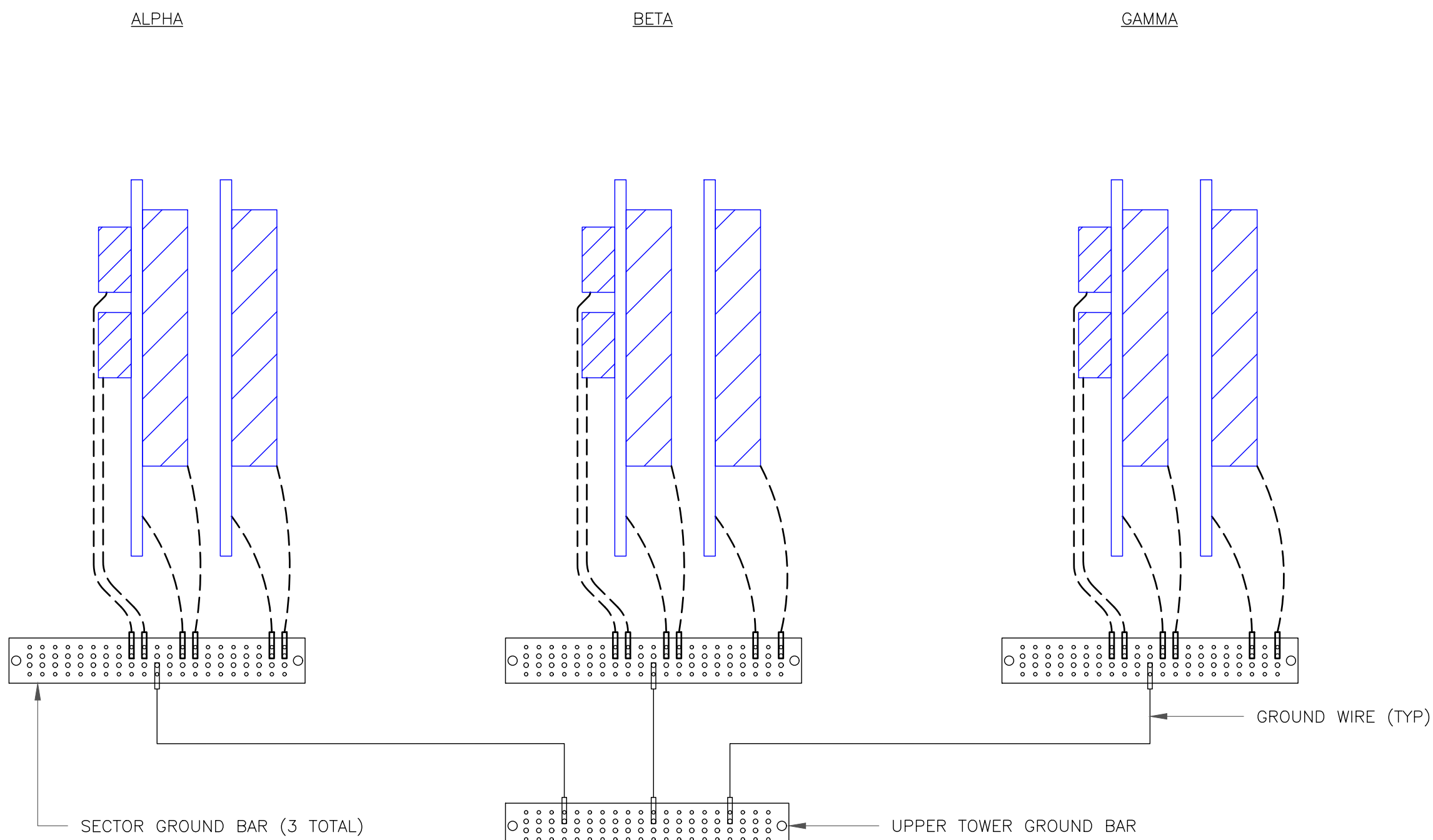
REVISION:

2

NOTE:
CONTRACTOR TO REFERENCE SHEET
C-1.2 & 1.3 FOR EXACT LOCATION
AND ORIENTATION OF EQUIPMENT PAD



1 TYPICAL CABINET GROUNDING DIAGRAM
SCALE: NOT TO SCALE



NOTE:
ALL NEW GROUNDS TO BE #6 STRANDED
COPPER WITH GREEN INSULATION UNLESS
NOTED OTHERWISE.
GROUNDING SHOWN TYPICAL PER SECTOR.

2 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

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WALLINGFORD, CT 06492

CROWN CASTLE
3 CORPORATE PARK DRIVE, SUITE 101
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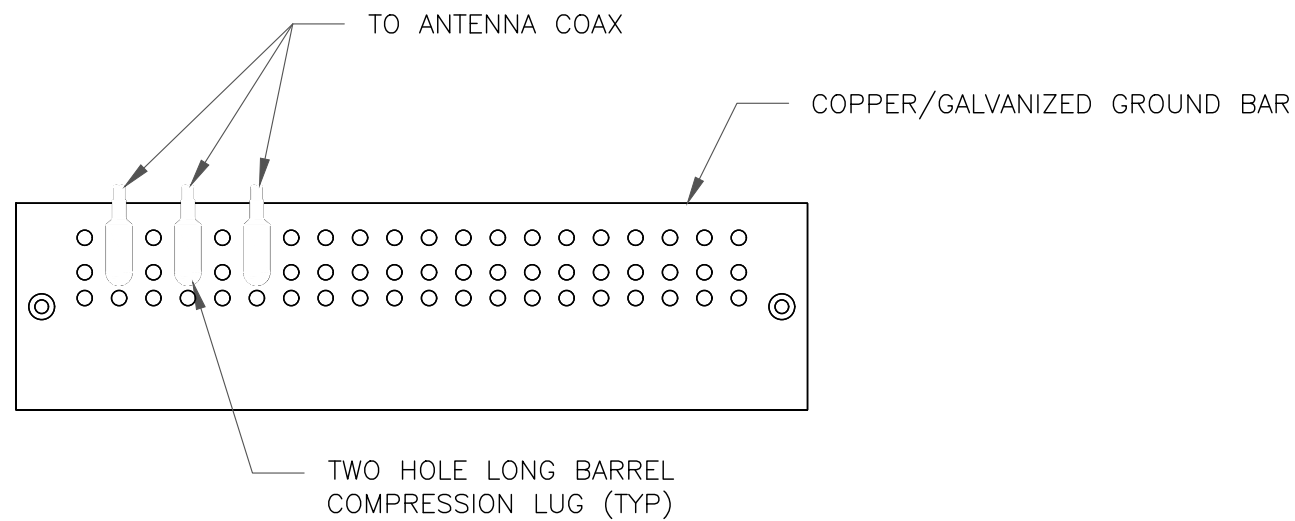
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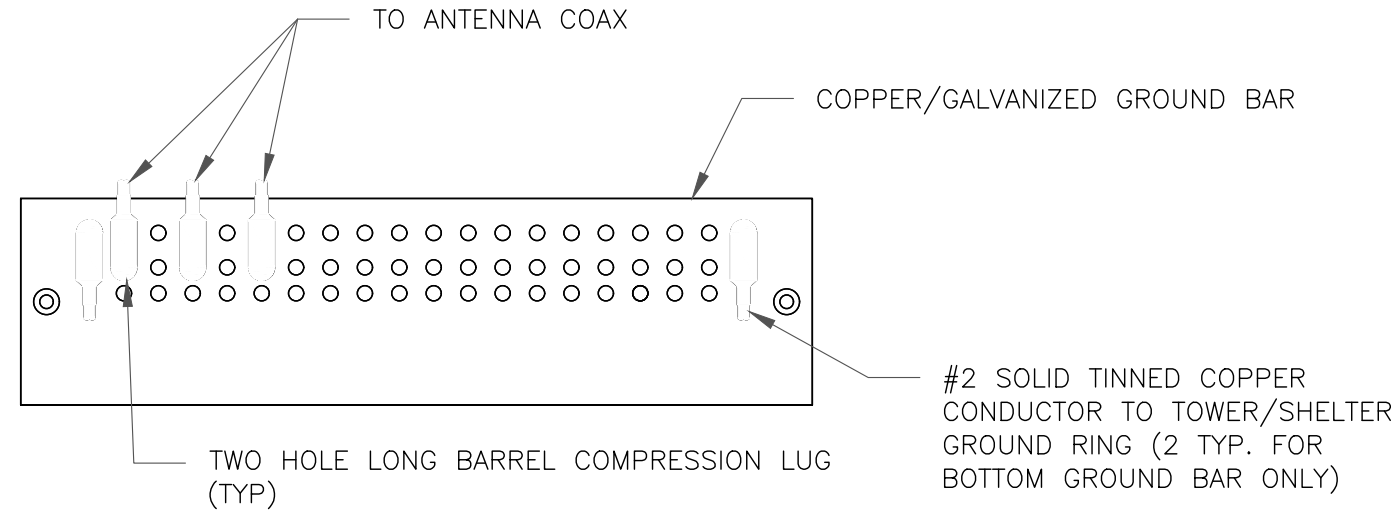
SHEET NUMBER: **G-1** REVISION: **2**



NOTES:

- DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

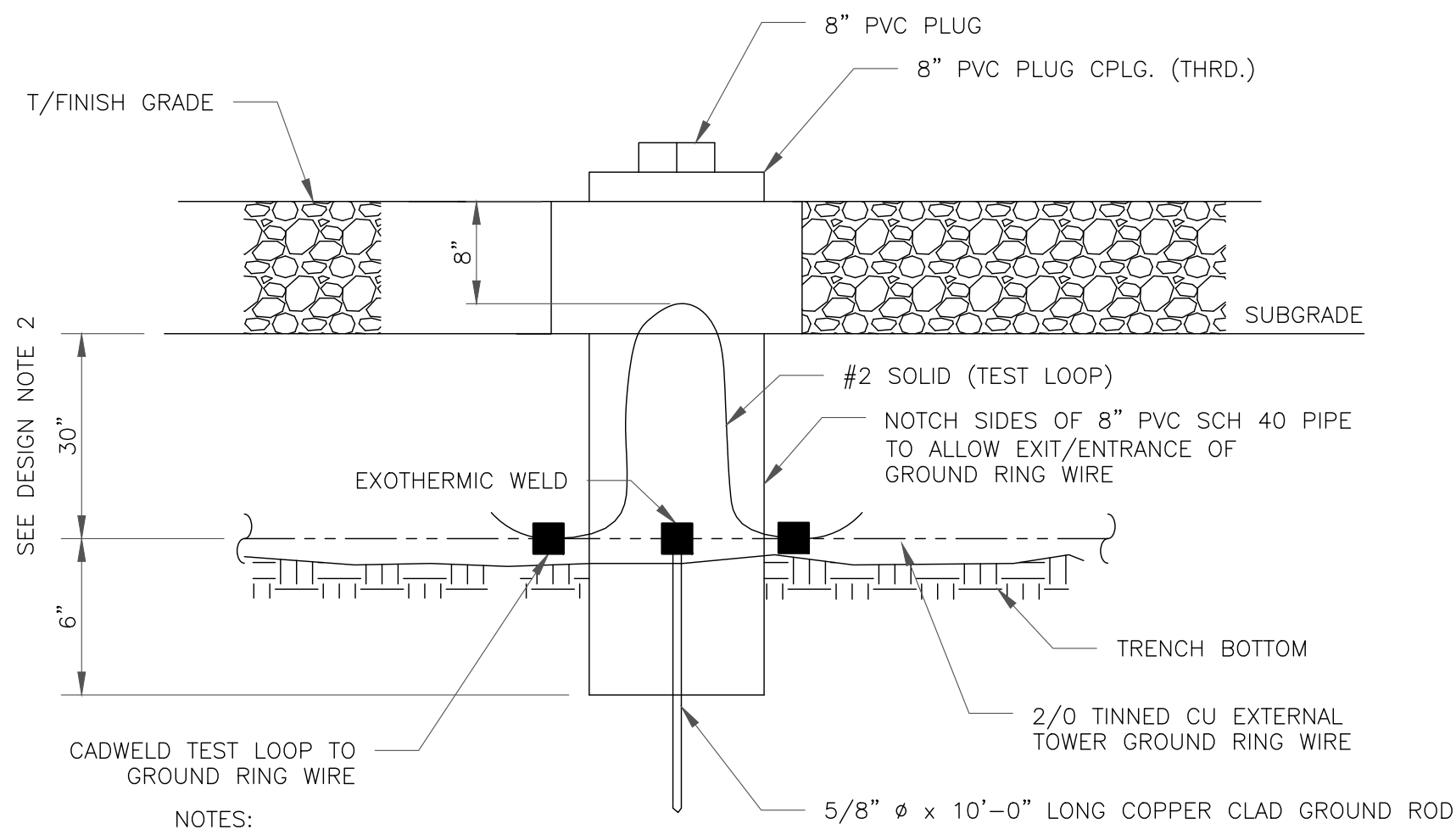
1 ANTENNA SECTOR GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

- EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

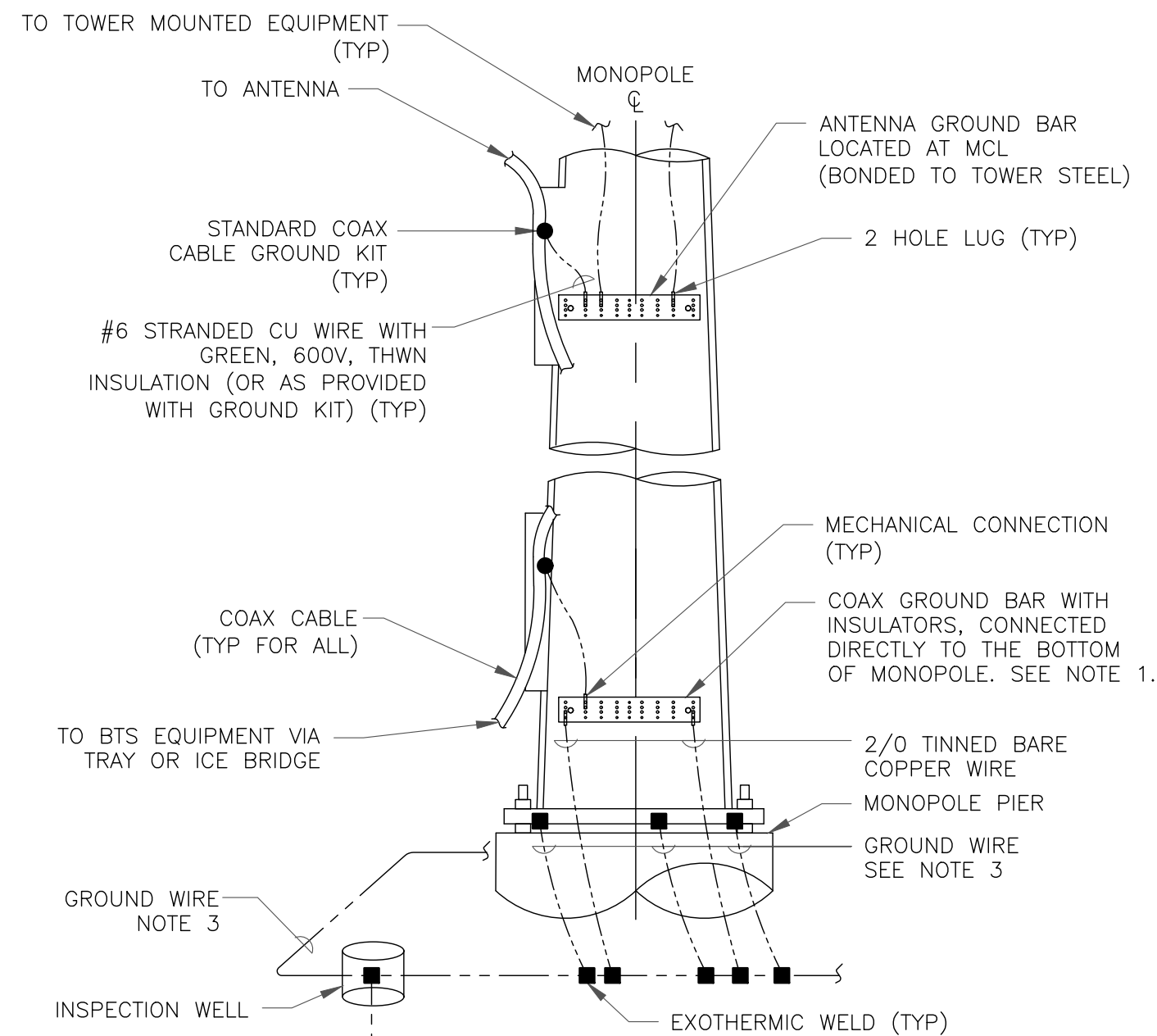
2 TOWER/SHELTER GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

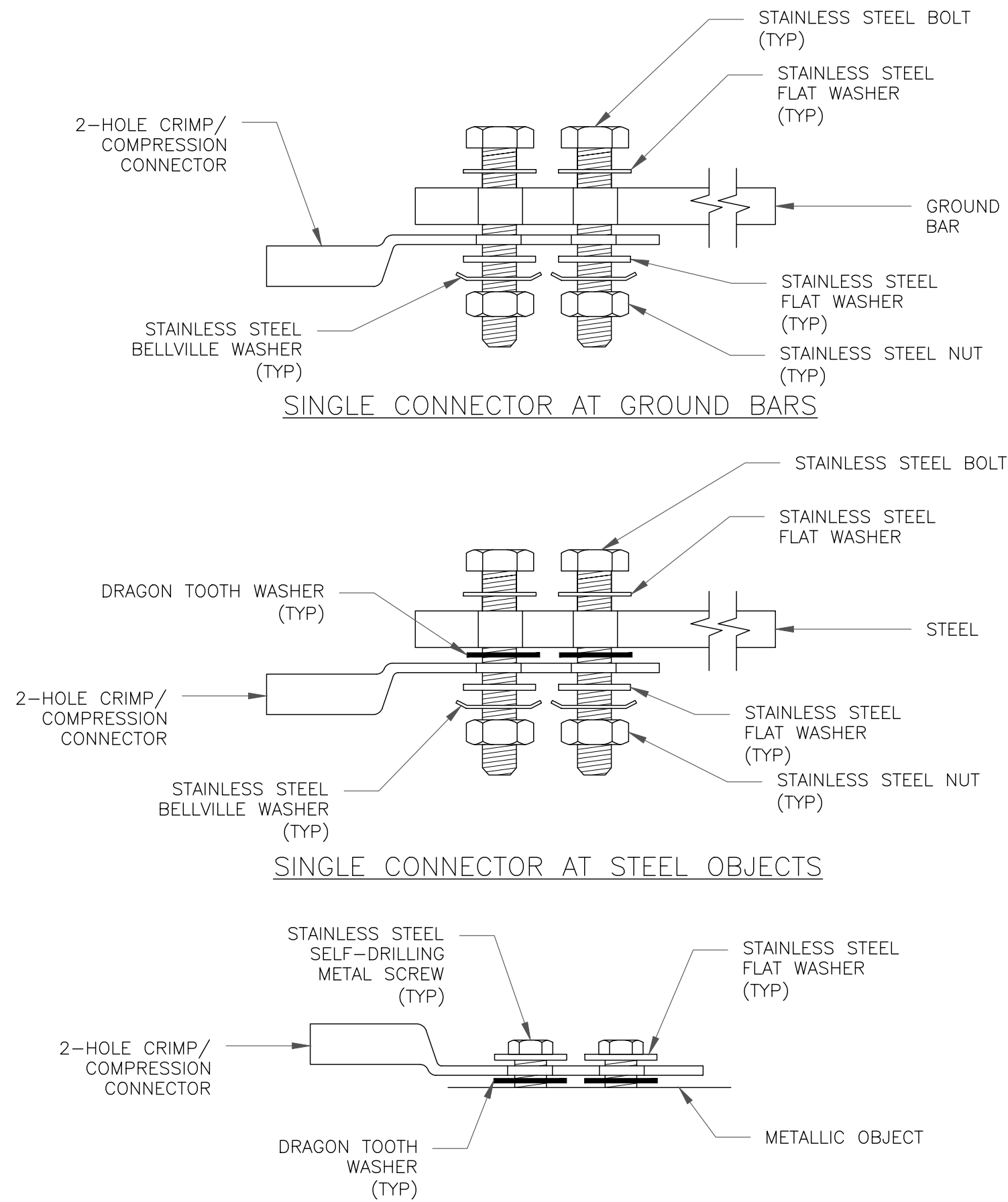
3 INSPECTION WELL DETAIL
SCALE: NOT TO SCALE



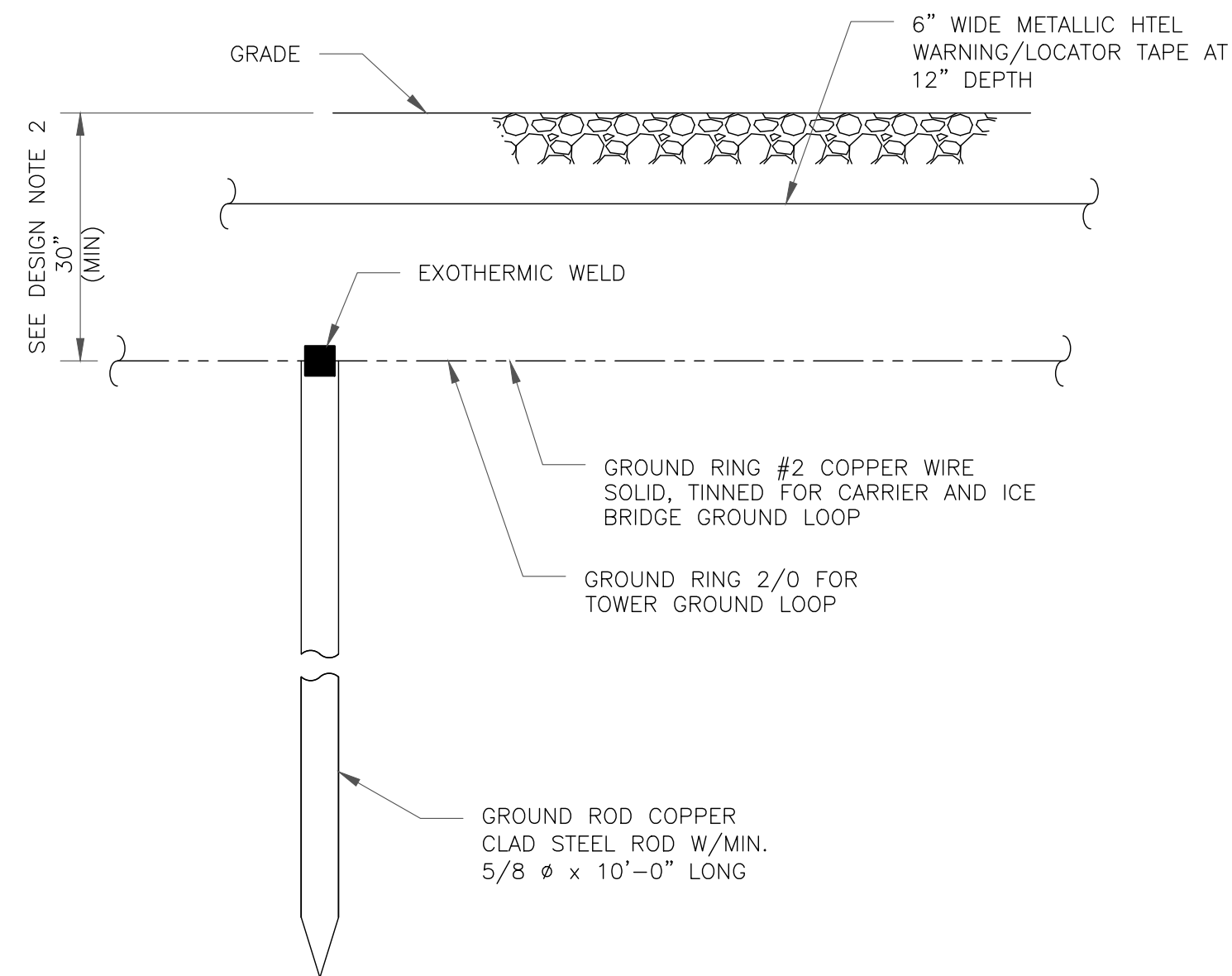
NOTES:

- NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.

4 TYPICAL ANTENNA CABLE GROUNDING
SCALE: NOT TO SCALE



5 HARDWARE DETAIL FOR EXTERIOR CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL
- GROUND WIRE SHALL BE MIN. 30" BELOW GRADE OR 6" BELOW FROST LINE. (WHICH EVER IS GREATER) AS PER N.E.C. ARTICLE 250-50(D)

6 GROUND ROD DETAIL
SCALE: NOT TO SCALE

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN
CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

326 TRYON RD 502 CENTENNIAL AVE
RALEIGH, NC 27603 CRANFORD, NJ 07016
(919) 661-6351

TEP JOB #: 217432.784455

VERIZON SITE ID:
617244220

VERIZON SITE NAME:
WINDSOR NE CT

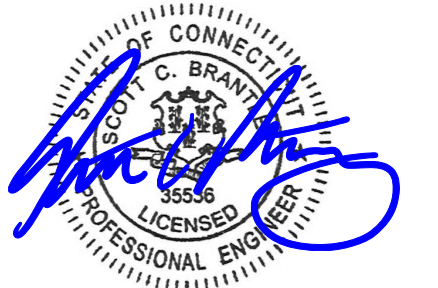
CROWN BU #: 876326
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/12/23	SBS	CONSTRUCTION	RST



01/12/23

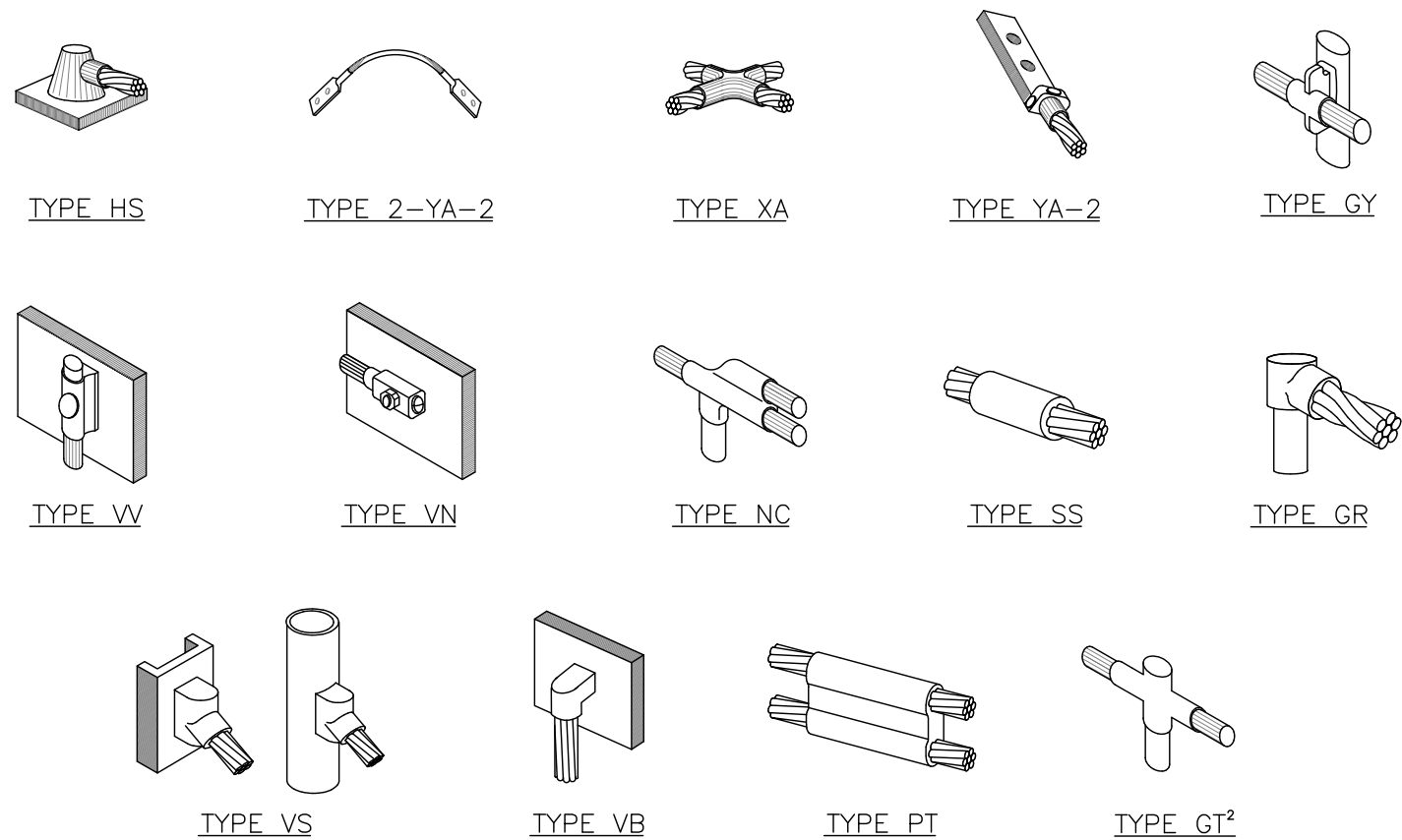
IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE DIRECTION
OF A LICENSED PROFESSIONAL ENGINEER,
TO ALTER THIS DOCUMENT.

SHEET NUMBER:

G-2

REVISION:

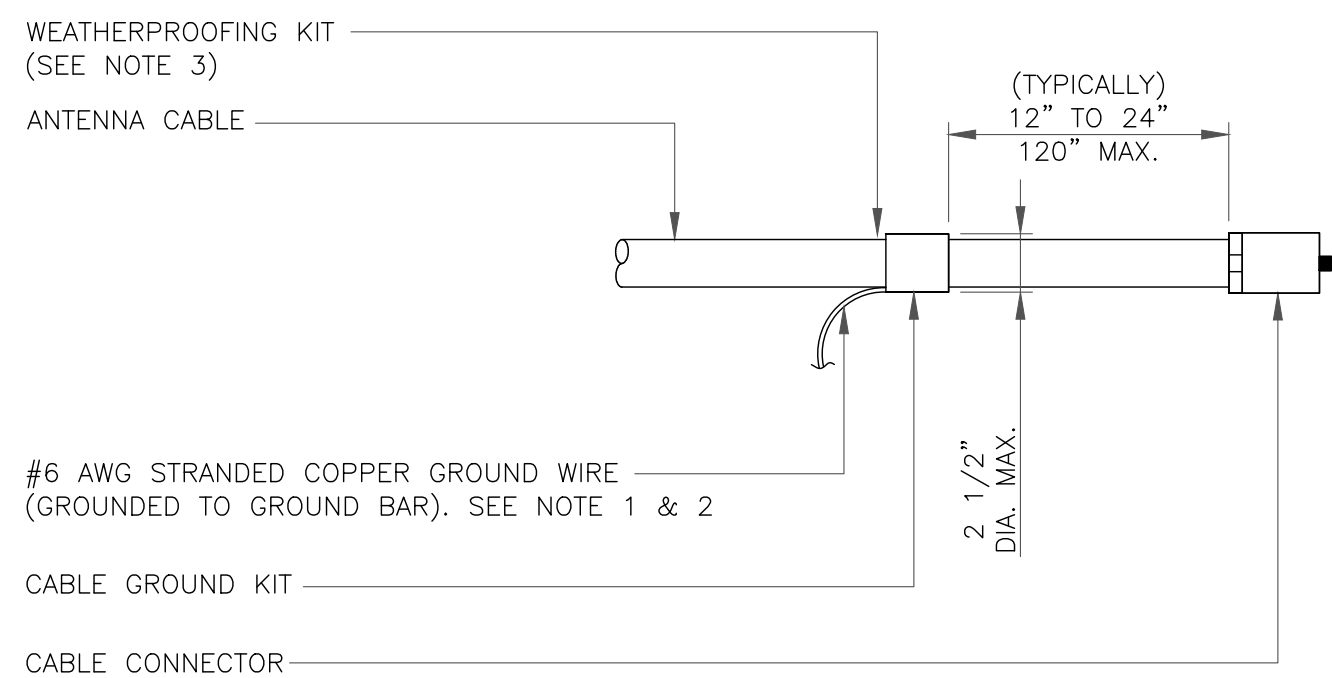
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NOTE:

1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.
2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

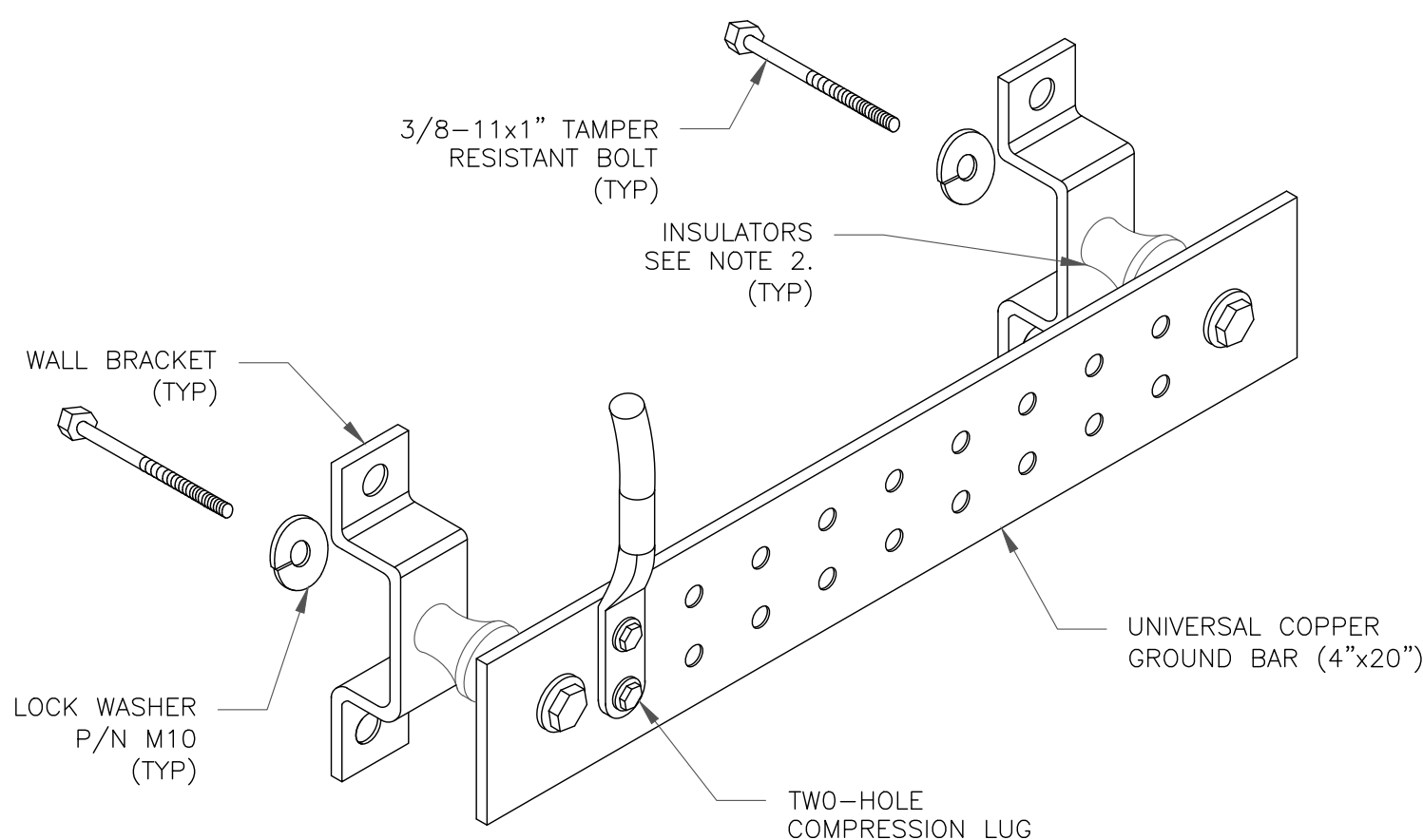
1 CADWELD GROUNDING CONNECTIONS
SCALE: NOT TO SCALE



NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

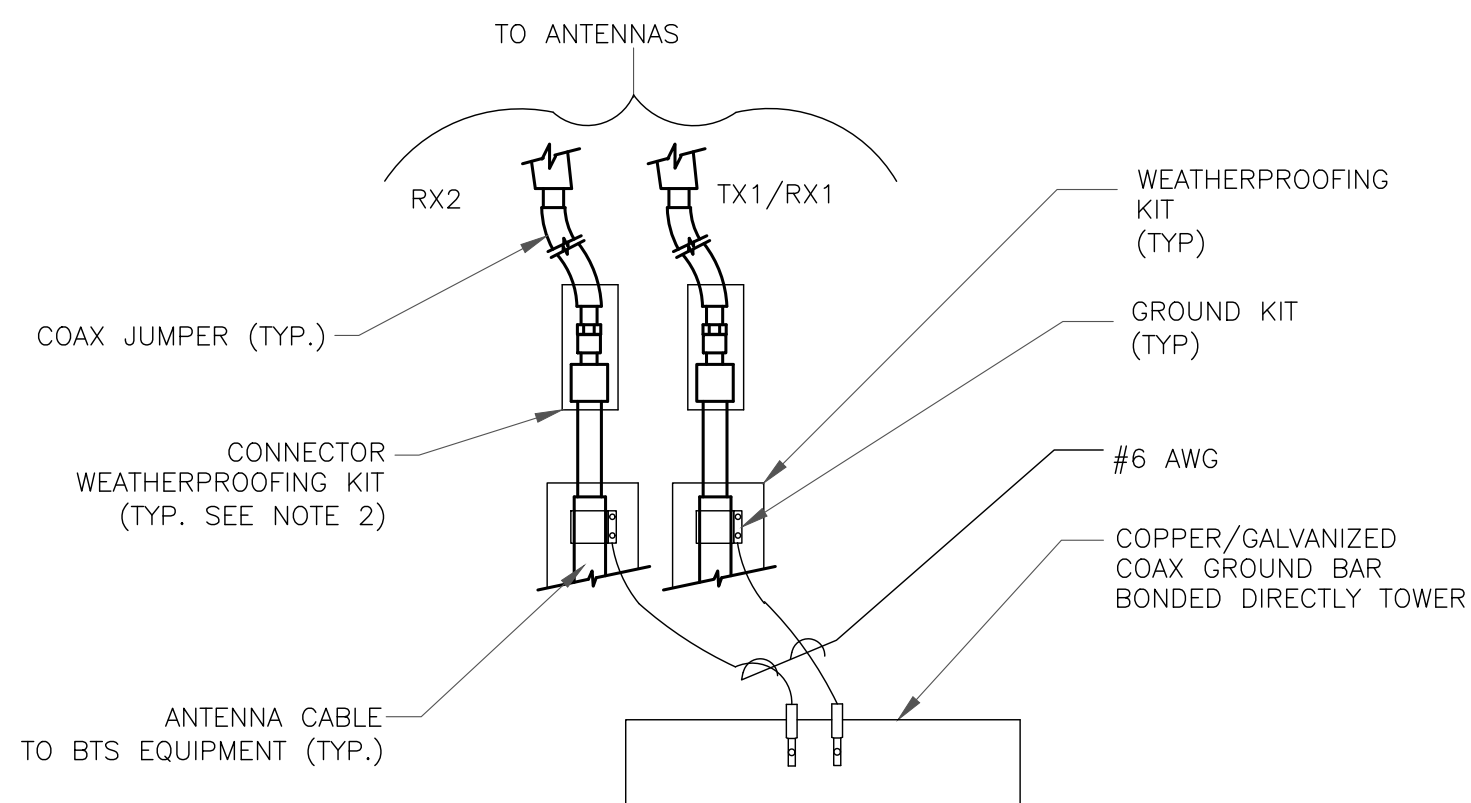
3 CABLE GROUND KIT CONNECTION
SCALE: NOT TO SCALE



NOTES:

1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL. USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.

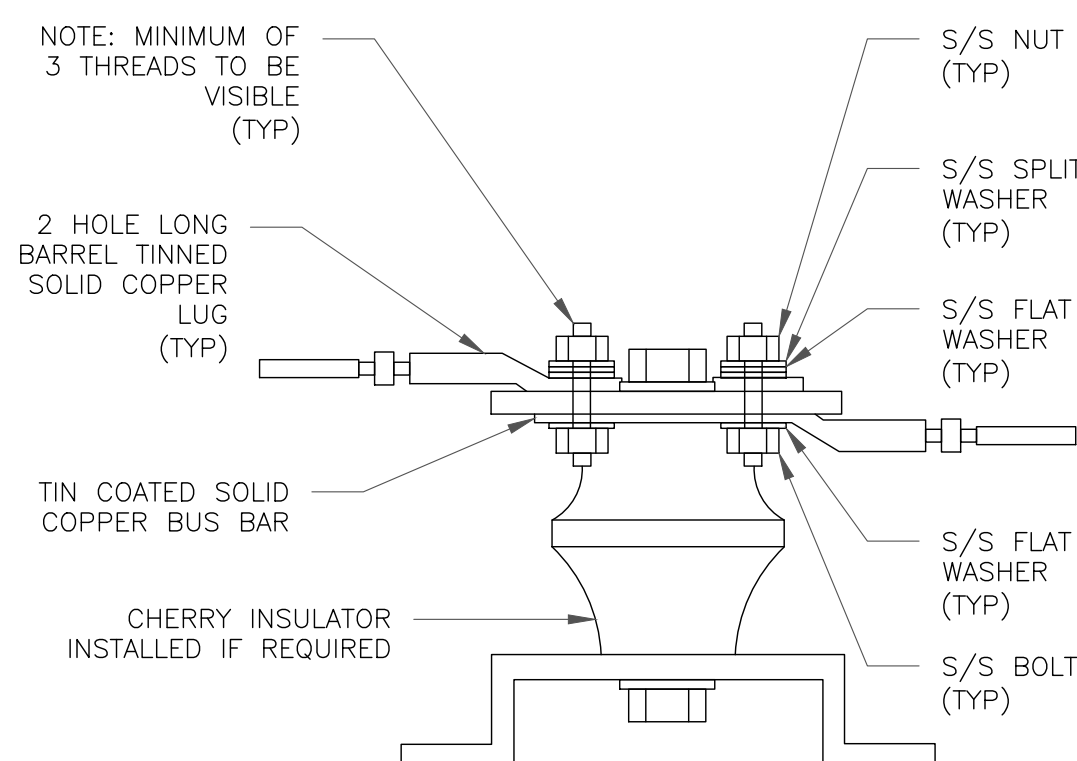
6 GROUND BAR DETAIL
SCALE: NOT TO SCALE



NOTES:

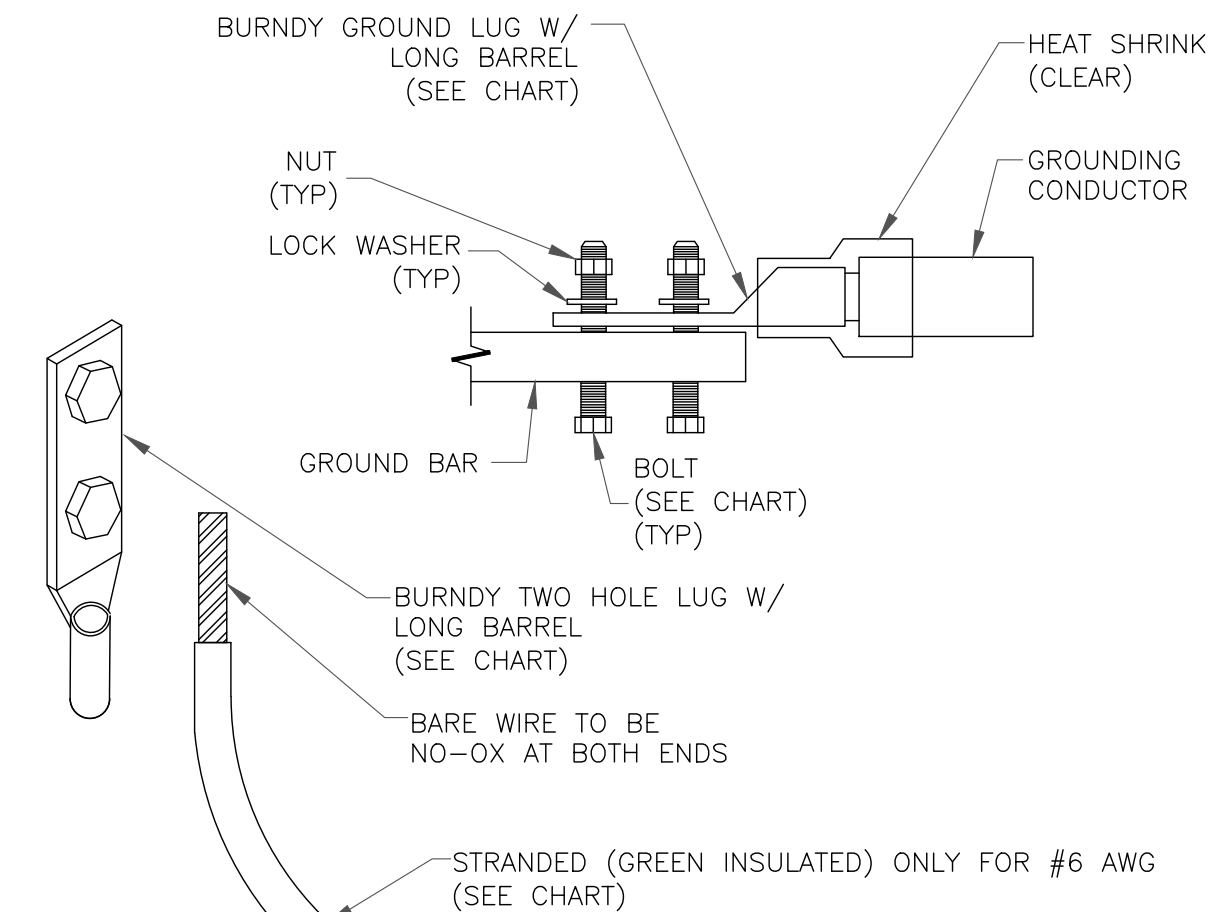
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE USED.

4 GROUND CABLE CONNECTION
SCALE: NOT TO SCALE



7 LUG DETAIL
SCALE: NOT TO SCALE

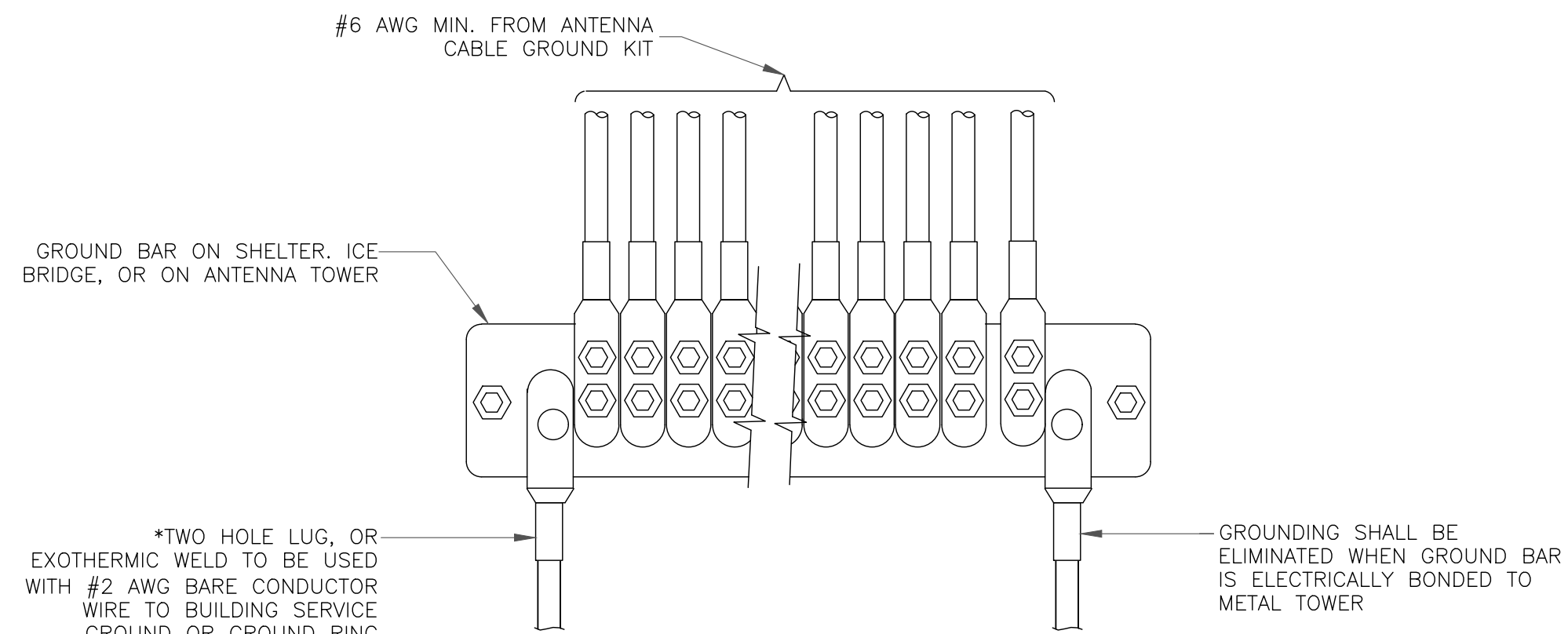
WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



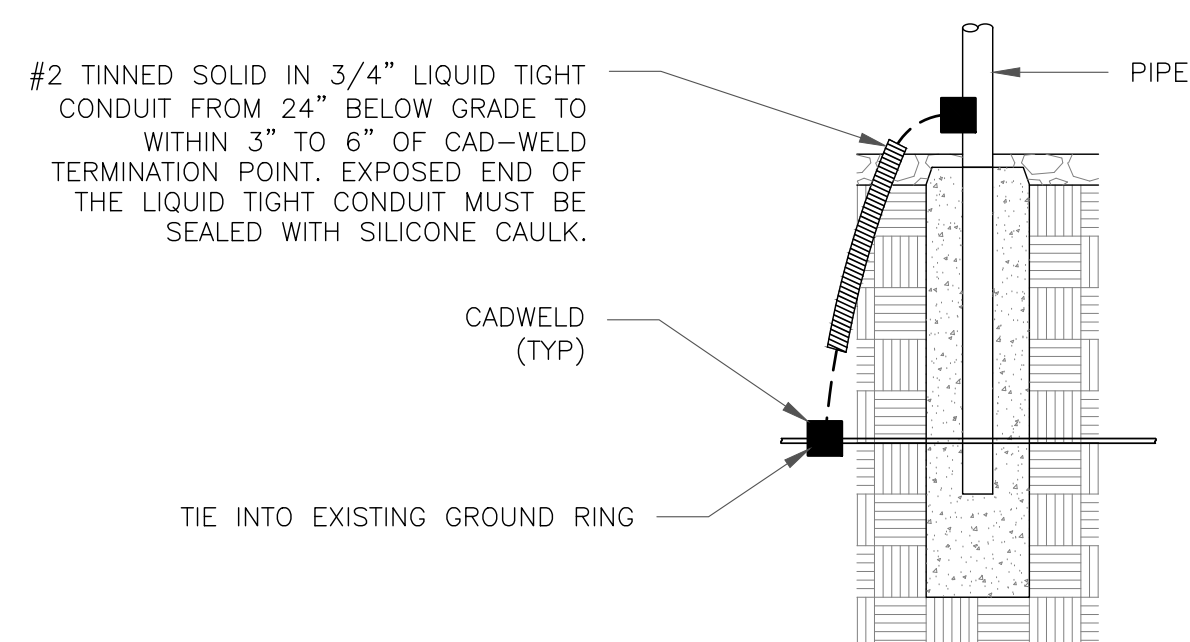
NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

2 MECHANICAL LUG CONNECTION
SCALE: NOT TO SCALE



5 GROUNDWIRE INSTALLATION
SCALE: NOT TO SCALE



8 TRANSITIONING GROUND DETAIL
SCALE: NOT TO SCALE

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

CROWN
CASTLE

3 CORPORATE PARK DRIVE, SUITE 101
CLIFTON PARK, NY 12065

PLANS PREPARED BY:
TOWER ENGINEERING PROFESSIONALS

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RALEIGH, NC 27603 CRANFORD, NJ 07016
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TEP JOB #: 217432.784455

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617244220

VERIZON SITE NAME:
WINDSOR NE CT

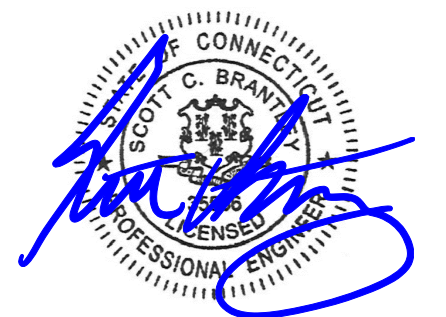
CROWN BU #: 876326
HAYDEN STATION

440 HAYDEN STATION ROAD
WINDSOR, CT 06095

EXISTING 96'-0"
MONOPOLE TOWER

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/12/23	SBS	CONSTRUCTION	RST



01/12/23

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SHEET NUMBER:

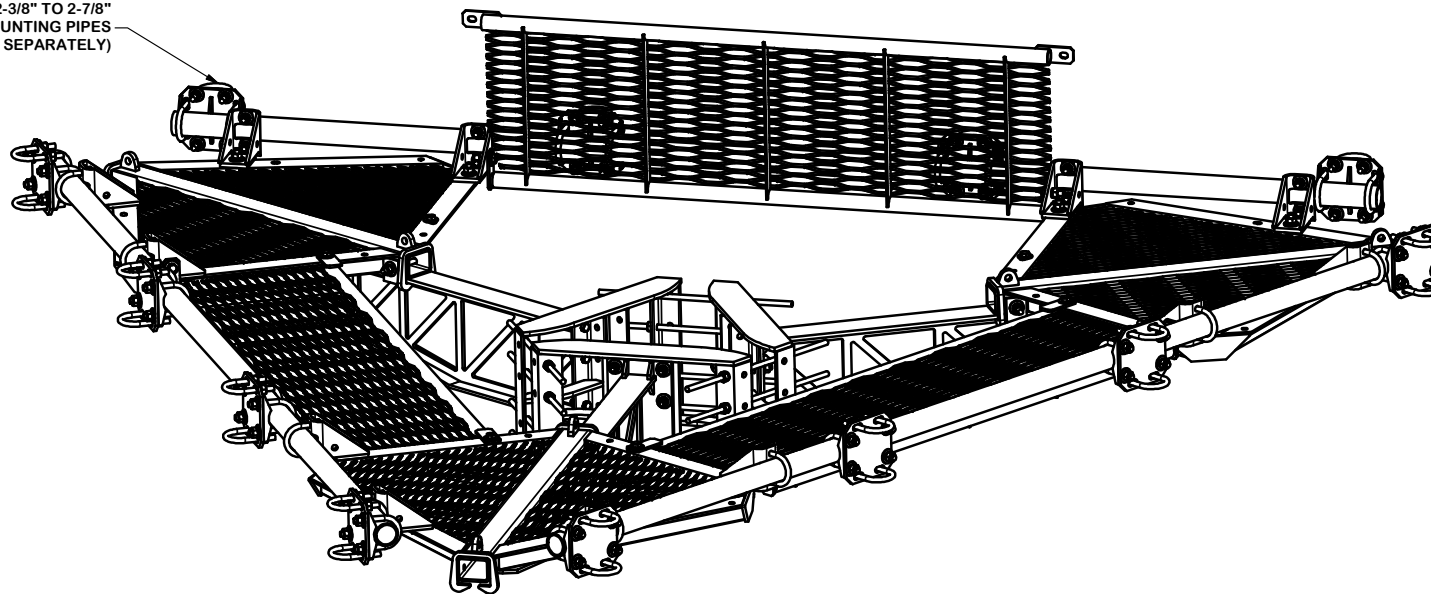
G-3

REVISION:

0

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LPP-CW	LOW PROFILE PLATFORM CORNER WELDMENT		198.75	596.26
2	3	X-LPP-SA12	SIDE ARM WELDMENT FOR 12' LOW PROFILE PLATFORMS		119.21	357.63
3	3	X-RM3HD	WELDMENT FOR 3-SIDED HEAVY DUTY RING MOUNT		84.42	253.25
4	3	X-LPP-W12	WALKWAY FOR 12' LOW PROFILE PLATFORM		86.48	259.44
5	12	X-LPP-PC	FACE PIPE CONNECTION BRACKET FORTRESS PLATFORM		7.01	84.11
6	12	X-SCX3-FR	FORTRESS CROSSOVER PLATE		6.61	79.37
7	12	X-LPP-A7	CORNER WELDMENT ATTACHMENT ANGLE	2 1/2 in	1.27	15.25
8	6	X-LPP-H	HINGE FOR LOW PROFILE PLATFORM WALKWAY		2.78	16.66
9	3	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	230.81
10	12	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	4.79
10	12	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	4.79
11	6	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	4.18
12	48	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	55.17
13	24	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	24.00
14	12	X-UB5304	5/8" X 3" X 4-1/4" X 2-1/2" U-BOLT (HDG.)		0.98	11.70
15	48	G58214	5/8" x 2-1/4" HDG HEX BOLT GR5		0.29	13.99
16	186	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	13.11
17	204	G58LW	5/8" HDG LOCKWASHER		0.03	5.32
18	204	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	26.50
					TOTAL WT. #	2122.03

2-3/8" TO 2-7/8"
ANTENNA MOUNTING PIPES
(ORDERED SEPARATELY)



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION

12' FORTRESS™
 TRI-PLATFORM MOUNT
 WITH WALKWAYS

CPD NO.

DRAWN BY

ENG. APPROVAL

CLASS

SUB

DRAWING USAGE

CHECKED BY

PART NO.

DWG. NO.



A valmont COMPANY

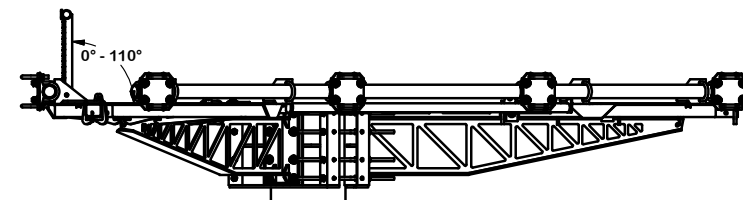
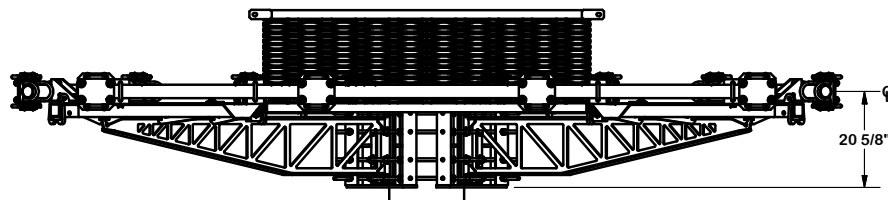
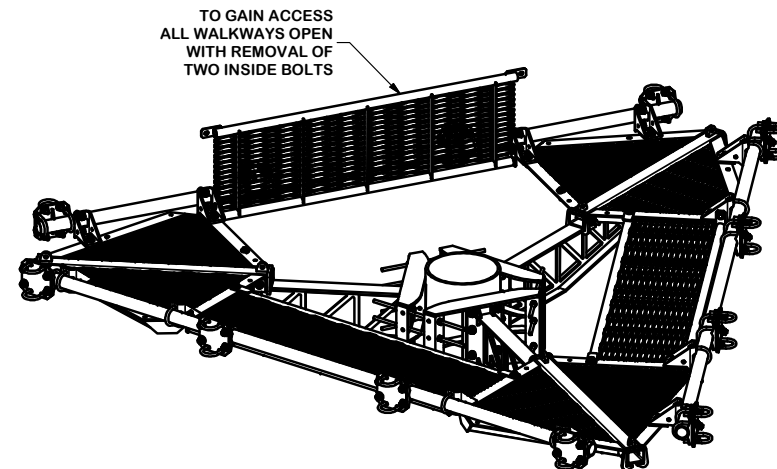
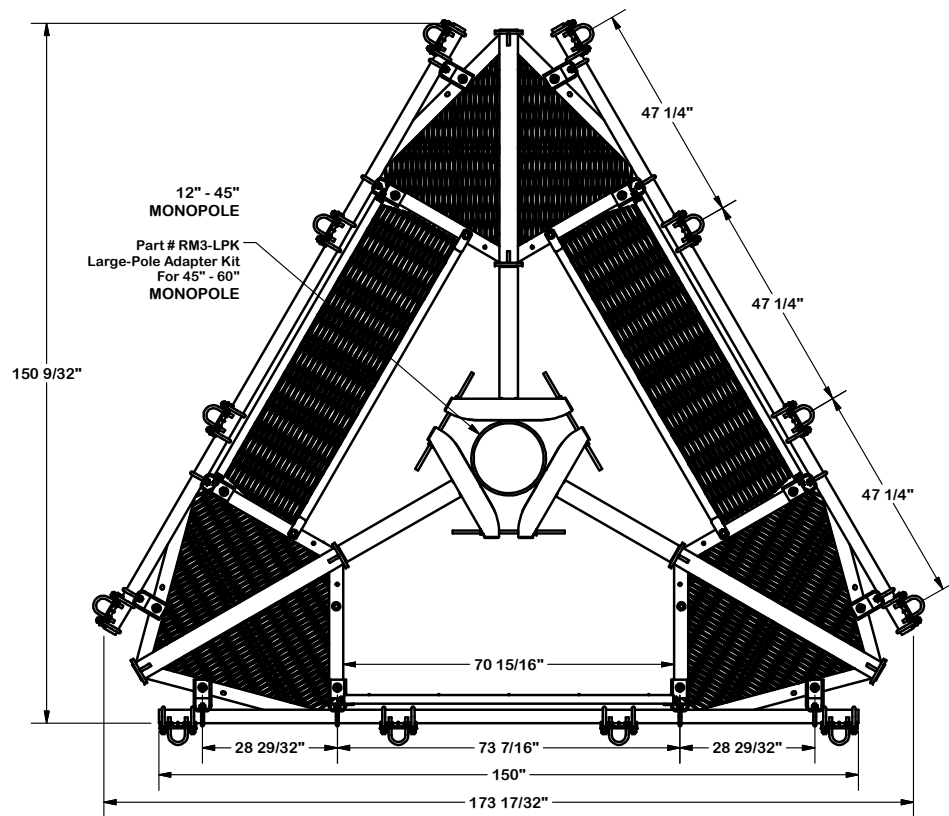
Engineering
 Support Team:
 1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

F3P-12W

F3P-12W

PAGE
 1 OF 4



TOLERANCE NOTES

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DESCRIPTION

12' FORTRESS™
 TRI-PLATFORM MOUNT
 WITH WALKWAYS

CPD NO.

DRAWN BY

CEK 8/8/2017

ENG. APPROVAL

CLASS

SUB

DRAWING USAGE

CUSTOMER

CHECKED BY

BMC 8/30/2017

PART NO.

F3P-12W

DWG. NO.

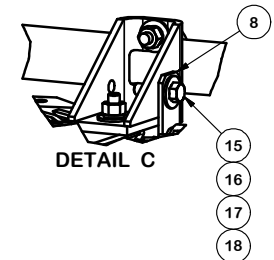
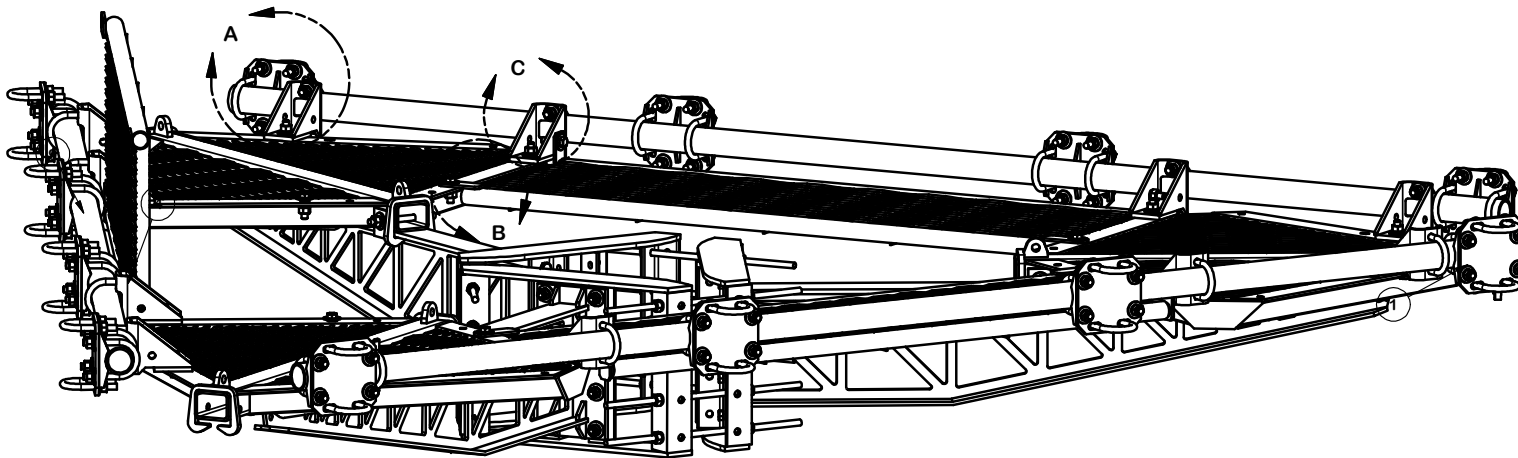
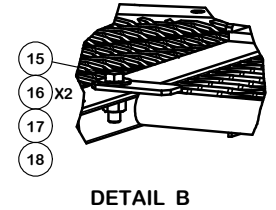
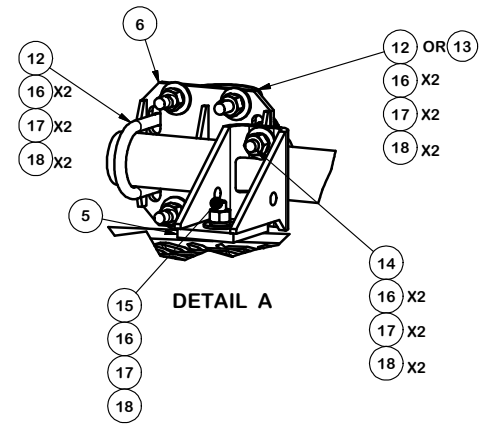
F3P-12W



A valmont COMPANY

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 Support Team:
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Locations:
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 Dallas, TX



TOLERANCE NOTES

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DESCRIPTION

12' FORTRESS™
 TRI-PLATFORM MOUNT
 WITH WALKWAYS

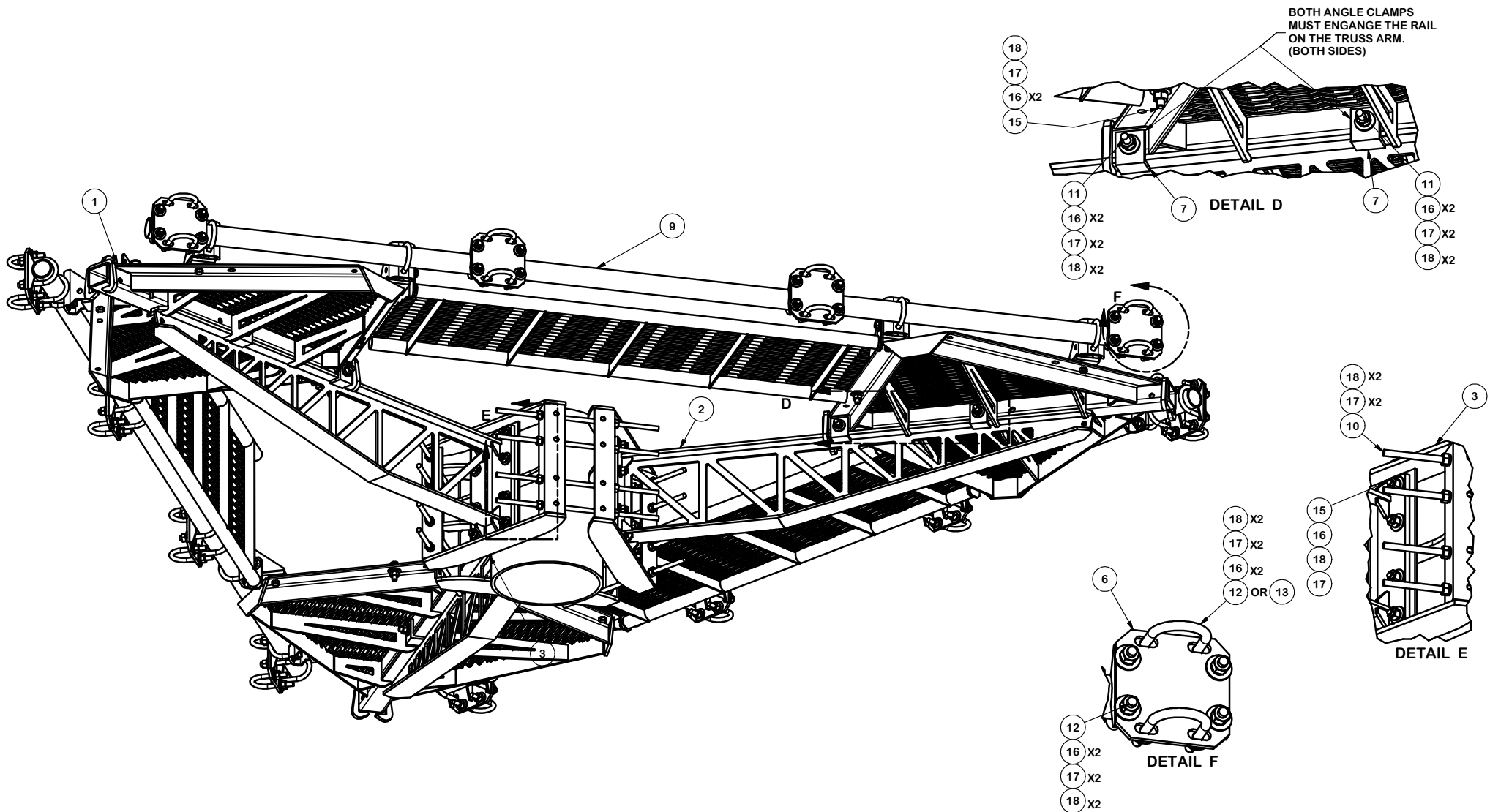
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CLASS 81	SUB 02	DRAWING USAGE CUSTOMER
	CHECKED BY BMC 8/30/2017	



Locations:
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 Plymouth, IN
 Salem, OR
 Dallas, TX

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 Support Team:
 1-888-753-7446

PART NO.	F3P-12W
DWG. NO.	F3P-12W



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DESCRIPTION

12' FORTRESS™
 TRI-PLATFORM MOUNT
 WITH WALKWAYS

CPD NO.

DRAWN BY

CEK 8/8/2017

ENG. APPROVAL

CLASS

SUB

81 02

DRAWING USAGE

CUSTOMER

CHECKED BY

BMC 8/30/2017

PART NO.

F3P-12W

DWG. NO.

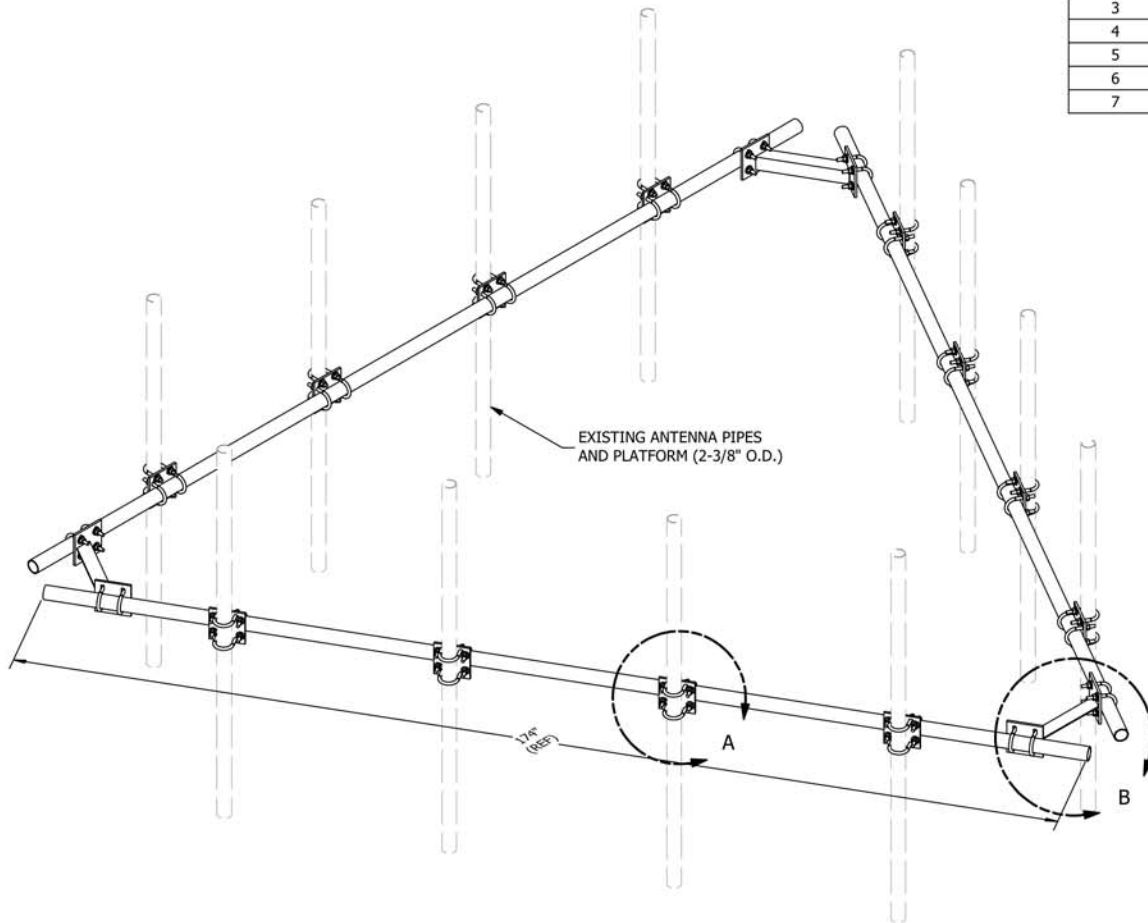
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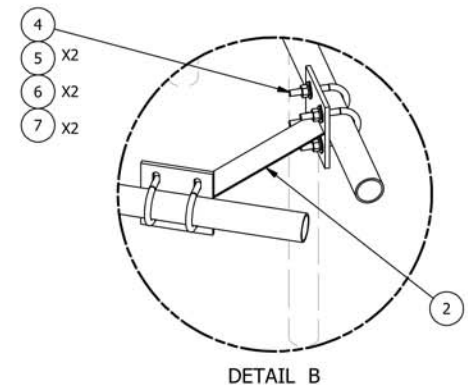
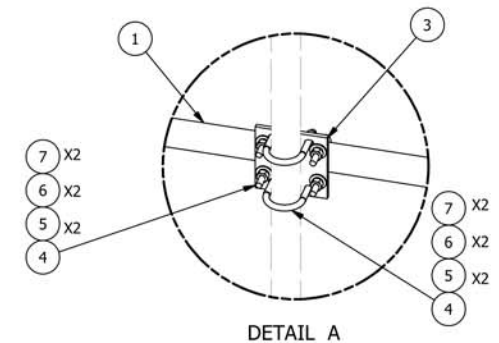
A valmont COMPANY

Engineering
 Support Team:
 1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2174	2-3/8" OD X 174" SCH 40 GALVANIZED PIPE	174 in	55.75	167.24
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	12	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"	6 in	3.71	44.50
4	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	37.51
5	120	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	4.09
6	120	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	1.67
7	120	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	8.60
TOTAL WT. #						302.36



TOLERANCE NOTES

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 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
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 ALL OTHER ASSEMBLY ($\pm 0.060"$)

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DESCRIPTION

HANDRAIL KIT
 FOR 14'-6" FACE

CPD NO.	DRAWN BY	ENG. APPROVAL
81	KC8 5/30/2012	
CLASS	SUB	CHECKED BY
81	01	BMC 7/13/2014



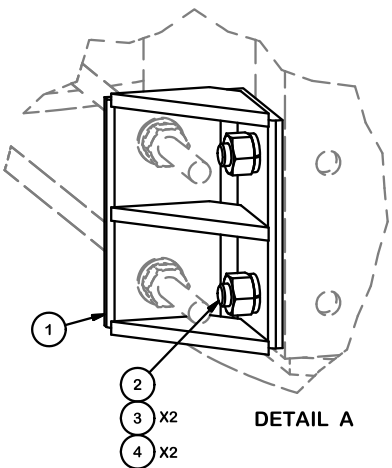
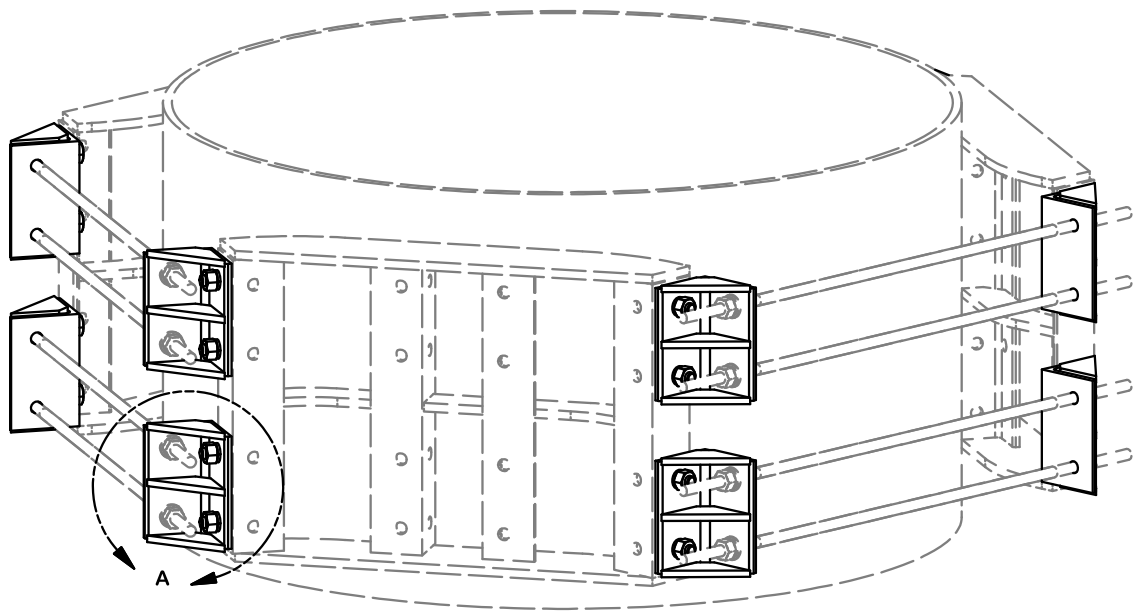
Engineering
 Support Team:
 1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

PART NO.	HRK14
OWG. NO.	HRK14

A	REPLACED HCP WITH X-AHCP	CEK	7/11/2014
REV	DESCRIPTION OF REVISIONS	CPD	BY
	REVISION HISTORY		DATE

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	12	X-RM3LP	WELDMENT FOR LARGE POLE ADAPTER FOR RM3-HD		7.49	89.90
2	24	G58134	5/8" x 1-3/4" HDG BOLT	1 3/4 in	0.27	6.45
3	24	G58LW	5/8" HDG LOCKWASHER		0.03	0.63
4	24	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.12
					TOTAL WT. #	100.10



TOLERANCE NOTES

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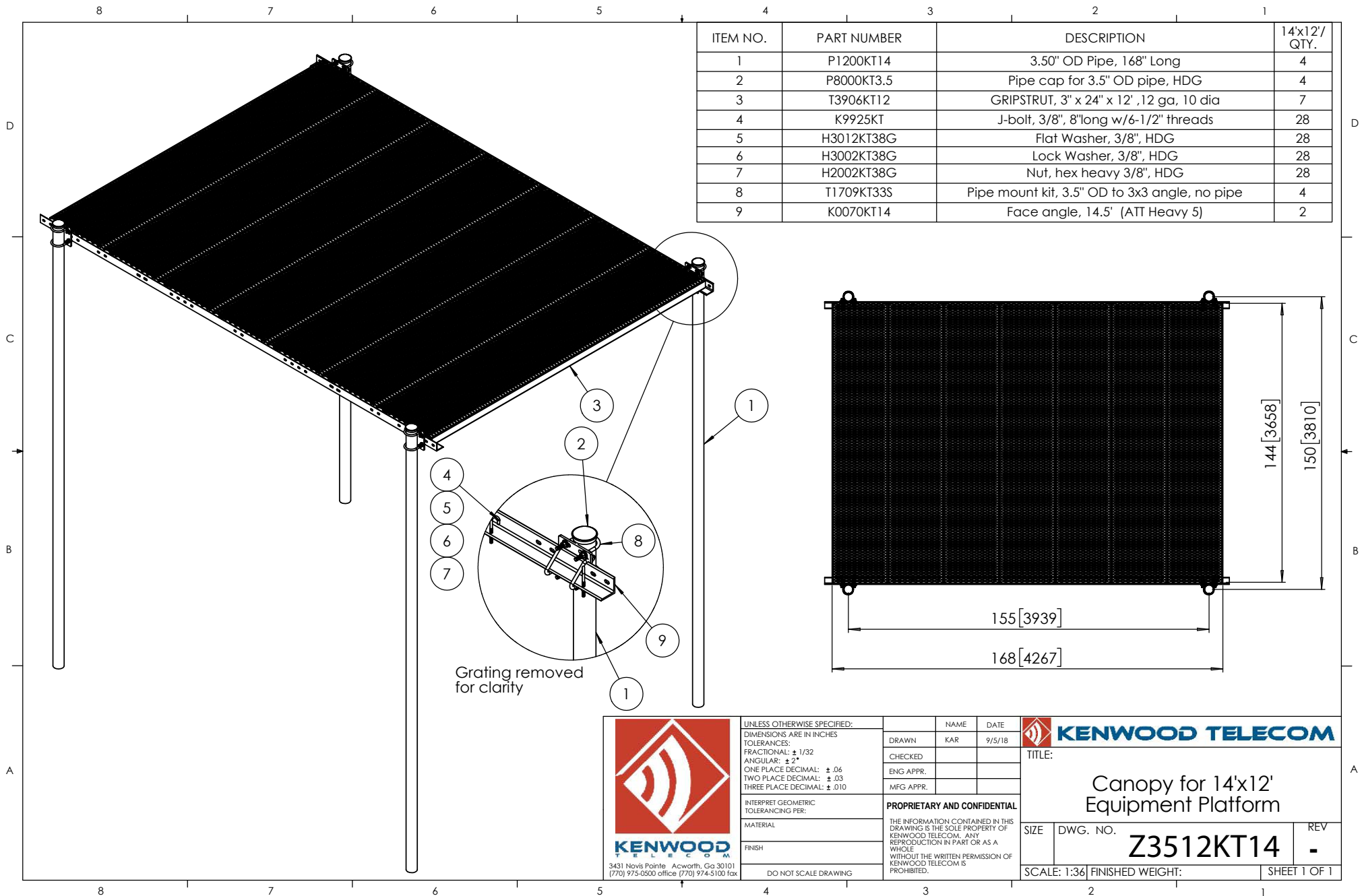
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DESCRIPTION		
RM3 LARGE POLE ADAPTER KIT		

CPD NO.	DRAWN BY	ENG. APPROVAL
81	CEK 9/15/2017	
CLASS	DRAWING USAGE	CHECKED BY
81	02 CUSTOMER	BMC 9/18/2017

		Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
Engineering Support Team: 1-888-753-7446		

PART NO.	RM3-LPK	PAGE
DWG. NO.	RM3-LPK	1 OF 1



ATTACHMENT 4

Date: **February 23, 2023**



Crown Castle
2000 Corporate Drive
Canonsburg, PA 15317
(724) 416-2000

Subject: **Structural Analysis Report**

Carrier Designation: **Verizon Wireless Co-Locate**
Site Number: 720913
Site Name: WINDSOR NE CT

Crown Castle Designation: **BU Number:** 876326
Site Name: HAYDEN STATION
JDE Job Number: 742093
Work Order Number: 2207102
Order Number: 646027 Rev. 0

Engineering Firm Designation: **Crown Castle Project Number:** 2207102

Site Data: **440 Hayden Station Road, WINDSOR, HARTFORD County, CT**
Latitude 41° 53' 52.2", Longitude -72° 38' 38.7"
96 Foot - Monopole Tower

Crown Castle is pleased to submit this "**Structural Analysis Report**" to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration

Sufficient Capacity – 59.7%

This analysis utilizes an ultimate 3-second gust wind speed of 116 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - "Analysis Criteria".

Structural analysis prepared by: Jared Koski, EI

Respectfully submitted by:

Terry P. Styran, P.E.
Senior Project Engineer

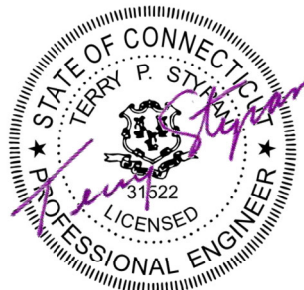


TABLE OF CONTENTS

1) INTRODUCTION

2) ANALYSIS CRITERIA

Table 1 - Proposed Equipment Configuration

Table 2 - Other Considered Equipment

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Table 3 - Documents Provided

3.1) Analysis Method

3.2) Assumptions

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Table 5 - Tower Component Stresses vs. Capacity - LC7

4.1) Recommendations

5) APPENDIX A

tnxTower Output

6) APPENDIX B

Base Level Drawing

7) APPENDIX C

Additional Calculations

1) INTRODUCTION

This tower is a 96 ft Monopole tower designed by Rohn.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	116 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
50.0	50.0	3	commscope	NHHS4-65B-R3B w/ Mount Pipe	2	1-5/8
		3	commscope	NHHSS-65B-R2BT4 w/ Mount Pipe		
		1	raycap	RVZDC-6627-PF-48_CCIV2		
		3	samsung telecommunications	CBRS RRHRT4401- 48A		
		3	samsung telecommunications	MT6407-77A w/ Mount Pipe		
		3	samsung telecommunications	RF4402D-D1A		
		3	samsung telecommunications	RF4439D-25A		
		1	sitepro1	F3P-12W		
		1	sitepro1	F3P-HRK12		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
92.0	94.0	3	cci antennas	DMP65R-BU8D w/ Mount Pipe	3 6 1 6 1	3/8 13/16 7/8 1-5/8 Conduit
		3	ericsson	AIR 6419 B77G_CCIV3 w/ Mount Pipe		
		3	ericsson	RRUS 32 B30		
		3	ericsson	RRUS 4449 B5/B12		
		3	ericsson	RRUS 4478 B14		
		3	ericsson	RRUS 8843 B2/B66A		
		3	ericsson	RRUS E2 B29		
		3	quintel technology	QD8616-7 w/ Mount Pipe		
		2	raycap	DC6-48-60-18-8F		
		1	raycap	DC9-48-60-24-8C-EV_CCIV2		
	92.0	1	tower mounts	Sector Mount [SM 503-3]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
	90.0	3	ericsson	AIR 6449 B77D_CCVI2 w/ Mount Pipe		
83.0	86.0	3	alcatel lucent	TD-RRH8X20-25	6 4 1 3 1	5/16 1/2 5/8 1-1/4 Conduit
		1	andrew	VHLP2-180		
		1	dragonwave	A-ANT-11G-4-C		
		1	dragonwave	A-ANT-11G-4-C		
		3	dragonwave	HORIZON DUO		
	83.0	3	rfs celwave	APXVSP18-C-A20 w/ Mount Pipe		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
		3	samsung telecommunications	WIMAX DAP HEAD		
		1	tower mounts	Platform Mount [LP 502-1]		
	82.0	3	kathrein	840 10045		
79.0	81.0	3	alcatel lucent	PCS 1900MHZ 4x45W-65MHZ	-	-
	79.0	3	alcatel lucent	800MHZ 2X50W RRH W/FILTER		
		1	tower mounts	Side Arm Mount [SO 104-3]		
73.0	75.0	3	commscope	VV-65A-R1_TMO w/ Mount Pipe	3	1-5/8
		3	ericsson	AIR 6419 B41_TMO w/ Mount Pipe		
		3	ericsson	RADIO 4460 B2/B25 B66_TMO		
		3	ericsson	Radio 4480_TMOV2		
		3	rfs celwave	APXVAALL24_43-U-NA20_TMO w/ Mount Pipe		
	73.0	1	tower mounts	Platform Mount [LP 304-1_HR-1] (16')		
65.0	65.0	3	fujitsu	TA08025-B604	1	1-3/8
		3	fujitsu	TA08025-B605		
		3	jma wireless	MX08FRO665-21 w/ Mount Pipe		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		
57.0	57.0	1	gps	GPS_A	1	1/2
		1	tower mounts	4.5' x 2" horizontal mount pipe		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	1530918	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	1640630	CCISITES
4-TOWER MANUFACTURER DRAWINGS	1639483	CCISITES

3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A. When applicable, Crown Castle has calculated and provided the effective area for panel antennas using approved methods following the intent of the TIA-222 standard.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 3) Base and flange plate design methodology of the manufacturer has been reviewed and found to be an acceptable means of designing to resist the full capacity of the bolts and shaft.

This analysis may be affected if any assumptions are not valid or have been made in error. Crown Castle should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	96 - 85	Pole	P12x3/8	1	-6.373	482.199	36.8	Pass
L2	85 - 65	Pole	P42x3/8	2	-18.433	1752.313	18.3	Pass
L3	65 - 32.5	Pole	P48x3/8	3	-35.032	1939.864	45.0	Pass
L4	32.5 - 0	Pole	P48x1/2	4	-46.647	2781.513	58.8	Pass
							Summary	
						Pole (L4)	58.8	Pass
						Rating =	58.8	Pass

Table 5 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Bolts	85	3.8	Pass
1,3	Flange Plate	85	36.8	Pass
1	Flange Bolts	65	10.1	Pass
1,3	Flange Plate	65	18.3	Pass
1	Flange Bolts	32.5	33.9	Pass
1,3	Flange Plate	32.5	45.0	Pass
1	Anchor Rods	0	59.7	Pass
1,2	Base Plate	0	59.7	Pass
1	Base Foundation (Structure)	0	40.2	Pass
1	Base Foundation (Soil Interaction)	0	23.3	Pass

Structure Rating (max from all components) =	59.7%
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Notes:

- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
- 2) Base plate has the same capacity as its respective bolts.
- 3) Flange plates have the same capacity as their respective shaft.

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A

TNXTOWER OUTPUT

Section	1	P12x3/8	11,000	A53-B-35	0.5
Size	2	P42x3/8	20,000	A53-B-42	3.3
Length (ft)	3	P48x3/8	32,500		6.2
Grade	4	P48x1/2	32,500		8.3
Weight (K)					18.3

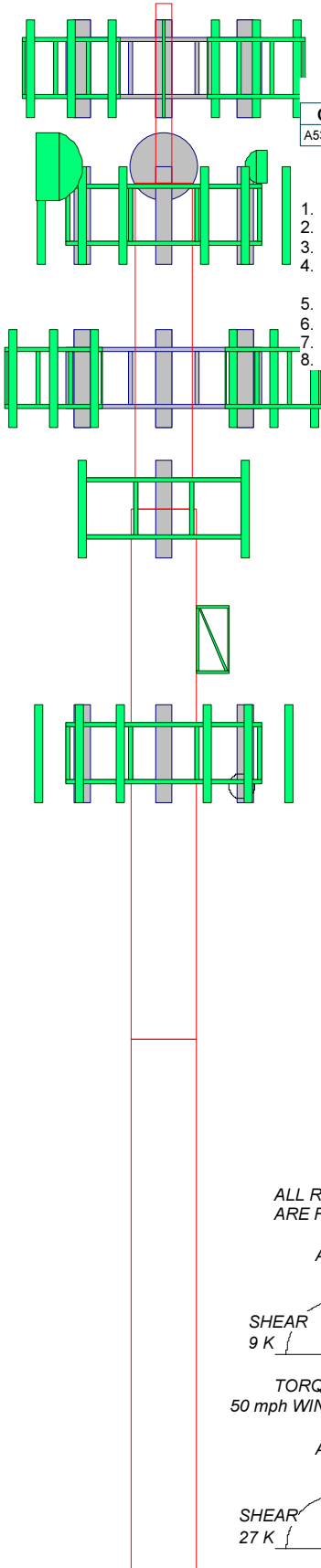
96.0 ft

85.0 ft

65.0 ft

32.5 ft

0.0 ft



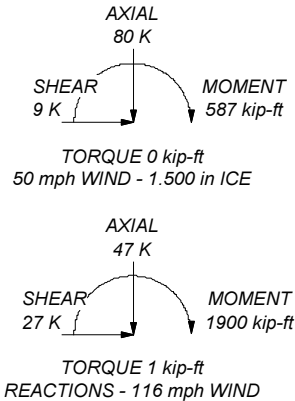
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	60 ksi	A53-B-42	42 ksi	63 ksi

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 116 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. TOWER RATING: 58.8%

ALL REACTIONS
ARE FACTORED



Tower Input Data

The tower is a monopole.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in Hartford County, Connecticut.
- Tower base elevation above sea level: 141.000 ft.
- Basic wind speed of 116 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.000 ft.
- Nominal ice thickness of 1.500 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.000 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Temperature drop of 50.000 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Tower analysis based on target reliabilities in accordance with Annex S.
- Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
- Maximum demand-capacity ratio is: 1.05.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	SR Leg Bolts Resist Compression
√ Use Code Stress Ratios	Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
√ Use Code Safety Factors - Guys	Retention Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	√ Bypass Mast Stability Checks	√ Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist.
Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Exemption
Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Use TIA-222-H Tension Splice
Secondary Horizontal Braces Leg	√ Sort Capacity Reports By Component	Exemption
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	

Poles

- √ Include Shear-Torsion Interaction
- Always Use Sub-Critical Flow
- Use Top Mounted Sockets
- Pole Without Linear Attachments
- Pole With Shroud Or No
- Appurtenances
- Outside and Inside Corner Radii Are Known

Pole Section Geometry

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L1	96.000-85.000	11.000	P12x3/8	A53-B-35 (35 ksi)	
L2	85.000-65.000	20.000	P42x3/8	A53-B-42 (42 ksi)	
L3	65.000-32.500	32.500	P48x3/8	A53-B-42 (42 ksi)	
L4	32.500-0.000	32.500	P48x1/2	A53-B-42 (42 ksi)	

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
L1 96.000- 85.000				1	1	1			
L2 85.000- 65.000				1	1	1			
L3 65.000- 32.500				1	1	1			
L4 32.500- 0.000				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
* FSJ4-50B(1/2)	A	No	Surface Ar (CaAa)	83.000 - 0.000	3	3	0.150 0.200	0.530		0.140
2" Rigid Conduit	A	No	Surface Ar (CaAa)	83.000 - 0.000	2	2	0.225 0.300	2.000		2.800
ATCB-B01-001(5/16)	A	No	Surface Ar (CaAa)	83.000 - 0.000	6	3	0.225 0.300	0.000		0.075
HB114-1-08U4-M5J(1- 1/4)	A	No	Surface Ar (CaAa)	83.000 - 0.000	4	3	0.000 0.125	1.540		1.080
* HB158-21U6S24- xxM_TMO(1-5/8)	C	No	Surface Ar (CaAa)	73.000 - 0.000	3	3	-0.425 -0.300	1.996		2.500
* CU12PSM9P8XXX(1- 3/8)	C	No	Surface Ar (CaAa)	65.000 - 0.000	1	1	0.250 0.300	1.411		1.660
* HFT1206-24SVL- XXX(1-5/8)	B	No	Surface Ar (CaAa)	50.000 - 0.000	2	2	0.360 0.410	1.710		1.920
* Safety Line 3/8	A	No	Surface Ar (CaAa)	85.000 - 0.000	1	1	-0.210 -0.200	0.375		0.220
* 										

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight plf
LDF7-50A(1-5/8)	B	No	No	Inside Pole	92.000 - 0.000	6	No Ice	0.000	0.820
							1/2" Ice	0.000	0.820
							1" Ice	0.000	0.820
							2" Ice	0.000	0.820
2" Rigid Conduit	B	No	No	Inside Pole	92.000 - 0.000	1	No Ice	0.000	2.800
							1/2" Ice	0.000	2.800
							1" Ice	0.000	2.800
							2" Ice	0.000	2.800
FB-L98B-002- 75000(3/8)	B	No	No	Inside Pole	92.000 - 0.000	2	No Ice	0.000	0.059
							1/2" Ice	0.000	0.059
							1" Ice	0.000	0.059
							2" Ice	0.000	0.059
PWRT-606-S(7/8)	B	No	No	Inside Pole	92.000 - 0.000	1	No Ice	0.000	0.890
							1/2" Ice	0.000	0.890
							1" Ice	0.000	0.890
							2" Ice	0.000	0.890
PWRT-608- S(13/16)	B	No	No	Inside Pole	92.000 - 0.000	6	No Ice	0.000	0.620
							1/2" Ice	0.000	0.620
							1" Ice	0.000	0.620
							2" Ice	0.000	0.620
FB-L98B-235- XXX(3/8)	B	No	No	Inside Pole	92.000 - 0.000	1	No Ice	0.000	0.060
							1/2" Ice	0.000	0.060
							1" Ice	0.000	0.060
							2" Ice	0.000	0.060
*									
LDF4-50A(1/2)	A	No	No	Inside Pole	83.000 - 0.000	1	No Ice	0.000	0.150
							1/2" Ice	0.000	0.150
							1" Ice	0.000	0.150
							2" Ice	0.000	0.150
*									
LDF4-50A(1/2)	C	No	No	Inside Pole	57.000 - 0.000	1	No Ice	0.000	0.150
							1/2" Ice	0.000	0.150
							1" Ice	0.000	0.150
							2" Ice	0.000	0.150
*									

Feed Line/Linear Appurtenances Section Areas

Tower Section n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
L1	96.000-85.000	A	0.000	0.000	0.000	0.000	0.000
		B	0.000	0.000	0.000	0.000	0.088
		C	0.000	0.000	0.000	0.000	0.000
L2	85.000-65.000	A	0.000	0.000	19.128	0.000	0.201
		B	0.000	0.000	0.000	0.000	0.250
		C	0.000	0.000	4.790	0.000	0.060
L3	65.000-32.500	A	0.000	0.000	34.401	0.000	0.363
		B	0.000	0.000	5.985	0.000	0.474
		C	0.000	0.000	24.047	0.000	0.301
L4	32.500-0.000	A	0.000	0.000	34.401	0.000	0.363
		B	0.000	0.000	11.115	0.000	0.531
		C	0.000	0.000	24.047	0.000	0.303

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section n	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} A _A In Face ft ²	C _{AA} A _A Out Face ft ²	Weight K
L1	96.000-85.000	A	1.410	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.088
		C		0.000	0.000	0.000	0.000	0.000
L2	85.000-65.000	A	1.384	0.000	0.000	54.173	0.000	0.713
		B		0.000	0.000	0.000	0.000	0.250
		C		0.000	0.000	8.756	0.000	0.145
L3	65.000-32.500	A	1.327	0.000	0.000	94.431	0.000	1.224
		B		0.000	0.000	13.285	0.000	0.595
		C		0.000	0.000	48.312	0.000	0.776
L4	32.500-0.000	A	1.191	0.000	0.000	89.137	0.000	1.107
		B		0.000	0.000	23.569	0.000	0.728
		C		0.000	0.000	46.327	0.000	0.718

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
L1	96.000-85.000	0.000	0.000	0.000	0.000
L2	85.000-65.000	-3.123	-3.423	-3.402	-3.515
L3	65.000-32.500	-1.064	-0.912	-1.960	-1.531
L4	32.500-0.000	-0.197	-0.639	-1.156	-1.225

Note: For pole sections, center of pressure calculations do not consider feed line shielding.

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L2	10	FSJ4-50B(1/2)	65.00 - 83.00	1.0000	1.0000
L2	11	2" Rigid Conduit	65.00 - 83.00	1.0000	1.0000
L2	12	ATCB-B01-001(5/16)	65.00 - 83.00	1.0000	1.0000
L2	15	HB114-1-08U4-M5J(1-1/4)	65.00 - 83.00	1.0000	1.0000
L2	21	HB158-21U6S24- xxM_TMO(1-5/8)	65.00 - 73.00	1.0000	1.0000
L2	29	Safety Line 3/8	65.00 - 85.00	1.0000	1.0000
L3	10	FSJ4-50B(1/2)	32.50 - 65.00	1.0000	1.0000
L3	11	2" Rigid Conduit	32.50 - 65.00	1.0000	1.0000
L3	12	ATCB-B01-001(5/16)	32.50 - 65.00	1.0000	1.0000
L3	15	HB114-1-08U4-M5J(1-1/4)	32.50 - 65.00	1.0000	1.0000
L3	21	HB158-21U6S24- xxM_TMO(1-5/8)	32.50 - 65.00	1.0000	1.0000
L3	23	CU12PSM9P8XXX(1-3/8)	32.50 - 65.00	1.0000	1.0000
L3	27	HFT1206-24SVL-XXX(1- 5/8)	32.50 - 50.00	1.0000	1.0000
L3	29	Safety Line 3/8	32.50 - 65.00	1.0000	1.0000
L4	10	FSJ4-50B(1/2)	0.00 - 32.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L4	11	2" Rigid Conduit	0.00 - 32.50	1.0000	1.0000
L4	12	ATCB-B01-001(5/16)	0.00 - 32.50	1.0000	1.0000
L4	15	HB114-1-08U4-M5J(1-1/4)	0.00 - 32.50	1.0000	1.0000
L4	21	HB158-21U6S24-xxM_TMO(1-5/8)	0.00 - 32.50	1.0000	1.0000
L4	23	CU12PSM9P8XXX(1-3/8)	0.00 - 32.50	1.0000	1.0000
L4	27	HFT1206-24SVL-XXX(1-5/8)	0.00 - 32.50	1.0000	1.0000
L4	29	Safety Line 3/8	0.00 - 32.50	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
DMP65R-BU8D w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	92.000
DMP65R-BU8D w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	92.000
DMP65R-BU8D w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	92.000
QD8616-7 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	92.000
QD8616-7 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	92.000
QD8616-7 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	92.000
AIR 6419 B77G_CCIV3 w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	92.000
AIR 6419 B77G_CCIV3 w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	92.000
AIR 6419 B77G_CCIV3 w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	92.000
AIR 6449 B77D_CCVI2 w/ Mount Pipe	A	From Leg	4.000 0.000 -2.000	0.000	92.000
AIR 6449 B77D_CCVI2 w/ Mount Pipe	B	From Leg	4.000 0.000 -2.000	0.000	92.000
AIR 6449 B77D_CCVI2 w/ Mount Pipe	C	From Leg	4.000 0.000 -2.000	0.000	92.000
DC6-48-60-18-8F	A	From Leg	2.000 0.000 2.000	0.000	92.000
DC6-48-60-18-8F	B	From Leg	2.000 0.000 2.000	0.000	92.000
RRUS 8843 B2/B66A	A	From Leg	4.000 0.000 2.000	0.000	92.000
RRUS 8843 B2/B66A	B	From Leg	4.000 0.000	0.000	92.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
RRUS 8843 B2/B66A	C	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS E2 B29	A	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS E2 B29	B	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS E2 B29	C	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 4478 B14	A	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 4478 B14	B	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 4478 B14	C	From Leg	2.000 4.000 0.000	0.000	92.000
DC9-48-60-24-8C-EV_CCIV2	A	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 4449 B5/B12	A	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 4449 B5/B12	B	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 4449 B5/B12	C	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 32 B30	A	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 32 B30	B	From Leg	2.000 4.000 0.000	0.000	92.000
RRUS 32 B30	C	From Leg	2.000 4.000 0.000	0.000	92.000
Sector Mount [SM 503-3]	C	None		0.000	92.000
Pipe Mount [PM 601-3]	C	None		0.000	92.000
4' x 2" Pipe Mount	A	From Leg	2.000 0.000 1.000	0.000	92.000
4' x 2" Pipe Mount	B	From Leg	2.000 0.000 1.000	0.000	92.000
4' x 2" Pipe Mount	C	From Leg	2.000 0.000 1.000	0.000	92.000
6' x 2" Horizontal Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	92.000
6' x 2" Horizontal Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	92.000
6' x 2" Horizontal Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	92.000
7"X2" Horizontal Pipe	A	From Leg	2.000 0.000	0.000	92.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
7"X2" Horizontal Pipe	B	From Leg	2.000 2.000 0.000	0.000	92.000
7"X2" Horizontal Pipe	C	From Leg	2.000 2.000 0.000	0.000	92.000
***			2.000		
APXVSPP18-C-A20 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	83.000
APXVSPP18-C-A20 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	83.000
APXVSPP18-C-A20 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	83.000
APXVTM14-C-120 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	83.000
APXVTM14-C-120 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	83.000
APXVTM14-C-120 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	83.000
840 10045	A	From Leg	4.000 0.000 -1.000	0.000	83.000
840 10045	B	From Leg	4.000 0.000 -1.000	0.000	83.000
840 10045	C	From Leg	4.000 0.000 -1.000	0.000	83.000
TD-RRH8X20-25	A	From Leg	4.000 0.000 3.000	0.000	83.000
TD-RRH8X20-25	B	From Leg	4.000 0.000 3.000	0.000	83.000
TD-RRH8X20-25	C	From Leg	4.000 0.000 3.000	0.000	83.000
WIMAX DAP HEAD	A	From Leg	4.000 0.000 0.000	0.000	83.000
WIMAX DAP HEAD	B	From Leg	4.000 0.000 0.000	0.000	83.000
WIMAX DAP HEAD	C	From Leg	4.000 0.000 0.000	0.000	83.000
HORIZON DUO	A	From Leg	4.000 0.000 3.000	0.000	83.000
HORIZON DUO	B	From Leg	4.000 0.000 3.000	0.000	83.000
HORIZON DUO	C	From Leg	4.000 0.000 3.000	0.000	83.000
Platform Mount [LP 502-1]	C	None		0.000	83.000
10' x 3" Pipe Mount	A	From Leg	4.000 0.000	0.000	83.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
10' x 3" Pipe Mount	B	From Leg	2.000 4.000 0.000	0.000	83.000
10' x 3" Pipe Mount	C	From Leg	2.000 4.000 0.000	0.000	83.000
(2) 5' x 2" Pipe Mount	A	From Leg	2.000 4.000 0.000	0.000	83.000
(2) 5' x 2" Pipe Mount	B	From Leg	0.000 4.000 0.000	0.000	83.000
(2) 5' x 2" Pipe Mount	C	From Leg	0.000 4.000 0.000	0.000	83.000
***			0.000		
PCS 1900MHZ 4x45W-65MHZ	A	From Leg	1.000 0.000 2.000	0.000	79.000
PCS 1900MHZ 4x45W-65MHZ	B	From Leg	1.000 0.000 2.000	0.000	79.000
PCS 1900MHZ 4x45W-65MHZ	C	From Leg	1.000 0.000 2.000	0.000	79.000
800MHZ 2X50W RRH W/FILTER	A	From Leg	1.000 0.000 0.000	0.000	79.000
800MHZ 2X50W RRH W/FILTER	B	From Leg	1.000 0.000 0.000	0.000	79.000
800MHZ 2X50W RRH W/FILTER	C	From Leg	1.000 0.000 0.000	0.000	79.000
Side Arm Mount [SO 104-3] 6' x 2" Mount Pipe	C A	None From Leg	1.000 0.000 0.000	0.000 0.000	79.000 79.000
6' x 2" Mount Pipe	B	From Leg	1.000 0.000 0.000	0.000	79.000
6' x 2" Mount Pipe	C	From Leg	1.000 0.000 0.000	0.000	79.000

AIR 6419 B41_TMO w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	73.000
AIR 6419 B41_TMO w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	73.000
AIR 6419 B41_TMO w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	73.000
VV-65A-R1_TMO w/ Mount Pipe	A	From Leg	4.000 0.000 2.000	0.000	73.000
VV-65A-R1_TMO w/ Mount Pipe	B	From Leg	4.000 0.000 2.000	0.000	73.000
VV-65A-R1_TMO w/ Mount Pipe	C	From Leg	4.000 0.000 2.000	0.000	73.000
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	A	From Leg	4.000	0.000	73.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
			0.000		
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	B	From Leg	2.000		
			4.000	0.000	73.000
			0.000		
APXVAALL24_43-U-NA20_TMO w/ Mount Pipe	C	From Leg	2.000		
			4.000	0.000	73.000
			0.000		
Radio 4480_TMOV2	A	From Leg	2.000		
			4.000	0.000	73.000
			0.000		
Radio 4480_TMOV2	B	From Leg	2.000		
			4.000	0.000	73.000
			0.000		
Radio 4480_TMOV2	C	From Leg	2.000		
			4.000	0.000	73.000
			0.000		
RADIO 4460 B2/B25 B66_TMO	A	From Leg	2.000		
			4.000	0.000	73.000
			0.000		
RADIO 4460 B2/B25 B66_TMO	B	From Leg	2.000		
			4.000	0.000	73.000
			0.000		
RADIO 4460 B2/B25 B66_TMO	C	From Leg	2.000		
			4.000	0.000	73.000
			0.000		
Platform Mount [LP 304-1_HR-1] (16') ***	C	None	2.000	0.000	73.000
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.000	0.000	65.000
			0.000		
MX08FRO665-21 w/ Mount Pipe	B	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
MX08FRO665-21 w/ Mount Pipe	C	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
TA08025-B605	A	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
TA08025-B605	B	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
TA08025-B605	C	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
TA08025-B604	A	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
TA08025-B604	B	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
TA08025-B604	C	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
RDIDC-9181-PF-48	A	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
Commscope MC-PK8-DSH (2) 8' x 2" Mount Pipe	C	None	0.000	0.000	65.000
	A	From Leg	4.000	0.000	65.000
			0.000		
(2) 8' x 2" Mount Pipe	B	From Leg	0.000		
			4.000	0.000	65.000
			0.000		
			0.000		

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
(2) 8' x 2" Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	65.000
*** GPS_A	B	From Leg	3.000 0.000 0.000	0.000	57.000
4.5' x 2" horizontal mount pipe	B	From Leg	1.500 0.000 0.000	0.000	57.000
*** NHHSS-65B-R2BT4 w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	50.000
NHHSS-65B-R2BT4 w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	50.000
NHHSS-65B-R2BT4 w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	50.000
NHHS4-65B-R3B w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	50.000
NHHS4-65B-R3B w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	50.000
NHHS4-65B-R3B w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	50.000
MT6407-77A w/ Mount Pipe	A	From Leg	4.000 0.000 0.000	0.000	50.000
MT6407-77A w/ Mount Pipe	B	From Leg	4.000 0.000 0.000	0.000	50.000
MT6407-77A w/ Mount Pipe	C	From Leg	4.000 0.000 0.000	0.000	50.000
RF4439D-25A	A	From Leg	4.000 0.000 0.000	0.000	50.000
RF4439D-25A	B	From Leg	4.000 0.000 0.000	0.000	50.000
RF4439D-25A	C	From Leg	4.000 0.000 0.000	0.000	50.000
RF4402D-D1A	A	From Leg	4.000 0.000 0.000	0.000	50.000
RF4402D-D1A	B	From Leg	4.000 0.000 0.000	0.000	50.000
RF4402D-D1A	C	From Leg	4.000 0.000 0.000	0.000	50.000
RVZDC-6627-PF-48_CCIV2	B	From Leg	4.000 0.000 0.000	0.000	50.000
CBRS RRRHRT4401- 48A	A	From Leg	4.000 0.000 0.000	0.000	50.000
CBRS RRRHRT4401- 48A	B	From Leg	4.000 0.000 0.000	0.000	50.000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft
CBRS RRHRT4401- 48A	C	From Leg	4.000 0.000 0.000	0.000	50.000
sitepro1 F3P-12W	C	None		0.000	50.000
sitepro1 F3P-HRK12	C	None		0.000	50.000
*					

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft
Dragonwave A-ANT-11G-4-C	A	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 3.000	-10.000		83.000	4.222
Andrew VHLP2-180	B	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 3.000	-40.000		83.000	2.000
Dragonwave A-ANT-11G-4-C	C	Paraboloid w/Shroud (HP)	From Leg	4.000 0.000 3.000	20.000		83.000	4.222
*								

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp

Comb. No.	Description
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	96 - 85	Pole	Max Tension	36	0.000	-0.000	-0.000
			Max. Compression	26	-13.938	0.407	0.908
			Max. Mx	20	-6.371	55.512	0.445
			Max. My	2	-6.374	0.300	55.389
			Max. Vy	8	7.826	-54.815	0.351
			Max. Vx	14	7.794	0.480	-54.804
			Max. Torque	24			0.900
L2	85 - 65	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-37.347	1.596	1.305
			Max. Mx	8	-18.438	-321.477	0.110
			Max. My	14	-18.439	2.628	-321.135
			Max. Vy	8	16.394	-321.477	0.110
			Max. Vx	14	16.362	2.628	-321.135
			Max. Torque	24			0.900
L3	65 - 32.5	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-64.854	2.610	1.056
			Max. Mx	8	-35.040	-1037.981	-1.196
			Max. My	14	-35.040	5.354	-1037.422
			Max. Vy	8	24.724	-1037.981	-1.196
			Max. Vx	14	24.689	5.354	-1037.422
			Max. Torque	20			-1.036
L4	32.5 - 0	Pole	Max Tension	1	0.000	0.000	0.000
			Max. Compression	26	-79.873	4.106	1.032
			Max. Mx	8	-46.647	-1875.334	-2.736
			Max. My	14	-46.647	7.866	-1874.279
			Max. Vy	8	26.716	-1875.334	-2.736
			Max. Vx	14	26.681	7.866	-1874.279
			Max. Torque	5			-0.749

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	36	79.873	8.511	0.022
	Max. H _x	20	46.657	26.599	0.102
	Max. H _z	2	46.657	-0.058	26.497

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Max. M _x	2	1859.956	-0.058	26.497
	Max. M _z	8	1875.334	-26.699	-0.043
	Max. Torsion	17	0.551	13.499	-23.320
	Min. Vert	25	34.992	13.404	22.909
	Min. H _x	8	46.657	-26.699	-0.043
	Min. H _z	14	46.657	0.061	-26.664
	Min. M _x	14	-1874.279	0.061	-26.664
	Min. M _z	20	-1869.998	26.599	0.102
	Min. Torsion	5	-0.748	-13.594	23.201

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	38.880	0.000	0.000	-0.106	1.396	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	46.657	0.058	-26.497	-1859.956	-4.203	-0.213
0.9 Dead+1.0 Wind 0 deg - No Ice	34.992	0.058	-26.497	-1852.992	-4.609	-0.211
1.2 Dead+1.0 Wind 30 deg - No Ice	46.657	13.594	-23.201	-1618.688	-950.461	0.746
0.9 Dead+1.0 Wind 30 deg - No Ice	34.992	13.594	-23.201	-1612.632	-947.345	0.748
1.2 Dead+1.0 Wind 60 deg - No Ice	46.657	23.643	-13.646	-951.209	-1645.012	-0.200
0.9 Dead+1.0 Wind 60 deg - No Ice	34.992	23.643	-13.646	-947.638	-1639.322	-0.196
1.2 Dead+1.0 Wind 90 deg - No Ice	46.657	26.699	0.043	2.736	-1875.334	-0.547
0.9 Dead+1.0 Wind 90 deg - No Ice	34.992	26.699	0.043	2.761	-1868.768	-0.544
1.2 Dead+1.0 Wind 120 deg - No Ice	46.657	23.176	13.403	942.492	-1628.110	0.027
0.9 Dead+1.0 Wind 120 deg - No Ice	34.992	23.176	13.403	939.013	-1622.465	0.028
1.2 Dead+1.0 Wind 150 deg - No Ice	46.657	13.502	23.031	1617.414	-949.407	0.175
0.9 Dead+1.0 Wind 150 deg - No Ice	34.992	13.502	23.031	1611.420	-946.291	0.174
1.2 Dead+1.0 Wind 180 deg - No Ice	46.657	-0.061	26.664	1874.279	7.866	0.100
0.9 Dead+1.0 Wind 180 deg - No Ice	34.992	-0.061	26.664	1867.326	7.407	0.098
1.2 Dead+1.0 Wind 210 deg - No Ice	46.657	-13.499	23.320	1628.806	945.567	-0.548
0.9 Dead+1.0 Wind 210 deg - No Ice	34.992	-13.499	23.320	1622.777	941.620	-0.551
1.2 Dead+1.0 Wind 240 deg - No Ice	46.657	-23.477	13.683	954.161	1633.877	0.080
0.9 Dead+1.0 Wind 240 deg - No Ice	34.992	-23.477	13.683	950.646	1627.382	0.077
1.2 Dead+1.0 Wind 270 deg - No Ice	46.657	-26.599	-0.102	-8.189	1869.998	0.733
0.9 Dead+1.0 Wind 270 deg - No Ice	34.992	-26.599	-0.102	-8.123	1862.603	0.731
1.2 Dead+1.0 Wind 300 deg - No Ice	46.657	-23.054	-13.267	-930.857	1620.880	0.119
0.9 Dead+1.0 Wind 300 deg - No Ice	34.992	-23.054	-13.267	-927.356	1614.414	0.117
1.2 Dead+1.0 Wind 330 deg - No Ice	46.657	-13.404	-22.909	-1607.032	944.186	-0.490
0.9 Dead+1.0 Wind 330 deg - No Ice	34.992	-13.404	-22.909	-1601.012	940.240	-0.489
1.2 Dead+1.0 Ice+1.0 Temp	79.873	0.000	0.000	-1.032	4.106	0.000

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	79.873	0.011	-8.486	-581.395	3.033	-0.007
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	79.873	4.285	-7.348	-503.656	-289.777	0.178
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	79.873	7.387	-4.261	-293.047	-501.634	-0.036
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	79.873	8.531	0.010	-0.407	-579.892	-0.127
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	79.873	7.400	4.276	291.748	-502.600	-0.021
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	79.873	4.299	7.367	502.935	-290.587	0.000
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	79.873	-0.011	8.521	582.274	5.476	-0.015
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	79.873	-4.266	7.373	503.670	296.571	-0.138
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	79.873	-7.353	4.269	291.571	507.132	0.009
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	79.873	-8.511	-0.022	-2.840	586.604	0.163
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	79.873	-7.376	-4.248	-291.428	508.906	0.049
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	79.873	-4.279	-7.342	-502.852	297.284	-0.068
Dead+Wind 0 deg - Service	38.880	0.015	-6.686	-468.476	-0.067	-0.051
Dead+Wind 30 deg - Service	38.880	3.430	-5.854	-407.715	-238.360	0.190
Dead+Wind 60 deg - Service	38.880	5.966	-3.443	-239.615	-413.268	-0.050
Dead+Wind 90 deg - Service	38.880	6.737	0.011	0.611	-471.276	-0.138
Dead+Wind 120 deg - Service	38.880	5.848	3.382	237.268	-409.016	0.005
Dead+Wind 150 deg - Service	38.880	3.407	5.811	407.239	-238.095	0.041
Dead+Wind 180 deg - Service	38.880	-0.015	6.728	471.923	2.965	0.023
Dead+Wind 210 deg - Service	38.880	-3.406	5.884	410.104	239.107	-0.140
Dead+Wind 240 deg - Service	38.880	-5.924	3.452	240.203	412.446	0.019
Dead+Wind 270 deg - Service	38.880	-6.712	-0.026	-2.135	471.912	0.186
Dead+Wind 300 deg - Service	38.880	-5.817	-3.348	-234.498	409.176	0.032
Dead+Wind 330 deg - Service	38.880	-3.382	-5.781	-404.784	238.759	-0.121

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-38.880	0.000	0.000	38.880	0.000	0.000%
2	0.058	-46.657	-26.497	-0.058	46.657	26.497	0.000%
3	0.058	-34.992	-26.497	-0.058	34.992	26.497	0.000%
4	13.594	-46.657	-23.201	-13.594	46.657	23.201	0.000%
5	13.594	-34.992	-23.201	-13.594	34.992	23.201	0.000%
6	23.643	-46.657	-13.646	-23.643	46.657	13.646	0.000%
7	23.643	-34.992	-13.646	-23.643	34.992	13.646	0.000%
8	26.699	-46.657	0.043	-26.699	46.657	-0.043	0.000%
9	26.699	-34.992	0.043	-26.699	34.992	-0.043	0.000%
10	23.176	-46.657	13.403	-23.176	46.657	-13.403	0.000%
11	23.176	-34.992	13.403	-23.176	34.992	-13.403	0.000%
12	13.502	-46.657	23.031	-13.502	46.657	-23.031	0.000%
13	13.502	-34.992	23.031	-13.502	34.992	-23.031	0.000%
14	-0.061	-46.657	26.664	0.061	46.657	-26.664	0.000%
15	-0.061	-34.992	26.664	0.061	34.992	-26.664	0.000%
16	-13.499	-46.657	23.320	13.499	46.657	-23.320	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
17	-13.499	-34.992	23.320	13.499	34.992	-23.320	0.000%
18	-23.477	-46.657	13.683	23.477	46.657	-13.683	0.000%
19	-23.477	-34.992	13.683	23.477	34.992	-13.683	0.000%
20	-26.599	-46.657	-0.102	26.599	46.657	0.102	0.000%
21	-26.599	-34.992	-0.102	26.599	34.992	0.102	0.000%
22	-23.054	-46.657	-13.267	23.054	46.657	13.267	0.000%
23	-23.054	-34.992	-13.267	23.054	34.992	13.267	0.000%
24	-13.404	-46.657	-22.909	13.404	46.657	22.909	0.000%
25	-13.404	-34.992	-22.909	13.404	34.992	22.909	0.000%
26	0.000	-79.873	0.000	0.000	79.873	0.000	0.000%
27	0.011	-79.873	-8.486	-0.011	79.873	8.486	0.000%
28	4.285	-79.873	-7.348	-4.285	79.873	7.348	0.000%
29	7.387	-79.873	-4.261	-7.387	79.873	4.261	0.000%
30	8.531	-79.873	0.010	-8.531	79.873	-0.010	0.000%
31	7.400	-79.873	4.276	-7.400	79.873	-4.276	0.000%
32	4.299	-79.873	7.367	-4.299	79.873	-7.367	0.000%
33	-0.011	-79.873	8.521	0.011	79.873	-8.521	0.000%
34	-4.266	-79.873	7.373	4.266	79.873	-7.373	0.000%
35	-7.353	-79.873	4.269	7.353	79.873	-4.269	0.000%
36	-8.511	-79.873	-0.022	8.511	79.873	0.022	0.000%
37	-7.376	-79.873	-4.248	7.376	79.873	4.248	0.000%
38	-4.279	-79.873	-7.342	4.279	79.873	7.342	0.000%
39	0.015	-38.880	-6.686	-0.015	38.880	6.686	0.000%
40	3.430	-38.880	-5.854	-3.430	38.880	5.854	0.000%
41	5.966	-38.880	-3.443	-5.966	38.880	3.443	0.000%
42	6.737	-38.880	0.011	-6.737	38.880	-0.011	0.000%
43	5.848	-38.880	3.382	-5.848	38.880	-3.382	0.000%
44	3.407	-38.880	5.811	-3.407	38.880	-5.811	0.000%
45	-0.015	-38.880	6.728	0.015	38.880	-6.728	0.000%
46	-3.406	-38.880	5.884	3.406	38.880	-5.884	0.000%
47	-5.924	-38.880	3.452	5.924	38.880	-3.452	0.000%
48	-6.712	-38.880	-0.026	6.712	38.880	0.026	0.000%
49	-5.817	-38.880	-3.348	5.817	38.880	3.348	0.000%
50	-3.382	-38.880	-5.781	3.382	38.880	5.781	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00003869
3	Yes	4	0.00000001	0.00002279
4	Yes	4	0.00000001	0.00040924
5	Yes	4	0.00000001	0.00026808
6	Yes	4	0.00000001	0.00041081
7	Yes	4	0.00000001	0.00026835
8	Yes	4	0.00000001	0.00005069
9	Yes	4	0.00000001	0.00003161
10	Yes	4	0.00000001	0.00039411
11	Yes	4	0.00000001	0.00025771
12	Yes	4	0.00000001	0.00038183
13	Yes	4	0.00000001	0.00024947
14	Yes	4	0.00000001	0.00003766
15	Yes	4	0.00000001	0.00002192
16	Yes	4	0.00000001	0.00038153
17	Yes	4	0.00000001	0.00024871
18	Yes	4	0.00000001	0.00038738
19	Yes	4	0.00000001	0.00025260
20	Yes	4	0.00000001	0.00006656
21	Yes	4	0.00000001	0.00004278
22	Yes	4	0.00000001	0.00038703
23	Yes	4	0.00000001	0.00025292
24	Yes	4	0.00000001	0.00040785
25	Yes	4	0.00000001	0.00026715
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00065686

28	Yes	4	0.00000001	0.00067743
29	Yes	4	0.00000001	0.00067706
30	Yes	4	0.00000001	0.00065333
31	Yes	4	0.00000001	0.00067512
32	Yes	4	0.00000001	0.00067434
33	Yes	4	0.00000001	0.00065536
34	Yes	4	0.00000001	0.00068041
35	Yes	4	0.00000001	0.00068095
36	Yes	4	0.00000001	0.00066227
37	Yes	4	0.00000001	0.00068429
38	Yes	4	0.00000001	0.00068235
39	Yes	4	0.00000001	0.00000611
40	Yes	4	0.00000001	0.00001195
41	Yes	4	0.00000001	0.00001182
42	Yes	4	0.00000001	0.00000649
43	Yes	4	0.00000001	0.00001116
44	Yes	4	0.00000001	0.00001079
45	Yes	4	0.00000001	0.00000604
46	Yes	4	0.00000001	0.00001088
47	Yes	4	0.00000001	0.00001101
48	Yes	4	0.00000001	0.00000695
49	Yes	4	0.00000001	0.00001114
50	Yes	4	0.00000001	0.00001209

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	96 - 85	3.996	41	0.339	0.002
L2	85 - 65	3.246	41	0.283	0.000
L3	65 - 32.5	2.099	41	0.259	0.000
L4	32.5 - 0	0.605	41	0.162	0.000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
92.000	DMP65R-BU8D w/ Mount Pipe	41	3.717	0.316	0.001	25571
86.000	Dragonwave A-ANT-11G-4-C	41	3.311	0.286	0.000	13667
83.000	APXVSPP18-C-A20 w/ Mount Pipe	41	3.120	0.276	0.000	13174
79.000	PCS 1900MHZ 4x45W-65MHZ	41	2.876	0.268	0.000	16122
73.000	AIR 6419 B41_TMO w/ Mount Pipe	41	2.533	0.263	0.000	26302
65.000	MX08FRO665-21 w/ Mount Pipe	41	2.099	0.259	0.000	82834
57.000	GPS_A	41	1.676	0.247	0.000	33129
50.000	NHHSS-65B-R2BT4 w/ Mount Pipe	41	1.325	0.229	0.000	19556

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	96 - 85	15.899	6	1.348	0.006
L2	85 - 65	12.918	6	1.125	0.002
L3	65 - 32.5	8.351	6	1.032	0.001
L4	32.5 - 0	2.407	6	0.645	0.000

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
92.000	DMP65R-BU8D w/ Mount Pipe	6	14.789	1.256	0.004	6532
86.000	Dragonwave A-ANT-11G-4-C	6	13.176	1.140	0.002	3491
83.000	APXVSPP18-C-A20 w/ Mount Pipe	6	12.413	1.100	0.001	3365
79.000	PCS 1900MHZ 4x45W-65MHZ	6	11.446	1.068	0.001	4116
73.000	AIR 6419 B41_TMO w/ Mount Pipe	6	10.080	1.047	0.001	6700
65.000	MX08FRO665-21 w/ Mount Pipe	6	8.351	1.032	0.001	20902
57.000	GPS_A	6	6.670	0.983	0.001	8333
50.000	NHHSS-65B-R2BT4 w/ Mount Pipe	6	5.272	0.912	0.001	4914

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	96 - 85 (1)	P12x3/8	11.000	0.000	0.0	14.579	-6.373	459.237	0.014
L2	85 - 65 (2)	P42x3/8	20.000	0.000	0.0	49.038	-18.433	1668.870	0.011
L3	65 - 32.5 (3)	P48x3/8	32.500	0.000	0.0	56.107	-35.032	1847.490	0.019
L4	32.5 - 0 (4)	P48x1/2	32.500	0.000	0.0	74.613	-46.647	2649.060	0.018

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{nx} kip-ft	Ratio M _{ux} / φM _{nx}	M _{uy} kip-ft	φM _{ny} kip-ft	Ratio M _{uy} / φM _{ny}
L1	96 - 85 (1)	P12x3/8	55.561	150.794	0.368	0.000	150.794	0.000
L2	85 - 65 (2)	P42x3/8	323.024	1796.558	0.180	0.000	1796.558	0.000
L3	65 - 32.5 (3)	P48x3/8	1047.075	2321.108	0.451	0.000	2321.108	0.000
L4	32.5 - 0 (4)	P48x1/2	1900.225	3173.467	0.599	0.000	3173.467	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V _u K	φV _n K	Ratio V _u / φV _n	Actual T _u kip-ft	φT _n kip-ft	Ratio T _u / φT _n
L1	96 - 85 (1)	P12x3/8	7.649	137.771	0.056	0.900	149.893	0.006
L2	85 - 65 (2)	P42x3/8	16.493	536.589	0.031	0.537	1509.600	0.000
L3	65 - 32.5 (3)	P48x3/8	25.090	555.429	0.045	0.200	1787.842	0.000
L4	32.5 - 0 (4)	P48x1/2	27.316	846.109	0.032	0.200	3397.483	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	96 - 85 (1)	0.014	0.368	0.000	0.056	0.006	0.386	1.050	4.8.2
L2	85 - 65 (2)	0.011	0.180	0.000	0.031	0.000	0.192	1.050	4.8.2
L3	65 - 32.5 (3)	0.019	0.451	0.000	0.045	0.000	0.472	1.050	4.8.2
L4	32.5 - 0 (4)	0.018	0.599	0.000	0.032	0.000	0.617	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	96 - 85	Pole	P12x3/8	1	-6.373	482.199	36.8	Pass	
L2	85 - 65	Pole	P42x3/8	2	-18.433	1752.313	18.3	Pass	
L3	65 - 32.5	Pole	P48x3/8	3	-35.032	1939.864	45.0	Pass	
L4	32.5 - 0	Pole	P48x1/2	4	-46.647	2781.513	58.8	Pass	
							Summary		
							Pole (L4)	58.8	Pass
							RATING =	58.8	Pass

APPENDIX B
BASE LEVEL DRAWING



(OTHER CONSIDERED EQUIPMENT—IN CONDUIT)
(2) 3/8" TO 92 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(1) 3/8" TO 92 FT LEVEL
(6) 13/16" TO 92 FT LEVEL
(1) 7/8" TO 92 FT LEVEL
(6) 1-5/8" TO 92 FT LEVEL

(OTHER CONSIDERED EQUIPMENT—IN CONDUITS)
(6) 5/16" TO 83 FT LEVEL
(OTHER CONSIDERED EQUIPMENT)
(3) 1/2" TO 83 FT LEVEL

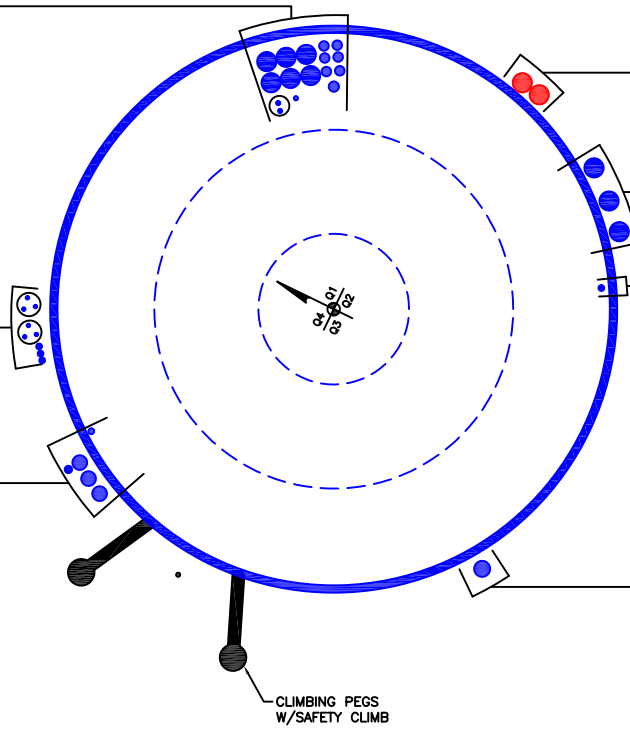
(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 83 FT LEVEL
(1) 5/8" TO 83 FT LEVEL
(3) 1 1/4" TO 83 FT LEVEL

(PROPOSED EQUIPMENT CONFIGURATION)
(2) 1-5/8" TO 50 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(3) 1-5/8" TO 73 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(1) 1/2" TO 57 FT LEVEL

(OTHER CONSIDERED EQUIPMENT)
(1) 1-3/8" TO 65 FT LEVEL



APPENDIX C

ADDITIONAL CALCULATIONS

Monopole Flange Plate Connection

Elevation = 85 ft.

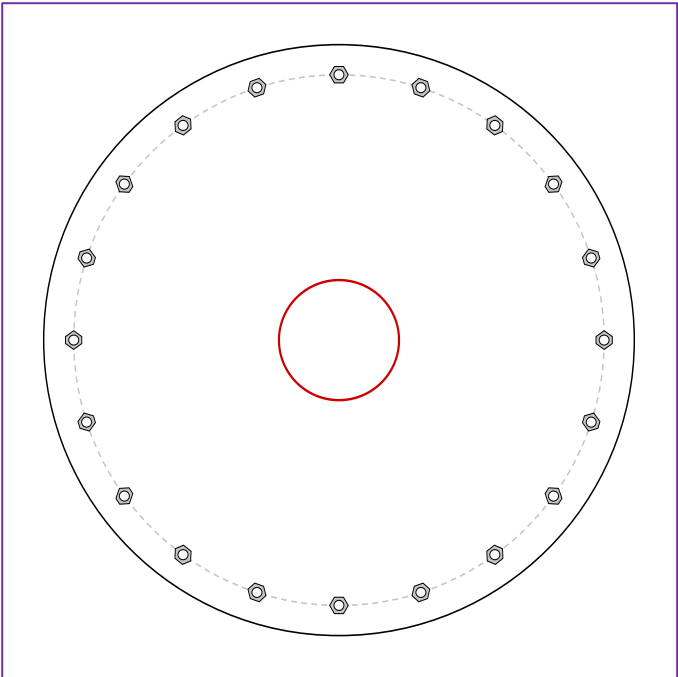


BU #	876326
Site Name	Hayden Station
Order #	646027 Rev 0
TIA-222 Revision	H

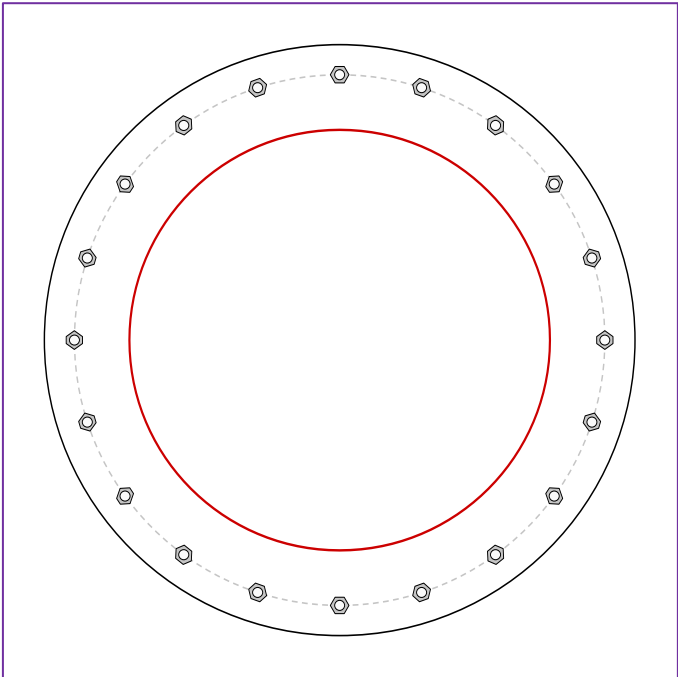
Applied Loads	
Moment (kip-ft)	55.63
Axial Force (kips)	6.37
Shear Force (kips)	7.70

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



Connection Properties	
Bolt Data	

(20) 1" $\varnothing$ bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 53" BC

Top Plate Data	
59" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)	

Top Stiffener Data	
N/A	

Top Pole Data	
12" x 0.375" round pole (A53-B-35; Fy=35 ksi, Fu=60 ksi)	

Bottom Plate Data	
59" OD x 1" Plate (A36; Fy=36 ksi, Fu=58 ksi)	

Bottom Stiffener Data	
N/A	

Bottom Pole Data	
42" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)	

Analysis Results	
Bolt Capacity	

Max Load (kips)	2.20
Allowable (kips)	54.54
Stress Rating:	3.8% Pass

Top Plate Capacity	
Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	Rohn OK
Tension Side Stress Rating:	Rohn OK

Bottom Plate Capacity	
Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	Rohn OK
Tension Side Stress Rating:	Rohn OK

Monopole Flange Plate Connection

Elevation = 65 ft.

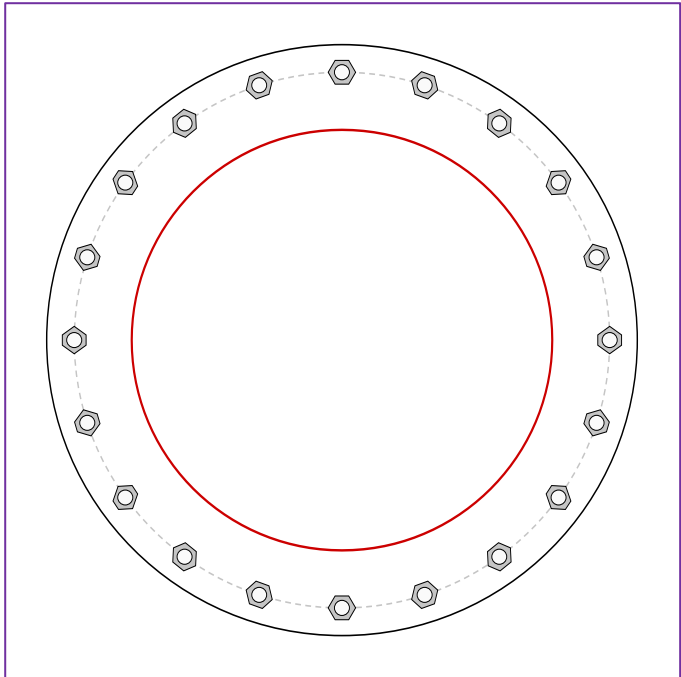


BU #	876326
Site Name	Hayden Station
Order #	646027 Rev 0
TIA-222 Revision	H

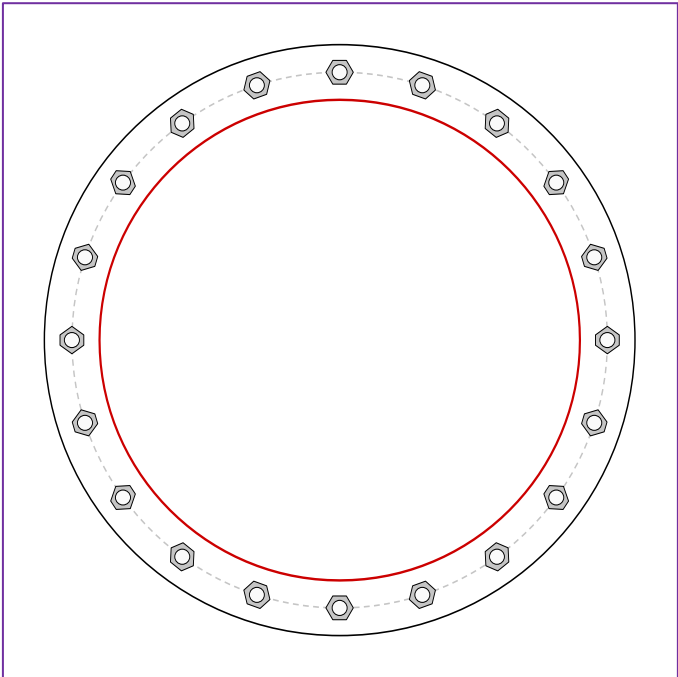
Applied Loads	
Moment (kip-ft)	323.10
Axial Force (kips)	21.66
Shear Force (kips)	19.10

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(20) 1-1/2" $\varnothing$ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 53.5" BC

Top Plate Data

59" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Top Pole Data

42" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Plate Data

59" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

48" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	13.41
Allowable (kips)	126.89
Stress Rating:	10.1% Pass

Top Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	Rohn OK
Tension Side Stress Rating:	Rohn OK

Bottom Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	Rohn OK
Tension Side Stress Rating:	Rohn OK

Monopole Flange Plate Connection

Elevation = 32.5 ft.

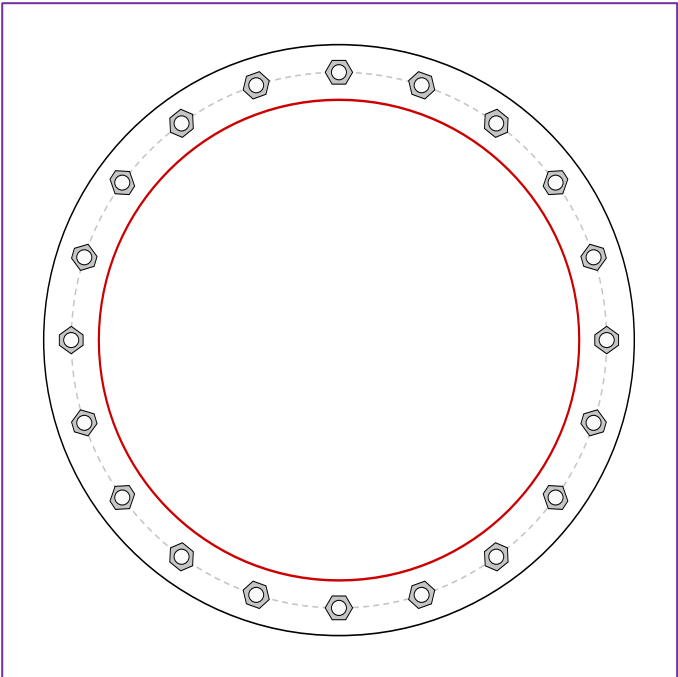


BU #	876326
Site Name	Hayden Station
Order #	646027 Rev 0
TIA-222 Revision	H

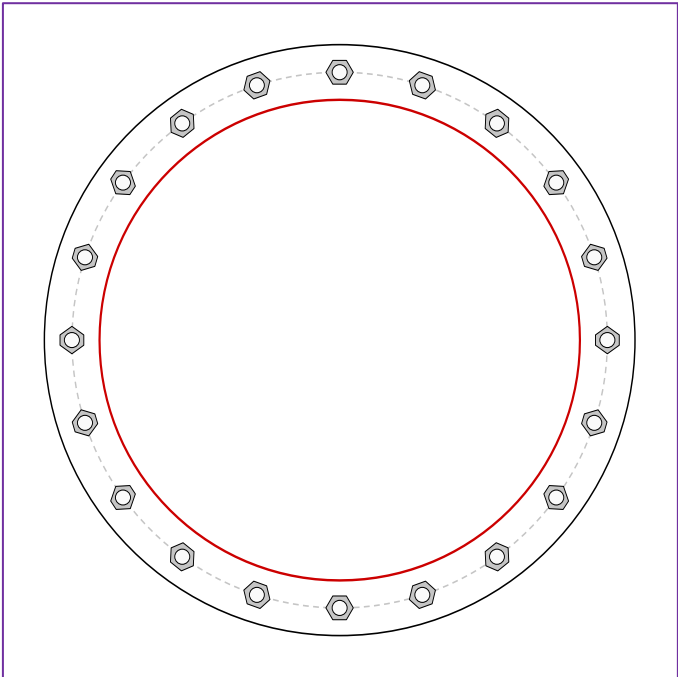
Applied Loads	
Moment (kip-ft)	1047.08
Axial Force (kips)	35.03
Shear Force (kips)	25.09

*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - External



Connection Properties

Bolt Data

(20) 1-1/2" $\varnothing$ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 53.5" BC

Top Plate Data

59" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Top Pole Data

48" x 0.375" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Plate Data

59" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Stiffener Data

N/A

Bottom Pole Data

48" x 0.5" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	45.21
Allowable (kips)	126.88
Stress Rating:	33.9% Pass

Top Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	Rohn OK
Tension Side Stress Rating:	Rohn OK

Bottom Plate Capacity

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	Rohn OK
Tension Side Stress Rating:	Rohn OK

Monopole Base Plate Connection

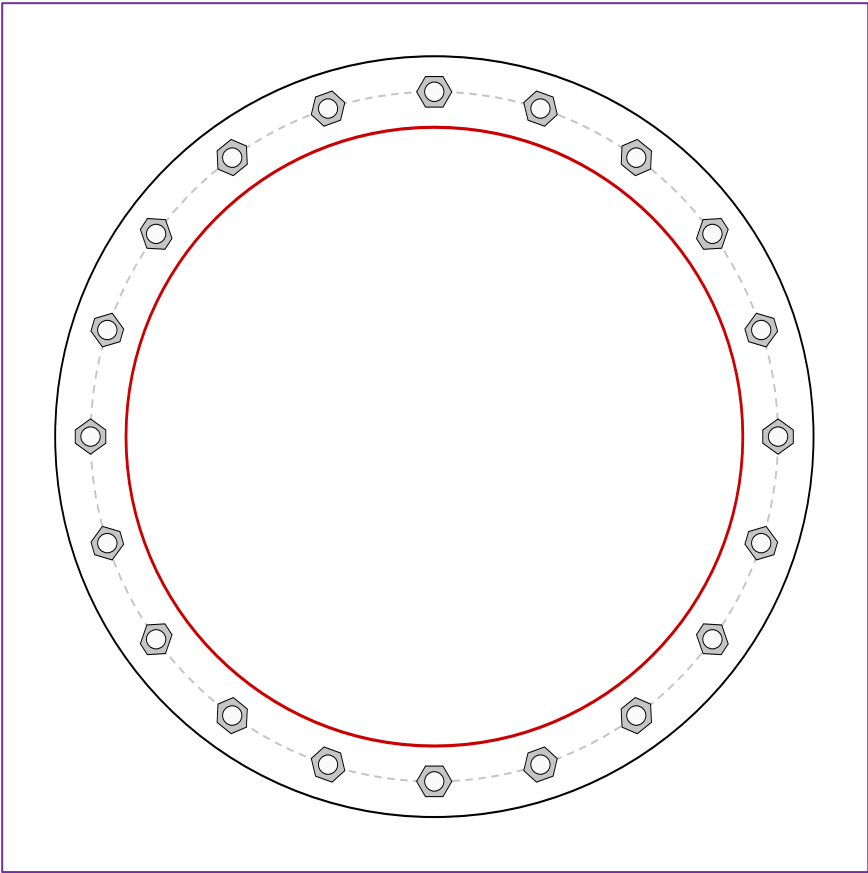


Site Info	
BU #	876326
Site Name	Hayden Station
Order #	646027 Rev 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	Yes
l_{ar} (in)	1.125

Applied Loads	
Moment (kip-ft)	1900.23
Axial Force (kips)	46.65
Shear Force (kips)	27.32

*TIA-222-H Section 15.5 Applied



Connection Properties		Analysis Results	
Anchor Rod Data		Anchor Rod Summary <i>(units of kips, kip-in)</i>	
(20) 1-1/2" ϕ bolts (A354-BC N; Fy=109 ksi, Fu=125 ksi) on 53.5" BC		$Pu_t = 82.88$	$\phi Pn_t = 132.19$ Stress Rating
Base Plate Data		$Vu = 1.37$	$\phi Vn = 82.83$ 59.7%
59" OD x 2" Plate (A36; Fy=36 ksi, Fu=58 ksi)		$Mu = n/a$	$\phi Mn = n/a$ Pass
Stiffener Data		Base Plate Summary	
N/A		Max Stress (ksi):	-
Pole Data		Allowable Stress (ksi):	-
48" x 0.5" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)		Stress Rating:	Rohn OK

Drilled Pier Foundation

BU # :	876326
Site Name:	Hayden Station
Order Number:	646027 Rev 0
TIA-222 Revision:	H
Tower Type:	Monopole

Applied Loads		
	Comp.	Uplift
Moment (kip-ft)	1900.23	
Axial Force (kips)	46.66	
Shear Force (kips)	27.3	

Material Properties		
Concrete Strength, f'c:	3	ksi
Rebar Strength, Fy:	60	ksi
Tie Yield Strength, Fyt:	40	ksi

Pier Design Data		
Depth	30	ft
Ext. Above Grade	0.5	ft
Pier Section 1		
From 0.5' above grade to 30' below grade		
Pier Diameter	7	ft
Rebar Quantity	24	
Rebar Size	10	
Clear Cover to Ties	3	in
Tie Size	5	
Tie Spacing		in

[Rebar & Pier Options](#)

[Embedded Pole Inputs](#)

[Belled Pier Inputs](#)

Analysis Results		
Soil Lateral Check		
	Compression	Uplift
D _{v=0} (ft from TOC)	8.72	-
Soil Safety Factor	8.23	-
Max Moment (kip-ft)	2084.08	-
Rating*	15.4%	-
Soil Vertical Check		
	Compression	Uplift
Skin Friction (kips)	779.69	-
End Bearing (kips)	272.47	-
Weight of Concrete (kips)	211.28	-
Total Capacity (kips)	1052.16	-
Axial (kips)	257.94	-
Rating*	23.3%	-
Reinforced Concrete Flexure		
	Compression	Uplift
Critical Depth (ft from TOC)	8.75	-
Critical Moment (kip-ft)	2084.08	-
Critical Moment Capacity	4933.76	-
Rating*	40.2%	-
Reinforced Concrete Shear		
	Compression	Uplift
Critical Depth (ft from TOC)	22.49	-
Critical Shear (kip)	205.45	-
Critical Shear Capacity	523.11	-
Rating*	37.4%	-

Structural Foundation Rating*	40.2%
Soil Interaction Rating*	23.3%

*Rating per TIA-222-H Section 15.5



Check Limitation	
Apply TIA-222-H Section 15.5:	☒
N/A	☐
Additional Longitudinal Rebar	
Input Effective Depths (else Actual):	☐
Shear Design Options	
Check Shear along Depth of Pier:	☒
Utilize Shear-Friction Methodology:	☐
Override Critical Depth:	☐

[Go to Soil Calculations](#)

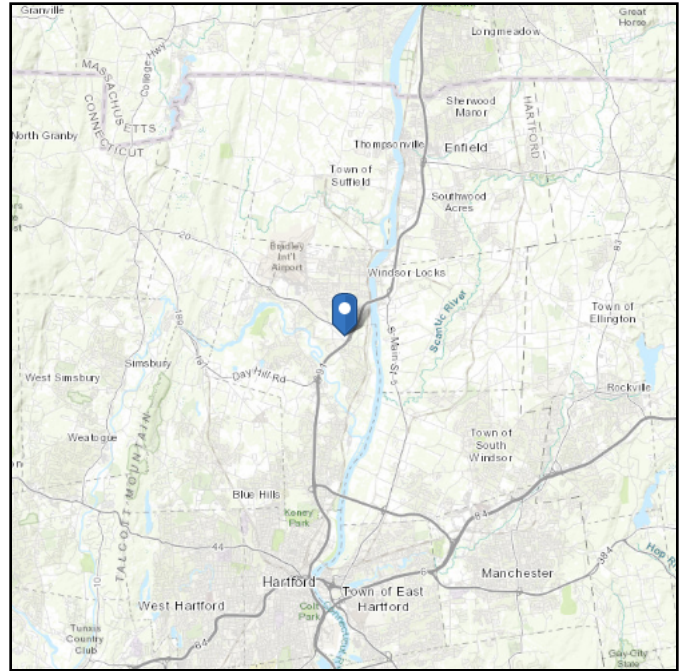
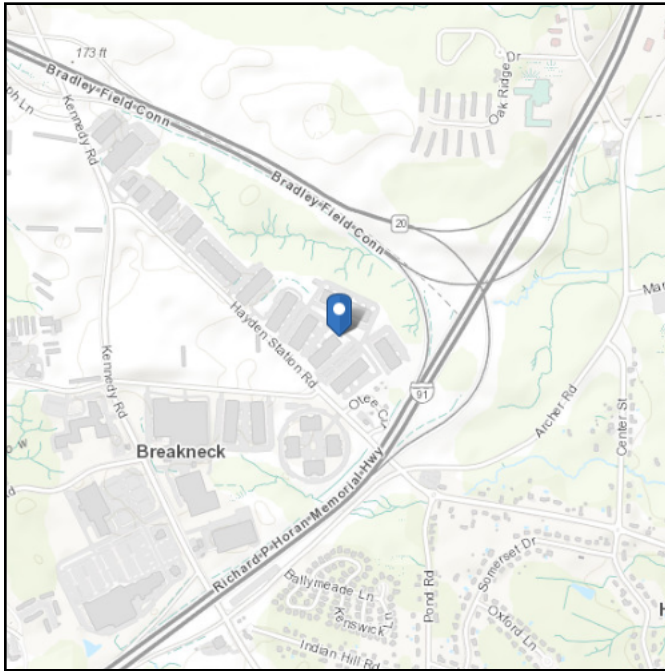
Soil Profile														
Groundwater Depth		N/A		# of Layers		3								
Layer	Top (ft)	Bottom (ft)	Thickness (ft)	Y _{soil} (pcf)	Y _{concrete} (pcf)	Cohesion (ksf)	Angle of Friction (degrees)	Calculated Ultimate Skin Friction Comp (ksf)	Calculated Ultimate Skin Friction Uplift (ksf)	Ultimate Skin Friction Comp Override (ksf)	Ultimate Skin Friction Uplift Override (ksf)	Ult. Gross Bearing Capacity (ksf)	SPT Blow Count	Soil Type
1	0	3.5	3.5	120	150	0	0	0.000	0.000	0.00	0.00			Cohesionless
2	3.5	20	16.5	120	150	0	32	1.365	1.365				14	Cohesionless
3	20	30	10	120	150	0	32	2.475	2.475			9.44	16	Cohesionless

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: 41.897833
Longitude: -72.644083
Elevation: 141.24 ft (NAVD 88)



Wind

Results:

Wind Speed	116 Vmph
10-year MRI	75 Vmph
25-year MRI	83 Vmph
50-year MRI	90 Vmph
100-year MRI	97 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: Thu Feb 23 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).

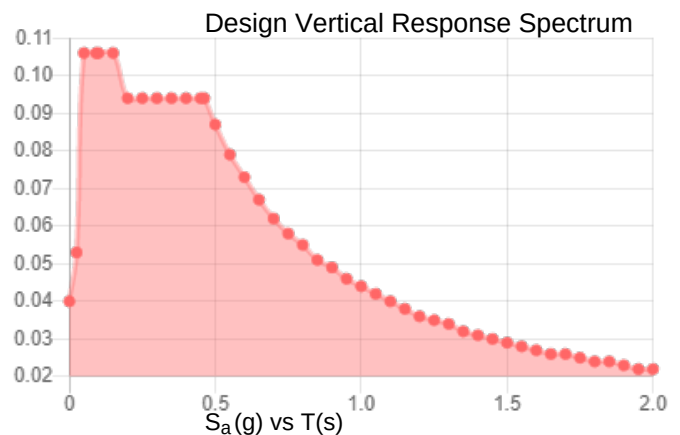
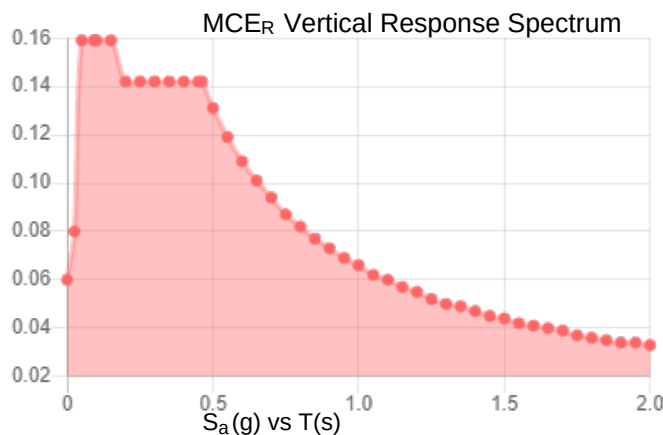
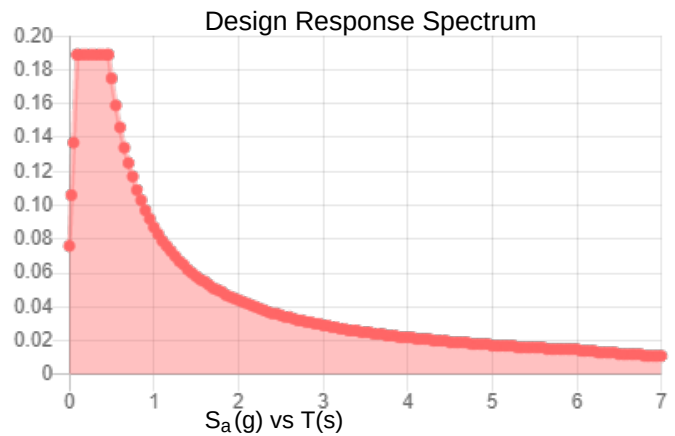
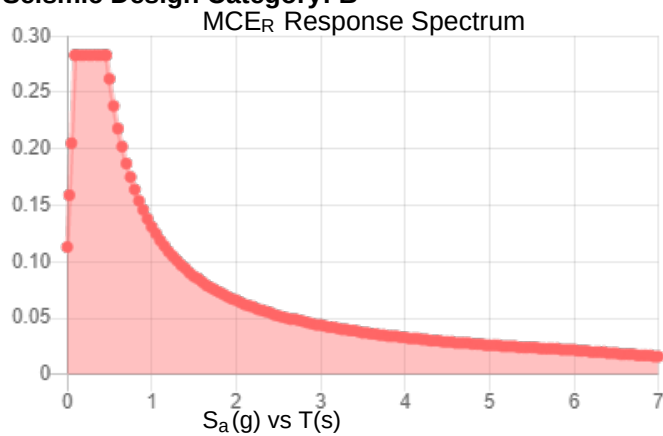
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class:

Results:

S_S :	0.177	S_{D1} :	0.087
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.094
F_v :	2.4	PGA _M :	0.15
S_{MS} :	0.283	F_{PGA} :	1.6
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.189	C_v :	0.7

Seismic Design Category: B



Data Accessed:

Thu Feb 23 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: 1.50 in.
Concurrent Temperature: 5 F
Gust Speed 50 mph

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

Date Accessed: Thu Feb 23 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.

The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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ATTACHMENT 5

Date: March 2, 2023



MTS Engineering, P.L.L.C.
1717 S. Boulder, Suite 300
Tulsa, OK 74119
(918) 587-4630
towersupport@btgrp.com

Subject:	Mount Analysis - Conditional Passing Report		
Carrier Designation:	Verizon Wireless Equipment Co-Locate		
	Carrier Site Number:	720913	
	Carrier Site Name:	Windsor NE CT	
Crown Castle Designation:	BU Number:	876326	
	Site Name:	Hayden Station	
	JDE Job Number:	715500	
	Order Number:	615099, Rev. 0	
Engineering Firm Designation:	Report Designation:	136354.013.01.0001A	
Site Data:	440 Hayden Station Road, Windsor, CT, Hartford County, 06095 Latitude 41° 53' 52.20" Longitude -72° 38' 38.70"		
Structure Information:	Tower Height & Type:	96 ft. Monopole	
	Mount Elevation:	50 ft.	
	Mount Type:	12.5 ft. Platform Mount	

We are pleased to submit this “**Mount Analysis - Conditional Passing Report**” to determine the structural integrity of Verizon Wireless’s antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

The purpose of the analysis is to determine acceptability of the mount’s stress level. Based on our analysis we have determined the stress level to be:

Platform Mount

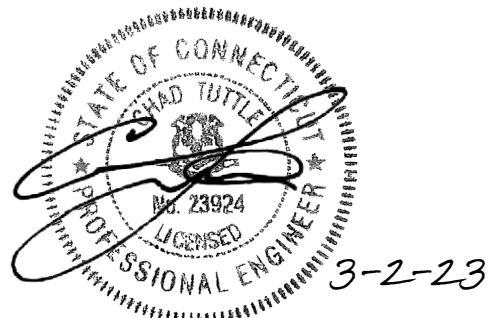
Sufficient

*The capacities listed are based on recommendations listed in Sec.4.1 being installed.

This analysis utilizes an ultimate 3-second gust wind speed of 116 mph as required by the 2022 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount structural analysis prepared by: Isaac Fulton

Respectfully submitted by: MTS Engineering, P.L.L.C.
COA: BER:2386985 Expires: 3/31/2023



Chad E. Tuttle, P.E.

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8) APPENDIX D

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Supplemental Drawings

1) INTRODUCTION

This is a proposed 3 - sector 12.5' Platform Mount, designed by SitePro1 (Part# F3P-12W) with Support Rail SitePro1 (Part# F3P-HRK-12) and SitePro1 (Part# RM3-LPK) Large-Pole Adapter Kit.

2) ANALYSIS CRITERIA

Building Code:	2022 Connecticut State Building Code
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	116 mph
Exposure Category:	C
Topographic Factor at Base:	1
Topographic Factor at Mount:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic S_s :	0.177
Seismic S_1 :	0.055
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb.
Man Live Load at Mount Pipes:	500 lb.

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft.)	Antenna Centerline (ft.)	Number of Antennas	Manufacturer	Model / Type	Mount / Modification Details
50	50	3	Commscope	NHHS4-65B-R3B	12.5' Platform Mount
		3	Commscope	NHHSS-65B-R2BT4	
		3	Samsung	MT6407-77A	
		1	Raycap	RVZDC-6627-PF-48_CCIV2	
		3	Samsung	CBRS RRHRT4401- 48A	
		3	Samsung	RF4402D-D1A	
		3	Samsung	RF4439D-25A	

Table 2 - Documents Provided

Document	Remarks	Reference	Source
CCI Order	Existing Loading Proposed Loading	Date: 06/23/2022	Crown Castle
RFDS		Date: 06/09/2022	
Mount Manufacturer Drawing	SitePro1 (Part# F3P-12W) SitePro1 (Part# F3P-HRK-12) SitePro1 (Part # RM3-LPK)	Date: 08/30/2017 Date: 09/14/2017 Date: 08/30/2017	SitePro1

3) ANALYSIS PROCEDURE

3.1) Analysis Method

RISA-3D (Version 20.0.3), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases.

A tool internally developed by MTS Engineering, P.L.L.C., was used to calculate wind loading on all appurtenances, dishes and mount members for various loading cases. Selected output from the analysis is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 *Mount Analysis* (Revision E). In addition, this analysis is in accordance with OTHER SOW.

Manufacturers drawing were used to create the model.

3.2) Assumptions

1. The antenna mounting system was properly fabricated, installed and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's specifications.
2. The configuration of antennas, mounts, and other appurtenances are as specified in Table-1.
3. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected members unless otherwise specified in this report.
4. Mount areas and weights are determined from field measurements, standard material properties, and/or manufacturer product data.

The following assumptions have been included in the analysis of the mount

Component	Section	Length	Note
Proposed Mount Pipe for New Antenna	2" Std. Pipe	10'-0"	All Positions, All Sectors

5. Serviceability with respect to antenna twist, tilt, roll or lateral translation is not checked and is left to the carrier or tower owner to ensure conformance.
6. Prior structural modifications to the tower mounting system are assumed to be installed as shown per available data.
7. The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
8. The following material grades were assumed (Unless Noted Otherwise):
 - (a) Connection Bolts : ASTM A325
 - (b) Steel Pipe : ASTM A53 (GR. 35)
 - (c) HSS (Round) : ASTM 500 (GR. B-42)
 - (d) HSS (Rectangular) : ASTM 500 (GR. B-46)
 - (e) Channel : ASTM A36 (GR. 36)
 - (f) Steel Solid Rod : ASTM A36 (GR. 36)
 - (g) Steel Plate : ASTM A36 (GR. 36)
 - (h) Steel Angle : ASTM A36 (GR. 36)
 - (i) UNISTRUT : ASTM A570 (GR. 33)

This analysis may be affected if any assumptions are not valid or have been made in error. MTS Engineering, P.L.L.C. should be notified to determine the effect on the structural integrity of the antenna mounting system.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (Platform Mount)

Notes	Component	Centerline (ft.)	Critical Member	% Capacity	Pass / Fail
1,2	Main Horizontals	50	2	25.5	Pass
	Mount Pipes		252	48.2	Pass
	Chord Plates		253	38.5	Pass
	Web Vertical Plates		290	1.5	Pass
	Web Diagonal Plates		274	34.1	Pass
	PF Angles		21	43.6	Pass
	PJ Plates		27	21.6	Pass
	PS Tubes		42	14.5	Pass
	PB Plates		8	11.7	Pass
	Web Chord Plates		267	40.8	Pass
	Support Rails		190	28.7	Pass
	Walkways		213	14.3	Pass
	Connection WT		195	14.7	Pass
	Walkway Plates		196	6.5	Pass
3	Mount to Tower Connection		-	49.4	Pass

Structure Rating with Recommendations (max from all components) =	49.4%
--	--------------

Notes:

- 1) Capacities listed are based on recommendations listed in Sec.4.1 being installed.
- 2) See additional documentation in "Appendix C - Software Analysis Output" for calculations supporting the % capacity consumed.
- 3) See additional documentation in "Appendix D - Additional Calculations" for calculations supporting the % capacity reported.

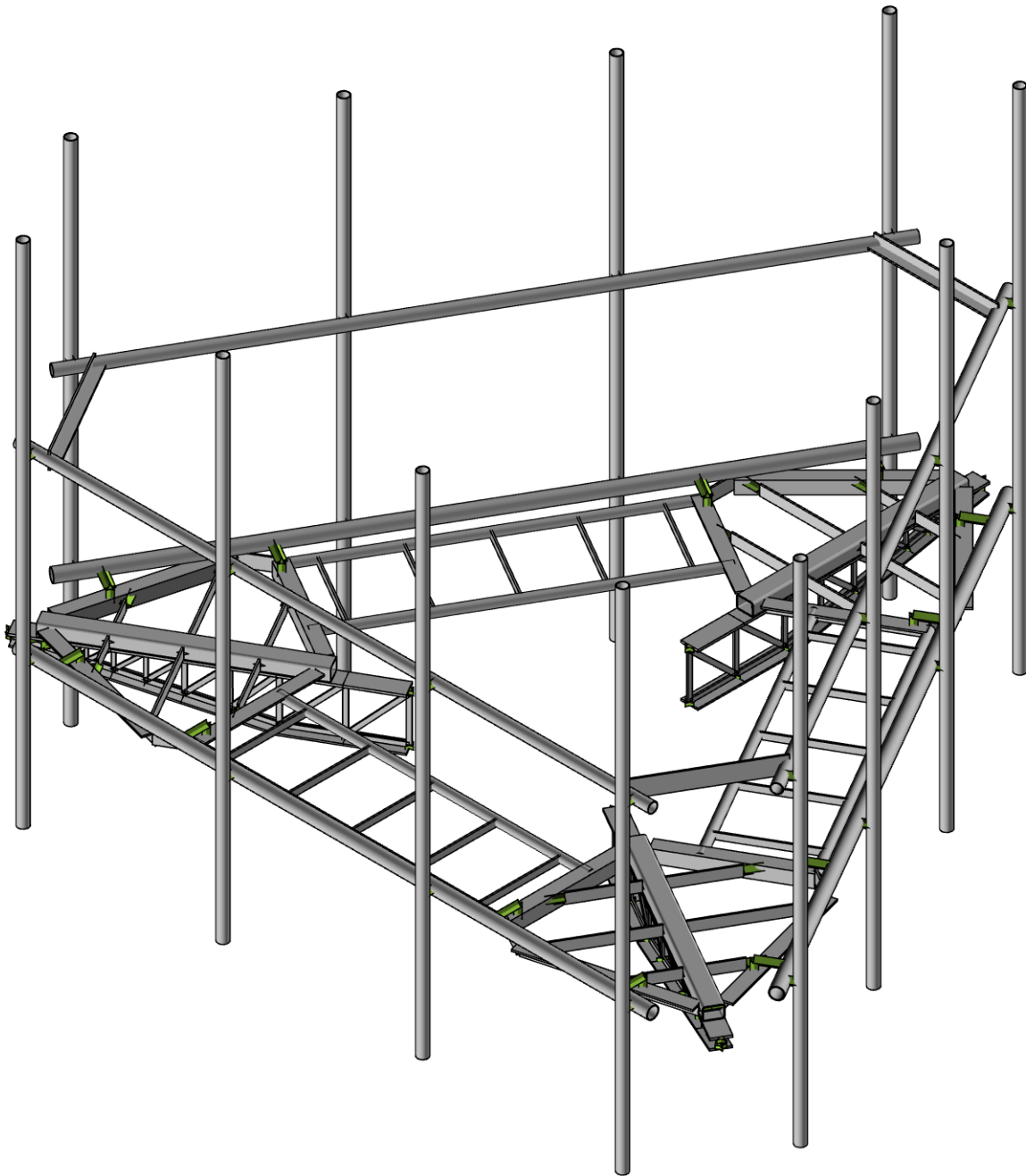
4.1) Recommendations

The mount has sufficient capacity to carry the proposed loading configuration. In order for the results of the analysis to be considered valid, the structural modification listed below must be completed.

1. Install Proposed Mount, SitePro1 (Part# F3P-12W) with Support Rail SitePro1 (Part# F3P-HRK-12) and SitePro1 (Part # RM3-LPK) Large-Pole Adapter Kit.

No modifications are required at this time provided that the above-listed changes are completed.

APPENDIX A
WIRE FRAME AND RENDERED MODELS



Envelope Only Solution

MTS Engineering, P.L.L.C.

MP

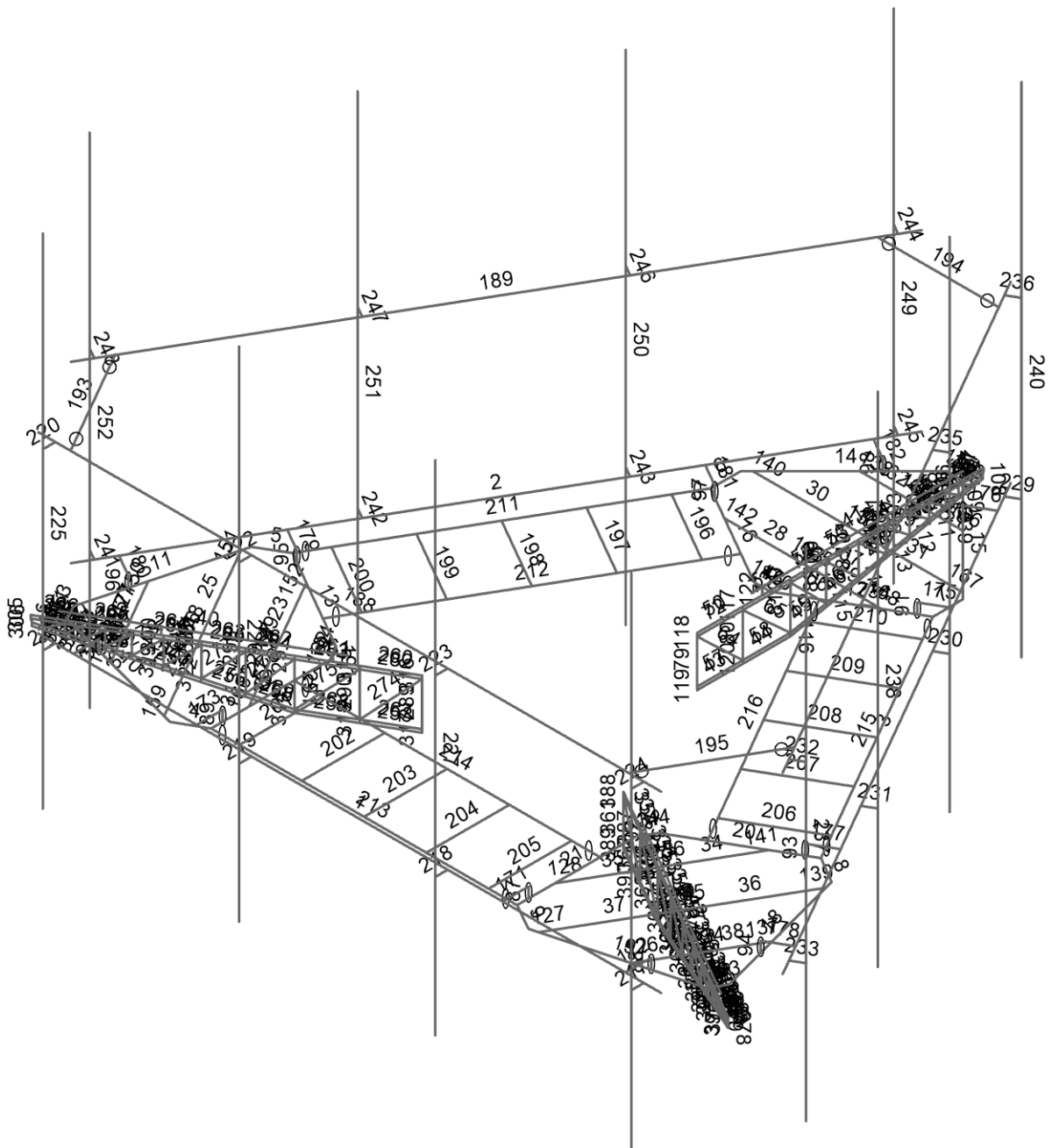
136354.013.01.0001

876326 - Hayden Station

SK-1

Oct 01, 2022

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Envelope Only Solution

MTS Engineering, P.L.L.C.

MP

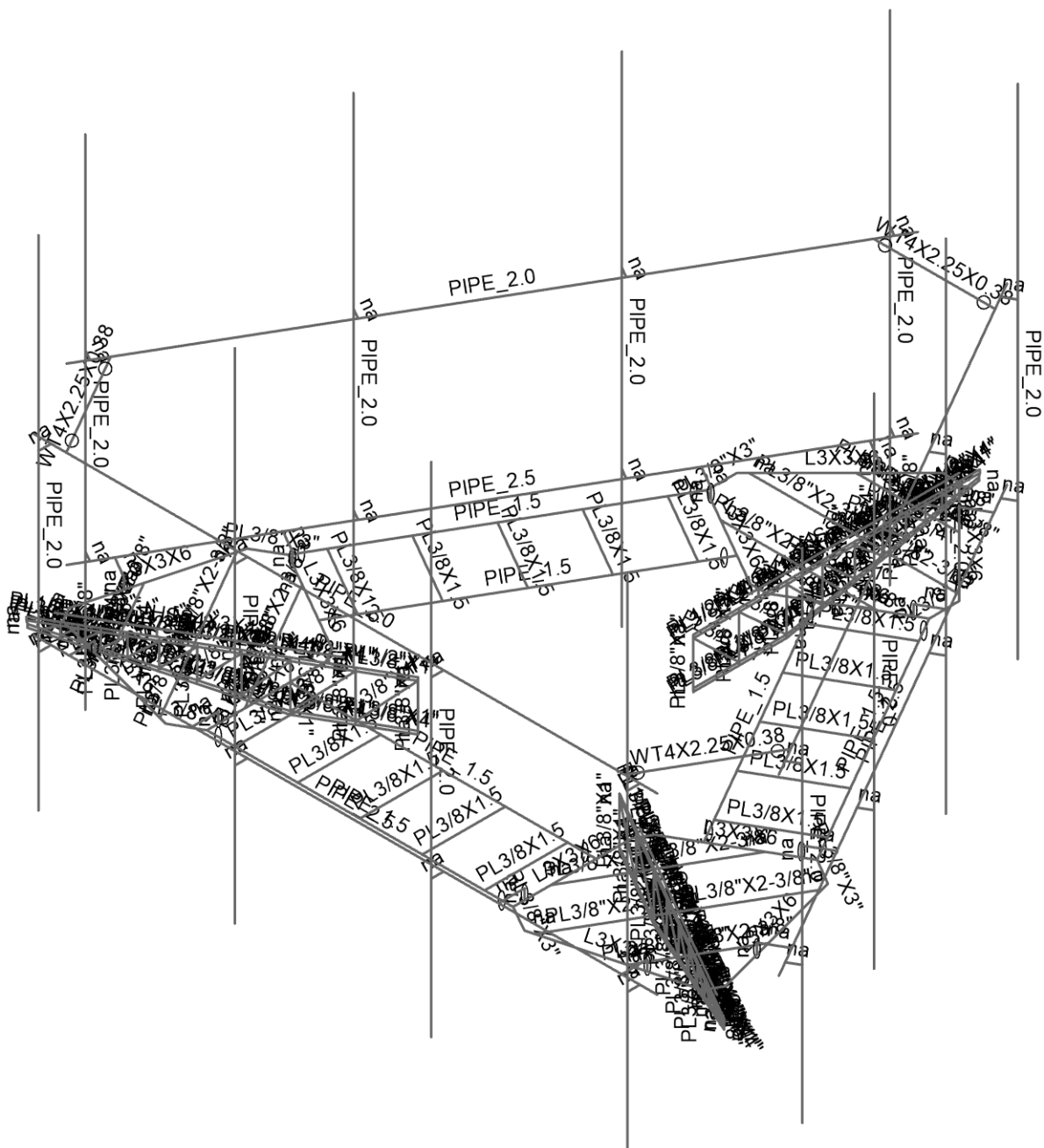
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876326 - Hayden Station

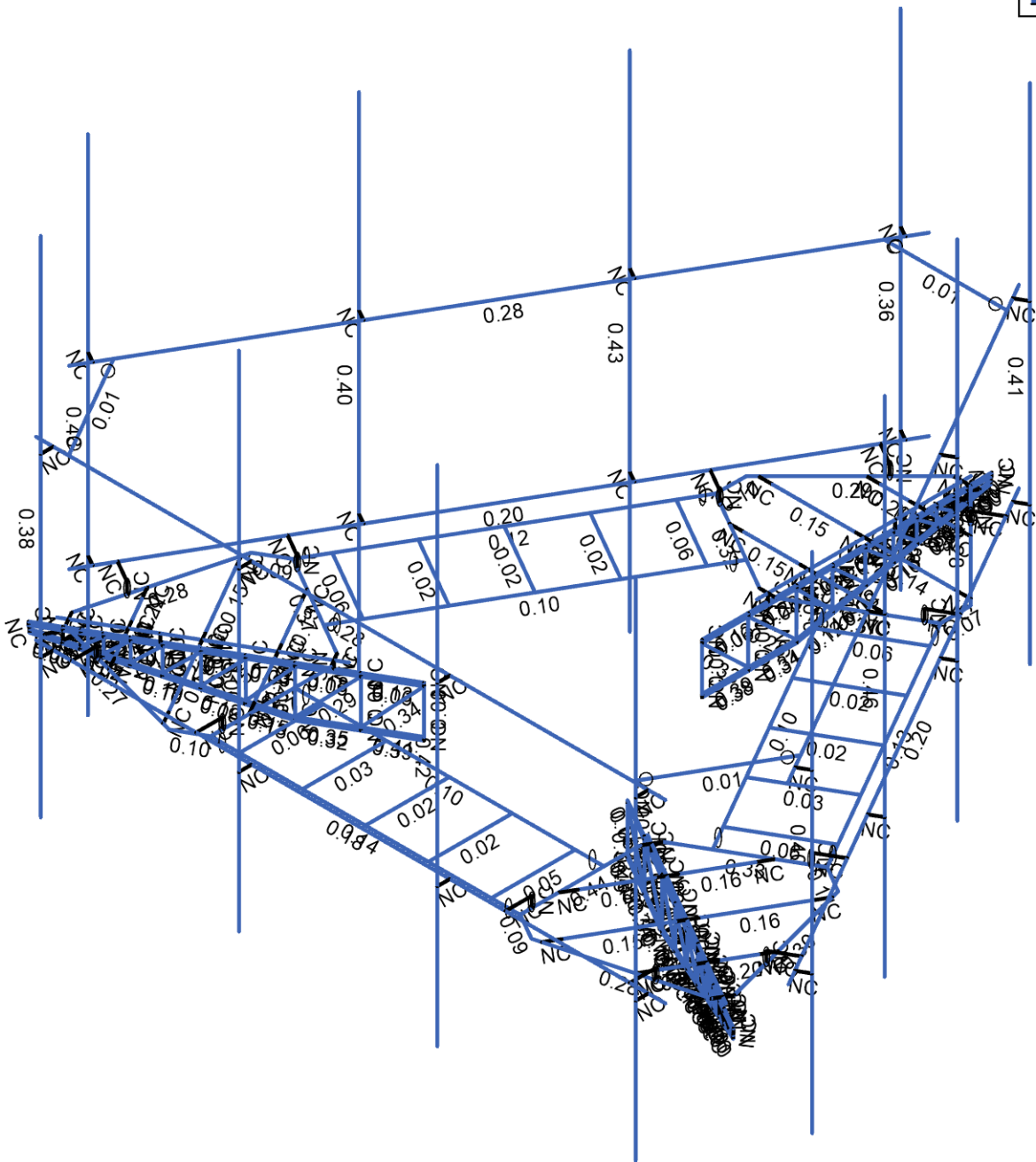
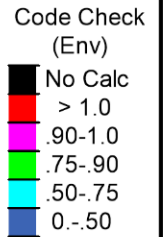
SK-2

Oct 01, 2022

136354_013_01_0001_Hayden St...



136354_013_01_0001_Hayden St...



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

MTS Engineering, P.L.L.C.

MP

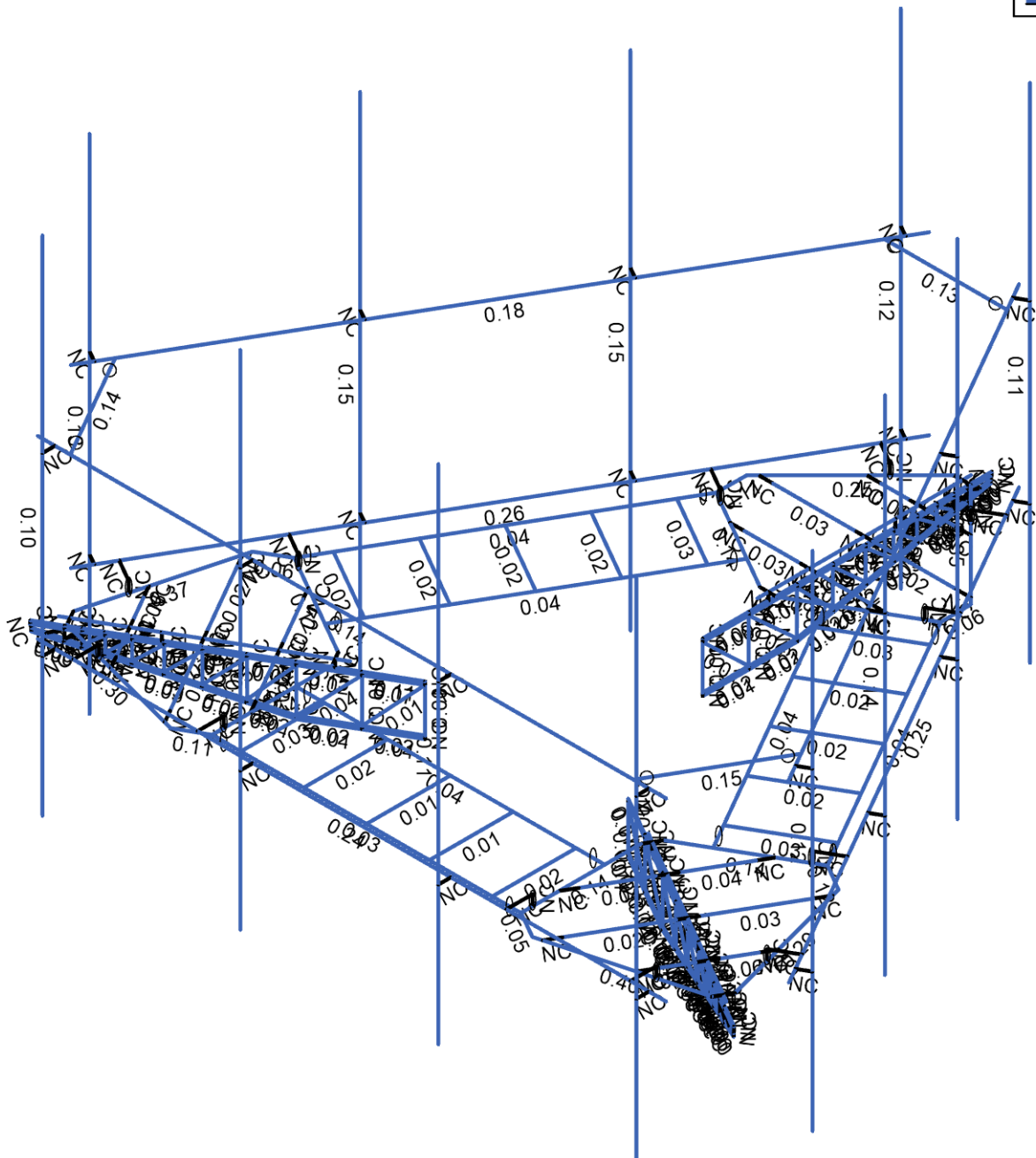
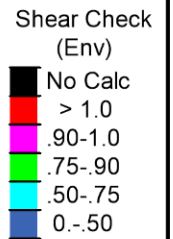
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876326 - Hayden Station

SK-4

Oct 01, 2022

136354_013_01_0001_Hayden St...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

MTS Engineering, P.L.L.C.

MP

136354.013.01.0001

876326 - Hayden Station

SK-5

Oct 01, 2022

136354_013_01_0001_Hayden St...

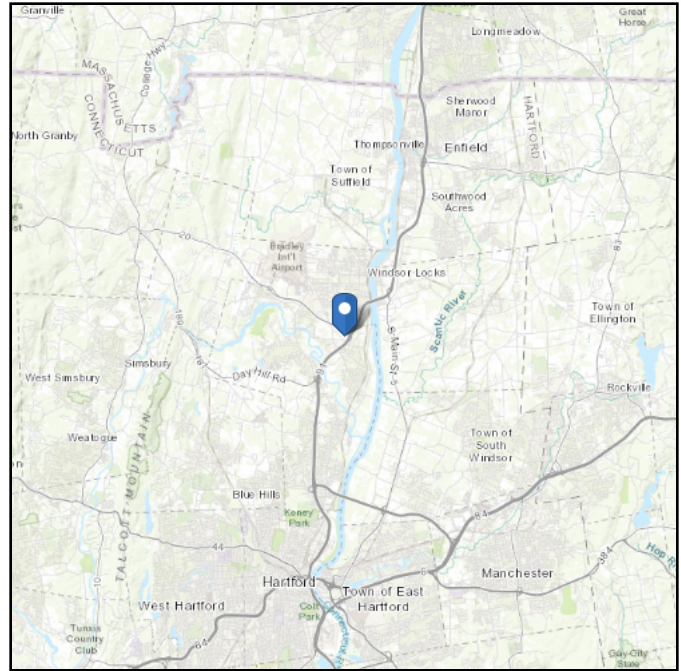
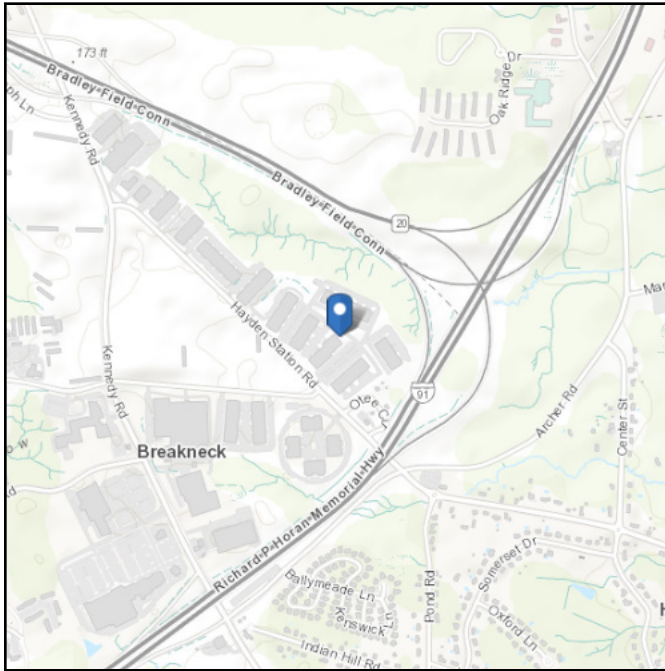
APPENDIX B
SOFTWARE INPUT CALCULATIONS

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)

Elevation: 141.24 ft (NAVD 88)
Latitude: 41.897833
Longitude: -72.644083



Wind

Results:

Wind Speed	116 Vmph
10-year MRI	75 Vmph
25-year MRI	83 Vmph
50-year MRI	90 Vmph
100-year MRI	97 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 Sep 02 2022

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).

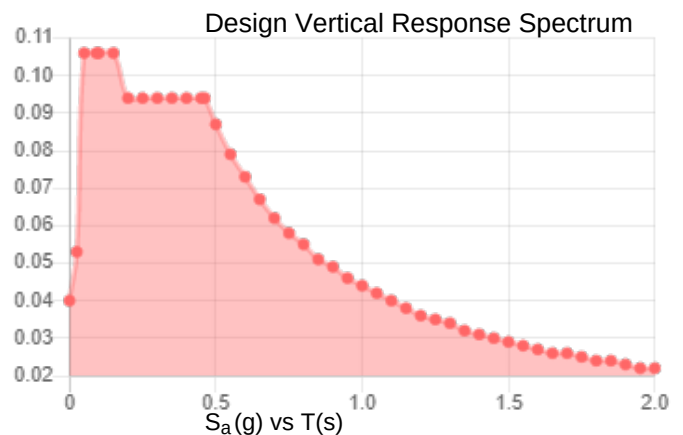
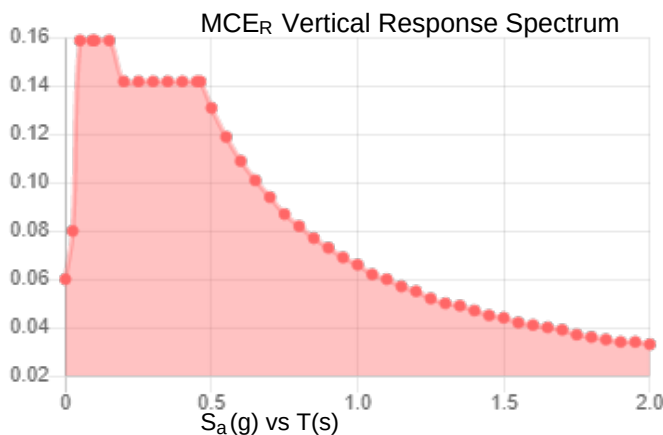
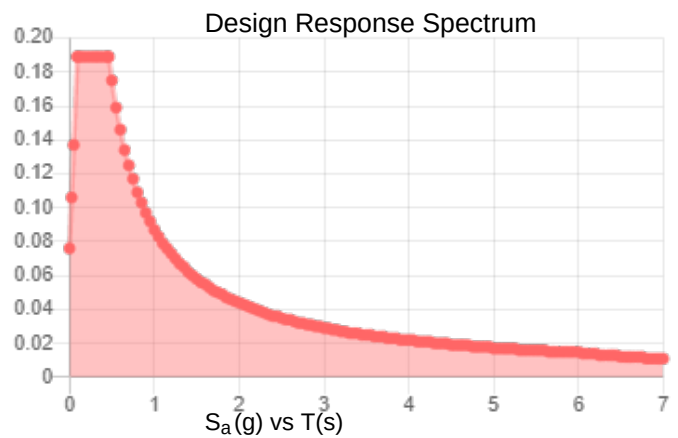
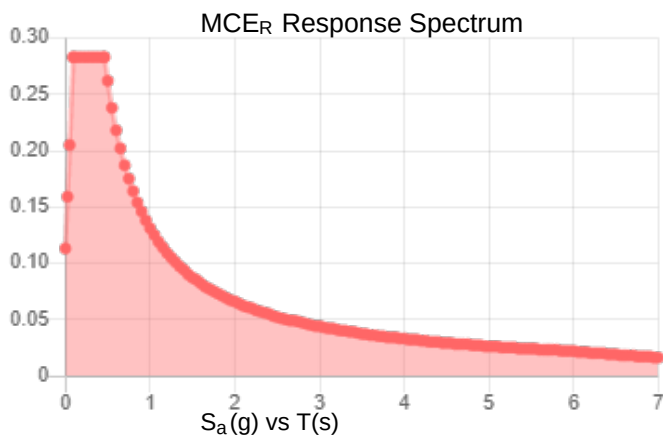
Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_S :	0.177	S_{D1} :	0.087
S_1 :	0.055	T_L :	6
F_a :	1.6	PGA :	0.094
F_v :	2.4	PGA _M :	0.15
S_{MS} :	0.283	F_{PGA} :	1.6
S_{M1} :	0.131	I_e :	1
S_{DS} :	0.189	C_v :	0.7

Seismic Design Category B



Data Accessed: Fri Sep 02 2022

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.

Ice

Results:

Ice Thickness: 1.50 in.

Concurrent Temperature: 5 F

Gust Speed 50 mph

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

Date Accessed: Fri Sep 02 2022

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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PROJECT	136354.013.01.0001 - Hayden Station KSC		
SUBJECT	Platform Mount Analysis		
DATE	10-01-22		



B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 (918) 587-4630

Tower Type	:	Monopole		
Ground Elevation	z_s	: 141	ft	[ASCE7 Hazard Tool]
Tower Height	:	96.00	ft	
Mount Elevation	:	50.00	ft	
Antenna Elevation	:	50.00	ft	
Crest Height	:	0	ft	
Risk Category	:	II		[Table 2-1]
Exposure Category	:	C		[Sec. 2.6.5.1.2]
Topography Category	:	1.00		[Sec. 2.6.6.2]
Wind Velocity	V	: 116	mph	[ASCE7 Hazard Tool]
Ice wind Velocity	V_i	: 50	mph	[ASCE7 Hazard Tool]
Service Velocity	V_s	: 30	mph	[ASCE7 Hazard Tool]
Base Ice thickness	t_i	: 1.50	in	[ASCE7 Hazard Tool]
Seismic Design Cat.	:	B		[ASCE7 Hazard Tool]
	S_S	: 0.18		
	S_1	: 0.06		
	S_{DS}	: 0.19		
	S_{D1}	: 0.09		
Gust Factor	G_h	: 1.00		[Sec. 16.6]
Pressure Coefficient	K_z	: 1.09		[Sec. 2.6.5.2]
Topography Facto	K_{zt}	: 1.00		[Sec. 2.6.6]
Elevation Factor	K_e	: 0.99		[Sec. 2.6.8]
Directionality Factor	K_d	: 0.95		[Sec. 16.6]
Shielding Factor	K_a	: 0.90		[Sec. 16.6]
Design Ice Thickness	t_{iz}	: 1.56	in	[Sec. 2.6.10]
Importance Factor	I_e	: 1		[Table 2-3]
Response Coefficient	C_s	: 0.095		[Sec. 2.7.7.1]
Amplification	A_s	: 1.083333		[Sec. 16.7]
	q_z	: 35.61	psf	



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Manufacturer	Model	Qty	Height	Width	Depth	Weight	C _a A _a (N)	C _a A _a (T)	C _a A _a (N) Ice	C _a A _a (T) Ice	F _A (N)	F _A (T)	F _A (N) Ice	F _A (T) Ice
			(in ²)	(in ²)	(in ²)	(lbs)	(ft ²)	(ft ²)	(ft ²)	(ft ²)	(k)	(k)	(k)	(k)
COMMSCOPE	NHHS4-65B-R3B	1	72.0	13.8	8.2	128.2	5.27	3.14	6.70	4.48	0.19	0.11	0.04	0.03
	NHHSS-65B-R2BT4	1	72.0	11.9	7.1	119.6	8.05	5.36	10.61	8.04	0.26	0.16	0.05	0.03
	RF4402D-D1A	1	15.0	8.9	11.8	62.8	1.10	1.47	1.81	2.25	0.04	0.05	0.01	0.01
	RF4439D-25A	1	15.0	10.0	15.0	74.7	1.25	1.87	1.98	2.73	0.04	0.06	0.01	0.01
	CBRS RRHRT4401- 48A	1	13.9	8.6	4.2	18.6	0.99	0.50	1.66	1.07	0.03	0.02	0.01	0.00
G TELECOMMUNICATIONS	MT6407-77A	0.5	35.1	16.1	5.5	81.6	2.35	0.92	3.05	1.57	0.08	0.03	0.01	0.00
	MT6407-77A	0.5					2.35	0.92	3.05	1.57	0.08	0.03	0.01	0.00
COMMSCOPE	NHHS4-65B-R3B	1	72.0	13.8	8.2	128.2	5.27	3.14	6.70	4.48	0.19	0.11	0.04	0.03
	NHHSS-65B-R2BT4	1	72.0	11.9	7.1	119.6	8.05	5.36	10.61	8.04	0.26	0.16	0.05	0.03
	RF4402D-D1A	1	15.0	8.9	11.8	62.8	1.10	1.47	1.81	2.25	0.04	0.05	0.01	0.01
	RF4439D-25A	1	15.0	10.0	15.0	74.7	1.25	1.87	1.98	2.73	0.04	0.06	0.01	0.01
	CBRS RRHRT4401- 48A	1	13.9	8.6	4.2	18.6	0.99	0.50	1.66	1.07	0.03	0.02	0.01	0.00
G TELECOMMUNICATIONS	MT6407-77A	0.5	35.1	16.1	5.5	81.6	2.35	0.92	3.05	1.57	0.08	0.03	0.01	0.00
	MT6407-77A	0.5					2.35	0.92	3.05	1.57	0.08	0.03	0.01	0.00
COMMSCOPE	NHHS4-65B-R3B	1	72.0	13.8	8.2	128.2	5.27	3.14	6.70	4.48	0.19	0.11	0.04	0.03
	NHHSS-65B-R2BT4	1	72.0	11.9	7.1	119.6	8.05	5.36	10.61	8.04	0.26	0.16	0.05	0.03
	RF4402D-D1A	1	15.0	8.9	11.8	62.8	1.10	1.47	1.81	2.25	0.04	0.05	0.01	0.01
	RF4439D-25A	1	15.0	10.0	15.0	74.7	1.25	1.87	1.98	2.73	0.04	0.06	0.01	0.01
				13.9	8.6	4.2	18.6							
G TELECOMMUNICATIONS	MT6407-77A	0.5	35.1	16.1	5.5	81.6	2.35	0.92	3.05	1.57	0.08	0.03	0.01	0.00
	MT6407-77A	0.5					2.35	0.92	3.05	1.57	0.08	0.03	0.01	0.00
RAYCAP	RVZDC-6627-PF-48_CCIV2	1	29.5	16.5	12.6	32.0	4.06	3.10	5.34	4.28	0.13	0.10	0.02	0.02

APPENDIX C
SOFTWARE ANALYSIS OUTPUT

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	1	0	0.145833	-7.66975	
2	2	0	0.145833	-3.425417	
3	3	0	0.145833	-6.633292	
4	4	0.75	0.145833	-6.633292	
5	5	0	0.145833	-5.558292	
6	6	0	0.145833	-4.450866	
7	7	1.825583	0.145833	-5.558292	
8	8	1.2905	0.145833	-4.455625	
9	9	0.166667	0.145833	-6.633292	
10	10	0.166667	0.145833	-5.558292	
11	11	0.166667	0.145833	-4.455625	
12	12	1.034612	0.145833	-6.633292	
13	13	2.10973	0.145833	-5.558292	
14	14	1.575011	0.145833	-4.455625	
15	15	0	0.145833	-7.501143	
16	16	0	0.145833	-3.642525	
17	17	0.166667	0.145833	-7.501143	
18	18	2.227593	0.145833	-5.440441	
19	19	0.166667	0.145833	-3.642525	
20	20	-0.75	0.145833	-6.633292	
21	21	-1.825583	0.145833	-5.558292	
22	22	-1.2905	0.145833	-4.455625	
23	23	-0.166667	0.145833	-6.633292	
24	24	-0.166667	0.145833	-5.558292	
25	25	-0.166667	0.145833	-4.455625	
26	26	-1.034612	0.145833	-6.633292	
27	27	-2.10973	0.145833	-5.558292	
28	28	-1.575011	0.145833	-4.455625	
29	29	-0.166667	0.145833	-7.501143	
30	30	-2.227593	0.145833	-5.440441	
31	31	-0.166667	0.145833	-3.642525	
32	32	-2.232836	0.145833	-4.835417	
33	33	2.232836	0.145833	-4.835417	
34	34	-0.803917	0.145833	-6.863962	
35	35	6.642192	0.145833	3.834871	
36	36	2.966491	0.145833	1.712704	
37	37	5.744592	0.145833	3.316642	
38	38	5.36959	0.145833	3.966165	
39	39	4.813615	0.145833	2.779142	
40	40	3.858678	0.145833	2.227809	
41	41	3.900821	0.145833	4.360148	
42	42	3.213425	0.145833	3.345419	
43	43	5.661257	0.145833	3.460984	
44	44	4.730279	0.145833	2.923484	
45	45	3.775342	0.145833	2.37215	
46	46	5.227284	0.145833	4.212647	
47	47	3.758748	0.145833	4.606226	
48	48	3.07117	0.145833	3.591812	
49	49	6.496173	0.145833	3.750567	
50	50	3.154519	0.145833	1.821262	
51	51	6.412837	0.145833	3.894909	
52	52	3.597754	0.145833	4.649373	
53	53	3.071177	0.145833	1.9656	
54	54	6.11959	0.145833	2.667127	
55	55	5.726404	0.145833	1.198145	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
56	56	4.503925	0.145833	1.110207	
57	57	5.827923	0.145833	3.172309	
58	58	4.896946	0.145833	2.634809	
59	59	3.942009	0.145833	2.083475	
60	60	6.261896	0.145833	2.420646	
61	61	5.868478	0.145833	0.952067	
62	62	4.646181	0.145833	0.863813	
63	63	6.579504	0.145833	3.606234	
64	64	5.825348	0.145833	0.791068	
65	65	3.237843	0.145833	1.676925	
66	66	5.304002	0.145833	0.484016	
67	67	3.071167	0.145833	4.351401	
68	68	3.071168	0.354083	4.120184	
69	69	5.542398	0.354083	4.128194	
70	70	3.071168	0.145833	4.120184	
71	71	3.071168	0.354083	4.641048	
72	72	5.542398	0.145833	4.128194	
73	73	5.542398	0.354083	4.641048	
74	74	-6.642189	0.145833	3.834853	
75	75	-2.966489	0.145833	1.712686	
76	76	-5.74459	0.145833	3.316624	
77	77	-6.11959	0.145833	2.667105	
78	78	-4.813613	0.145833	2.779124	
79	79	-3.858675	0.145833	2.22779	
80	80	-5.726404	0.145833	1.198122	
81	81	-4.503925	0.145833	1.110185	
82	82	-5.827923	0.145833	3.172286	
83	83	-4.896946	0.145833	2.634786	
84	84	-3.942009	0.145833	2.083453	
85	85	-6.261896	0.145833	2.420623	
86	86	-5.868478	0.145833	0.952044	
87	87	-4.646181	0.145833	0.863791	
88	88	-6.496171	0.145833	3.750549	
89	89	-3.154549	0.145833	1.821262	
90	90	-6.579504	0.145833	3.606211	
91	91	-5.825348	0.145833	0.791046	
92	92	-3.237843	0.145833	1.676903	
93	93	-5.36959	0.145833	3.966143	
94	94	-3.900821	0.145833	4.360125	
95	95	-3.213425	0.145833	3.345396	
96	96	-5.661257	0.145833	3.460961	
97	97	-4.730279	0.145833	2.923461	
98	98	-3.775342	0.145833	2.372128	
99	99	-5.227284	0.145833	4.212624	
100	100	-3.758748	0.145833	4.606203	
101	101	-3.07117	0.145833	3.59179	
102	102	-6.412837	0.145833	3.894887	
103	103	-3.597754	0.145833	4.649351	
104	104	-3.071177	0.145833	1.965578	
105	105	-3.071168	0.354083	4.120161	
106	106	-3.071167	0.145833	4.351379	
107	107	-5.304002	0.145833	0.483994	
108	108	-5.542398	0.354083	4.128171	
109	109	-3.071168	0.145833	4.120161	
110	110	-3.071168	0.354083	4.641048	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
111	111	-5.542398	0.145833	4.128171	
112	112	-5.542398	0.354083	4.641048	
113	113	-6.346315	0.354083	2.735747	
114	114	2.032595	0.354083	-4.719809	
115	115	0.803917	0.354083	-6.863962	
116	116	2.032595	0.145833	-4.719809	
117	117	2.483675	0.354083	-4.98024	
118	118	0.803917	0.145833	-6.863962	
119	119	1.248065	0.354083	-7.120381	
120	120	5.103763	0.354083	0.599626	
121	121	6.346315	0.354083	2.735769	
122	122	5.103763	0.145833	0.599626	
123	123	5.554846	0.354083	0.339193	
124	124	6.346315	0.145833	2.735769	
125	125	6.790457	0.354083	2.479338	
126	126	-5.103763	0.354083	0.599603	
127	127	-5.103763	0.145833	0.599603	
128	128	-5.554843	0.354083	0.339172	
129	129	-6.346315	0.145833	2.735747	
130	130	-6.790467	0.354083	2.479332	
131	131	-2.032595	0.354083	-4.719809	
132	132	-0.803917	0.354083	-6.863962	
133	133	-2.032595	0.145833	-4.719809	
134	134	-2.483677	0.354083	-4.980241	
135	135	-1.248066	0.354083	-7.120381	
136	136	-6.250009	0.354083	4.641048	
137	137	6.250009	0.354083	4.641048	
138	138	7.144265	0.354083	3.092151	
139	139	0.894256	0.354083	-7.733198	
140	140	-0.894256	0.354083	-7.733198	
141	141	-7.144265	0.354083	3.092129	
142	142	0	0.145833	-6.166663	
143	143	2.456763	0.354083	-5.026852	
144	144	4.01926	0.354083	-2.320521	
145	145	0	0	-4.208298	
146	146	0	0	-3.642525	
147	147	0	0	-6.990954	
148	148	0	0	-8.08333	
149	149	0	-0.994667	-4.208299	
150	150	0	-0.0625	-4.208298	
151	151	0	0	-4.92657	
152	152	0	0	-5.57456	
153	153	0	0	-6.131104	
154	154	0	0	-6.597758	
155	155	0	0	-7.322675	
156	156	0	0	-7.58212	
157	157	0	-0.0625	-4.92657	
158	158	0	-0.0625	-5.57456	
159	159	0	-0.0625	-6.131073	
160	160	0	-0.0625	-6.597758	
161	161	0	-0.0625	-6.990954	
162	162	0	-0.0625	-7.322675	
163	163	0	-0.0625	-7.58212	
164	164	0	-0.933227	-4.206947	
165	165	0	-0.645779	-5.57456	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
166	166	0	-0.843021	-4.934822	
167	167	0	-0.590665	-6.143833	
168	168	0	-0.70683	-5.5873	
169	169	0	-0.493261	-6.61049	
170	170	0	-0.41119	-7.003682	
171	171	0	-0.341951	-7.335399	
172	172	0	-0.287798	-7.594841	
173	173	0	-0.781876	-4.922063	
174	174	0	-0.529639	-6.131073	
175	175	0	-0.432245	-6.597758	
176	176	0	-0.350195	-6.990954	
177	177	0	-0.280974	-7.322675	
178	178	0	-0.226577	-7.582066	
179	179	0	-0.0625	-8.08333	
180	180	0	-0.125272	-8.065145	
181	181	0	-0.189155	-8.067433	
182	182	0	0	-3.249965	
183	183	0	-0.994667	-3.249965	
184	184	0	-0.0625	-3.249965	
185	185	0	-0.933213	-3.249965	
186	186	0	0	-2.33333	
187	187	0	-0.994667	-2.33333	
188	188	0	-0.0625	-2.33333	
189	189	0	-0.933213	-2.33333	
190	190	0	0	-6.166663	
191	191	0	-0.171393	-7.845217	
192	192	0	-0.0625	-7.215037	
193	193	-0.789485	0.145833	-4.002106	
194	194	0.789485	0.145833	-4.002106	
195	195	3.860658	0.145833	1.317339	
196	196	3.071174	0.145833	2.684745	
197	197	-3.071174	0.145833	2.684745	
198	198	-3.860658	0.145833	1.317317	
199	199	5.581765	0.354083	0.385822	
200	200	-5.581763	0.354083	0.385807	
201	201	-4.01926	0.354083	-2.320521	
202	202	-2.456751	0.354083	-5.026861	
203	203	3.125	0.354083	4.641045	
204	204	0	0.354083	4.641042	
205	205	-3.125014	0.354083	4.641039	
206	206	0	0	0	
207	207	-6.250009	3.854083	4.641048	
208	208	6.250009	3.854083	4.641048	
209	209	7.144265	3.854083	3.092151	
210	210	0.894256	3.854083	-7.733198	
211	211	-0.894256	3.854083	-7.733198	
212	212	-7.144265	3.854083	3.092129	
213	213	-3.154519	0	1.821263	
214	214	3.154519	0	1.821263	
215	215	5.601086	3.854083	4.641048	
216	216	-6.819803	3.854083	2.530145	
217	217	1.218717	3.854083	-7.171214	
218	218	-5.601062	3.854083	4.641048	
219	219	6.819785	3.854083	2.530134	
220	220	-1.218718	3.854083	-7.171214	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
221	221	-3.768425	0.145833	-2.175701	
222	222	-2.325078	0.145833	-1.342384	
223	223	-4.393426	0.145833	-1.09317	
224	224	-2.950078	0.145833	-0.259853	
225	225	-5.018426	0.145833	-0.010638	
226	226	-3.575079	0.145833	0.822679	
227	227	-3.143425	0.145833	-3.258233	
228	228	-1.700077	0.145833	-2.424916	
229	229	-2.518424	0.145833	-4.340764	
230	230	-1.075076	0.145833	-3.507447	
231	231	0	0.145833	4.35139	
232	232	0	0.145833	2.684745	
233	233	1.25	0.145833	4.351395	
234	234	1.25	0.145833	2.684745	
235	235	2.5	0.145833	4.351399	
236	236	2.5	0.145833	2.684745	
237	237	-1.25	0.145833	4.351385	
238	238	-1.25	0.145833	2.684745	
239	239	-2.5	0.145833	4.351381	
240	240	-2.5	0.145833	2.684745	
241	241	3.76842	0.145833	-2.175698	
242	242	2.325073	0.145833	-1.342381	
243	243	3.143422	0.145833	-3.258231	
244	244	1.700074	0.145833	-2.424914	
245	245	2.518423	0.145833	-4.340764	
246	246	1.075076	0.145833	-3.507447	
247	247	4.393419	0.145833	-1.093166	
248	248	2.950071	0.145833	-0.259849	
249	249	5.018417	0.145833	-0.010633	
250	250	3.57507	0.145833	0.822684	
251	251	5.90626	0.354083	4.891467	
252	252	5.90626	0.354083	4.641048	
253	253	1.96876	0.354083	4.891467	
254	254	1.96876	0.354083	4.641048	
255	255	-1.96874	0.354083	4.891467	
256	256	-1.96874	0.354083	4.641048	
257	257	-5.90624	3.854083	4.641048	
258	258	-5.90624	3.854083	4.891467	
259	259	-5.90624	0.354083	4.641048	
260	260	-5.90624	0.354083	4.891467	
261	261	-1.96874	3.854083	4.641048	
262	262	-1.96874	3.854083	4.891467	
263	263	1.96876	3.854083	4.641048	
264	264	1.96876	3.854083	4.891467	
265	265	5.90626	3.854083	4.641048	
266	266	5.90626	3.854083	4.891467	
267	267	-5.90624	7.60408	4.891467	
268	268	-5.90624	-2.39592	4.891467	
269	269	-1.96874	7.60408	4.891467	
270	270	-1.96874	-2.39592	4.891467	
271	271	1.96876	7.60408	4.891467	
272	272	1.96876	-2.39592	4.891467	
273	273	5.90626	7.60408	4.891467	
274	274	5.90626	-2.39592	4.891467	
275	275	1.283004	0.354083	-7.560705	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
276	276	1.066135	0.354083	-7.435495	
277	277	3.251754	0.354083	-4.15073	
278	278	3.034883	0.354083	-4.025518	
279	279	5.220504	0.354083	-0.740754	
280	280	5.00363	0.354083	-0.615542	
281	281	6.972378	3.854083	2.794434	
282	282	7.189254	3.854083	2.669221	
283	283	6.972378	0.354083	2.794434	
284	284	7.189254	0.354083	2.669221	
285	285	5.00363	3.854083	-0.615542	
286	286	5.220504	3.854083	-0.740754	
287	287	3.034883	3.854083	-4.025518	
288	288	3.251754	3.854083	-4.15073	
289	289	1.066135	3.854083	-7.435495	
290	290	1.283004	3.854083	-7.560705	
291	291	7.189254	7.60408	2.669221	
292	292	7.189254	-2.39592	2.669221	
293	293	5.220504	7.60408	-0.740754	
294	294	5.220504	-2.39592	-0.740754	
295	295	3.251754	7.60408	-4.15073	
296	296	3.251754	-2.39592	-4.15073	
297	297	1.283004	7.60408	-7.560705	
298	298	1.283004	-2.39592	-7.560705	
299	299	-7.189264	0.354083	2.669238	
300	300	-6.972398	0.354083	2.794446	
301	301	-5.220514	0.354083	-0.740737	
302	302	-5.003647	0.354083	-0.615529	
303	303	-3.251764	0.354083	-4.150712	
304	304	-3.034896	0.354083	-4.025503	
305	305	-1.066145	3.854083	-7.435478	
306	306	-1.283014	3.854083	-7.560687	
307	307	-1.066145	0.354083	-7.435478	
308	308	-1.283014	0.354083	-7.560687	
309	309	-3.034896	3.854083	-4.025503	
310	310	-3.251764	3.854083	-4.150712	
311	311	-5.003647	3.854083	-0.615529	
312	312	-5.220514	3.854083	-0.740737	
313	313	-6.972398	3.854083	2.794446	
314	314	-7.189264	3.854083	2.669238	
315	315	-1.283014	7.60408	-7.560687	
316	316	-1.283014	-2.39592	-7.560687	
317	317	-3.251764	7.60408	-4.150712	
318	318	-3.251764	-2.39592	-4.150712	
319	319	-5.220514	7.60408	-0.740737	
320	320	-5.220514	-2.39592	-0.740737	
321	321	-7.189264	7.60408	2.669238	
322	322	-7.189264	-2.39592	2.669238	
323	323	-5.340516	0.145833	3.083332	
324	324	-3.644493	0	2.104149	
325	325	-6.054344	0	3.495477	
326	326	-7.000369	0	4.041665	
327	327	-3.644493	-0.994667	2.104149	
328	328	-3.644493	-0.0625	2.104149	
329	329	-4.266535	0	2.463285	
330	330	-4.827711	0	2.78728	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
331	331	-5.309665	0	3.065537	
332	332	-5.713826	0	3.298879	
333	333	-6.341623	0	3.661337	
334	334	-6.566308	0	3.79106	
335	335	-4.266535	-0.0625	2.463285	
336	336	-4.827711	-0.0625	2.78728	
337	337	-5.309665	-0.0625	3.065537	
338	338	-5.713826	-0.0625	3.298879	
339	339	-6.054344	-0.0625	3.495477	
340	340	-6.341623	-0.0625	3.661337	
341	341	-6.566262	-0.0625	3.791033	
342	342	-3.643323	-0.933227	2.103474	
343	343	-4.827711	-0.645779	2.78728	
344	344	-4.273682	-0.843021	2.467411	
345	345	-5.320715	-0.590665	3.071916	
346	346	-4.838744	-0.70683	2.79365	
347	347	-5.724853	-0.493261	3.305245	
348	348	-6.065367	-0.41119	3.501841	
349	349	-6.352642	-0.341951	3.6677	
350	350	-6.577326	-0.287798	3.797421	
351	351	-4.262632	-0.781876	2.461032	
352	352	-5.309665	-0.529639	3.065537	
353	353	-5.713826	-0.432245	3.298879	
354	354	-6.054344	-0.350195	3.495477	
355	355	-6.341623	-0.280974	3.661337	
356	356	-6.566262	-0.226577	3.791033	
357	357	-7.000369	-0.0625	4.041665	
358	358	-6.984621	-0.125272	4.032573	
359	359	-6.986602	-0.189155	4.033717	
360	360	-2.814552	0	1.624983	
361	361	-2.814552	-0.994667	1.624983	
362	362	-2.814552	-0.0625	1.624983	
363	363	-2.814552	-0.933213	1.624983	
364	364	-2.020723	0	1.166665	
365	365	-2.020723	-0.994667	1.166665	
366	366	-2.020723	-0.0625	1.166665	
367	367	-2.020723	-0.933213	1.166665	
368	368	-5.340487	0	3.083332	
369	369	-6.794157	-0.171393	3.922609	
370	370	-6.248405	-0.0625	3.607519	
371	371	5.340487	0.145833	3.083332	
372	372	3.644493	0	2.104149	
373	373	6.054344	0	3.495477	
374	374	7.000369	0	4.041665	
375	375	3.644493	-0.994667	2.104149	
376	376	3.644493	-0.0625	2.104149	
377	377	4.266535	0	2.463285	
378	378	4.827711	0	2.78728	
379	379	5.309665	0	3.065537	
380	380	5.713826	0	3.298879	
381	381	6.341623	0	3.661337	
382	382	6.566308	0	3.79106	
383	383	4.266535	-0.0625	2.463285	
384	384	4.827711	-0.0625	2.78728	
385	385	5.309665	-0.0625	3.065537	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
386	386	5.713826	-0.0625	3.298879	
387	387	6.054344	-0.0625	3.495477	
388	388	6.341623	-0.0625	3.661337	
389	389	6.566262	-0.0625	3.791033	
390	390	3.643323	-0.933227	2.103474	
391	391	4.827711	-0.645779	2.78728	
392	392	4.273682	-0.843021	2.467411	
393	393	5.320715	-0.590665	3.071916	
394	394	4.838744	-0.70683	2.79365	
395	395	5.724853	-0.493261	3.305245	
396	396	6.065367	-0.41119	3.501841	
397	397	6.352642	-0.341951	3.6677	
398	398	6.577326	-0.287798	3.797421	
399	399	4.262632	-0.781876	2.461032	
400	400	5.309665	-0.529639	3.065537	
401	401	5.713826	-0.432245	3.298879	
402	402	6.054344	-0.350195	3.495477	
403	403	6.341623	-0.280974	3.661337	
404	404	6.566262	-0.226577	3.791033	
405	405	7.000369	-0.0625	4.041665	
406	406	6.984621	-0.125272	4.032573	
407	407	6.986602	-0.189155	4.033717	
408	408	2.814552	0	1.624983	
409	409	2.814552	-0.994667	1.624983	
410	410	2.814552	-0.0625	1.624983	
411	411	2.814552	-0.933213	1.624983	
412	412	2.020723	0	1.166665	
413	413	2.020723	-0.994667	1.166665	
414	414	2.020723	-0.0625	1.166665	
415	415	2.020723	-0.933213	1.166665	
416	416	5.340487	0	3.083332	
417	417	6.794157	-0.171393	3.922609	
418	418	6.248405	-0.0625	3.607519	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	145						
2	149						
3	182						
4	183						
5	186	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	187	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
7	324						
8	327						
9	360						
10	361						
11	364	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
12	365	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
13	372						
14	375						
15	408						
16	409						
17	412	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
18	413	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e ⁵ °F ⁻¹]	Density [k/ft ³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
7	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
8	Q235	29000	11154	0.3	0.65	0.49	35	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in ²]	I _{yy} [in ⁴]	I _{zz} [in ⁴]	J [in ⁴]
1	FH-Pipe	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
2	AM-Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
3	SA-TopChord-Plate	PL1/2"x4"	Beam	RECT	A572 Gr.50	Typical	2	0.042	2.667	0.154
4	SA-BotChord-Plate	PL3/8"x4"	Beam	RECT	A572 Gr.50	Typical	1.5	0.018	2	0.066
5	SA-WebVert-Plate	PL3/8"x1"	Column	RECT	A572 Gr.50	Typical	0.38	0.005	0.032	0.014
6	SA-WebDiag-Plate	PL3/8"x1"	VBrace	RECT	A572 Gr.50	Typical	0.38	0.005	0.032	0.014
7	PF-Angle	L3X3X6	Beam	Single Angle	A53 Gr.B	Typical	2.11	1.75	1.75	0.101
8	PJ-Plate	PL3/8"x2-3/8"	Beam	RECT	A572 Gr.50	Typical	0.904	0.011	0.427	0.039
9	PS-Tube	HSS4X3X4	Beam	Tube	A53 Gr.B	Typical	2.91	3.91	6.15	7.96
10	PB-Plate	PL3/8"x3"	Beam	RECT	A572 Gr.50	Typical	1.125	0.013	0.844	0.049
11	F1-S7	PL3/8"x5/8"	Column	RECT	A572 Gr.50	Typical	0.234	0.003	0.008	0.007
12	F1-S8	PL3/8"x7/8"	Column	RECT	A572 Gr.50	Typical	0.328	0.004	0.021	0.011
13	SA-WebDiag-Rod#1	PL3/8"x7/8"	VBrace	RECT	A572 Gr.50	Typical	0.328	0.004	0.021	0.011
14	SA-WebDiag.Rod#3	PL3/8"x5/8"	VBrace	RECT	A572 Gr.50	Typical	0.234	0.003	0.008	0.007
15	SA-WebDiag-Rod#2	PL3/8"x3/4"	VBrace	RECT	A572 Gr.50	Typical	0.281	0.003	0.013	0.009
16	F1-S9	PL3/8"x3/4"	Column	RECT	A572 Gr.50	Typical	0.281	0.003	0.013	0.009
17	SA-WebChord-Plate	PL3/8"x1"	Beam	RECT	A572 Gr.50	Typical	0.38	0.005	0.032	0.014
18	Support Rail	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	0.627	0.627	1.25
19	F1-SP1	PIPE 1.5	Beam	Pipe	A53 Gr.B	Typical	0.749	0.293	0.293	0.586
20	SR-CA1	WT4X2.25X0.38	Beam	W Tee	A36 Gr.36	Typical	2.203	2.008	0.829	0.104
21	Plate	PL3/8X1.5	Beam	RECT	A36 Gr.36	Typical	0.562	0.007	0.105	0.022

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	1	137	136		FH-Pipe	Beam	Pipe	A53 Gr.B	Typical
2	2	141	140		FH-Pipe	Beam	Pipe	A53 Gr.B	Typical
3	3	139	138		FH-Pipe	Beam	Pipe	A53 Gr.B	Typical
4	4	103	106		PB-Plate	Beam	RECT	A572 Gr.50	Typical
5	5	91	107		PB-Plate	Beam	RECT	A572 Gr.50	Typical
6	6	30	32		PB-Plate	Beam	RECT	A572 Gr.50	Typical
7	7	18	33		PB-Plate	Beam	RECT	A572 Gr.50	Typical
8	8	64	66		PB-Plate	Beam	RECT	A572 Gr.50	Typical
9	9	52	67		PB-Plate	Beam	RECT	A572 Gr.50	Typical
10	10	102	103	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
11	11	90	91	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
12	12	104	106	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
13	13	92	107	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
14	14	29	30	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
15	15	17	18	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
16	16	31	32	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
17	17	19	33	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
18	18	63	64	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
19	19	51	52	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
20	20	65	66	180	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
21	21	53	67	90	PF-Angle	Beam	Single Angle	A53 Gr.B	Typical
22	22	98	95		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
23	23	84	81		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
24	24	97	94		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
25	25	83	80		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
26	26	96	93		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
27	27	82	77		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
28	28	25	22		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
29	29	11	8		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
30	30	24	21		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
31	31	10	7		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
32	32	23	20		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
33	33	9	4		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
34	34	59	56		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
35	35	45	42		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
36	36	58	55		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
37	37	44	41		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
38	38	57	54		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
39	39	43	38		PJ-Plate	Beam	RECT	A572 Gr.50	Typical
40	40	74	75	90	PS-Tube	Beam	Tube	A53 Gr.B	Typical
41	41	1	2	90	PS-Tube	Beam	Tube	A53 Gr.B	Typical
42	42	35	36	90	PS-Tube	Beam	Tube	A53 Gr.B	Typical
43	43	183	187	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
44	44	149	183	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
45	45	166	149	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
46	46	168	166	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
47	47	169	168	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
48	48	171	169	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
49	49	181	171	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
50	50	182	186	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
51	51	145	182	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
52	52	151	145	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
53	53	152	151	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
54	54	154	152	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
55	55	155	154	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
56	56	148	155	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
57	57	185	189		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
58	58	164	185		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
59	59	173	164		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
60	60	165	173		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
61	61	175	165		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
62	62	177	175		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
63	63	180	177		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
64	64	185	188		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
65	65	164	184		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
66	66	150	173		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
67	67	157	165		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
68	68	174	158		SA-WebDiag-Rod#1	VBrace	RECT	A572 Gr.50	Typical
69	69	175	159		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
70	70	176	160		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
71	71	177	161		SA-WebDiag-Rod#3	VBrace	RECT	A572 Gr.50	Typical
72	72	184	188		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
73	73	150	184		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
74	74	157	150		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
75	75	158	157		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
76	76	160	158		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
77	77	162	160		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
78	78	179	162		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
79	79	189	188	90	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
80	80	185	184	90	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
81	81	164	150		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
82	82	173	157		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
83	83	165	158	90	F1-S8	Column	RECT	A572 Gr.50	Typical
84	84	174	159	90	F1-S9	Column	RECT	A572 Gr.50	Typical
85	85	175	160	90	F1-S9	Column	RECT	A572 Gr.50	Typical
86	86	176	161	90	F1-S7	Column	RECT	A572 Gr.50	Typical
87	87	70	68		RIGID	None	None	RIGID	Typical
88	88	72	69		RIGID	None	None	RIGID	Typical
89	89	109	105		RIGID	None	None	RIGID	Typical
90	90	111	108		RIGID	None	None	RIGID	Typical
91	91	116	114		RIGID	None	None	RIGID	Typical
92	92	118	115		RIGID	None	None	RIGID	Typical
93	93	122	120		RIGID	None	None	RIGID	Typical
94	94	124	121		RIGID	None	None	RIGID	Typical
95	95	127	126		RIGID	None	None	RIGID	Typical
96	96	129	113		RIGID	None	None	RIGID	Typical
97	97	133	131		RIGID	None	None	RIGID	Typical
98	98	34	132		RIGID	None	None	RIGID	Typical
99	99	150	145		RIGID	None	None	RIGID	Typical
100	100	157	151		RIGID	None	None	RIGID	Typical
101	101	158	152		RIGID	None	None	RIGID	Typical
102	102	159	153		RIGID	None	None	RIGID	Typical
103	103	160	154		RIGID	None	None	RIGID	Typical
104	104	161	147		RIGID	None	None	RIGID	Typical
105	105	162	155		RIGID	None	None	RIGID	Typical
106	106	163	156		RIGID	None	None	RIGID	Typical
107	107	179	148		RIGID	None	None	RIGID	Typical
108	108	181	180		RIGID	None	None	RIGID	Typical
109	109	172	178		RIGID	None	None	RIGID	Typical
110	110	171	177		RIGID	None	None	RIGID	Typical
111	111	170	176		RIGID	None	None	RIGID	Typical
112	112	169	175		RIGID	None	None	RIGID	Typical
113	113	167	174		RIGID	None	None	RIGID	Typical
114	114	168	165		RIGID	None	None	RIGID	Typical
115	115	166	173		RIGID	None	None	RIGID	Typical
116	116	149	164		RIGID	None	None	RIGID	Typical
117	117	184	182	90	RIGID	None	None	RIGID	Typical
118	118	188	186	90	RIGID	None	None	RIGID	Typical
119	119	187	189	90	RIGID	None	None	RIGID	Typical
120	120	183	185	90	RIGID	None	None	RIGID	Typical
121	121	190	142		CLAMP	None	None	RIGID	DR1
122	122	146	16		CLAMP	None	None	RIGID	DR1
123	123	37	43		CONNECTION	None	None	RIGID	DR1
124	124	39	44		CONNECTION	None	None	RIGID	DR1
125	125	40	45		CONNECTION	None	None	RIGID	DR1
126	126	38	46		CONNECTION	None	None	RIGID	DR1
127	127	41	47		CONNECTION	None	None	RIGID	DR1

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
128	128	42	48		CONNECTION	None	None	RIGID	DR1
129	129	49	51		CONNECTION	None	None	RIGID	DR1
130	130	3	23		CONNECTION	None	None	RIGID	DR1
131	131	50	53		CONNECTION	None	None	RIGID	DR1
132	132	5	24		CONNECTION	None	None	RIGID	DR1
133	133	6	25		CONNECTION	None	None	RIGID	DR1
134	134	37	57		CONNECTION	None	None	RIGID	DR1
135	135	39	58		CONNECTION	None	None	RIGID	DR1
136	136	40	59		CONNECTION	None	None	RIGID	DR1
137	137	54	60		CONNECTION	None	None	RIGID	DR1
138	138	20	26		CONNECTION	None	None	RIGID	DR1
139	139	55	61		CONNECTION	None	None	RIGID	DR1
140	140	21	27		CONNECTION	None	None	RIGID	DR1
141	141	56	62		CONNECTION	None	None	RIGID	DR1
142	142	22	28		CONNECTION	None	None	RIGID	DR1
143	143	49	63		CONNECTION	None	None	RIGID	DR1
144	144	50	65		CONNECTION	None	None	RIGID	DR1
145	145	15	29		CONNECTION	None	None	RIGID	DR1
146	146	16	31		CONNECTION	None	None	RIGID	DR1
147	147	76	82		CONNECTION	None	None	RIGID	DR1
148	148	78	83		CONNECTION	None	None	RIGID	DR1
149	149	79	84		CONNECTION	None	None	RIGID	DR1
150	150	77	85		CONNECTION	None	None	RIGID	DR1
151	151	80	86		CONNECTION	None	None	RIGID	DR1
152	152	81	87		CONNECTION	None	None	RIGID	DR1
153	153	88	90		CONNECTION	None	None	RIGID	DR1
154	154	89	92		CONNECTION	None	None	RIGID	DR1
155	155	76	96		CONNECTION	None	None	RIGID	DR1
156	156	78	97		CONNECTION	None	None	RIGID	DR1
157	157	79	98		CONNECTION	None	None	RIGID	DR1
158	158	93	99		CONNECTION	None	None	RIGID	DR1
159	159	94	100		CONNECTION	None	None	RIGID	DR1
160	160	95	101		CONNECTION	None	None	RIGID	DR1
161	161	88	102		CONNECTION	None	None	RIGID	DR1
162	162	89	104		CONNECTION	None	None	RIGID	DR1
163	163	3	9		CONNECTION	None	None	RIGID	DR1
164	164	5	10		CONNECTION	None	None	RIGID	DR1
165	165	6	11		CONNECTION	None	None	RIGID	DR1
166	166	4	12		CONNECTION	None	None	RIGID	DR1
167	167	7	13		CONNECTION	None	None	RIGID	DR1
168	168	8	14		CONNECTION	None	None	RIGID	DR1
169	169	15	17		CONNECTION	None	None	RIGID	DR1
170	170	16	19		CONNECTION	None	None	RIGID	DR1
171	171	68	71		BRACKET	None	None	RIGID	DR1
172	172	69	73		BRACKET	None	None	RIGID	DR1
173	173	105	110		BRACKET	None	None	RIGID	DR1
174	174	108	112		BRACKET	None	None	RIGID	DR1
175	175	114	117		BRACKET	None	None	RIGID	DR1
176	176	115	119		BRACKET	None	None	RIGID	DR1
177	177	120	123		BRACKET	None	None	RIGID	DR1
178	178	121	125		BRACKET	None	None	RIGID	DR1
179	179	126	128		BRACKET	None	None	RIGID	DR1
180	180	113	130		BRACKET	None	None	RIGID	DR1
181	181	131	134		BRACKET	None	None	RIGID	DR1
182	182	132	135		BRACKET	None	None	RIGID	DR1

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
183	183	162	178		RIGID	None	None	RIGID	Typical
184	184	163	191		RIGID	None	None	RIGID	Typical
185	185	177	162		RIGID	None	None	RIGID	Typical
186	186	178	163		RIGID	None	None	RIGID	Typical
187	187	180	179		RIGID	None	None	RIGID	Typical
188	188	208	207		Support Rail	Beam	Pipe	A53 Gr.B	Typical
189	189	212	211		Support Rail	Beam	Pipe	A53 Gr.B	Typical
190	190	210	209		Support Rail	Beam	Pipe	A53 Gr.B	Typical
191	191	213	89		CLAMP	None	None	RIGID	DR1
192	192	214	50		CLAMP	None	None	RIGID	DR1
193	193	216	218	90	SR-CA1	Beam	W Tee	A36 Gr.36	Typical
194	194	217	220	90	SR-CA1	Beam	W Tee	A36 Gr.36	Typical
195	195	219	215	270	SR-CA1	Beam	W Tee	A36 Gr.36	Typical
196	196	230	229		Plate	Beam	RECT	A36 Gr.36	Typical
197	197	228	227		Plate	Beam	RECT	A36 Gr.36	Typical
198	198	222	221		Plate	Beam	RECT	A36 Gr.36	Typical
199	199	224	223		Plate	Beam	RECT	A36 Gr.36	Typical
200	200	226	225		Plate	Beam	RECT	A36 Gr.36	Typical
201	201	240	239		Plate	Beam	RECT	A36 Gr.36	Typical
202	202	238	237		Plate	Beam	RECT	A36 Gr.36	Typical
203	203	232	231		Plate	Beam	RECT	A36 Gr.36	Typical
204	204	234	233		Plate	Beam	RECT	A36 Gr.36	Typical
205	205	236	235		Plate	Beam	RECT	A36 Gr.36	Typical
206	206	250	249		Plate	Beam	RECT	A36 Gr.36	Typical
207	207	248	247		Plate	Beam	RECT	A36 Gr.36	Typical
208	208	242	241		Plate	Beam	RECT	A36 Gr.36	Typical
209	209	244	243		Plate	Beam	RECT	A36 Gr.36	Typical
210	210	246	245		Plate	Beam	RECT	A36 Gr.36	Typical
211	211	32	107		F1-SP1	Beam	Pipe	A53 Gr.B	Typical
212	212	193	198		F1-SP1	Beam	Pipe	A53 Gr.B	Typical
213	213	106	67		F1-SP1	Beam	Pipe	A53 Gr.B	Typical
214	214	197	196		F1-SP1	Beam	Pipe	A53 Gr.B	Typical
215	215	66	33		F1-SP1	Beam	Pipe	A53 Gr.B	Typical
216	216	195	194		F1-SP1	Beam	Pipe	A53 Gr.B	Typical
217	217	251	252		RIGID	None	None	RIGID	Typical
218	218	253	254		RIGID	None	None	RIGID	Typical
219	219	255	256		RIGID	None	None	RIGID	Typical
220	220	257	258		RIGID	None	None	RIGID	Typical
221	221	259	260		RIGID	None	None	RIGID	Typical
222	222	261	262		RIGID	None	None	RIGID	Typical
223	223	263	264		RIGID	None	None	RIGID	Typical
224	224	265	266		RIGID	None	None	RIGID	Typical
225	225	267	268		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
226	226	269	270		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
227	227	271	272		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
228	228	273	274		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
229	229	275	276		RIGID	None	None	RIGID	Typical
230	230	277	278		RIGID	None	None	RIGID	Typical
231	231	279	280		RIGID	None	None	RIGID	Typical
232	232	281	282		RIGID	None	None	RIGID	Typical
233	233	283	284		RIGID	None	None	RIGID	Typical
234	234	285	286		RIGID	None	None	RIGID	Typical
235	235	287	288		RIGID	None	None	RIGID	Typical
236	236	289	290		RIGID	None	None	RIGID	Typical
237	237	291	292		AM-Pipe	Column	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
238	238	293	294		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
239	239	295	296		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
240	240	297	298		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
241	241	299	300		RIGID	None	None	RIGID	Typical
242	242	301	302		RIGID	None	None	RIGID	Typical
243	243	303	304		RIGID	None	None	RIGID	Typical
244	244	305	306		RIGID	None	None	RIGID	Typical
245	245	307	308		RIGID	None	None	RIGID	Typical
246	246	309	310		RIGID	None	None	RIGID	Typical
247	247	311	312		RIGID	None	None	RIGID	Typical
248	248	313	314		RIGID	None	None	RIGID	Typical
249	249	315	316		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
250	250	317	318		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
251	251	319	320		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
252	252	321	322		AM-Pipe	Column	Pipe	A53 Gr.B	Typical
253	253	361	365	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
254	254	327	361	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
255	255	344	327	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
256	256	346	344	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
257	257	347	346	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
258	258	349	347	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
259	259	359	349	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
260	260	360	364	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
261	261	324	360	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
262	262	329	324	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
263	263	330	329	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
264	264	332	330	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
265	265	333	332	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
266	266	326	333	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
267	267	363	367		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
268	268	342	363		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
269	269	351	342		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
270	270	343	351		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
271	271	353	343		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
272	272	355	353		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
273	273	358	355		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
274	274	363	366		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
275	275	342	362		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
276	276	328	351		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
277	277	335	343		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
278	278	352	336		SA-WebDiag-Rod#1	VBrace	RECT	A572 Gr.50	Typical
279	279	353	337		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
280	280	354	338		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
281	281	355	339		SA-WebDiag-Rod#3	VBrace	RECT	A572 Gr.50	Typical
282	282	362	366		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
283	283	328	362		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
284	284	335	328		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
285	285	336	335		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
286	286	338	336		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
287	287	340	338		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
288	288	357	340		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
289	289	367	366	210	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
290	290	363	362	210	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
291	291	342	328		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
292	292	351	335		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
293	293	343	336	210	F1-S8	Column	RECT	A572 Gr.50	Typical
294	294	352	337	210	F1-S9	Column	RECT	A572 Gr.50	Typical
295	295	353	338	210	F1-S9	Column	RECT	A572 Gr.50	Typical
296	296	354	339	210	F1-S7	Column	RECT	A572 Gr.50	Typical
297	297	328	324		RIGID	None	None	RIGID	Typical
298	298	335	329		RIGID	None	None	RIGID	Typical
299	299	336	330		RIGID	None	None	RIGID	Typical
300	300	337	331		RIGID	None	None	RIGID	Typical
301	301	338	332		RIGID	None	None	RIGID	Typical
302	302	339	325		RIGID	None	None	RIGID	Typical
303	303	340	333		RIGID	None	None	RIGID	Typical
304	304	341	334		RIGID	None	None	RIGID	Typical
305	305	357	326		RIGID	None	None	RIGID	Typical
306	306	359	358		RIGID	None	None	RIGID	Typical
307	307	350	356		RIGID	None	None	RIGID	Typical
308	308	349	355		RIGID	None	None	RIGID	Typical
309	309	348	354		RIGID	None	None	RIGID	Typical
310	310	347	353		RIGID	None	None	RIGID	Typical
311	311	345	352		RIGID	None	None	RIGID	Typical
312	312	346	343		RIGID	None	None	RIGID	Typical
313	313	344	351		RIGID	None	None	RIGID	Typical
314	314	327	342		RIGID	None	None	RIGID	Typical
315	315	362	360	90	RIGID	None	None	RIGID	Typical
316	316	366	364	90	RIGID	None	None	RIGID	Typical
317	317	365	367	90	RIGID	None	None	RIGID	Typical
318	318	361	363	90	RIGID	None	None	RIGID	Typical
319	319	368	323		CLAMP	None	None	RIGID	DR1
320	320	340	356		RIGID	None	None	RIGID	Typical
321	321	341	369		RIGID	None	None	RIGID	Typical
322	322	355	340		RIGID	None	None	RIGID	Typical
323	323	356	341		RIGID	None	None	RIGID	Typical
324	324	358	357		RIGID	None	None	RIGID	Typical
325	325	409	413	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
326	326	375	409	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
327	327	392	375	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
328	328	394	392	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
329	329	395	394	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
330	330	397	395	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
331	331	407	397	90	SA-BotChord-Plate	Beam	RECT	A572 Gr.50	Typical
332	332	408	412	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
333	333	372	408	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
334	334	377	372	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
335	335	378	377	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
336	336	380	378	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
337	337	381	380	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
338	338	374	381	90	SA-TopChord-Plate	Beam	RECT	A572 Gr.50	Typical
339	339	411	415		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
340	340	390	411		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
341	341	399	390		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
342	342	391	399		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
343	343	401	391		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
344	344	403	401		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
345	345	406	403		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
346	346	411	414		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
347	347	390	410		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
348	348	376	399		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
349	349	383	391		SA-WebDiag-Plate	VBrace	RECT	A572 Gr.50	Typical
350	350	400	384		SA-WebDiag-Rod#1	VBrace	RECT	A572 Gr.50	Typical
351	351	401	385		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
352	352	402	386		SA-WebDiag-Rod#2	VBrace	RECT	A572 Gr.50	Typical
353	353	403	387		SA-WebDiag-Rod#3	VBrace	RECT	A572 Gr.50	Typical
354	354	410	414		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
355	355	376	410		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
356	356	383	376		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
357	357	384	383		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
358	358	386	384		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
359	359	388	386		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
360	360	405	388		SA-WebChord-Plate	Beam	RECT	A572 Gr.50	Typical
361	361	415	414	150	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
362	362	411	410	150	SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
363	363	390	376		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
364	364	399	383		SA-WebVert-Plate	Column	RECT	A572 Gr.50	Typical
365	365	391	384	150	F1-S8	Column	RECT	A572 Gr.50	Typical
366	366	400	385	150	F1-S9	Column	RECT	A572 Gr.50	Typical
367	367	401	386	150	F1-S9	Column	RECT	A572 Gr.50	Typical
368	368	402	387	150	F1-S7	Column	RECT	A572 Gr.50	Typical
369	369	376	372		RIGID	None	None	RIGID	Typical
370	370	383	377		RIGID	None	None	RIGID	Typical
371	371	384	378		RIGID	None	None	RIGID	Typical
372	372	385	379		RIGID	None	None	RIGID	Typical
373	373	386	380		RIGID	None	None	RIGID	Typical
374	374	387	373		RIGID	None	None	RIGID	Typical
375	375	388	381		RIGID	None	None	RIGID	Typical
376	376	389	382		RIGID	None	None	RIGID	Typical
377	377	405	374		RIGID	None	None	RIGID	Typical
378	378	407	406		RIGID	None	None	RIGID	Typical
379	379	398	404		RIGID	None	None	RIGID	Typical
380	380	397	403		RIGID	None	None	RIGID	Typical
381	381	396	402		RIGID	None	None	RIGID	Typical
382	382	395	401		RIGID	None	None	RIGID	Typical
383	383	393	400		RIGID	None	None	RIGID	Typical
384	384	394	391		RIGID	None	None	RIGID	Typical
385	385	392	399		RIGID	None	None	RIGID	Typical
386	386	375	390		RIGID	None	None	RIGID	Typical
387	387	410	408	90	RIGID	None	None	RIGID	Typical
388	388	414	412	90	RIGID	None	None	RIGID	Typical
389	389	413	415	90	RIGID	None	None	RIGID	Typical
390	390	409	411	90	RIGID	None	None	RIGID	Typical
391	391	416	371		CLAMP	None	None	RIGID	DR1
392	392	388	404		RIGID	None	None	RIGID	Typical
393	393	389	417		RIGID	None	None	RIGID	Typical
394	394	403	388		RIGID	None	None	RIGID	Typical
395	395	404	389		RIGID	None	None	RIGID	Typical
396	396	406	405		RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
1	1				Yes	N/A	None
2	2				Yes	N/A	None
3	3				Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
4	4				Yes	N/A	None
5	5				Yes	N/A	None
6	6				Yes	N/A	None
7	7				Yes	N/A	None
8	8				Yes	N/A	None
9	9				Yes	N/A	None
10	10				Yes	N/A	None
11	11				Yes	N/A	None
12	12				Yes	N/A	None
13	13				Yes	N/A	None
14	14				Yes	N/A	None
15	15				Yes	N/A	None
16	16				Yes	N/A	None
17	17				Yes	N/A	None
18	18				Yes	N/A	None
19	19				Yes	N/A	None
20	20				Yes	N/A	None
21	21				Yes	N/A	None
22	22				Yes	N/A	None
23	23				Yes	N/A	None
24	24				Yes	N/A	None
25	25				Yes	Default	None
26	26				Yes	N/A	None
27	27				Yes	N/A	None
28	28				Yes	N/A	None
29	29				Yes	N/A	None
30	30				Yes	N/A	None
31	31				Yes	N/A	None
32	32				Yes	N/A	None
33	33				Yes	N/A	None
34	34				Yes	N/A	None
35	35				Yes	N/A	None
36	36				Yes	N/A	None
37	37				Yes	N/A	None
38	38				Yes	N/A	None
39	39				Yes	N/A	None
40	40				Yes	N/A	None
41	41				Yes	N/A	None
42	42				Yes	N/A	None
43	43				Yes	N/A	None
44	44				Yes	N/A	None
45	45				Yes	N/A	None
46	46				Yes	N/A	None
47	47				Yes	N/A	None
48	48				Yes	N/A	None
49	49				Yes	N/A	None
50	50				Yes	N/A	None
51	51				Yes	N/A	None
52	52				Yes	N/A	None
53	53				Yes	N/A	None
54	54				Yes	N/A	None
55	55				Yes	N/A	None
56	56				Yes	N/A	None
57	57				Yes	N/A	None
58	58				Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
59	59				Yes	N/A	None
60	60				Yes	N/A	None
61	61				Yes	N/A	None
62	62				Yes	N/A	None
63	63				Yes	N/A	None
64	64				Yes	** NA **	None
65	65				Yes	** NA **	None
66	66				Yes	** NA **	None
67	67				Yes	** NA **	None
68	68				Yes	** NA **	None
69	69				Yes	** NA **	None
70	70				Yes	** NA **	None
71	71				Yes	** NA **	None
72	72			Euler Buckling	Yes	N/A	None
73	73			Euler Buckling	Yes	N/A	None
74	74			Euler Buckling	Yes	N/A	None
75	75			Euler Buckling	Yes	N/A	None
76	76			Euler Buckling	Yes	N/A	None
77	77			Euler Buckling	Yes	N/A	None
78	78			Euler Buckling	Yes	N/A	None
79	79			Euler Buckling	Yes	** NA **	None
80	80			Euler Buckling	Yes	** NA **	None
81	81			Euler Buckling	Yes	** NA **	None
82	82			Euler Buckling	Yes	** NA **	None
83	83			Euler Buckling	Yes	** NA **	None
84	84			Euler Buckling	Yes	** NA **	None
85	85			Euler Buckling	Yes	** NA **	None
86	86			Euler Buckling	Yes	** NA **	None
87	87		OOOXOO		Yes	** NA **	None
88	88		OOOXOO		Yes	** NA **	None
89	89		OOOXOO		Yes	** NA **	None
90	90		OOOXOO		Yes	** NA **	None
91	91		OOOXOO		Yes	** NA **	None
92	92		OOOXOO		Yes	** NA **	None
93	93		OOOXOO		Yes	** NA **	None
94	94		OOOXOO		Yes	** NA **	None
95	95		OOOXOO		Yes	** NA **	None
96	96		OOOXOO		Yes	** NA **	None
97	97		OOOXOO		Yes	** NA **	None
98	98		OOOXOO		Yes	** NA **	None
99	99				Yes	** NA **	None
100	100				Yes	** NA **	None
101	101				Yes	** NA **	None
102	102				Yes	** NA **	None
103	103				Yes	** NA **	None
104	104				Yes	** NA **	None
105	105				Yes	** NA **	None
106	106				Yes	** NA **	None
107	107				Yes	** NA **	None
108	108				Yes	** NA **	None
109	109				Yes	** NA **	None
110	110				Yes	** NA **	None
111	111				Yes	** NA **	None
112	112				Yes	** NA **	None
113	113				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
114	114				Yes	** NA **	None
115	115				Yes	** NA **	None
116	116				Yes	** NA **	None
117	117				Yes	** NA **	None
118	118				Yes	** NA **	None
119	119				Yes	** NA **	None
120	120				Yes	** NA **	None
121	121				Yes	** NA **	None
122	122				Yes	** NA **	None
123	123				Yes	** NA **	None
124	124				Yes	** NA **	None
125	125				Yes	** NA **	None
126	126				Yes	** NA **	None
127	127				Yes	** NA **	None
128	128				Yes	** NA **	None
129	129				Yes	** NA **	None
130	130				Yes	** NA **	None
131	131				Yes	** NA **	None
132	132				Yes	** NA **	None
133	133				Yes	** NA **	None
134	134				Yes	** NA **	None
135	135				Yes	** NA **	None
136	136				Yes	** NA **	None
137	137				Yes	** NA **	None
138	138				Yes	** NA **	None
139	139				Yes	** NA **	None
140	140				Yes	** NA **	None
141	141				Yes	** NA **	None
142	142				Yes	** NA **	None
143	143				Yes	** NA **	None
144	144				Yes	** NA **	None
145	145				Yes	** NA **	None
146	146				Yes	** NA **	None
147	147				Yes	** NA **	None
148	148				Yes	** NA **	None
149	149				Yes	** NA **	None
150	150				Yes	** NA **	None
151	151				Yes	** NA **	None
152	152				Yes	** NA **	None
153	153				Yes	** NA **	None
154	154				Yes	** NA **	None
155	155				Yes	** NA **	None
156	156				Yes	** NA **	None
157	157				Yes	** NA **	None
158	158				Yes	** NA **	None
159	159				Yes	** NA **	None
160	160				Yes	** NA **	None
161	161				Yes	** NA **	None
162	162				Yes	** NA **	None
163	163				Yes	** NA **	None
164	164				Yes	** NA **	None
165	165				Yes	** NA **	None
166	166				Yes	** NA **	None
167	167				Yes	** NA **	None
168	168				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
169	169				Yes	** NA **	None
170	170				Yes	** NA **	None
171	171				Yes	** NA **	None
172	172				Yes	** NA **	None
173	173				Yes	** NA **	None
174	174				Yes	** NA **	None
175	175				Yes	** NA **	None
176	176				Yes	** NA **	None
177	177				Yes	** NA **	None
178	178				Yes	** NA **	None
179	179				Yes	** NA **	None
180	180				Yes	** NA **	None
181	181				Yes	** NA **	None
182	182				Yes	** NA **	None
183	183				Yes	** NA **	None
184	184				Yes	** NA **	None
185	185				Yes	** NA **	None
186	186				Yes	** NA **	None
187	187				Yes	** NA **	None
188	188				Yes	N/A	None
189	189				Yes	Default	None
190	190				Yes	N/A	None
191	191				Yes	** NA **	None
192	192				Yes	** NA **	None
193	193	BenPIN	BenPIN		Yes	Default	None
194	194	BenPIN	BenPIN		Yes	Default	None
195	195	BenPIN	BenPIN		Yes	Default	None
196	196				Yes	N/A	None
197	197				Yes	N/A	None
198	198				Yes	N/A	None
199	199				Yes	N/A	None
200	200				Yes	N/A	None
201	201				Yes	N/A	None
202	202				Yes	N/A	None
203	203				Yes	N/A	None
204	204				Yes	N/A	None
205	205				Yes	N/A	None
206	206				Yes	N/A	None
207	207				Yes	N/A	None
208	208				Yes	N/A	None
209	209				Yes	N/A	None
210	210				Yes	N/A	None
211	211	OOOXOO	OOOXOO		Yes	N/A	None
212	212	OOOXOO	OOOXOO		Yes	N/A	None
213	213	OOOXOO	OOOXOO		Yes	N/A	None
214	214	OOOXOO	OOOXOO		Yes	N/A	None
215	215	OOOXOO	OOOXOO		Yes	N/A	None
216	216	OOOXOO	OOOXOO		Yes	N/A	None
217	217				Yes	** NA **	None
218	218				Yes	** NA **	None
219	219				Yes	** NA **	None
220	220				Yes	** NA **	None
221	221				Yes	** NA **	None
222	222				Yes	** NA **	None
223	223				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
224	224				Yes	** NA **	None
225	225				Yes	** NA **	None
226	226				Yes	** NA **	None
227	227				Yes	** NA **	None
228	228				Yes	** NA **	None
229	229				Yes	** NA **	None
230	230				Yes	** NA **	None
231	231				Yes	** NA **	None
232	232				Yes	** NA **	None
233	233				Yes	** NA **	None
234	234				Yes	** NA **	None
235	235				Yes	** NA **	None
236	236				Yes	** NA **	None
237	237				Yes	** NA **	None
238	238				Yes	** NA **	None
239	239				Yes	** NA **	None
240	240				Yes	** NA **	None
241	241				Yes	** NA **	None
242	242				Yes	** NA **	None
243	243				Yes	** NA **	None
244	244				Yes	** NA **	None
245	245				Yes	** NA **	None
246	246				Yes	** NA **	None
247	247				Yes	** NA **	None
248	248				Yes	** NA **	None
249	249				Yes	** NA **	None
250	250				Yes	** NA **	None
251	251				Yes	** NA **	None
252	252				Yes	** NA **	None
253	253				Yes	N/A	None
254	254				Yes	N/A	None
255	255				Yes	N/A	None
256	256				Yes	N/A	None
257	257				Yes	N/A	None
258	258				Yes	N/A	None
259	259				Yes	N/A	None
260	260				Yes	N/A	None
261	261				Yes	N/A	None
262	262				Yes	N/A	None
263	263				Yes	N/A	None
264	264				Yes	N/A	None
265	265				Yes	N/A	None
266	266				Yes	N/A	None
267	267				Yes	N/A	None
268	268				Yes	N/A	None
269	269				Yes	N/A	None
270	270				Yes	N/A	None
271	271				Yes	N/A	None
272	272				Yes	N/A	None
273	273				Yes	N/A	None
274	274				Yes	** NA **	None
275	275				Yes	** NA **	None
276	276				Yes	** NA **	None
277	277				Yes	** NA **	None
278	278				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
279	279				Yes	** NA **	None
280	280				Yes	** NA **	None
281	281				Yes	** NA **	None
282	282			Euler Buckling	Yes	N/A	None
283	283			Euler Buckling	Yes	N/A	None
284	284			Euler Buckling	Yes	N/A	None
285	285			Euler Buckling	Yes	N/A	None
286	286			Euler Buckling	Yes	N/A	None
287	287			Euler Buckling	Yes	N/A	None
288	288			Euler Buckling	Yes	N/A	None
289	289			Euler Buckling	Yes	** NA **	None
290	290			Euler Buckling	Yes	** NA **	None
291	291			Euler Buckling	Yes	** NA **	None
292	292			Euler Buckling	Yes	** NA **	None
293	293			Euler Buckling	Yes	** NA **	None
294	294			Euler Buckling	Yes	** NA **	None
295	295			Euler Buckling	Yes	** NA **	None
296	296			Euler Buckling	Yes	** NA **	None
297	297				Yes	** NA **	None
298	298				Yes	** NA **	None
299	299				Yes	** NA **	None
300	300				Yes	** NA **	None
301	301				Yes	** NA **	None
302	302				Yes	** NA **	None
303	303				Yes	** NA **	None
304	304				Yes	** NA **	None
305	305				Yes	** NA **	None
306	306				Yes	** NA **	None
307	307				Yes	** NA **	None
308	308				Yes	** NA **	None
309	309				Yes	** NA **	None
310	310				Yes	** NA **	None
311	311				Yes	** NA **	None
312	312				Yes	** NA **	None
313	313				Yes	** NA **	None
314	314				Yes	** NA **	None
315	315				Yes	** NA **	None
316	316				Yes	** NA **	None
317	317				Yes	** NA **	None
318	318				Yes	** NA **	None
319	319				Yes	** NA **	None
320	320				Yes	** NA **	None
321	321				Yes	** NA **	None
322	322				Yes	** NA **	None
323	323				Yes	** NA **	None
324	324				Yes	** NA **	None
325	325				Yes	N/A	None
326	326				Yes	N/A	None
327	327				Yes	N/A	None
328	328				Yes	N/A	None
329	329				Yes	N/A	None
330	330				Yes	N/A	None
331	331				Yes	N/A	None
332	332				Yes	N/A	None
333	333				Yes	N/A	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
334	334				Yes	N/A	None
335	335				Yes	N/A	None
336	336				Yes	N/A	None
337	337				Yes	N/A	None
338	338				Yes	N/A	None
339	339				Yes	N/A	None
340	340				Yes	N/A	None
341	341				Yes	N/A	None
342	342				Yes	N/A	None
343	343				Yes	N/A	None
344	344				Yes	N/A	None
345	345				Yes	N/A	None
346	346				Yes	** NA **	None
347	347				Yes	** NA **	None
348	348				Yes	** NA **	None
349	349				Yes	** NA **	None
350	350				Yes	** NA **	None
351	351				Yes	** NA **	None
352	352				Yes	** NA **	None
353	353				Yes	** NA **	None
354	354			Euler Buckling	Yes	N/A	None
355	355			Euler Buckling	Yes	N/A	None
356	356			Euler Buckling	Yes	N/A	None
357	357			Euler Buckling	Yes	N/A	None
358	358			Euler Buckling	Yes	N/A	None
359	359			Euler Buckling	Yes	N/A	None
360	360			Euler Buckling	Yes	N/A	None
361	361			Euler Buckling	Yes	** NA **	None
362	362			Euler Buckling	Yes	** NA **	None
363	363			Euler Buckling	Yes	** NA **	None
364	364			Euler Buckling	Yes	** NA **	None
365	365			Euler Buckling	Yes	** NA **	None
366	366			Euler Buckling	Yes	** NA **	None
367	367			Euler Buckling	Yes	** NA **	None
368	368			Euler Buckling	Yes	** NA **	None
369	369				Yes	** NA **	None
370	370				Yes	** NA **	None
371	371				Yes	** NA **	None
372	372				Yes	** NA **	None
373	373				Yes	** NA **	None
374	374				Yes	** NA **	None
375	375				Yes	** NA **	None
376	376				Yes	** NA **	None
377	377				Yes	** NA **	None
378	378				Yes	** NA **	None
379	379				Yes	** NA **	None
380	380				Yes	** NA **	None
381	381				Yes	** NA **	None
382	382				Yes	** NA **	None
383	383				Yes	** NA **	None
384	384				Yes	** NA **	None
385	385				Yes	** NA **	None
386	386				Yes	** NA **	None
387	387				Yes	** NA **	None
388	388				Yes	** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	T/C Only	Physical	Deflection Ratio Options	Seismic DR
389	389				Yes	** NA **	None
390	390				Yes	** NA **	None
391	391				Yes	** NA **	None
392	392				Yes	** NA **	None
393	393				Yes	** NA **	None
394	394				Yes	** NA **	None
395	395				Yes	** NA **	None
396	396				Yes	** NA **	None

Hot Rolled Steel Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
1	1	FH-Pipe	12.5			Lbyy	N/A	N/A	Lateral
2	2	FH-Pipe	12.5			Lbyy	N/A	N/A	Lateral
3	3	FH-Pipe	12.5			Lbyy	N/A	N/A	Lateral
4	4	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
5	5	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
6	6	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
7	7	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
8	8	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
9	9	PB-Plate	0.605			Lbyy	N/A	N/A	Lateral
10	10	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
11	11	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
12	12	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
13	13	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
14	14	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
15	15	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
16	16	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
17	17	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
18	18	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
19	19	PF-Angle	2.914	Segment	Segment	Lbyy	N/A	N/A	Lateral
20	20	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
21	21	PF-Angle	2.386	Segment	Segment	Lbyy	N/A	N/A	Lateral
22	22	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
23	23	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
24	24	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
25	25	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
26	26	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
27	27	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
28	28	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
29	29	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
30	30	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
31	31	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
32	32	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
33	33	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
34	34	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
35	35	PJ-Plate	1.124	0.5	0.5	Lbyy	N/A	N/A	Lateral
36	36	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
37	37	PJ-Plate	1.659	0.5	0.5	Lbyy	N/A	N/A	Lateral
38	38	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
39	39	PJ-Plate	0.583	0.5	0.5	Lbyy	N/A	N/A	Lateral
40	40	PS-Tube	4.244			Lbyy	N/A	N/A	Lateral
41	41	PS-Tube	4.244			Lbyy	N/A	N/A	Lateral
42	42	PS-Tube	4.244			Lbyy	N/A	N/A	Lateral
43	43	SA-BotChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
44	44	SA-BotChord-Plate	0.958			Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
45	45	SA-BotChord-Plate	0.742		Lbyy	N/A	N/A	Lateral
46	46	SA-BotChord-Plate	0.667		Lbyy	N/A	N/A	Lateral
47	47	SA-BotChord-Plate	1.045		Lbyy	N/A	N/A	Lateral
48	48	SA-BotChord-Plate	0.741		Lbyy	N/A	N/A	Lateral
49	49	SA-BotChord-Plate	0.748		Lbyy	N/A	N/A	Lateral
50	50	SA-TopChord-Plate	0.917		Lbyy	N/A	N/A	Lateral
51	51	SA-TopChord-Plate	0.958		Lbyy	N/A	N/A	Lateral
52	52	SA-TopChord-Plate	0.718		Lbyy	N/A	N/A	Lateral
53	53	SA-TopChord-Plate	0.648		Lbyy	N/A	N/A	Lateral
54	54	SA-TopChord-Plate	1.023		Lbyy	N/A	N/A	Lateral
55	55	SA-TopChord-Plate	0.725		Lbyy	N/A	N/A	Lateral
56	56	SA-TopChord-Plate	0.761		Lbyy	N/A	N/A	Lateral
57	57	SA-WebChord-Plate	0.917		Lbyy	N/A	N/A	Lateral
58	58	SA-WebChord-Plate	0.957		Lbyy	N/A	N/A	Lateral
59	59	SA-WebChord-Plate	0.731		Lbyy	N/A	N/A	Lateral
60	60	SA-WebChord-Plate	0.667		Lbyy	N/A	N/A	Lateral
61	61	SA-WebChord-Plate	1.045		Lbyy	N/A	N/A	Lateral
62	62	SA-WebChord-Plate	0.741		Lbyy	N/A	N/A	Lateral
63	63	SA-WebChord-Plate	0.759		Lbyy	N/A	N/A	Lateral
64	64	SA-WebDiag-Plate	1.264		Lbyy	N/A	N/A	Lateral
65	65	SA-WebDiag-Plate	1.294		Lbyy	N/A	N/A	Lateral
66	66	SA-WebDiag-Plate	1.013		Lbyy	N/A	N/A	Lateral
67	67	SA-WebDiag-Plate	0.872		Lbyy	N/A	N/A	Lateral
68	68	SA-WebDiag-Rod#1	0.727		Lbyy	N/A	N/A	Lateral
69	69	SA-WebDiag-Rod#2	0.595		Lbyy	N/A	N/A	Lateral
70	70	SA-WebDiag-Rod#2	0.487		Lbyy	N/A	N/A	Lateral
71	71	SA-WebDiag-Rod#3	0.397		Lbyy	N/A	N/A	Lateral
72	72	SA-WebChord-Plate	0.917		Lbyy	N/A	N/A	Lateral
73	73	SA-WebChord-Plate	0.958		Lbyy	N/A	N/A	Lateral
74	74	SA-WebChord-Plate	0.718		Lbyy	N/A	N/A	Lateral
75	75	SA-WebChord-Plate	0.648		Lbyy	N/A	N/A	Lateral
76	76	SA-WebChord-Plate	1.023		Lbyy	N/A	N/A	Lateral
77	77	SA-WebChord-Plate	0.725		Lbyy	N/A	N/A	Lateral
78	78	SA-WebChord-Plate	0.761		Lbyy	N/A	N/A	Lateral
79	79	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
80	80	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
81	81	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
82	82	SA-WebVert-Plate	0.719		Lbyy	N/A	N/A	Lateral
83	83	F1-S8	0.583		Lbyy	N/A	N/A	Lateral
84	84	F1-S9	0.467		Lbyy	N/A	N/A	Lateral
85	85	F1-S9	0.37		Lbyy	N/A	N/A	Lateral
86	86	F1-S7	0.288		Lbyy	N/A	N/A	Lateral
87	188	Support Rail	12.5		Lbyy	N/A	N/A	Lateral
88	189	Support Rail	12.5		Lbyy	N/A	N/A	Lateral
89	190	Support Rail	12.5		Lbyy	N/A	N/A	Lateral
90	193	SR-CA1	2.437		Lbyy	N/A	N/A	Lateral
91	194	SR-CA1	2.437		Lbyy	N/A	N/A	Lateral
92	195	SR-CA1	2.437		Lbyy	N/A	N/A	Lateral
93	196	Plate	1.667	0.833	0.833	Lbyy	N/A	Lateral
94	197	Plate	1.667	0.833	0.833	Lbyy	N/A	Lateral
95	198	Plate	1.667	0.833	0.833	Lbyy	N/A	Lateral
96	199	Plate	1.667	0.833	0.833	Lbyy	N/A	Lateral
97	200	Plate	1.667	0.833	0.833	Lbyy	N/A	Lateral
98	201	Plate	1.667	0.833	0.833	Lbyy	N/A	Lateral
99	202	Plate	1.667	0.833	0.833	Lbyy	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
100	203	Plate	1.667	0.833	0.833	Lbyy	N/A	N/A	Lateral
101	204	Plate	1.667	0.833	0.833	Lbyy	N/A	N/A	Lateral
102	205	Plate	1.667	0.833	0.833	Lbyy	N/A	N/A	Lateral
103	206	Plate	1.667	0.833	0.833	Lbyy	N/A	N/A	Lateral
104	207	Plate	1.667	0.833	0.833	Lbyy	N/A	N/A	Lateral
105	208	Plate	1.667	0.833	0.833	Lbyy	N/A	N/A	Lateral
106	209	Plate	1.667	0.833	0.833	Lbyy	N/A	N/A	Lateral
107	210	Plate	1.667	0.833	0.833	Lbyy	N/A	N/A	Lateral
108	211	F1-SP1	6.142			Lbyy	N/A	N/A	Lateral
109	212	F1-SP1	6.142			Lbyy	N/A	N/A	Lateral
110	213	F1-SP1	6.142			Lbyy	N/A	N/A	Lateral
111	214	F1-SP1	6.142			Lbyy	N/A	N/A	Lateral
112	215	F1-SP1	6.142			Lbyy	N/A	N/A	Lateral
113	216	F1-SP1	6.142			Lbyy	N/A	N/A	Lateral
114	225	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
115	226	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
116	227	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
117	228	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
118	237	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
119	238	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
120	239	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
121	240	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
122	249	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
123	250	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
124	251	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
125	252	AM-Pipe	10			Lbyy	N/A	N/A	Lateral
126	253	SA-BotChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
127	254	SA-BotChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
128	255	SA-BotChord-Plate	0.742			Lbyy	N/A	N/A	Lateral
129	256	SA-BotChord-Plate	0.667			Lbyy	N/A	N/A	Lateral
130	257	SA-BotChord-Plate	1.045			Lbyy	N/A	N/A	Lateral
131	258	SA-BotChord-Plate	0.741			Lbyy	N/A	N/A	Lateral
132	259	SA-BotChord-Plate	0.748			Lbyy	N/A	N/A	Lateral
133	260	SA-TopChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
134	261	SA-TopChord-Plate	0.958			Lbyy	N/A	N/A	Lateral
135	262	SA-TopChord-Plate	0.718			Lbyy	N/A	N/A	Lateral
136	263	SA-TopChord-Plate	0.648			Lbyy	N/A	N/A	Lateral
137	264	SA-TopChord-Plate	1.023			Lbyy	N/A	N/A	Lateral
138	265	SA-TopChord-Plate	0.725			Lbyy	N/A	N/A	Lateral
139	266	SA-TopChord-Plate	0.761			Lbyy	N/A	N/A	Lateral
140	267	SA-WebChord-Plate	0.917			Lbyy	N/A	N/A	Lateral
141	268	SA-WebChord-Plate	0.957			Lbyy	N/A	N/A	Lateral
142	269	SA-WebChord-Plate	0.731			Lbyy	N/A	N/A	Lateral
143	270	SA-WebChord-Plate	0.667			Lbyy	N/A	N/A	Lateral
144	271	SA-WebChord-Plate	1.045			Lbyy	N/A	N/A	Lateral
145	272	SA-WebChord-Plate	0.741			Lbyy	N/A	N/A	Lateral
146	273	SA-WebChord-Plate	0.759			Lbyy	N/A	N/A	Lateral
147	274	SA-WebDiag-Plate	1.264			Lbyy	N/A	N/A	Lateral
148	275	SA-WebDiag-Plate	1.294			Lbyy	N/A	N/A	Lateral
149	276	SA-WebDiag-Plate	1.013			Lbyy	N/A	N/A	Lateral
150	277	SA-WebDiag-Plate	0.872			Lbyy	N/A	N/A	Lateral
151	278	SA-WebDiag-Rod#1	0.727			Lbyy	N/A	N/A	Lateral
152	279	SA-WebDiag-Rod#2	0.595			Lbyy	N/A	N/A	Lateral
153	280	SA-WebDiag-Rod#2	0.487			Lbyy	N/A	N/A	Lateral
154	281	SA-WebDiag-Rod#3	0.397			Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
155	282	SA-WebChord-Plate	0.917		Lbyy	N/A	N/A	Lateral
156	283	SA-WebChord-Plate	0.958		Lbyy	N/A	N/A	Lateral
157	284	SA-WebChord-Plate	0.718		Lbyy	N/A	N/A	Lateral
158	285	SA-WebChord-Plate	0.648		Lbyy	N/A	N/A	Lateral
159	286	SA-WebChord-Plate	1.023		Lbyy	N/A	N/A	Lateral
160	287	SA-WebChord-Plate	0.725		Lbyy	N/A	N/A	Lateral
161	288	SA-WebChord-Plate	0.761		Lbyy	N/A	N/A	Lateral
162	289	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
163	290	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
164	291	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
165	292	SA-WebVert-Plate	0.719		Lbyy	N/A	N/A	Lateral
166	293	F1-S8	0.583		Lbyy	N/A	N/A	Lateral
167	294	F1-S9	0.467		Lbyy	N/A	N/A	Lateral
168	295	F1-S9	0.37		Lbyy	N/A	N/A	Lateral
169	296	F1-S7	0.288		Lbyy	N/A	N/A	Lateral
170	325	SA-BotChord-Plate	0.917		Lbyy	N/A	N/A	Lateral
171	326	SA-BotChord-Plate	0.958		Lbyy	N/A	N/A	Lateral
172	327	SA-BotChord-Plate	0.742		Lbyy	N/A	N/A	Lateral
173	328	SA-BotChord-Plate	0.667		Lbyy	N/A	N/A	Lateral
174	329	SA-BotChord-Plate	1.045		Lbyy	N/A	N/A	Lateral
175	330	SA-BotChord-Plate	0.741		Lbyy	N/A	N/A	Lateral
176	331	SA-BotChord-Plate	0.748		Lbyy	N/A	N/A	Lateral
177	332	SA-TopChord-Plate	0.917		Lbyy	N/A	N/A	Lateral
178	333	SA-TopChord-Plate	0.958		Lbyy	N/A	N/A	Lateral
179	334	SA-TopChord-Plate	0.718		Lbyy	N/A	N/A	Lateral
180	335	SA-TopChord-Plate	0.648		Lbyy	N/A	N/A	Lateral
181	336	SA-TopChord-Plate	1.023		Lbyy	N/A	N/A	Lateral
182	337	SA-TopChord-Plate	0.725		Lbyy	N/A	N/A	Lateral
183	338	SA-TopChord-Plate	0.761		Lbyy	N/A	N/A	Lateral
184	339	SA-WebChord-Plate	0.917		Lbyy	N/A	N/A	Lateral
185	340	SA-WebChord-Plate	0.957		Lbyy	N/A	N/A	Lateral
186	341	SA-WebChord-Plate	0.731		Lbyy	N/A	N/A	Lateral
187	342	SA-WebChord-Plate	0.667		Lbyy	N/A	N/A	Lateral
188	343	SA-WebChord-Plate	1.045		Lbyy	N/A	N/A	Lateral
189	344	SA-WebChord-Plate	0.741		Lbyy	N/A	N/A	Lateral
190	345	SA-WebChord-Plate	0.759		Lbyy	N/A	N/A	Lateral
191	346	SA-WebDiag-Plate	1.264		Lbyy	N/A	N/A	Lateral
192	347	SA-WebDiag-Plate	1.294		Lbyy	N/A	N/A	Lateral
193	348	SA-WebDiag-Plate	1.013		Lbyy	N/A	N/A	Lateral
194	349	SA-WebDiag-Plate	0.872		Lbyy	N/A	N/A	Lateral
195	350	SA-WebDiag-Rod#1	0.727		Lbyy	N/A	N/A	Lateral
196	351	SA-WebDiag-Rod#2	0.595		Lbyy	N/A	N/A	Lateral
197	352	SA-WebDiag-Rod#2	0.487		Lbyy	N/A	N/A	Lateral
198	353	SA-WebDiag-Rod#3	0.397		Lbyy	N/A	N/A	Lateral
199	354	SA-WebChord-Plate	0.917		Lbyy	N/A	N/A	Lateral
200	355	SA-WebChord-Plate	0.958		Lbyy	N/A	N/A	Lateral
201	356	SA-WebChord-Plate	0.718		Lbyy	N/A	N/A	Lateral
202	357	SA-WebChord-Plate	0.648		Lbyy	N/A	N/A	Lateral
203	358	SA-WebChord-Plate	1.023		Lbyy	N/A	N/A	Lateral
204	359	SA-WebChord-Plate	0.725		Lbyy	N/A	N/A	Lateral
205	360	SA-WebChord-Plate	0.761		Lbyy	N/A	N/A	Lateral
206	361	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
207	362	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
208	363	SA-WebVert-Plate	0.871		Lbyy	N/A	N/A	Lateral
209	364	SA-WebVert-Plate	0.719		Lbyy	N/A	N/A	Lateral

Hot Rolled Steel Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lb z-z [ft]	Lcomp top [ft]	Channel Conn.	a [ft]	Function
210	365	F1-S8	0.583			Lbyy	N/A	N/A	Lateral
211	366	F1-S9	0.467			Lbyy	N/A	N/A	Lateral
212	367	F1-S9	0.37			Lbyy	N/A	N/A	Lateral
213	368	F1-S7	0.288			Lbyy	N/A	N/A	Lateral

Member Point Loads (BLC 1 : Dead)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	Y	-0.128	%25
2	228	Y	-0.12	%75
3	228	Y	-0.063	%20
4	228	Y	-0.075	%20
5	228	Y	-0.019	%55
6	227	Y	-0.041	%40
7	227	Y	-0.041	%65
8	227	Y	0	0
9	227	Y	0	0
10	227	Y	0	0
11	252	Y	-0.128	%25
12	252	Y	-0.12	%75
13	252	Y	-0.063	%20
14	252	Y	-0.075	%20
15	252	Y	-0.019	%55
16	251	Y	-0.041	%40
17	251	Y	-0.041	%65
18	251	Y	0	0
19	251	Y	0	0
20	251	Y	0	0
21	240	Y	-0.128	%25
22	240	Y	-0.12	%75
23	240	Y	-0.063	%20
24	240	Y	-0.075	%20
25	240	Y	-0.019	%55
26	239	Y	-0.041	%40
27	239	Y	-0.041	%65
28	239	Y	0	0
29	239	Y	0	0
30	239	Y	0	0
31	188	Y	-0.032	%80
32	188	Y	0	0
33	188	Y	0	0
34	188	Y	0	0
35	188	Y	0	0

Member Point Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	Z	-0.188	%25
2	228	Z	-0.258	%75
3	228	Z	-0.035	%20
4	228	Z	-0.04	%20
5	228	Z	-0.032	%55
6	227	Z	-0.075	%40
7	227	Z	-0.075	%65
8	227	Z	0	0

Member Point Loads (BLC 2 : 0 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
9	227	Z	0	0
10	227	Z	0	0
11	252	Z	-0.188	%25
12	252	Z	-0.258	%75
13	252	Z	-0.035	%20
14	252	Z	-0.04	%20
15	252	Z	-0.032	%55
16	251	Z	-0.075	%40
17	251	Z	-0.075	%65
18	251	Z	0	0
19	251	Z	0	0
20	251	Z	0	0
21	240	Z	-0.188	%25
22	240	Z	-0.258	%75
23	240	Z	-0.035	%20
24	240	Z	-0.04	%20
25	240	Z	-0.032	%55
26	239	Z	-0.075	%40
27	239	Z	-0.075	%65
28	239	Z	0	0
29	239	Z	0	0
30	239	Z	0	0
31	188	Z	-0.13	%80
32	188	Z	0	0
33	188	Z	0	0
34	188	Z	0	0
35	188	Z	0	0

Member Point Loads (BLC 3 : 90 Wind - No Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	X	-0.112	%25
2	228	X	-0.155	%75
3	228	X	-0.047	%20
4	228	X	-0.06	%20
5	228	X	-0.015	%55
6	227	X	-0.026	%40
7	227	X	-0.026	%65
8	227	X	0	0
9	227	X	0	0
10	227	X	0	0
11	252	X	-0.112	%25
12	252	X	-0.155	%75
13	252	X	-0.047	%20
14	252	X	-0.06	%20
15	252	X	-0.015	%55
16	251	X	-0.026	%40
17	251	X	-0.026	%65
18	251	X	0	0
19	251	X	0	0
20	251	X	0	0
21	240	X	-0.112	%25
22	240	X	-0.155	%75
23	240	X	-0.047	%20
24	240	X	-0.06	%20
25	240	X	-0.015	%55

Member Point Loads (BLC 3 : 90 Wind - No Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
26	239	X	-0.026	%40
27	239	X	-0.026	%65
28	239	X	0	0
29	239	X	0	0
30	239	X	0	0
31	188	X	-0.099	%80
32	188	X	0	0
33	188	X	0	0
34	188	X	0	0
35	188	X	0	0

Member Point Loads (BLC 4 : 0 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	Z	-0.044	%25
2	228	Z	-0.048	%75
3	228	Z	-0.007	%20
4	228	Z	-0.007	%20
5	228	Z	-0.006	%55
6	227	Z	-0.014	%40
7	227	Z	-0.014	%65
8	227	Z	0	0
9	227	Z	0	0
10	227	Z	0	0
11	252	Z	-0.044	%25
12	252	Z	-0.048	%75
13	252	Z	-0.007	%20
14	252	Z	-0.007	%20
15	252	Z	-0.006	%55
16	251	Z	-0.014	%40
17	251	Z	-0.014	%65
18	251	Z	0	0
19	251	Z	0	0
20	251	Z	0	0
21	240	Z	-0.044	%25
22	240	Z	-0.048	%75
23	240	Z	-0.007	%20
24	240	Z	-0.007	%20
25	240	Z	-0.006	%55
26	239	Z	-0.014	%40
27	239	Z	-0.014	%65
28	239	Z	0	0
29	239	Z	0	0
30	239	Z	0	0
31	188	Z	-0.024	%80
32	188	Z	0	0
33	188	Z	0	0
34	188	Z	0	0
35	188	Z	0	0

Member Point Loads (BLC 5 : 90 Wind - Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	X	-0.03	%25
2	228	X	-0.029	%75

Member Point Loads (BLC 5 : 90 Wind - Ice) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
3	228	X	-0.009	%20
4	228	X	-0.011	%20
5	228	X	-0.003	%55
6	227	X	-0.005	%40
7	227	X	-0.005	%65
8	227	X	0	0
9	227	X	0	0
10	227	X	0	0
11	252	X	-0.03	%25
12	252	X	-0.029	%75
13	252	X	-0.009	%20
14	252	X	-0.011	%20
15	252	X	-0.003	%55
16	251	X	-0.005	%40
17	251	X	-0.005	%65
18	251	X	0	0
19	251	X	0	0
20	251	X	0	0
21	240	X	-0.03	%25
22	240	X	-0.029	%75
23	240	X	-0.009	%20
24	240	X	-0.011	%20
25	240	X	-0.003	%55
26	239	X	-0.005	%40
27	239	X	-0.005	%65
28	239	X	0	0
29	239	X	0	0
30	239	X	0	0
31	188	X	-0.018	%80
32	188	X	0	0
33	188	X	0	0
34	188	X	0	0
35	188	X	0	0

Member Point Loads (BLC 6 : 0 Wind - Service)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	Z	-0.013	%25
2	228	Z	-0.017	%75
3	228	Z	-0.002	%20
4	228	Z	-0.003	%20
5	228	Z	-0.002	%55
6	227	Z	-0.005	%40
7	227	Z	-0.005	%65
8	227	Z	0	0
9	227	Z	0	0
10	227	Z	0	0
11	252	Z	-0.013	%25
12	252	Z	-0.017	%75
13	252	Z	-0.002	%20
14	252	Z	-0.003	%20
15	252	Z	-0.002	%55
16	251	Z	-0.005	%40
17	251	Z	-0.005	%65
18	251	Z	0	0
19	251	Z	0	0

Member Point Loads (BLC 6 : 0 Wind - Service) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
20	251	Z	0	0
21	240	Z	-0.013	%25
22	240	Z	-0.017	%75
23	240	Z	-0.002	%20
24	240	Z	-0.003	%20
25	240	Z	-0.002	%55
26	239	Z	-0.005	%40
27	239	Z	-0.005	%65
28	239	Z	0	0
29	239	Z	0	0
30	239	Z	0	0
31	188	Z	-0.009	%80
32	188	Z	0	0
33	188	Z	0	0
34	188	Z	0	0
35	188	Z	0	0

Member Point Loads (BLC 7 : 90 Wind - Service)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	X	-0.007	%25
2	228	X	-0.01	%75
3	228	X	-0.003	%20
4	228	X	-0.004	%20
5	228	X	-0.001	%55
6	227	X	-0.002	%40
7	227	X	-0.002	%65
8	227	X	0	0
9	227	X	0	0
10	227	X	0	0
11	252	X	-0.007	%25
12	252	X	-0.01	%75
13	252	X	-0.003	%20
14	252	X	-0.004	%20
15	252	X	-0.001	%55
16	251	X	-0.002	%40
17	251	X	-0.002	%65
18	251	X	0	0
19	251	X	0	0
20	251	X	0	0
21	240	X	-0.007	%25
22	240	X	-0.01	%75
23	240	X	-0.003	%20
24	240	X	-0.004	%20
25	240	X	-0.001	%55
26	239	X	-0.002	%40
27	239	X	-0.002	%65
28	239	X	0	0
29	239	X	0	0
30	239	X	0	0
31	188	X	-0.007	%80
32	188	X	0	0
33	188	X	0	0
34	188	X	0	0
35	188	X	0	0

Member Point Loads (BLC 8 : Ice)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	Y	-0.27	%25
2	228	Y	-0.176	%75
3	228	Y	-0.039	%20
4	228	Y	-0.047	%20
5	228	Y	-0.025	%55
6	227	Y	-0.052	%40
7	227	Y	-0.052	%65
8	227	Y	0	0
9	227	Y	0	0
10	227	Y	0	0
11	252	Y	-0.27	%25
12	252	Y	-0.176	%75
13	252	Y	-0.039	%20
14	252	Y	-0.047	%20
15	252	Y	-0.025	%55
16	251	Y	-0.052	%40
17	251	Y	-0.052	%65
18	251	Y	0	0
19	251	Y	0	0
20	251	Y	0	0
21	240	Y	-0.27	%25
22	240	Y	-0.176	%75
23	240	Y	-0.039	%20
24	240	Y	-0.047	%20
25	240	Y	-0.025	%55
26	239	Y	-0.052	%40
27	239	Y	-0.052	%65
28	239	Y	0	0
29	239	Y	0	0
30	239	Y	0	0
31	188	Y	-0.105	%80
32	188	Y	0	0
33	188	Y	0	0
34	188	Y	0	0
35	188	Y	0	0

Member Point Loads (BLC 9 : 0 Seismic)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	Z	-0.013	%25
2	228	Z	-0.012	%75
3	228	Z	-0.006	%20
4	228	Z	-0.008	%20
5	228	Z	-0.002	%55
6	227	Z	-0.008	%40
7	227	Z	-0.008	%65
8	227	Z	0	0
9	227	Z	0	0
10	227	Z	0	0
11	252	Z	-0.013	%25
12	252	Z	-0.012	%75
13	252	Z	-0.006	%20
14	252	Z	-0.008	%20
15	252	Z	-0.002	%55
16	251	Z	-0.008	%40

Member Point Loads (BLC 9 : 0 Seismic) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
17	251	Z	-0.008	%65
18	251	Z	0	0
19	251	Z	0	0
20	251	Z	0	0
21	240	Z	-0.013	%25
22	240	Z	-0.012	%75
23	240	Z	-0.006	%20
24	240	Z	-0.008	%20
25	240	Z	-0.002	%55
26	239	Z	-0.008	%40
27	239	Z	-0.008	%65
28	239	Z	0	0
29	239	Z	0	0
30	239	Z	0	0
31	188	Z	-0.003	%80
32	188	Z	0	0
33	188	Z	0	0
34	188	Z	0	0
35	188	Z	0	0

Member Point Loads (BLC 10 : 90 Seismic)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	228	X	-0.013	%25
2	228	X	-0.012	%75
3	228	X	-0.006	%20
4	228	X	-0.008	%20
5	228	X	-0.002	%55
6	227	X	-0.008	%40
7	227	X	-0.008	%65
8	227	X	0	0
9	227	X	0	0
10	227	X	0	0
11	252	X	-0.013	%25
12	252	X	-0.012	%75
13	252	X	-0.006	%20
14	252	X	-0.008	%20
15	252	X	-0.002	%55
16	251	X	-0.008	%40
17	251	X	-0.008	%65
18	251	X	0	0
19	251	X	0	0
20	251	X	0	0
21	240	X	-0.013	%25
22	240	X	-0.012	%75
23	240	X	-0.006	%20
24	240	X	-0.008	%20
25	240	X	-0.002	%55
26	239	X	-0.008	%40
27	239	X	-0.008	%65
28	239	X	0	0
29	239	X	0	0
30	239	X	0	0
31	188	X	-0.003	%80
32	188	X	0	0
33	188	X	0	0

Member Point Loads (BLC 10 : 90 Seismic) (Continued)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
34	188	X	0	0
35	188	X	0	0

Member Point Loads (BLC 15 : Maint LL 1)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	188	Y	-0.25	%5

Member Point Loads (BLC 16 : Maint LL 2)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	1	Y	-0.25	%5

Member Point Loads (BLC 17 : Maint LL 3)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	190	Y	-0.25	%5

Member Point Loads (BLC 18 : Maint LL 4)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	3	Y	-0.25	%5

Member Point Loads (BLC 19 : Maint LL 5)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	189	Y	-0.25	%5

Member Point Loads (BLC 20 : Maint LL 6)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	2	Y	-0.25	%5

Member Point Loads (BLC 21 : Maint LL 7)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	188	Y	-0.25	%95

Member Point Loads (BLC 22 : Maint LL 8)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	1	Y	-0.25	%95

Member Point Loads (BLC 23 : Maint LL 9)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	190	Y	-0.25	%95

Member Point Loads (BLC 24 : Maint LL 10)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	3	Y	-0.25	%95

Member Point Loads (BLC 25 : Maint LL 11)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	189	Y	-0.25	%95

Member Point Loads (BLC 26 : Maint LL 12)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	2	Y	-0.25	%95

Member Point Loads (BLC 27 : Maint LL 13)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	40	Y	-0.25	%5

Member Point Loads (BLC 28 : Maint LL 14)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	42	Y	-0.25	%5

Member Point Loads (BLC 29 : Maint LL 15)

	Member Label	Direction	Magnitude [k, k-ft]	Location [(ft, %)]
1	41	Y	-0.25	%5

Member Distributed Loads (BLC 2 : 0 Wind - No Ice)

	Member Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.009	-0.009	0	%100
2	2	Z	-0.009	-0.009	0	%100
3	3	Z	-0.009	-0.009	0	%100
4	4	Z	-0.01	-0.01	0	%100
5	5	Z	-0.01	-0.01	0	%100
6	6	Z	-0.01	-0.01	0	%100
7	7	Z	-0.01	-0.01	0	%100
8	8	Z	-0.01	-0.01	0	%100
9	9	Z	-0.01	-0.01	0	%100
10	10	Z	-0.012	-0.012	0	%100
11	11	Z	-0.012	-0.012	0	%100
12	12	Z	-0.012	-0.012	0	%100
13	13	Z	-0.012	-0.012	0	%100
14	14	Z	-0.012	-0.012	0	%100
15	15	Z	-0.012	-0.012	0	%100
16	16	Z	-0.012	-0.012	0	%100
17	17	Z	-0.012	-0.012	0	%100
18	18	Z	-0.012	-0.012	0	%100
19	19	Z	-0.012	-0.012	0	%100
20	20	Z	-0.012	-0.012	0	%100
21	21	Z	-0.012	-0.012	0	%100
22	22	Z	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
23	23	Z	-0.008	-0.008	0	%100
24	24	Z	-0.009	-0.009	0	%100
25	25	Z	-0.009	-0.009	0	%100
26	26	Z	-0.008	-0.008	0	%100
27	27	Z	-0.008	-0.008	0	%100
28	28	Z	-0.008	-0.008	0	%100
29	29	Z	-0.008	-0.008	0	%100
30	30	Z	-0.009	-0.009	0	%100
31	31	Z	-0.009	-0.009	0	%100
32	32	Z	-0.008	-0.008	0	%100
33	33	Z	-0.008	-0.008	0	%100
34	34	Z	-0.008	-0.008	0	%100
35	35	Z	-0.008	-0.008	0	%100
36	36	Z	-0.009	-0.009	0	%100
37	37	Z	-0.009	-0.009	0	%100
38	38	Z	-0.008	-0.008	0	%100
39	39	Z	-0.008	-0.008	0	%100
40	40	Z	-0.014	-0.014	0	%100
41	41	Z	-0.014	-0.014	0	%100
42	42	Z	-0.014	-0.014	0	%100
43	43	Z	-0.002	-0.002	0	%100
44	44	Z	-0.002	-0.002	0	%100
45	45	Z	-0.002	-0.002	0	%100
46	46	Z	-0.002	-0.002	0	%100
47	47	Z	-0.002	-0.002	0	%100
48	48	Z	-0.002	-0.002	0	%100
49	49	Z	-0.002	-0.002	0	%100
50	50	Z	-0.003	-0.003	0	%100
51	51	Z	-0.003	-0.003	0	%100
52	52	Z	-0.002	-0.002	0	%100
53	53	Z	-0.002	-0.002	0	%100
54	54	Z	-0.003	-0.003	0	%100
55	55	Z	-0.002	-0.002	0	%100
56	56	Z	-0.002	-0.002	0	%100
57	57	Z	-0.004	-0.004	0	%100
58	58	Z	-0.004	-0.004	0	%100
59	59	Z	-0.004	-0.004	0	%100
60	60	Z	-0.004	-0.004	0	%100
61	61	Z	-0.004	-0.004	0	%100
62	62	Z	-0.004	-0.004	0	%100
63	63	Z	-0.004	-0.004	0	%100
64	64	Z	-0.004	-0.004	0	%100
65	65	Z	-0.004	-0.004	0	%100
66	66	Z	-0.004	-0.004	0	%100
67	67	Z	-0.004	-0.004	0	%100
68	68	Z	-0.003	-0.003	0	%100
69	69	Z	-0.003	-0.003	0	%100
70	70	Z	-0.003	-0.003	0	%100
71	71	Z	-0.002	-0.002	0	%100
72	72	Z	-0.004	-0.004	0	%100
73	73	Z	-0.004	-0.004	0	%100
74	74	Z	-0.004	-0.004	0	%100
75	75	Z	-0.004	-0.004	0	%100
76	76	Z	-0.004	-0.004	0	%100
77	77	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
78	78	Z	-0.004	-0.004	0	%100
79	79	Z	-0.004	-0.004	0	%100
80	80	Z	-0.004	-0.004	0	%100
81	81	Z	-0.004	-0.004	0	%100
82	82	Z	-0.004	-0.004	0	%100
83	83	Z	-0.003	-0.003	0	%100
84	84	Z	-0.003	-0.003	0	%100
85	85	Z	-0.003	-0.003	0	%100
86	86	Z	-0.002	-0.002	0	%100
87	188	Z	-0.008	-0.008	0	%100
88	189	Z	-0.008	-0.008	0	%100
89	190	Z	-0.008	-0.008	0	%100
90	193	Z	-0.015	-0.015	0	%100
91	194	Z	-0.015	-0.015	0	%100
92	195	Z	-0.015	-0.015	0	%100
93	196	Z	-0.006	-0.006	0	%100
94	197	Z	-0.006	-0.006	0	%100
95	198	Z	-0.006	-0.006	0	%100
96	199	Z	-0.006	-0.006	0	%100
97	200	Z	-0.006	-0.006	0	%100
98	201	Z	-0.006	-0.006	0	%100
99	202	Z	-0.006	-0.006	0	%100
100	203	Z	-0.006	-0.006	0	%100
101	204	Z	-0.006	-0.006	0	%100
102	205	Z	-0.006	-0.006	0	%100
103	206	Z	-0.006	-0.006	0	%100
104	207	Z	-0.006	-0.006	0	%100
105	208	Z	-0.006	-0.006	0	%100
106	209	Z	-0.006	-0.006	0	%100
107	210	Z	-0.006	-0.006	0	%100
108	211	Z	-0.006	-0.006	0	%100
109	212	Z	-0.006	-0.006	0	%100
110	213	Z	-0.006	-0.006	0	%100
111	214	Z	-0.006	-0.006	0	%100
112	215	Z	-0.006	-0.006	0	%100
113	216	Z	-0.006	-0.006	0	%100
114	225	Z	-0.008	-0.008	0	%100
115	226	Z	-0.008	-0.008	0	%100
116	227	Z	-0.008	-0.008	0	%100
117	228	Z	-0.008	-0.008	0	%100
118	237	Z	-0.008	-0.008	0	%100
119	238	Z	-0.008	-0.008	0	%100
120	239	Z	-0.008	-0.008	0	%100
121	240	Z	-0.008	-0.008	0	%100
122	249	Z	-0.008	-0.008	0	%100
123	250	Z	-0.008	-0.008	0	%100
124	251	Z	-0.008	-0.008	0	%100
125	252	Z	-0.008	-0.008	0	%100
126	253	Z	-0.002	-0.002	0	%100
127	254	Z	-0.002	-0.002	0	%100
128	255	Z	-0.002	-0.002	0	%100
129	256	Z	-0.002	-0.002	0	%100
130	257	Z	-0.002	-0.002	0	%100
131	258	Z	-0.002	-0.002	0	%100
132	259	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
133	260	Z	-0.003	-0.003	0	%100
134	261	Z	-0.003	-0.003	0	%100
135	262	Z	-0.002	-0.002	0	%100
136	263	Z	-0.002	-0.002	0	%100
137	264	Z	-0.003	-0.003	0	%100
138	265	Z	-0.002	-0.002	0	%100
139	266	Z	-0.002	-0.002	0	%100
140	267	Z	-0.004	-0.004	0	%100
141	268	Z	-0.004	-0.004	0	%100
142	269	Z	-0.004	-0.004	0	%100
143	270	Z	-0.004	-0.004	0	%100
144	271	Z	-0.004	-0.004	0	%100
145	272	Z	-0.004	-0.004	0	%100
146	273	Z	-0.004	-0.004	0	%100
147	274	Z	-0.004	-0.004	0	%100
148	275	Z	-0.004	-0.004	0	%100
149	276	Z	-0.004	-0.004	0	%100
150	277	Z	-0.004	-0.004	0	%100
151	278	Z	-0.003	-0.003	0	%100
152	279	Z	-0.003	-0.003	0	%100
153	280	Z	-0.003	-0.003	0	%100
154	281	Z	-0.002	-0.002	0	%100
155	282	Z	-0.004	-0.004	0	%100
156	283	Z	-0.004	-0.004	0	%100
157	284	Z	-0.004	-0.004	0	%100
158	285	Z	-0.004	-0.004	0	%100
159	286	Z	-0.004	-0.004	0	%100
160	287	Z	-0.004	-0.004	0	%100
161	288	Z	-0.004	-0.004	0	%100
162	289	Z	-0.004	-0.004	0	%100
163	290	Z	-0.004	-0.004	0	%100
164	291	Z	-0.004	-0.004	0	%100
165	292	Z	-0.004	-0.004	0	%100
166	293	Z	-0.003	-0.003	0	%100
167	294	Z	-0.003	-0.003	0	%100
168	295	Z	-0.003	-0.003	0	%100
169	296	Z	-0.002	-0.002	0	%100
170	325	Z	-0.002	-0.002	0	%100
171	326	Z	-0.002	-0.002	0	%100
172	327	Z	-0.002	-0.002	0	%100
173	328	Z	-0.002	-0.002	0	%100
174	329	Z	-0.002	-0.002	0	%100
175	330	Z	-0.002	-0.002	0	%100
176	331	Z	-0.002	-0.002	0	%100
177	332	Z	-0.003	-0.003	0	%100
178	333	Z	-0.003	-0.003	0	%100
179	334	Z	-0.002	-0.002	0	%100
180	335	Z	-0.002	-0.002	0	%100
181	336	Z	-0.003	-0.003	0	%100
182	337	Z	-0.002	-0.002	0	%100
183	338	Z	-0.002	-0.002	0	%100
184	339	Z	-0.004	-0.004	0	%100
185	340	Z	-0.004	-0.004	0	%100
186	341	Z	-0.004	-0.004	0	%100
187	342	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 2 : 0 Wind - No Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
188	343	Z	-0.004	-0.004	0	%100
189	344	Z	-0.004	-0.004	0	%100
190	345	Z	-0.004	-0.004	0	%100
191	346	Z	-0.004	-0.004	0	%100
192	347	Z	-0.004	-0.004	0	%100
193	348	Z	-0.004	-0.004	0	%100
194	349	Z	-0.004	-0.004	0	%100
195	350	Z	-0.003	-0.003	0	%100
196	351	Z	-0.003	-0.003	0	%100
197	352	Z	-0.003	-0.003	0	%100
198	353	Z	-0.002	-0.002	0	%100
199	354	Z	-0.004	-0.004	0	%100
200	355	Z	-0.004	-0.004	0	%100
201	356	Z	-0.004	-0.004	0	%100
202	357	Z	-0.004	-0.004	0	%100
203	358	Z	-0.004	-0.004	0	%100
204	359	Z	-0.004	-0.004	0	%100
205	360	Z	-0.004	-0.004	0	%100
206	361	Z	-0.004	-0.004	0	%100
207	362	Z	-0.004	-0.004	0	%100
208	363	Z	-0.004	-0.004	0	%100
209	364	Z	-0.004	-0.004	0	%100
210	365	Z	-0.003	-0.003	0	%100
211	366	Z	-0.003	-0.003	0	%100
212	367	Z	-0.003	-0.003	0	%100
213	368	Z	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.009	-0.009	0	%100
2	2	X	-0.009	-0.009	0	%100
3	3	X	-0.009	-0.009	0	%100
4	4	X	-0.01	-0.01	0	%100
5	5	X	-0.01	-0.01	0	%100
6	6	X	-0.01	-0.01	0	%100
7	7	X	-0.01	-0.01	0	%100
8	8	X	-0.01	-0.01	0	%100
9	9	X	-0.01	-0.01	0	%100
10	10	X	-0.012	-0.012	0	%100
11	11	X	-0.012	-0.012	0	%100
12	12	X	-0.012	-0.012	0	%100
13	13	X	-0.012	-0.012	0	%100
14	14	X	-0.012	-0.012	0	%100
15	15	X	-0.012	-0.012	0	%100
16	16	X	-0.012	-0.012	0	%100
17	17	X	-0.012	-0.012	0	%100
18	18	X	-0.012	-0.012	0	%100
19	19	X	-0.012	-0.012	0	%100
20	20	X	-0.012	-0.012	0	%100
21	21	X	-0.012	-0.012	0	%100
22	22	X	-0.008	-0.008	0	%100
23	23	X	-0.008	-0.008	0	%100
24	24	X	-0.009	-0.009	0	%100
25	25	X	-0.009	-0.009	0	%100
26	26	X	-0.008	-0.008	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
27	27	X	-0.008	-0.008	0	%100
28	28	X	-0.008	-0.008	0	%100
29	29	X	-0.008	-0.008	0	%100
30	30	X	-0.009	-0.009	0	%100
31	31	X	-0.009	-0.009	0	%100
32	32	X	-0.008	-0.008	0	%100
33	33	X	-0.008	-0.008	0	%100
34	34	X	-0.008	-0.008	0	%100
35	35	X	-0.008	-0.008	0	%100
36	36	X	-0.009	-0.009	0	%100
37	37	X	-0.009	-0.009	0	%100
38	38	X	-0.008	-0.008	0	%100
39	39	X	-0.008	-0.008	0	%100
40	40	X	-0.014	-0.014	0	%100
41	41	X	-0.014	-0.014	0	%100
42	42	X	-0.014	-0.014	0	%100
43	43	X	-0.002	-0.002	0	%100
44	44	X	-0.002	-0.002	0	%100
45	45	X	-0.002	-0.002	0	%100
46	46	X	-0.002	-0.002	0	%100
47	47	X	-0.002	-0.002	0	%100
48	48	X	-0.002	-0.002	0	%100
49	49	X	-0.002	-0.002	0	%100
50	50	X	-0.003	-0.003	0	%100
51	51	X	-0.003	-0.003	0	%100
52	52	X	-0.002	-0.002	0	%100
53	53	X	-0.002	-0.002	0	%100
54	54	X	-0.003	-0.003	0	%100
55	55	X	-0.002	-0.002	0	%100
56	56	X	-0.002	-0.002	0	%100
57	57	X	-0.004	-0.004	0	%100
58	58	X	-0.004	-0.004	0	%100
59	59	X	-0.004	-0.004	0	%100
60	60	X	-0.004	-0.004	0	%100
61	61	X	-0.004	-0.004	0	%100
62	62	X	-0.004	-0.004	0	%100
63	63	X	-0.004	-0.004	0	%100
64	64	X	-0.004	-0.004	0	%100
65	65	X	-0.004	-0.004	0	%100
66	66	X	-0.004	-0.004	0	%100
67	67	X	-0.004	-0.004	0	%100
68	68	X	-0.003	-0.003	0	%100
69	69	X	-0.003	-0.003	0	%100
70	70	X	-0.003	-0.003	0	%100
71	71	X	-0.002	-0.002	0	%100
72	72	X	-0.004	-0.004	0	%100
73	73	X	-0.004	-0.004	0	%100
74	74	X	-0.004	-0.004	0	%100
75	75	X	-0.004	-0.004	0	%100
76	76	X	-0.004	-0.004	0	%100
77	77	X	-0.004	-0.004	0	%100
78	78	X	-0.004	-0.004	0	%100
79	79	X	-0.004	-0.004	0	%100
80	80	X	-0.004	-0.004	0	%100
81	81	X	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
82	82	X	-0.004	-0.004	0	%100
83	83	X	-0.003	-0.003	0	%100
84	84	X	-0.003	-0.003	0	%100
85	85	X	-0.003	-0.003	0	%100
86	86	X	-0.002	-0.002	0	%100
87	188	X	-0.008	-0.008	0	%100
88	189	X	-0.008	-0.008	0	%100
89	190	X	-0.008	-0.008	0	%100
90	193	X	-0.015	-0.015	0	%100
91	194	X	-0.015	-0.015	0	%100
92	195	X	-0.015	-0.015	0	%100
93	196	X	-0.006	-0.006	0	%100
94	197	X	-0.006	-0.006	0	%100
95	198	X	-0.006	-0.006	0	%100
96	199	X	-0.006	-0.006	0	%100
97	200	X	-0.006	-0.006	0	%100
98	201	X	-0.006	-0.006	0	%100
99	202	X	-0.006	-0.006	0	%100
100	203	X	-0.006	-0.006	0	%100
101	204	X	-0.006	-0.006	0	%100
102	205	X	-0.006	-0.006	0	%100
103	206	X	-0.006	-0.006	0	%100
104	207	X	-0.006	-0.006	0	%100
105	208	X	-0.006	-0.006	0	%100
106	209	X	-0.006	-0.006	0	%100
107	210	X	-0.006	-0.006	0	%100
108	211	X	-0.006	-0.006	0	%100
109	212	X	-0.006	-0.006	0	%100
110	213	X	-0.006	-0.006	0	%100
111	214	X	-0.006	-0.006	0	%100
112	215	X	-0.006	-0.006	0	%100
113	216	X	-0.006	-0.006	0	%100
114	225	X	-0.008	-0.008	0	%100
115	226	X	-0.008	-0.008	0	%100
116	227	X	-0.008	-0.008	0	%100
117	228	X	-0.008	-0.008	0	%100
118	237	X	-0.008	-0.008	0	%100
119	238	X	-0.008	-0.008	0	%100
120	239	X	-0.008	-0.008	0	%100
121	240	X	-0.008	-0.008	0	%100
122	249	X	-0.008	-0.008	0	%100
123	250	X	-0.008	-0.008	0	%100
124	251	X	-0.008	-0.008	0	%100
125	252	X	-0.008	-0.008	0	%100
126	253	X	-0.002	-0.002	0	%100
127	254	X	-0.002	-0.002	0	%100
128	255	X	-0.002	-0.002	0	%100
129	256	X	-0.002	-0.002	0	%100
130	257	X	-0.002	-0.002	0	%100
131	258	X	-0.002	-0.002	0	%100
132	259	X	-0.002	-0.002	0	%100
133	260	X	-0.003	-0.003	0	%100
134	261	X	-0.003	-0.003	0	%100
135	262	X	-0.002	-0.002	0	%100
136	263	X	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
137	264	X	-0.003	-0.003	0	%100
138	265	X	-0.002	-0.002	0	%100
139	266	X	-0.002	-0.002	0	%100
140	267	X	-0.004	-0.004	0	%100
141	268	X	-0.004	-0.004	0	%100
142	269	X	-0.004	-0.004	0	%100
143	270	X	-0.004	-0.004	0	%100
144	271	X	-0.004	-0.004	0	%100
145	272	X	-0.004	-0.004	0	%100
146	273	X	-0.004	-0.004	0	%100
147	274	X	-0.004	-0.004	0	%100
148	275	X	-0.004	-0.004	0	%100
149	276	X	-0.004	-0.004	0	%100
150	277	X	-0.004	-0.004	0	%100
151	278	X	-0.003	-0.003	0	%100
152	279	X	-0.003	-0.003	0	%100
153	280	X	-0.003	-0.003	0	%100
154	281	X	-0.002	-0.002	0	%100
155	282	X	-0.004	-0.004	0	%100
156	283	X	-0.004	-0.004	0	%100
157	284	X	-0.004	-0.004	0	%100
158	285	X	-0.004	-0.004	0	%100
159	286	X	-0.004	-0.004	0	%100
160	287	X	-0.004	-0.004	0	%100
161	288	X	-0.004	-0.004	0	%100
162	289	X	-0.004	-0.004	0	%100
163	290	X	-0.004	-0.004	0	%100
164	291	X	-0.004	-0.004	0	%100
165	292	X	-0.004	-0.004	0	%100
166	293	X	-0.003	-0.003	0	%100
167	294	X	-0.003	-0.003	0	%100
168	295	X	-0.003	-0.003	0	%100
169	296	X	-0.002	-0.002	0	%100
170	325	X	-0.002	-0.002	0	%100
171	326	X	-0.002	-0.002	0	%100
172	327	X	-0.002	-0.002	0	%100
173	328	X	-0.002	-0.002	0	%100
174	329	X	-0.002	-0.002	0	%100
175	330	X	-0.002	-0.002	0	%100
176	331	X	-0.002	-0.002	0	%100
177	332	X	-0.003	-0.003	0	%100
178	333	X	-0.003	-0.003	0	%100
179	334	X	-0.002	-0.002	0	%100
180	335	X	-0.002	-0.002	0	%100
181	336	X	-0.003	-0.003	0	%100
182	337	X	-0.002	-0.002	0	%100
183	338	X	-0.002	-0.002	0	%100
184	339	X	-0.004	-0.004	0	%100
185	340	X	-0.004	-0.004	0	%100
186	341	X	-0.004	-0.004	0	%100
187	342	X	-0.004	-0.004	0	%100
188	343	X	-0.004	-0.004	0	%100
189	344	X	-0.004	-0.004	0	%100
190	345	X	-0.004	-0.004	0	%100
191	346	X	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 3 : 90 Wind - No Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
192	347	X	-0.004	-0.004	0	%100
193	348	X	-0.004	-0.004	0	%100
194	349	X	-0.004	-0.004	0	%100
195	350	X	-0.003	-0.003	0	%100
196	351	X	-0.003	-0.003	0	%100
197	352	X	-0.003	-0.003	0	%100
198	353	X	-0.002	-0.002	0	%100
199	354	X	-0.004	-0.004	0	%100
200	355	X	-0.004	-0.004	0	%100
201	356	X	-0.004	-0.004	0	%100
202	357	X	-0.004	-0.004	0	%100
203	358	X	-0.004	-0.004	0	%100
204	359	X	-0.004	-0.004	0	%100
205	360	X	-0.004	-0.004	0	%100
206	361	X	-0.004	-0.004	0	%100
207	362	X	-0.004	-0.004	0	%100
208	363	X	-0.004	-0.004	0	%100
209	364	X	-0.004	-0.004	0	%100
210	365	X	-0.003	-0.003	0	%100
211	366	X	-0.003	-0.003	0	%100
212	367	X	-0.003	-0.003	0	%100
213	368	X	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.002	-0.002	0	%100
2	2	Z	-0.002	-0.002	0	%100
3	3	Z	-0.002	-0.002	0	%100
4	4	Z	-0.005	-0.005	0	%100
5	5	Z	-0.005	-0.005	0	%100
6	6	Z	-0.005	-0.005	0	%100
7	7	Z	-0.005	-0.005	0	%100
8	8	Z	-0.005	-0.005	0	%100
9	9	Z	-0.005	-0.005	0	%100
10	10	Z	-0.005	-0.005	0	%100
11	11	Z	-0.005	-0.005	0	%100
12	12	Z	-0.005	-0.005	0	%100
13	13	Z	-0.005	-0.005	0	%100
14	14	Z	-0.005	-0.005	0	%100
15	15	Z	-0.005	-0.005	0	%100
16	16	Z	-0.005	-0.005	0	%100
17	17	Z	-0.005	-0.005	0	%100
18	18	Z	-0.005	-0.005	0	%100
19	19	Z	-0.005	-0.005	0	%100
20	20	Z	-0.005	-0.005	0	%100
21	21	Z	-0.005	-0.005	0	%100
22	22	Z	-0.004	-0.004	0	%100
23	23	Z	-0.004	-0.004	0	%100
24	24	Z	-0.004	-0.004	0	%100
25	25	Z	-0.004	-0.004	0	%100
26	26	Z	-0.005	-0.005	0	%100
27	27	Z	-0.005	-0.005	0	%100
28	28	Z	-0.004	-0.004	0	%100
29	29	Z	-0.004	-0.004	0	%100
30	30	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
31	31	Z	-0.004	-0.004	0	%100
32	32	Z	-0.005	-0.005	0	%100
33	33	Z	-0.005	-0.005	0	%100
34	34	Z	-0.004	-0.004	0	%100
35	35	Z	-0.004	-0.004	0	%100
36	36	Z	-0.004	-0.004	0	%100
37	37	Z	-0.004	-0.004	0	%100
38	38	Z	-0.005	-0.005	0	%100
39	39	Z	-0.005	-0.005	0	%100
40	40	Z	-0.005	-0.005	0	%100
41	41	Z	-0.005	-0.005	0	%100
42	42	Z	-0.005	-0.005	0	%100
43	43	Z	-0.004	-0.004	0	%100
44	44	Z	-0.004	-0.004	0	%100
45	45	Z	-0.005	-0.005	0	%100
46	46	Z	-0.004	-0.004	0	%100
47	47	Z	-0.004	-0.004	0	%100
48	48	Z	-0.005	-0.005	0	%100
49	49	Z	-0.005	-0.005	0	%100
50	50	Z	-0.004	-0.004	0	%100
51	51	Z	-0.004	-0.004	0	%100
52	52	Z	-0.004	-0.004	0	%100
53	53	Z	-0.004	-0.004	0	%100
54	54	Z	-0.004	-0.004	0	%100
55	55	Z	-0.004	-0.004	0	%100
56	56	Z	-0.004	-0.004	0	%100
57	57	Z	-0.004	-0.004	0	%100
58	58	Z	-0.004	-0.004	0	%100
59	59	Z	-0.004	-0.004	0	%100
60	60	Z	-0.004	-0.004	0	%100
61	61	Z	-0.004	-0.004	0	%100
62	62	Z	-0.004	-0.004	0	%100
63	63	Z	-0.004	-0.004	0	%100
64	64	Z	-0.004	-0.004	0	%100
65	65	Z	-0.004	-0.004	0	%100
66	66	Z	-0.004	-0.004	0	%100
67	67	Z	-0.004	-0.004	0	%100
68	68	Z	-0.004	-0.004	0	%100
69	69	Z	-0.004	-0.004	0	%100
70	70	Z	-0.004	-0.004	0	%100
71	71	Z	-0.004	-0.004	0	%100
72	72	Z	-0.004	-0.004	0	%100
73	73	Z	-0.004	-0.004	0	%100
74	74	Z	-0.004	-0.004	0	%100
75	75	Z	-0.004	-0.004	0	%100
76	76	Z	-0.004	-0.004	0	%100
77	77	Z	-0.004	-0.004	0	%100
78	78	Z	-0.004	-0.004	0	%100
79	79	Z	-0.004	-0.004	0	%100
80	80	Z	-0.004	-0.004	0	%100
81	81	Z	-0.004	-0.004	0	%100
82	82	Z	-0.004	-0.004	0	%100
83	83	Z	-0.004	-0.004	0	%100
84	84	Z	-0.004	-0.004	0	%100
85	85	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
86	86	Z	-0.005	-0.005	0	%100
87	188	Z	-0.002	-0.002	0	%100
88	189	Z	-0.002	-0.002	0	%100
89	190	Z	-0.002	-0.002	0	%100
90	193	Z	-0.005	-0.005	0	%100
91	194	Z	-0.005	-0.005	0	%100
92	195	Z	-0.005	-0.005	0	%100
93	196	Z	-0.004	-0.004	0	%100
94	197	Z	-0.004	-0.004	0	%100
95	198	Z	-0.004	-0.004	0	%100
96	199	Z	-0.004	-0.004	0	%100
97	200	Z	-0.004	-0.004	0	%100
98	201	Z	-0.004	-0.004	0	%100
99	202	Z	-0.004	-0.004	0	%100
100	203	Z	-0.004	-0.004	0	%100
101	204	Z	-0.004	-0.004	0	%100
102	205	Z	-0.004	-0.004	0	%100
103	206	Z	-0.004	-0.004	0	%100
104	207	Z	-0.004	-0.004	0	%100
105	208	Z	-0.004	-0.004	0	%100
106	209	Z	-0.004	-0.004	0	%100
107	210	Z	-0.004	-0.004	0	%100
108	211	Z	-0.002	-0.002	0	%100
109	212	Z	-0.002	-0.002	0	%100
110	213	Z	-0.002	-0.002	0	%100
111	214	Z	-0.002	-0.002	0	%100
112	215	Z	-0.002	-0.002	0	%100
113	216	Z	-0.002	-0.002	0	%100
114	225	Z	-0.002	-0.002	0	%100
115	226	Z	-0.002	-0.002	0	%100
116	227	Z	-0.002	-0.002	0	%100
117	228	Z	-0.002	-0.002	0	%100
118	237	Z	-0.002	-0.002	0	%100
119	238	Z	-0.002	-0.002	0	%100
120	239	Z	-0.002	-0.002	0	%100
121	240	Z	-0.002	-0.002	0	%100
122	249	Z	-0.002	-0.002	0	%100
123	250	Z	-0.002	-0.002	0	%100
124	251	Z	-0.002	-0.002	0	%100
125	252	Z	-0.002	-0.002	0	%100
126	253	Z	-0.004	-0.004	0	%100
127	254	Z	-0.004	-0.004	0	%100
128	255	Z	-0.005	-0.005	0	%100
129	256	Z	-0.004	-0.004	0	%100
130	257	Z	-0.004	-0.004	0	%100
131	258	Z	-0.005	-0.005	0	%100
132	259	Z	-0.005	-0.005	0	%100
133	260	Z	-0.004	-0.004	0	%100
134	261	Z	-0.004	-0.004	0	%100
135	262	Z	-0.004	-0.004	0	%100
136	263	Z	-0.004	-0.004	0	%100
137	264	Z	-0.004	-0.004	0	%100
138	265	Z	-0.004	-0.004	0	%100
139	266	Z	-0.004	-0.004	0	%100
140	267	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
141	268	Z	-0.004	-0.004	0	%100
142	269	Z	-0.004	-0.004	0	%100
143	270	Z	-0.004	-0.004	0	%100
144	271	Z	-0.004	-0.004	0	%100
145	272	Z	-0.004	-0.004	0	%100
146	273	Z	-0.004	-0.004	0	%100
147	274	Z	-0.004	-0.004	0	%100
148	275	Z	-0.004	-0.004	0	%100
149	276	Z	-0.004	-0.004	0	%100
150	277	Z	-0.004	-0.004	0	%100
151	278	Z	-0.004	-0.004	0	%100
152	279	Z	-0.004	-0.004	0	%100
153	280	Z	-0.004	-0.004	0	%100
154	281	Z	-0.004	-0.004	0	%100
155	282	Z	-0.004	-0.004	0	%100
156	283	Z	-0.004	-0.004	0	%100
157	284	Z	-0.004	-0.004	0	%100
158	285	Z	-0.004	-0.004	0	%100
159	286	Z	-0.004	-0.004	0	%100
160	287	Z	-0.004	-0.004	0	%100
161	288	Z	-0.004	-0.004	0	%100
162	289	Z	-0.004	-0.004	0	%100
163	290	Z	-0.004	-0.004	0	%100
164	291	Z	-0.004	-0.004	0	%100
165	292	Z	-0.004	-0.004	0	%100
166	293	Z	-0.004	-0.004	0	%100
167	294	Z	-0.004	-0.004	0	%100
168	295	Z	-0.004	-0.004	0	%100
169	296	Z	-0.005	-0.005	0	%100
170	325	Z	-0.004	-0.004	0	%100
171	326	Z	-0.004	-0.004	0	%100
172	327	Z	-0.005	-0.005	0	%100
173	328	Z	-0.004	-0.004	0	%100
174	329	Z	-0.004	-0.004	0	%100
175	330	Z	-0.005	-0.005	0	%100
176	331	Z	-0.005	-0.005	0	%100
177	332	Z	-0.004	-0.004	0	%100
178	333	Z	-0.004	-0.004	0	%100
179	334	Z	-0.004	-0.004	0	%100
180	335	Z	-0.004	-0.004	0	%100
181	336	Z	-0.004	-0.004	0	%100
182	337	Z	-0.004	-0.004	0	%100
183	338	Z	-0.004	-0.004	0	%100
184	339	Z	-0.004	-0.004	0	%100
185	340	Z	-0.004	-0.004	0	%100
186	341	Z	-0.004	-0.004	0	%100
187	342	Z	-0.004	-0.004	0	%100
188	343	Z	-0.004	-0.004	0	%100
189	344	Z	-0.004	-0.004	0	%100
190	345	Z	-0.004	-0.004	0	%100
191	346	Z	-0.004	-0.004	0	%100
192	347	Z	-0.004	-0.004	0	%100
193	348	Z	-0.004	-0.004	0	%100
194	349	Z	-0.004	-0.004	0	%100
195	350	Z	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 4 : 0 Wind - Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
196	351	Z	-0.004	-0.004	0	%100
197	352	Z	-0.004	-0.004	0	%100
198	353	Z	-0.004	-0.004	0	%100
199	354	Z	-0.004	-0.004	0	%100
200	355	Z	-0.004	-0.004	0	%100
201	356	Z	-0.004	-0.004	0	%100
202	357	Z	-0.004	-0.004	0	%100
203	358	Z	-0.004	-0.004	0	%100
204	359	Z	-0.004	-0.004	0	%100
205	360	Z	-0.004	-0.004	0	%100
206	361	Z	-0.004	-0.004	0	%100
207	362	Z	-0.004	-0.004	0	%100
208	363	Z	-0.004	-0.004	0	%100
209	364	Z	-0.004	-0.004	0	%100
210	365	Z	-0.004	-0.004	0	%100
211	366	Z	-0.004	-0.004	0	%100
212	367	Z	-0.004	-0.004	0	%100
213	368	Z	-0.005	-0.005	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.002	-0.002	0	%100
2	2	X	-0.002	-0.002	0	%100
3	3	X	-0.002	-0.002	0	%100
4	4	X	-0.005	-0.005	0	%100
5	5	X	-0.005	-0.005	0	%100
6	6	X	-0.005	-0.005	0	%100
7	7	X	-0.005	-0.005	0	%100
8	8	X	-0.005	-0.005	0	%100
9	9	X	-0.005	-0.005	0	%100
10	10	X	-0.005	-0.005	0	%100
11	11	X	-0.005	-0.005	0	%100
12	12	X	-0.005	-0.005	0	%100
13	13	X	-0.005	-0.005	0	%100
14	14	X	-0.005	-0.005	0	%100
15	15	X	-0.005	-0.005	0	%100
16	16	X	-0.005	-0.005	0	%100
17	17	X	-0.005	-0.005	0	%100
18	18	X	-0.005	-0.005	0	%100
19	19	X	-0.005	-0.005	0	%100
20	20	X	-0.005	-0.005	0	%100
21	21	X	-0.005	-0.005	0	%100
22	22	X	-0.004	-0.004	0	%100
23	23	X	-0.004	-0.004	0	%100
24	24	X	-0.004	-0.004	0	%100
25	25	X	-0.004	-0.004	0	%100
26	26	X	-0.005	-0.005	0	%100
27	27	X	-0.005	-0.005	0	%100
28	28	X	-0.004	-0.004	0	%100
29	29	X	-0.004	-0.004	0	%100
30	30	X	-0.004	-0.004	0	%100
31	31	X	-0.004	-0.004	0	%100
32	32	X	-0.005	-0.005	0	%100
33	33	X	-0.005	-0.005	0	%100
34	34	X	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
35	35	X	-0.004	-0.004	0	%100
36	36	X	-0.004	-0.004	0	%100
37	37	X	-0.004	-0.004	0	%100
38	38	X	-0.005	-0.005	0	%100
39	39	X	-0.005	-0.005	0	%100
40	40	X	-0.005	-0.005	0	%100
41	41	X	-0.005	-0.005	0	%100
42	42	X	-0.005	-0.005	0	%100
43	43	X	-0.004	-0.004	0	%100
44	44	X	-0.004	-0.004	0	%100
45	45	X	-0.005	-0.005	0	%100
46	46	X	-0.004	-0.004	0	%100
47	47	X	-0.004	-0.004	0	%100
48	48	X	-0.005	-0.005	0	%100
49	49	X	-0.005	-0.005	0	%100
50	50	X	-0.004	-0.004	0	%100
51	51	X	-0.004	-0.004	0	%100
52	52	X	-0.004	-0.004	0	%100
53	53	X	-0.004	-0.004	0	%100
54	54	X	-0.004	-0.004	0	%100
55	55	X	-0.004	-0.004	0	%100
56	56	X	-0.004	-0.004	0	%100
57	57	X	-0.004	-0.004	0	%100
58	58	X	-0.004	-0.004	0	%100
59	59	X	-0.004	-0.004	0	%100
60	60	X	-0.004	-0.004	0	%100
61	61	X	-0.004	-0.004	0	%100
62	62	X	-0.004	-0.004	0	%100
63	63	X	-0.004	-0.004	0	%100
64	64	X	-0.004	-0.004	0	%100
65	65	X	-0.004	-0.004	0	%100
66	66	X	-0.004	-0.004	0	%100
67	67	X	-0.004	-0.004	0	%100
68	68	X	-0.004	-0.004	0	%100
69	69	X	-0.004	-0.004	0	%100
70	70	X	-0.004	-0.004	0	%100
71	71	X	-0.004	-0.004	0	%100
72	72	X	-0.004	-0.004	0	%100
73	73	X	-0.004	-0.004	0	%100
74	74	X	-0.004	-0.004	0	%100
75	75	X	-0.004	-0.004	0	%100
76	76	X	-0.004	-0.004	0	%100
77	77	X	-0.004	-0.004	0	%100
78	78	X	-0.004	-0.004	0	%100
79	79	X	-0.004	-0.004	0	%100
80	80	X	-0.004	-0.004	0	%100
81	81	X	-0.004	-0.004	0	%100
82	82	X	-0.004	-0.004	0	%100
83	83	X	-0.004	-0.004	0	%100
84	84	X	-0.004	-0.004	0	%100
85	85	X	-0.004	-0.004	0	%100
86	86	X	-0.005	-0.005	0	%100
87	188	X	-0.002	-0.002	0	%100
88	189	X	-0.002	-0.002	0	%100
89	190	X	-0.002	-0.002	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
90	193	X	-0.005	-0.005	0	%100
91	194	X	-0.005	-0.005	0	%100
92	195	X	-0.005	-0.005	0	%100
93	196	X	-0.004	-0.004	0	%100
94	197	X	-0.004	-0.004	0	%100
95	198	X	-0.004	-0.004	0	%100
96	199	X	-0.004	-0.004	0	%100
97	200	X	-0.004	-0.004	0	%100
98	201	X	-0.004	-0.004	0	%100
99	202	X	-0.004	-0.004	0	%100
100	203	X	-0.004	-0.004	0	%100
101	204	X	-0.004	-0.004	0	%100
102	205	X	-0.004	-0.004	0	%100
103	206	X	-0.004	-0.004	0	%100
104	207	X	-0.004	-0.004	0	%100
105	208	X	-0.004	-0.004	0	%100
106	209	X	-0.004	-0.004	0	%100
107	210	X	-0.004	-0.004	0	%100
108	211	X	-0.002	-0.002	0	%100
109	212	X	-0.002	-0.002	0	%100
110	213	X	-0.002	-0.002	0	%100
111	214	X	-0.002	-0.002	0	%100
112	215	X	-0.002	-0.002	0	%100
113	216	X	-0.002	-0.002	0	%100
114	225	X	-0.002	-0.002	0	%100
115	226	X	-0.002	-0.002	0	%100
116	227	X	-0.002	-0.002	0	%100
117	228	X	-0.002	-0.002	0	%100
118	237	X	-0.002	-0.002	0	%100
119	238	X	-0.002	-0.002	0	%100
120	239	X	-0.002	-0.002	0	%100
121	240	X	-0.002	-0.002	0	%100
122	249	X	-0.002	-0.002	0	%100
123	250	X	-0.002	-0.002	0	%100
124	251	X	-0.002	-0.002	0	%100
125	252	X	-0.002	-0.002	0	%100
126	253	X	-0.004	-0.004	0	%100
127	254	X	-0.004	-0.004	0	%100
128	255	X	-0.005	-0.005	0	%100
129	256	X	-0.004	-0.004	0	%100
130	257	X	-0.004	-0.004	0	%100
131	258	X	-0.005	-0.005	0	%100
132	259	X	-0.005	-0.005	0	%100
133	260	X	-0.004	-0.004	0	%100
134	261	X	-0.004	-0.004	0	%100
135	262	X	-0.004	-0.004	0	%100
136	263	X	-0.004	-0.004	0	%100
137	264	X	-0.004	-0.004	0	%100
138	265	X	-0.004	-0.004	0	%100
139	266	X	-0.004	-0.004	0	%100
140	267	X	-0.004	-0.004	0	%100
141	268	X	-0.004	-0.004	0	%100
142	269	X	-0.004	-0.004	0	%100
143	270	X	-0.004	-0.004	0	%100
144	271	X	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
145	272	X	-0.004	-0.004	0	%100
146	273	X	-0.004	-0.004	0	%100
147	274	X	-0.004	-0.004	0	%100
148	275	X	-0.004	-0.004	0	%100
149	276	X	-0.004	-0.004	0	%100
150	277	X	-0.004	-0.004	0	%100
151	278	X	-0.004	-0.004	0	%100
152	279	X	-0.004	-0.004	0	%100
153	280	X	-0.004	-0.004	0	%100
154	281	X	-0.004	-0.004	0	%100
155	282	X	-0.004	-0.004	0	%100
156	283	X	-0.004	-0.004	0	%100
157	284	X	-0.004	-0.004	0	%100
158	285	X	-0.004	-0.004	0	%100
159	286	X	-0.004	-0.004	0	%100
160	287	X	-0.004	-0.004	0	%100
161	288	X	-0.004	-0.004	0	%100
162	289	X	-0.004	-0.004	0	%100
163	290	X	-0.004	-0.004	0	%100
164	291	X	-0.004	-0.004	0	%100
165	292	X	-0.004	-0.004	0	%100
166	293	X	-0.004	-0.004	0	%100
167	294	X	-0.004	-0.004	0	%100
168	295	X	-0.004	-0.004	0	%100
169	296	X	-0.005	-0.005	0	%100
170	325	X	-0.004	-0.004	0	%100
171	326	X	-0.004	-0.004	0	%100
172	327	X	-0.005	-0.005	0	%100
173	328	X	-0.004	-0.004	0	%100
174	329	X	-0.004	-0.004	0	%100
175	330	X	-0.005	-0.005	0	%100
176	331	X	-0.005	-0.005	0	%100
177	332	X	-0.004	-0.004	0	%100
178	333	X	-0.004	-0.004	0	%100
179	334	X	-0.004	-0.004	0	%100
180	335	X	-0.004	-0.004	0	%100
181	336	X	-0.004	-0.004	0	%100
182	337	X	-0.004	-0.004	0	%100
183	338	X	-0.004	-0.004	0	%100
184	339	X	-0.004	-0.004	0	%100
185	340	X	-0.004	-0.004	0	%100
186	341	X	-0.004	-0.004	0	%100
187	342	X	-0.004	-0.004	0	%100
188	343	X	-0.004	-0.004	0	%100
189	344	X	-0.004	-0.004	0	%100
190	345	X	-0.004	-0.004	0	%100
191	346	X	-0.004	-0.004	0	%100
192	347	X	-0.004	-0.004	0	%100
193	348	X	-0.004	-0.004	0	%100
194	349	X	-0.004	-0.004	0	%100
195	350	X	-0.004	-0.004	0	%100
196	351	X	-0.004	-0.004	0	%100
197	352	X	-0.004	-0.004	0	%100
198	353	X	-0.004	-0.004	0	%100
199	354	X	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 5 : 90 Wind - Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
200	355	X	-0.004	-0.004	0	%100
201	356	X	-0.004	-0.004	0	%100
202	357	X	-0.004	-0.004	0	%100
203	358	X	-0.004	-0.004	0	%100
204	359	X	-0.004	-0.004	0	%100
205	360	X	-0.004	-0.004	0	%100
206	361	X	-0.004	-0.004	0	%100
207	362	X	-0.004	-0.004	0	%100
208	363	X	-0.004	-0.004	0	%100
209	364	X	-0.004	-0.004	0	%100
210	365	X	-0.004	-0.004	0	%100
211	366	X	-0.004	-0.004	0	%100
212	367	X	-0.004	-0.004	0	%100
213	368	X	-0.005	-0.005	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.0003	-0.0003	0	%100
2	2	Z	-0.0003	-0.0003	0	%100
3	3	Z	-0.0003	-0.0003	0	%100
4	4	Z	-0.0006	-0.0006	0	%100
5	5	Z	-0.0006	-0.0006	0	%100
6	6	Z	-0.0006	-0.0006	0	%100
7	7	Z	-0.0006	-0.0006	0	%100
8	8	Z	-0.0006	-0.0006	0	%100
9	9	Z	-0.0006	-0.0006	0	%100
10	10	Z	-0.0008	-0.0008	0	%100
11	11	Z	-0.0008	-0.0008	0	%100
12	12	Z	-0.0008	-0.0008	0	%100
13	13	Z	-0.0008	-0.0008	0	%100
14	14	Z	-0.0008	-0.0008	0	%100
15	15	Z	-0.0008	-0.0008	0	%100
16	16	Z	-0.0008	-0.0008	0	%100
17	17	Z	-0.0008	-0.0008	0	%100
18	18	Z	-0.0008	-0.0008	0	%100
19	19	Z	-0.0008	-0.0008	0	%100
20	20	Z	-0.0008	-0.0008	0	%100
21	21	Z	-0.0008	-0.0008	0	%100
22	22	Z	-0.0006	-0.0006	0	%100
23	23	Z	-0.0006	-0.0006	0	%100
24	24	Z	-0.0006	-0.0006	0	%100
25	25	Z	-0.0006	-0.0006	0	%100
26	26	Z	-0.0005	-0.0005	0	%100
27	27	Z	-0.0005	-0.0005	0	%100
28	28	Z	-0.0006	-0.0006	0	%100
29	29	Z	-0.0006	-0.0006	0	%100
30	30	Z	-0.0006	-0.0006	0	%100
31	31	Z	-0.0006	-0.0006	0	%100
32	32	Z	-0.0005	-0.0005	0	%100
33	33	Z	-0.0005	-0.0005	0	%100
34	34	Z	-0.0006	-0.0006	0	%100
35	35	Z	-0.0006	-0.0006	0	%100
36	36	Z	-0.0006	-0.0006	0	%100
37	37	Z	-0.0006	-0.0006	0	%100
38	38	Z	-0.0005	-0.0005	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
39	39	Z	-0.0005	-0.0005	0	%100
40	40	Z	-0.0009	-0.0009	0	%100
41	41	Z	-0.0009	-0.0009	0	%100
42	42	Z	-0.0009	-0.0009	0	%100
43	43	Z	-0.0001	-0.0001	0	%100
44	44	Z	-0.0001	-0.0001	0	%100
45	45	Z	-0.0001	-0.0001	0	%100
46	46	Z	-0.0001	-0.0001	0	%100
47	47	Z	-0.0001	-0.0001	0	%100
48	48	Z	-0.0001	-0.0001	0	%100
49	49	Z	-0.0001	-0.0001	0	%100
50	50	Z	-0.0002	-0.0002	0	%100
51	51	Z	-0.0002	-0.0002	0	%100
52	52	Z	-0.0002	-0.0002	0	%100
53	53	Z	-0.0001	-0.0001	0	%100
54	54	Z	-0.0002	-0.0002	0	%100
55	55	Z	-0.0002	-0.0002	0	%100
56	56	Z	-0.0002	-0.0002	0	%100
57	57	Z	-0.0003	-0.0003	0	%100
58	58	Z	-0.0003	-0.0003	0	%100
59	59	Z	-0.0003	-0.0003	0	%100
60	60	Z	-0.0002	-0.0002	0	%100
61	61	Z	-0.0003	-0.0003	0	%100
62	62	Z	-0.0003	-0.0003	0	%100
63	63	Z	-0.0003	-0.0003	0	%100
64	64	Z	-0.0003	-0.0003	0	%100
65	65	Z	-0.0003	-0.0003	0	%100
66	66	Z	-0.0003	-0.0003	0	%100
67	67	Z	-0.0003	-0.0003	0	%100
68	68	Z	-0.0002	-0.0002	0	%100
69	69	Z	-0.0002	-0.0002	0	%100
70	70	Z	-0.0002	-0.0002	0	%100
71	71	Z	-0.0002	-0.0002	0	%100
72	72	Z	-0.0003	-0.0003	0	%100
73	73	Z	-0.0003	-0.0003	0	%100
74	74	Z	-0.0003	-0.0003	0	%100
75	75	Z	-0.0002	-0.0002	0	%100
76	76	Z	-0.0003	-0.0003	0	%100
77	77	Z	-0.0003	-0.0003	0	%100
78	78	Z	-0.0003	-0.0003	0	%100
79	79	Z	-0.0003	-0.0003	0	%100
80	80	Z	-0.0003	-0.0003	0	%100
81	81	Z	-0.0003	-0.0003	0	%100
82	82	Z	-0.0003	-0.0003	0	%100
83	83	Z	-0.0002	-0.0002	0	%100
84	84	Z	-0.0002	-0.0002	0	%100
85	85	Z	-0.0002	-0.0002	0	%100
86	86	Z	-0.0001	-0.0001	0	%100
87	188	Z	-0.0003	-0.0003	0	%100
88	189	Z	-0.0003	-0.0003	0	%100
89	190	Z	-0.0003	-0.0003	0	%100
90	193	Z	-0.001	-0.001	0	%100
91	194	Z	-0.001	-0.001	0	%100
92	195	Z	-0.001	-0.001	0	%100
93	196	Z	-0.0004	-0.0004	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
94	197	Z	-0.0004	-0.0004	0	%100
95	198	Z	-0.0004	-0.0004	0	%100
96	199	Z	-0.0004	-0.0004	0	%100
97	200	Z	-0.0004	-0.0004	0	%100
98	201	Z	-0.0004	-0.0004	0	%100
99	202	Z	-0.0004	-0.0004	0	%100
100	203	Z	-0.0004	-0.0004	0	%100
101	204	Z	-0.0004	-0.0004	0	%100
102	205	Z	-0.0004	-0.0004	0	%100
103	206	Z	-0.0004	-0.0004	0	%100
104	207	Z	-0.0004	-0.0004	0	%100
105	208	Z	-0.0004	-0.0004	0	%100
106	209	Z	-0.0004	-0.0004	0	%100
107	210	Z	-0.0004	-0.0004	0	%100
108	211	Z	-0.0002	-0.0002	0	%100
109	212	Z	-0.0002	-0.0002	0	%100
110	213	Z	-0.0002	-0.0002	0	%100
111	214	Z	-0.0002	-0.0002	0	%100
112	215	Z	-0.0002	-0.0002	0	%100
113	216	Z	-0.0002	-0.0002	0	%100
114	225	Z	-0.0003	-0.0003	0	%100
115	226	Z	-0.0003	-0.0003	0	%100
116	227	Z	-0.0003	-0.0003	0	%100
117	228	Z	-0.0003	-0.0003	0	%100
118	237	Z	-0.0003	-0.0003	0	%100
119	238	Z	-0.0003	-0.0003	0	%100
120	239	Z	-0.0003	-0.0003	0	%100
121	240	Z	-0.0003	-0.0003	0	%100
122	249	Z	-0.0003	-0.0003	0	%100
123	250	Z	-0.0003	-0.0003	0	%100
124	251	Z	-0.0003	-0.0003	0	%100
125	252	Z	-0.0003	-0.0003	0	%100
126	253	Z	-0.0001	-0.0001	0	%100
127	254	Z	-0.0001	-0.0001	0	%100
128	255	Z	-0.0001	-0.0001	0	%100
129	256	Z	-0.0001	-0.0001	0	%100
130	257	Z	-0.0001	-0.0001	0	%100
131	258	Z	-0.0001	-0.0001	0	%100
132	259	Z	-0.0001	-0.0001	0	%100
133	260	Z	-0.0002	-0.0002	0	%100
134	261	Z	-0.0002	-0.0002	0	%100
135	262	Z	-0.0002	-0.0002	0	%100
136	263	Z	-0.0001	-0.0001	0	%100
137	264	Z	-0.0002	-0.0002	0	%100
138	265	Z	-0.0002	-0.0002	0	%100
139	266	Z	-0.0002	-0.0002	0	%100
140	267	Z	-0.0003	-0.0003	0	%100
141	268	Z	-0.0003	-0.0003	0	%100
142	269	Z	-0.0003	-0.0003	0	%100
143	270	Z	-0.0002	-0.0002	0	%100
144	271	Z	-0.0003	-0.0003	0	%100
145	272	Z	-0.0003	-0.0003	0	%100
146	273	Z	-0.0003	-0.0003	0	%100
147	274	Z	-0.0003	-0.0003	0	%100
148	275	Z	-0.0003	-0.0003	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
149	276	Z	-0.0003	-0.0003	0	%100
150	277	Z	-0.0003	-0.0003	0	%100
151	278	Z	-0.0002	-0.0002	0	%100
152	279	Z	-0.0002	-0.0002	0	%100
153	280	Z	-0.0002	-0.0002	0	%100
154	281	Z	-0.0002	-0.0002	0	%100
155	282	Z	-0.0003	-0.0003	0	%100
156	283	Z	-0.0003	-0.0003	0	%100
157	284	Z	-0.0003	-0.0003	0	%100
158	285	Z	-0.0002	-0.0002	0	%100
159	286	Z	-0.0003	-0.0003	0	%100
160	287	Z	-0.0003	-0.0003	0	%100
161	288	Z	-0.0003	-0.0003	0	%100
162	289	Z	-0.0003	-0.0003	0	%100
163	290	Z	-0.0003	-0.0003	0	%100
164	291	Z	-0.0003	-0.0003	0	%100
165	292	Z	-0.0003	-0.0003	0	%100
166	293	Z	-0.0002	-0.0002	0	%100
167	294	Z	-0.0002	-0.0002	0	%100
168	295	Z	-0.0002	-0.0002	0	%100
169	296	Z	-0.0001	-0.0001	0	%100
170	325	Z	-0.0001	-0.0001	0	%100
171	326	Z	-0.0001	-0.0001	0	%100
172	327	Z	-0.0001	-0.0001	0	%100
173	328	Z	-0.0001	-0.0001	0	%100
174	329	Z	-0.0001	-0.0001	0	%100
175	330	Z	-0.0001	-0.0001	0	%100
176	331	Z	-0.0001	-0.0001	0	%100
177	332	Z	-0.0002	-0.0002	0	%100
178	333	Z	-0.0002	-0.0002	0	%100
179	334	Z	-0.0002	-0.0002	0	%100
180	335	Z	-0.0001	-0.0001	0	%100
181	336	Z	-0.0002	-0.0002	0	%100
182	337	Z	-0.0002	-0.0002	0	%100
183	338	Z	-0.0002	-0.0002	0	%100
184	339	Z	-0.0003	-0.0003	0	%100
185	340	Z	-0.0003	-0.0003	0	%100
186	341	Z	-0.0003	-0.0003	0	%100
187	342	Z	-0.0002	-0.0002	0	%100
188	343	Z	-0.0003	-0.0003	0	%100
189	344	Z	-0.0003	-0.0003	0	%100
190	345	Z	-0.0003	-0.0003	0	%100
191	346	Z	-0.0003	-0.0003	0	%100
192	347	Z	-0.0003	-0.0003	0	%100
193	348	Z	-0.0003	-0.0003	0	%100
194	349	Z	-0.0003	-0.0003	0	%100
195	350	Z	-0.0002	-0.0002	0	%100
196	351	Z	-0.0002	-0.0002	0	%100
197	352	Z	-0.0002	-0.0002	0	%100
198	353	Z	-0.0002	-0.0002	0	%100
199	354	Z	-0.0003	-0.0003	0	%100
200	355	Z	-0.0003	-0.0003	0	%100
201	356	Z	-0.0003	-0.0003	0	%100
202	357	Z	-0.0002	-0.0002	0	%100
203	358	Z	-0.0003	-0.0003	0	%100

Member Distributed Loads (BLC 6 : 0 Wind - Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
204	359	Z	-0.0003	-0.0003	0	%100
205	360	Z	-0.0003	-0.0003	0	%100
206	361	Z	-0.0003	-0.0003	0	%100
207	362	Z	-0.0003	-0.0003	0	%100
208	363	Z	-0.0003	-0.0003	0	%100
209	364	Z	-0.0003	-0.0003	0	%100
210	365	Z	-0.0002	-0.0002	0	%100
211	366	Z	-0.0002	-0.0002	0	%100
212	367	Z	-0.0002	-0.0002	0	%100
213	368	Z	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.0003	-0.0003	0	%100
2	2	X	-0.0003	-0.0003	0	%100
3	3	X	-0.0003	-0.0003	0	%100
4	4	X	-0.0006	-0.0006	0	%100
5	5	X	-0.0006	-0.0006	0	%100
6	6	X	-0.0006	-0.0006	0	%100
7	7	X	-0.0006	-0.0006	0	%100
8	8	X	-0.0006	-0.0006	0	%100
9	9	X	-0.0006	-0.0006	0	%100
10	10	X	-0.0008	-0.0008	0	%100
11	11	X	-0.0008	-0.0008	0	%100
12	12	X	-0.0008	-0.0008	0	%100
13	13	X	-0.0008	-0.0008	0	%100
14	14	X	-0.0008	-0.0008	0	%100
15	15	X	-0.0008	-0.0008	0	%100
16	16	X	-0.0008	-0.0008	0	%100
17	17	X	-0.0008	-0.0008	0	%100
18	18	X	-0.0008	-0.0008	0	%100
19	19	X	-0.0008	-0.0008	0	%100
20	20	X	-0.0008	-0.0008	0	%100
21	21	X	-0.0008	-0.0008	0	%100
22	22	X	-0.0006	-0.0006	0	%100
23	23	X	-0.0006	-0.0006	0	%100
24	24	X	-0.0006	-0.0006	0	%100
25	25	X	-0.0006	-0.0006	0	%100
26	26	X	-0.0005	-0.0005	0	%100
27	27	X	-0.0005	-0.0005	0	%100
28	28	X	-0.0006	-0.0006	0	%100
29	29	X	-0.0006	-0.0006	0	%100
30	30	X	-0.0006	-0.0006	0	%100
31	31	X	-0.0006	-0.0006	0	%100
32	32	X	-0.0005	-0.0005	0	%100
33	33	X	-0.0005	-0.0005	0	%100
34	34	X	-0.0006	-0.0006	0	%100
35	35	X	-0.0006	-0.0006	0	%100
36	36	X	-0.0006	-0.0006	0	%100
37	37	X	-0.0006	-0.0006	0	%100
38	38	X	-0.0005	-0.0005	0	%100
39	39	X	-0.0005	-0.0005	0	%100
40	40	X	-0.0009	-0.0009	0	%100
41	41	X	-0.0009	-0.0009	0	%100
42	42	X	-0.0009	-0.0009	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
43	43	X	-0.0001	-0.0001	0	%100
44	44	X	-0.0001	-0.0001	0	%100
45	45	X	-0.0001	-0.0001	0	%100
46	46	X	-0.0001	-0.0001	0	%100
47	47	X	-0.0001	-0.0001	0	%100
48	48	X	-0.0001	-0.0001	0	%100
49	49	X	-0.0001	-0.0001	0	%100
50	50	X	-0.0002	-0.0002	0	%100
51	51	X	-0.0002	-0.0002	0	%100
52	52	X	-0.0002	-0.0002	0	%100
53	53	X	-0.0001	-0.0001	0	%100
54	54	X	-0.0002	-0.0002	0	%100
55	55	X	-0.0002	-0.0002	0	%100
56	56	X	-0.0002	-0.0002	0	%100
57	57	X	-0.0003	-0.0003	0	%100
58	58	X	-0.0003	-0.0003	0	%100
59	59	X	-0.0003	-0.0003	0	%100
60	60	X	-0.0002	-0.0002	0	%100
61	61	X	-0.0003	-0.0003	0	%100
62	62	X	-0.0003	-0.0003	0	%100
63	63	X	-0.0003	-0.0003	0	%100
64	64	X	-0.0003	-0.0003	0	%100
65	65	X	-0.0003	-0.0003	0	%100
66	66	X	-0.0003	-0.0003	0	%100
67	67	X	-0.0003	-0.0003	0	%100
68	68	X	-0.0002	-0.0002	0	%100
69	69	X	-0.0002	-0.0002	0	%100
70	70	X	-0.0002	-0.0002	0	%100
71	71	X	-0.0002	-0.0002	0	%100
72	72	X	-0.0003	-0.0003	0	%100
73	73	X	-0.0003	-0.0003	0	%100
74	74	X	-0.0003	-0.0003	0	%100
75	75	X	-0.0002	-0.0002	0	%100
76	76	X	-0.0003	-0.0003	0	%100
77	77	X	-0.0003	-0.0003	0	%100
78	78	X	-0.0003	-0.0003	0	%100
79	79	X	-0.0003	-0.0003	0	%100
80	80	X	-0.0003	-0.0003	0	%100
81	81	X	-0.0003	-0.0003	0	%100
82	82	X	-0.0003	-0.0003	0	%100
83	83	X	-0.0002	-0.0002	0	%100
84	84	X	-0.0002	-0.0002	0	%100
85	85	X	-0.0002	-0.0002	0	%100
86	86	X	-0.0001	-0.0001	0	%100
87	188	X	-0.0003	-0.0003	0	%100
88	189	X	-0.0003	-0.0003	0	%100
89	190	X	-0.0003	-0.0003	0	%100
90	193	X	-0.001	-0.001	0	%100
91	194	X	-0.001	-0.001	0	%100
92	195	X	-0.001	-0.001	0	%100
93	196	X	-0.0004	-0.0004	0	%100
94	197	X	-0.0004	-0.0004	0	%100
95	198	X	-0.0004	-0.0004	0	%100
96	199	X	-0.0004	-0.0004	0	%100
97	200	X	-0.0004	-0.0004	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
98	201	X	-0.0004	-0.0004	0	%100
99	202	X	-0.0004	-0.0004	0	%100
100	203	X	-0.0004	-0.0004	0	%100
101	204	X	-0.0004	-0.0004	0	%100
102	205	X	-0.0004	-0.0004	0	%100
103	206	X	-0.0004	-0.0004	0	%100
104	207	X	-0.0004	-0.0004	0	%100
105	208	X	-0.0004	-0.0004	0	%100
106	209	X	-0.0004	-0.0004	0	%100
107	210	X	-0.0004	-0.0004	0	%100
108	211	X	-0.0002	-0.0002	0	%100
109	212	X	-0.0002	-0.0002	0	%100
110	213	X	-0.0002	-0.0002	0	%100
111	214	X	-0.0002	-0.0002	0	%100
112	215	X	-0.0002	-0.0002	0	%100
113	216	X	-0.0002	-0.0002	0	%100
114	225	X	-0.0003	-0.0003	0	%100
115	226	X	-0.0003	-0.0003	0	%100
116	227	X	-0.0003	-0.0003	0	%100
117	228	X	-0.0003	-0.0003	0	%100
118	237	X	-0.0003	-0.0003	0	%100
119	238	X	-0.0003	-0.0003	0	%100
120	239	X	-0.0003	-0.0003	0	%100
121	240	X	-0.0003	-0.0003	0	%100
122	249	X	-0.0003	-0.0003	0	%100
123	250	X	-0.0003	-0.0003	0	%100
124	251	X	-0.0003	-0.0003	0	%100
125	252	X	-0.0003	-0.0003	0	%100
126	253	X	-0.0001	-0.0001	0	%100
127	254	X	-0.0001	-0.0001	0	%100
128	255	X	-0.0001	-0.0001	0	%100
129	256	X	-0.0001	-0.0001	0	%100
130	257	X	-0.0001	-0.0001	0	%100
131	258	X	-0.0001	-0.0001	0	%100
132	259	X	-0.0001	-0.0001	0	%100
133	260	X	-0.0002	-0.0002	0	%100
134	261	X	-0.0002	-0.0002	0	%100
135	262	X	-0.0002	-0.0002	0	%100
136	263	X	-0.0001	-0.0001	0	%100
137	264	X	-0.0002	-0.0002	0	%100
138	265	X	-0.0002	-0.0002	0	%100
139	266	X	-0.0002	-0.0002	0	%100
140	267	X	-0.0003	-0.0003	0	%100
141	268	X	-0.0003	-0.0003	0	%100
142	269	X	-0.0003	-0.0003	0	%100
143	270	X	-0.0002	-0.0002	0	%100
144	271	X	-0.0003	-0.0003	0	%100
145	272	X	-0.0003	-0.0003	0	%100
146	273	X	-0.0003	-0.0003	0	%100
147	274	X	-0.0003	-0.0003	0	%100
148	275	X	-0.0003	-0.0003	0	%100
149	276	X	-0.0003	-0.0003	0	%100
150	277	X	-0.0003	-0.0003	0	%100
151	278	X	-0.0002	-0.0002	0	%100
152	279	X	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
153	280	X	-0.0002	-0.0002	0	%100
154	281	X	-0.0002	-0.0002	0	%100
155	282	X	-0.0003	-0.0003	0	%100
156	283	X	-0.0003	-0.0003	0	%100
157	284	X	-0.0003	-0.0003	0	%100
158	285	X	-0.0002	-0.0002	0	%100
159	286	X	-0.0003	-0.0003	0	%100
160	287	X	-0.0003	-0.0003	0	%100
161	288	X	-0.0003	-0.0003	0	%100
162	289	X	-0.0003	-0.0003	0	%100
163	290	X	-0.0003	-0.0003	0	%100
164	291	X	-0.0003	-0.0003	0	%100
165	292	X	-0.0003	-0.0003	0	%100
166	293	X	-0.0002	-0.0002	0	%100
167	294	X	-0.0002	-0.0002	0	%100
168	295	X	-0.0002	-0.0002	0	%100
169	296	X	-0.0001	-0.0001	0	%100
170	325	X	-0.0001	-0.0001	0	%100
171	326	X	-0.0001	-0.0001	0	%100
172	327	X	-0.0001	-0.0001	0	%100
173	328	X	-0.0001	-0.0001	0	%100
174	329	X	-0.0001	-0.0001	0	%100
175	330	X	-0.0001	-0.0001	0	%100
176	331	X	-0.0001	-0.0001	0	%100
177	332	X	-0.0002	-0.0002	0	%100
178	333	X	-0.0002	-0.0002	0	%100
179	334	X	-0.0002	-0.0002	0	%100
180	335	X	-0.0001	-0.0001	0	%100
181	336	X	-0.0002	-0.0002	0	%100
182	337	X	-0.0002	-0.0002	0	%100
183	338	X	-0.0002	-0.0002	0	%100
184	339	X	-0.0003	-0.0003	0	%100
185	340	X	-0.0003	-0.0003	0	%100
186	341	X	-0.0003	-0.0003	0	%100
187	342	X	-0.0002	-0.0002	0	%100
188	343	X	-0.0003	-0.0003	0	%100
189	344	X	-0.0003	-0.0003	0	%100
190	345	X	-0.0003	-0.0003	0	%100
191	346	X	-0.0003	-0.0003	0	%100
192	347	X	-0.0003	-0.0003	0	%100
193	348	X	-0.0003	-0.0003	0	%100
194	349	X	-0.0003	-0.0003	0	%100
195	350	X	-0.0002	-0.0002	0	%100
196	351	X	-0.0002	-0.0002	0	%100
197	352	X	-0.0002	-0.0002	0	%100
198	353	X	-0.0002	-0.0002	0	%100
199	354	X	-0.0003	-0.0003	0	%100
200	355	X	-0.0003	-0.0003	0	%100
201	356	X	-0.0003	-0.0003	0	%100
202	357	X	-0.0002	-0.0002	0	%100
203	358	X	-0.0003	-0.0003	0	%100
204	359	X	-0.0003	-0.0003	0	%100
205	360	X	-0.0003	-0.0003	0	%100
206	361	X	-0.0003	-0.0003	0	%100
207	362	X	-0.0003	-0.0003	0	%100

Member Distributed Loads (BLC 7 : 90 Wind - Service) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
208	363	X	-0.0003	-0.0003	0	%100
209	364	X	-0.0003	-0.0003	0	%100
210	365	X	-0.0002	-0.0002	0	%100
211	366	X	-0.0002	-0.0002	0	%100
212	367	X	-0.0002	-0.0002	0	%100
213	368	X	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 8 : Ice)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Y	-0.008	-0.008	0	%100
2	2	Y	-0.008	-0.008	0	%100
3	3	Y	-0.008	-0.008	0	%100
4	4	Y	-0.009	-0.009	0	%100
5	5	Y	-0.009	-0.009	0	%100
6	6	Y	-0.009	-0.009	0	%100
7	7	Y	-0.009	-0.009	0	%100
8	8	Y	-0.009	-0.009	0	%100
9	9	Y	-0.009	-0.009	0	%100
10	10	Y	-0.011	-0.011	0	%100
11	11	Y	-0.011	-0.011	0	%100
12	12	Y	-0.011	-0.011	0	%100
13	13	Y	-0.011	-0.011	0	%100
14	14	Y	-0.011	-0.011	0	%100
15	15	Y	-0.011	-0.011	0	%100
16	16	Y	-0.011	-0.011	0	%100
17	17	Y	-0.011	-0.011	0	%100
18	18	Y	-0.011	-0.011	0	%100
19	19	Y	-0.011	-0.011	0	%100
20	20	Y	-0.011	-0.011	0	%100
21	21	Y	-0.011	-0.011	0	%100
22	22	Y	-0.008	-0.008	0	%100
23	23	Y	-0.008	-0.008	0	%100
24	24	Y	-0.008	-0.008	0	%100
25	25	Y	-0.008	-0.008	0	%100
26	26	Y	-0.008	-0.008	0	%100
27	27	Y	-0.008	-0.008	0	%100
28	28	Y	-0.008	-0.008	0	%100
29	29	Y	-0.008	-0.008	0	%100
30	30	Y	-0.008	-0.008	0	%100
31	31	Y	-0.008	-0.008	0	%100
32	32	Y	-0.008	-0.008	0	%100
33	33	Y	-0.008	-0.008	0	%100
34	34	Y	-0.008	-0.008	0	%100
35	35	Y	-0.008	-0.008	0	%100
36	36	Y	-0.008	-0.008	0	%100
37	37	Y	-0.008	-0.008	0	%100
38	38	Y	-0.008	-0.008	0	%100
39	39	Y	-0.008	-0.008	0	%100
40	40	Y	-0.013	-0.013	0	%100
41	41	Y	-0.013	-0.013	0	%100
42	42	Y	-0.013	-0.013	0	%100
43	43	Y	-0.011	-0.011	0	%100
44	44	Y	-0.011	-0.011	0	%100
45	45	Y	-0.011	-0.011	0	%100
46	46	Y	-0.011	-0.011	0	%100

Member Distributed Loads (BLC 8 : Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
47	47	Y	-0.011	-0.011	0	%100
48	48	Y	-0.011	-0.011	0	%100
49	49	Y	-0.011	-0.011	0	%100
50	50	Y	-0.011	-0.011	0	%100
51	51	Y	-0.011	-0.011	0	%100
52	52	Y	-0.011	-0.011	0	%100
53	53	Y	-0.011	-0.011	0	%100
54	54	Y	-0.011	-0.011	0	%100
55	55	Y	-0.011	-0.011	0	%100
56	56	Y	-0.011	-0.011	0	%100
57	57	Y	-0.005	-0.005	0	%100
58	58	Y	-0.005	-0.005	0	%100
59	59	Y	-0.005	-0.005	0	%100
60	60	Y	-0.005	-0.005	0	%100
61	61	Y	-0.005	-0.005	0	%100
62	62	Y	-0.005	-0.005	0	%100
63	63	Y	-0.005	-0.005	0	%100
64	64	Y	-0.005	-0.005	0	%100
65	65	Y	-0.005	-0.005	0	%100
66	66	Y	-0.005	-0.005	0	%100
67	67	Y	-0.005	-0.005	0	%100
68	68	Y	-0.005	-0.005	0	%100
69	69	Y	-0.005	-0.005	0	%100
70	70	Y	-0.005	-0.005	0	%100
71	71	Y	-0.004	-0.004	0	%100
72	72	Y	-0.005	-0.005	0	%100
73	73	Y	-0.005	-0.005	0	%100
74	74	Y	-0.005	-0.005	0	%100
75	75	Y	-0.005	-0.005	0	%100
76	76	Y	-0.005	-0.005	0	%100
77	77	Y	-0.005	-0.005	0	%100
78	78	Y	-0.005	-0.005	0	%100
79	79	Y	-0.005	-0.005	0	%100
80	80	Y	-0.005	-0.005	0	%100
81	81	Y	-0.005	-0.005	0	%100
82	82	Y	-0.005	-0.005	0	%100
83	83	Y	-0.005	-0.005	0	%100
84	84	Y	-0.005	-0.005	0	%100
85	85	Y	-0.005	-0.005	0	%100
86	86	Y	-0.004	-0.004	0	%100
87	188	Y	-0.008	-0.008	0	%100
88	189	Y	-0.008	-0.008	0	%100
89	190	Y	-0.008	-0.008	0	%100
90	193	Y	-0.012	-0.012	0	%100
91	194	Y	-0.012	-0.012	0	%100
92	195	Y	-0.012	-0.012	0	%100
93	196	Y	-0.006	-0.006	0	%100
94	197	Y	-0.006	-0.006	0	%100
95	198	Y	-0.006	-0.006	0	%100
96	199	Y	-0.006	-0.006	0	%100
97	200	Y	-0.006	-0.006	0	%100
98	201	Y	-0.006	-0.006	0	%100
99	202	Y	-0.006	-0.006	0	%100
100	203	Y	-0.006	-0.006	0	%100
101	204	Y	-0.006	-0.006	0	%100

Member Distributed Loads (BLC 8 : Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
102	205	Y	-0.006	-0.006	0	%100
103	206	Y	-0.006	-0.006	0	%100
104	207	Y	-0.006	-0.006	0	%100
105	208	Y	-0.006	-0.006	0	%100
106	209	Y	-0.006	-0.006	0	%100
107	210	Y	-0.006	-0.006	0	%100
108	211	Y	-0.007	-0.007	0	%100
109	212	Y	-0.007	-0.007	0	%100
110	213	Y	-0.007	-0.007	0	%100
111	214	Y	-0.007	-0.007	0	%100
112	215	Y	-0.007	-0.007	0	%100
113	216	Y	-0.007	-0.007	0	%100
114	225	Y	-0.008	-0.008	0	%100
115	226	Y	-0.008	-0.008	0	%100
116	227	Y	-0.008	-0.008	0	%100
117	228	Y	-0.008	-0.008	0	%100
118	237	Y	-0.008	-0.008	0	%100
119	238	Y	-0.008	-0.008	0	%100
120	239	Y	-0.008	-0.008	0	%100
121	240	Y	-0.008	-0.008	0	%100
122	249	Y	-0.008	-0.008	0	%100
123	250	Y	-0.008	-0.008	0	%100
124	251	Y	-0.008	-0.008	0	%100
125	252	Y	-0.008	-0.008	0	%100
126	253	Y	-0.011	-0.011	0	%100
127	254	Y	-0.011	-0.011	0	%100
128	255	Y	-0.011	-0.011	0	%100
129	256	Y	-0.011	-0.011	0	%100
130	257	Y	-0.011	-0.011	0	%100
131	258	Y	-0.011	-0.011	0	%100
132	259	Y	-0.011	-0.011	0	%100
133	260	Y	-0.011	-0.011	0	%100
134	261	Y	-0.011	-0.011	0	%100
135	262	Y	-0.011	-0.011	0	%100
136	263	Y	-0.011	-0.011	0	%100
137	264	Y	-0.011	-0.011	0	%100
138	265	Y	-0.011	-0.011	0	%100
139	266	Y	-0.011	-0.011	0	%100
140	267	Y	-0.005	-0.005	0	%100
141	268	Y	-0.005	-0.005	0	%100
142	269	Y	-0.005	-0.005	0	%100
143	270	Y	-0.005	-0.005	0	%100
144	271	Y	-0.005	-0.005	0	%100
145	272	Y	-0.005	-0.005	0	%100
146	273	Y	-0.005	-0.005	0	%100
147	274	Y	-0.005	-0.005	0	%100
148	275	Y	-0.005	-0.005	0	%100
149	276	Y	-0.005	-0.005	0	%100
150	277	Y	-0.005	-0.005	0	%100
151	278	Y	-0.005	-0.005	0	%100
152	279	Y	-0.005	-0.005	0	%100
153	280	Y	-0.005	-0.005	0	%100
154	281	Y	-0.004	-0.004	0	%100
155	282	Y	-0.005	-0.005	0	%100
156	283	Y	-0.005	-0.005	0	%100

Member Distributed Loads (BLC 8 : Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
157	284	Y	-0.005	-0.005	0	%100
158	285	Y	-0.005	-0.005	0	%100
159	286	Y	-0.005	-0.005	0	%100
160	287	Y	-0.005	-0.005	0	%100
161	288	Y	-0.005	-0.005	0	%100
162	289	Y	-0.005	-0.005	0	%100
163	290	Y	-0.005	-0.005	0	%100
164	291	Y	-0.005	-0.005	0	%100
165	292	Y	-0.005	-0.005	0	%100
166	293	Y	-0.005	-0.005	0	%100
167	294	Y	-0.005	-0.005	0	%100
168	295	Y	-0.005	-0.005	0	%100
169	296	Y	-0.004	-0.004	0	%100
170	325	Y	-0.011	-0.011	0	%100
171	326	Y	-0.011	-0.011	0	%100
172	327	Y	-0.011	-0.011	0	%100
173	328	Y	-0.011	-0.011	0	%100
174	329	Y	-0.011	-0.011	0	%100
175	330	Y	-0.011	-0.011	0	%100
176	331	Y	-0.011	-0.011	0	%100
177	332	Y	-0.011	-0.011	0	%100
178	333	Y	-0.011	-0.011	0	%100
179	334	Y	-0.011	-0.011	0	%100
180	335	Y	-0.011	-0.011	0	%100
181	336	Y	-0.011	-0.011	0	%100
182	337	Y	-0.011	-0.011	0	%100
183	338	Y	-0.011	-0.011	0	%100
184	339	Y	-0.005	-0.005	0	%100
185	340	Y	-0.005	-0.005	0	%100
186	341	Y	-0.005	-0.005	0	%100
187	342	Y	-0.005	-0.005	0	%100
188	343	Y	-0.005	-0.005	0	%100
189	344	Y	-0.005	-0.005	0	%100
190	345	Y	-0.005	-0.005	0	%100
191	346	Y	-0.005	-0.005	0	%100
192	347	Y	-0.005	-0.005	0	%100
193	348	Y	-0.005	-0.005	0	%100
194	349	Y	-0.005	-0.005	0	%100
195	350	Y	-0.005	-0.005	0	%100
196	351	Y	-0.005	-0.005	0	%100
197	352	Y	-0.005	-0.005	0	%100
198	353	Y	-0.004	-0.004	0	%100
199	354	Y	-0.005	-0.005	0	%100
200	355	Y	-0.005	-0.005	0	%100
201	356	Y	-0.005	-0.005	0	%100
202	357	Y	-0.005	-0.005	0	%100
203	358	Y	-0.005	-0.005	0	%100
204	359	Y	-0.005	-0.005	0	%100
205	360	Y	-0.005	-0.005	0	%100
206	361	Y	-0.005	-0.005	0	%100
207	362	Y	-0.005	-0.005	0	%100
208	363	Y	-0.005	-0.005	0	%100
209	364	Y	-0.005	-0.005	0	%100
210	365	Y	-0.005	-0.005	0	%100
211	366	Y	-0.005	-0.005	0	%100

Member Distributed Loads (BLC 8 : Ice) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
212	367	Y	-0.005	-0.005	0	%100
213	368	Y	-0.004	-0.004	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	Z	-0.0006	-0.0006	0	%100
2	2	Z	-0.0006	-0.0006	0	%100
3	3	Z	-0.0006	-0.0006	0	%100
4	4	Z	-0.0004	-0.0004	0	%100
5	5	Z	-0.0004	-0.0004	0	%100
6	6	Z	-0.0004	-0.0004	0	%100
7	7	Z	-0.0004	-0.0004	0	%100
8	8	Z	-0.0004	-0.0004	0	%100
9	9	Z	-0.0004	-0.0004	0	%100
10	10	Z	-0.0007	-0.0007	0	%100
11	11	Z	-0.0007	-0.0007	0	%100
12	12	Z	-0.0007	-0.0007	0	%100
13	13	Z	-0.0007	-0.0007	0	%100
14	14	Z	-0.0007	-0.0007	0	%100
15	15	Z	-0.0007	-0.0007	0	%100
16	16	Z	-0.0007	-0.0007	0	%100
17	17	Z	-0.0007	-0.0007	0	%100
18	18	Z	-0.0007	-0.0007	0	%100
19	19	Z	-0.0007	-0.0007	0	%100
20	20	Z	-0.0007	-0.0007	0	%100
21	21	Z	-0.0007	-0.0007	0	%100
22	22	Z	-0.0003	-0.0003	0	%100
23	23	Z	-0.0003	-0.0003	0	%100
24	24	Z	-0.0003	-0.0003	0	%100
25	25	Z	-0.0003	-0.0003	0	%100
26	26	Z	-0.0003	-0.0003	0	%100
27	27	Z	-0.0003	-0.0003	0	%100
28	28	Z	-0.0003	-0.0003	0	%100
29	29	Z	-0.0003	-0.0003	0	%100
30	30	Z	-0.0003	-0.0003	0	%100
31	31	Z	-0.0003	-0.0003	0	%100
32	32	Z	-0.0003	-0.0003	0	%100
33	33	Z	-0.0003	-0.0003	0	%100
34	34	Z	-0.0003	-0.0003	0	%100
35	35	Z	-0.0003	-0.0003	0	%100
36	36	Z	-0.0003	-0.0003	0	%100
37	37	Z	-0.0003	-0.0003	0	%100
38	38	Z	-0.0003	-0.0003	0	%100
39	39	Z	-0.0003	-0.0003	0	%100
40	40	Z	-0.001	-0.001	0	%100
41	41	Z	-0.001	-0.001	0	%100
42	42	Z	-0.001	-0.001	0	%100
43	43	Z	-0.0005	-0.0005	0	%100
44	44	Z	-0.0005	-0.0005	0	%100
45	45	Z	-0.0005	-0.0005	0	%100
46	46	Z	-0.0005	-0.0005	0	%100
47	47	Z	-0.0005	-0.0005	0	%100
48	48	Z	-0.0005	-0.0005	0	%100
49	49	Z	-0.0005	-0.0005	0	%100
50	50	Z	-0.0006	-0.0006	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
51	51	Z	-0.0006	-0.0006	0	%100
52	52	Z	-0.0006	-0.0006	0	%100
53	53	Z	-0.0006	-0.0006	0	%100
54	54	Z	-0.0006	-0.0006	0	%100
55	55	Z	-0.0006	-0.0006	0	%100
56	56	Z	-0.0006	-0.0006	0	%100
57	57	Z	-0.0001	-0.0001	0	%100
58	58	Z	-0.0001	-0.0001	0	%100
59	59	Z	-0.0001	-0.0001	0	%100
60	60	Z	-0.0001	-0.0001	0	%100
61	61	Z	-0.0001	-0.0001	0	%100
62	62	Z	-0.0001	-0.0001	0	%100
63	63	Z	-0.0001	-0.0001	0	%100
64	64	Z	-0.0001	-0.0001	0	%100
65	65	Z	-0.0001	-0.0001	0	%100
66	66	Z	-0.0001	-0.0001	0	%100
67	67	Z	-0.0001	-0.0001	0	%100
68	68	Z	-0.0001	-0.0001	0	%100
69	69	Z	-0.0001	-0.0001	0	%100
70	70	Z	-0.0001	-0.0001	0	%100
71	71	Z	-0.0001	-0.0001	0	%100
72	72	Z	-0.0001	-0.0001	0	%100
73	73	Z	-0.0001	-0.0001	0	%100
74	74	Z	-0.0001	-0.0001	0	%100
75	75	Z	-0.0001	-0.0001	0	%100
76	76	Z	-0.0001	-0.0001	0	%100
77	77	Z	-0.0001	-0.0001	0	%100
78	78	Z	-0.0001	-0.0001	0	%100
79	79	Z	-0.0001	-0.0001	0	%100
80	80	Z	-0.0001	-0.0001	0	%100
81	81	Z	-0.0001	-0.0001	0	%100
82	82	Z	-0.0001	-0.0001	0	%100
83	83	Z	-0.0001	-0.0001	0	%100
84	84	Z	-0.0001	-0.0001	0	%100
85	85	Z	-0.0001	-0.0001	0	%100
86	86	Z	-0.0001	-0.0001	0	%100
87	188	Z	-0.0004	-0.0004	0	%100
88	189	Z	-0.0004	-0.0004	0	%100
89	190	Z	-0.0004	-0.0004	0	%100
90	193	Z	-0.0007	-0.0007	0	%100
91	194	Z	-0.0007	-0.0007	0	%100
92	195	Z	-0.0007	-0.0007	0	%100
93	196	Z	-0.0002	-0.0002	0	%100
94	197	Z	-0.0002	-0.0002	0	%100
95	198	Z	-0.0002	-0.0002	0	%100
96	199	Z	-0.0002	-0.0002	0	%100
97	200	Z	-0.0002	-0.0002	0	%100
98	201	Z	-0.0002	-0.0002	0	%100
99	202	Z	-0.0002	-0.0002	0	%100
100	203	Z	-0.0002	-0.0002	0	%100
101	204	Z	-0.0002	-0.0002	0	%100
102	205	Z	-0.0002	-0.0002	0	%100
103	206	Z	-0.0002	-0.0002	0	%100
104	207	Z	-0.0002	-0.0002	0	%100
105	208	Z	-0.0002	-0.0002	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
106	209	Z	-0.0002	-0.0002	0	%100
107	210	Z	-0.0002	-0.0002	0	%100
108	211	Z	-0.0003	-0.0003	0	%100
109	212	Z	-0.0003	-0.0003	0	%100
110	213	Z	-0.0003	-0.0003	0	%100
111	214	Z	-0.0003	-0.0003	0	%100
112	215	Z	-0.0003	-0.0003	0	%100
113	216	Z	-0.0003	-0.0003	0	%100
114	225	Z	-0.0004	-0.0004	0	%100
115	226	Z	-0.0004	-0.0004	0	%100
116	227	Z	-0.0004	-0.0004	0	%100
117	228	Z	-0.0004	-0.0004	0	%100
118	237	Z	-0.0004	-0.0004	0	%100
119	238	Z	-0.0004	-0.0004	0	%100
120	239	Z	-0.0004	-0.0004	0	%100
121	240	Z	-0.0004	-0.0004	0	%100
122	249	Z	-0.0004	-0.0004	0	%100
123	250	Z	-0.0004	-0.0004	0	%100
124	251	Z	-0.0004	-0.0004	0	%100
125	252	Z	-0.0004	-0.0004	0	%100
126	253	Z	-0.0005	-0.0005	0	%100
127	254	Z	-0.0005	-0.0005	0	%100
128	255	Z	-0.0005	-0.0005	0	%100
129	256	Z	-0.0005	-0.0005	0	%100
130	257	Z	-0.0005	-0.0005	0	%100
131	258	Z	-0.0005	-0.0005	0	%100
132	259	Z	-0.0005	-0.0005	0	%100
133	260	Z	-0.0006	-0.0006	0	%100
134	261	Z	-0.0006	-0.0006	0	%100
135	262	Z	-0.0006	-0.0006	0	%100
136	263	Z	-0.0006	-0.0006	0	%100
137	264	Z	-0.0006	-0.0006	0	%100
138	265	Z	-0.0006	-0.0006	0	%100
139	266	Z	-0.0006	-0.0006	0	%100
140	267	Z	-0.0001	-0.0001	0	%100
141	268	Z	-0.0001	-0.0001	0	%100
142	269	Z	-0.0001	-0.0001	0	%100
143	270	Z	-0.0001	-0.0001	0	%100
144	271	Z	-0.0001	-0.0001	0	%100
145	272	Z	-0.0001	-0.0001	0	%100
146	273	Z	-0.0001	-0.0001	0	%100
147	274	Z	-0.0001	-0.0001	0	%100
148	275	Z	-0.0001	-0.0001	0	%100
149	276	Z	-0.0001	-0.0001	0	%100
150	277	Z	-0.0001	-0.0001	0	%100
151	278	Z	-0.0001	-0.0001	0	%100
152	279	Z	-0.0001	-0.0001	0	%100
153	280	Z	-0.0001	-0.0001	0	%100
154	281	Z	-0.0001	-0.0001	0	%100
155	282	Z	-0.0001	-0.0001	0	%100
156	283	Z	-0.0001	-0.0001	0	%100
157	284	Z	-0.0001	-0.0001	0	%100
158	285	Z	-0.0001	-0.0001	0	%100
159	286	Z	-0.0001	-0.0001	0	%100
160	287	Z	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 9 : 0 Seismic) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
161	288	Z	-0.0001	-0.0001	0	%100
162	289	Z	-0.0001	-0.0001	0	%100
163	290	Z	-0.0001	-0.0001	0	%100
164	291	Z	-0.0001	-0.0001	0	%100
165	292	Z	-0.0001	-0.0001	0	%100
166	293	Z	-0.0001	-0.0001	0	%100
167	294	Z	-0.0001	-0.0001	0	%100
168	295	Z	-0.0001	-0.0001	0	%100
169	296	Z	-0.0001	-0.0001	0	%100
170	325	Z	-0.0005	-0.0005	0	%100
171	326	Z	-0.0005	-0.0005	0	%100
172	327	Z	-0.0005	-0.0005	0	%100
173	328	Z	-0.0005	-0.0005	0	%100
174	329	Z	-0.0005	-0.0005	0	%100
175	330	Z	-0.0005	-0.0005	0	%100
176	331	Z	-0.0005	-0.0005	0	%100
177	332	Z	-0.0006	-0.0006	0	%100
178	333	Z	-0.0006	-0.0006	0	%100
179	334	Z	-0.0006	-0.0006	0	%100
180	335	Z	-0.0006	-0.0006	0	%100
181	336	Z	-0.0006	-0.0006	0	%100
182	337	Z	-0.0006	-0.0006	0	%100
183	338	Z	-0.0006	-0.0006	0	%100
184	339	Z	-0.0001	-0.0001	0	%100
185	340	Z	-0.0001	-0.0001	0	%100
186	341	Z	-0.0001	-0.0001	0	%100
187	342	Z	-0.0001	-0.0001	0	%100
188	343	Z	-0.0001	-0.0001	0	%100
189	344	Z	-0.0001	-0.0001	0	%100
190	345	Z	-0.0001	-0.0001	0	%100
191	346	Z	-0.0001	-0.0001	0	%100
192	347	Z	-0.0001	-0.0001	0	%100
193	348	Z	-0.0001	-0.0001	0	%100
194	349	Z	-0.0001	-0.0001	0	%100
195	350	Z	-0.0001	-0.0001	0	%100
196	351	Z	-0.0001	-0.0001	0	%100
197	352	Z	-0.0001	-0.0001	0	%100
198	353	Z	-0.0001	-0.0001	0	%100
199	354	Z	-0.0001	-0.0001	0	%100
200	355	Z	-0.0001	-0.0001	0	%100
201	356	Z	-0.0001	-0.0001	0	%100
202	357	Z	-0.0001	-0.0001	0	%100
203	358	Z	-0.0001	-0.0001	0	%100
204	359	Z	-0.0001	-0.0001	0	%100
205	360	Z	-0.0001	-0.0001	0	%100
206	361	Z	-0.0001	-0.0001	0	%100
207	362	Z	-0.0001	-0.0001	0	%100
208	363	Z	-0.0001	-0.0001	0	%100
209	364	Z	-0.0001	-0.0001	0	%100
210	365	Z	-0.0001	-0.0001	0	%100
211	366	Z	-0.0001	-0.0001	0	%100
212	367	Z	-0.0001	-0.0001	0	%100
213	368	Z	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 10 : 90 Seismic)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	1	X	-0.0006	-0.0006	0	%100
2	2	X	-0.0006	-0.0006	0	%100
3	3	X	-0.0006	-0.0006	0	%100
4	4	X	-0.0004	-0.0004	0	%100
5	5	X	-0.0004	-0.0004	0	%100
6	6	X	-0.0004	-0.0004	0	%100
7	7	X	-0.0004	-0.0004	0	%100
8	8	X	-0.0004	-0.0004	0	%100
9	9	X	-0.0004	-0.0004	0	%100
10	10	X	-0.0007	-0.0007	0	%100
11	11	X	-0.0007	-0.0007	0	%100
12	12	X	-0.0007	-0.0007	0	%100
13	13	X	-0.0007	-0.0007	0	%100
14	14	X	-0.0007	-0.0007	0	%100
15	15	X	-0.0007	-0.0007	0	%100
16	16	X	-0.0007	-0.0007	0	%100
17	17	X	-0.0007	-0.0007	0	%100
18	18	X	-0.0007	-0.0007	0	%100
19	19	X	-0.0007	-0.0007	0	%100
20	20	X	-0.0007	-0.0007	0	%100
21	21	X	-0.0007	-0.0007	0	%100
22	22	X	-0.0003	-0.0003	0	%100
23	23	X	-0.0003	-0.0003	0	%100
24	24	X	-0.0003	-0.0003	0	%100
25	25	X	-0.0003	-0.0003	0	%100
26	26	X	-0.0003	-0.0003	0	%100
27	27	X	-0.0003	-0.0003	0	%100
28	28	X	-0.0003	-0.0003	0	%100
29	29	X	-0.0003	-0.0003	0	%100
30	30	X	-0.0003	-0.0003	0	%100
31	31	X	-0.0003	-0.0003	0	%100
32	32	X	-0.0003	-0.0003	0	%100
33	33	X	-0.0003	-0.0003	0	%100
34	34	X	-0.0003	-0.0003	0	%100
35	35	X	-0.0003	-0.0003	0	%100
36	36	X	-0.0003	-0.0003	0	%100
37	37	X	-0.0003	-0.0003	0	%100
38	38	X	-0.0003	-0.0003	0	%100
39	39	X	-0.0003	-0.0003	0	%100
40	40	X	-0.001	-0.001	0	%100
41	41	X	-0.001	-0.001	0	%100
42	42	X	-0.001	-0.001	0	%100
43	43	X	-0.0005	-0.0005	0	%100
44	44	X	-0.0005	-0.0005	0	%100
45	45	X	-0.0005	-0.0005	0	%100
46	46	X	-0.0005	-0.0005	0	%100
47	47	X	-0.0005	-0.0005	0	%100
48	48	X	-0.0005	-0.0005	0	%100
49	49	X	-0.0005	-0.0005	0	%100
50	50	X	-0.0006	-0.0006	0	%100
51	51	X	-0.0006	-0.0006	0	%100
52	52	X	-0.0006	-0.0006	0	%100
53	53	X	-0.0006	-0.0006	0	%100
54	54	X	-0.0006	-0.0006	0	%100
55	55	X	-0.0006	-0.0006	0	%100

Member Distributed Loads (BLC 10 : 90 Seismic) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
56	56	X	-0.0006	-0.0006	0	%100
57	57	X	-0.0001	-0.0001	0	%100
58	58	X	-0.0001	-0.0001	0	%100
59	59	X	-0.0001	-0.0001	0	%100
60	60	X	-0.0001	-0.0001	0	%100
61	61	X	-0.0001	-0.0001	0	%100
62	62	X	-0.0001	-0.0001	0	%100
63	63	X	-0.0001	-0.0001	0	%100
64	64	X	-0.0001	-0.0001	0	%100
65	65	X	-0.0001	-0.0001	0	%100
66	66	X	-0.0001	-0.0001	0	%100
67	67	X	-0.0001	-0.0001	0	%100
68	68	X	-0.0001	-0.0001	0	%100
69	69	X	-0.0001	-0.0001	0	%100
70	70	X	-0.0001	-0.0001	0	%100
71	71	X	-0.0001	-0.0001	0	%100
72	72	X	-0.0001	-0.0001	0	%100
73	73	X	-0.0001	-0.0001	0	%100
74	74	X	-0.0001	-0.0001	0	%100
75	75	X	-0.0001	-0.0001	0	%100
76	76	X	-0.0001	-0.0001	0	%100
77	77	X	-0.0001	-0.0001	0	%100
78	78	X	-0.0001	-0.0001	0	%100
79	79	X	-0.0001	-0.0001	0	%100
80	80	X	-0.0001	-0.0001	0	%100
81	81	X	-0.0001	-0.0001	0	%100
82	82	X	-0.0001	-0.0001	0	%100
83	83	X	-0.0001	-0.0001	0	%100
84	84	X	-0.0001	-0.0001	0	%100
85	85	X	-0.0001	-0.0001	0	%100
86	86	X	-0.0001	-0.0001	0	%100
87	188	X	-0.0004	-0.0004	0	%100
88	189	X	-0.0004	-0.0004	0	%100
89	190	X	-0.0004	-0.0004	0	%100
90	193	X	-0.0007	-0.0007	0	%100
91	194	X	-0.0007	-0.0007	0	%100
92	195	X	-0.0007	-0.0007	0	%100
93	196	X	-0.0002	-0.0002	0	%100
94	197	X	-0.0002	-0.0002	0	%100
95	198	X	-0.0002	-0.0002	0	%100
96	199	X	-0.0002	-0.0002	0	%100
97	200	X	-0.0002	-0.0002	0	%100
98	201	X	-0.0002	-0.0002	0	%100
99	202	X	-0.0002	-0.0002	0	%100
100	203	X	-0.0002	-0.0002	0	%100
101	204	X	-0.0002	-0.0002	0	%100
102	205	X	-0.0002	-0.0002	0	%100
103	206	X	-0.0002	-0.0002	0	%100
104	207	X	-0.0002	-0.0002	0	%100
105	208	X	-0.0002	-0.0002	0	%100
106	209	X	-0.0002	-0.0002	0	%100
107	210	X	-0.0002	-0.0002	0	%100
108	211	X	-0.0003	-0.0003	0	%100
109	212	X	-0.0003	-0.0003	0	%100
110	213	X	-0.0003	-0.0003	0	%100

Member Distributed Loads (BLC 10 : 90 Seismic) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
111	214	X	-0.0003	-0.0003	0	%100
112	215	X	-0.0003	-0.0003	0	%100
113	216	X	-0.0003	-0.0003	0	%100
114	225	X	-0.0004	-0.0004	0	%100
115	226	X	-0.0004	-0.0004	0	%100
116	227	X	-0.0004	-0.0004	0	%100
117	228	X	-0.0004	-0.0004	0	%100
118	237	X	-0.0004	-0.0004	0	%100
119	238	X	-0.0004	-0.0004	0	%100
120	239	X	-0.0004	-0.0004	0	%100
121	240	X	-0.0004	-0.0004	0	%100
122	249	X	-0.0004	-0.0004	0	%100
123	250	X	-0.0004	-0.0004	0	%100
124	251	X	-0.0004	-0.0004	0	%100
125	252	X	-0.0004	-0.0004	0	%100
126	253	X	-0.0005	-0.0005	0	%100
127	254	X	-0.0005	-0.0005	0	%100
128	255	X	-0.0005	-0.0005	0	%100
129	256	X	-0.0005	-0.0005	0	%100
130	257	X	-0.0005	-0.0005	0	%100
131	258	X	-0.0005	-0.0005	0	%100
132	259	X	-0.0005	-0.0005	0	%100
133	260	X	-0.0006	-0.0006	0	%100
134	261	X	-0.0006	-0.0006	0	%100
135	262	X	-0.0006	-0.0006	0	%100
136	263	X	-0.0006	-0.0006	0	%100
137	264	X	-0.0006	-0.0006	0	%100
138	265	X	-0.0006	-0.0006	0	%100
139	266	X	-0.0006	-0.0006	0	%100
140	267	X	-0.0001	-0.0001	0	%100
141	268	X	-0.0001	-0.0001	0	%100
142	269	X	-0.0001	-0.0001	0	%100
143	270	X	-0.0001	-0.0001	0	%100
144	271	X	-0.0001	-0.0001	0	%100
145	272	X	-0.0001	-0.0001	0	%100
146	273	X	-0.0001	-0.0001	0	%100
147	274	X	-0.0001	-0.0001	0	%100
148	275	X	-0.0001	-0.0001	0	%100
149	276	X	-0.0001	-0.0001	0	%100
150	277	X	-0.0001	-0.0001	0	%100
151	278	X	-0.0001	-0.0001	0	%100
152	279	X	-0.0001	-0.0001	0	%100
153	280	X	-0.0001	-0.0001	0	%100
154	281	X	-0.0001	-0.0001	0	%100
155	282	X	-0.0001	-0.0001	0	%100
156	283	X	-0.0001	-0.0001	0	%100
157	284	X	-0.0001	-0.0001	0	%100
158	285	X	-0.0001	-0.0001	0	%100
159	286	X	-0.0001	-0.0001	0	%100
160	287	X	-0.0001	-0.0001	0	%100
161	288	X	-0.0001	-0.0001	0	%100
162	289	X	-0.0001	-0.0001	0	%100
163	290	X	-0.0001	-0.0001	0	%100
164	291	X	-0.0001	-0.0001	0	%100
165	292	X	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 10 : 90 Seismic) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
166	293	X	-0.0001	-0.0001	0	%100
167	294	X	-0.0001	-0.0001	0	%100
168	295	X	-0.0001	-0.0001	0	%100
169	296	X	-0.0001	-0.0001	0	%100
170	325	X	-0.0005	-0.0005	0	%100
171	326	X	-0.0005	-0.0005	0	%100
172	327	X	-0.0005	-0.0005	0	%100
173	328	X	-0.0005	-0.0005	0	%100
174	329	X	-0.0005	-0.0005	0	%100
175	330	X	-0.0005	-0.0005	0	%100
176	331	X	-0.0005	-0.0005	0	%100
177	332	X	-0.0006	-0.0006	0	%100
178	333	X	-0.0006	-0.0006	0	%100
179	334	X	-0.0006	-0.0006	0	%100
180	335	X	-0.0006	-0.0006	0	%100
181	336	X	-0.0006	-0.0006	0	%100
182	337	X	-0.0006	-0.0006	0	%100
183	338	X	-0.0006	-0.0006	0	%100
184	339	X	-0.0001	-0.0001	0	%100
185	340	X	-0.0001	-0.0001	0	%100
186	341	X	-0.0001	-0.0001	0	%100
187	342	X	-0.0001	-0.0001	0	%100
188	343	X	-0.0001	-0.0001	0	%100
189	344	X	-0.0001	-0.0001	0	%100
190	345	X	-0.0001	-0.0001	0	%100
191	346	X	-0.0001	-0.0001	0	%100
192	347	X	-0.0001	-0.0001	0	%100
193	348	X	-0.0001	-0.0001	0	%100
194	349	X	-0.0001	-0.0001	0	%100
195	350	X	-0.0001	-0.0001	0	%100
196	351	X	-0.0001	-0.0001	0	%100
197	352	X	-0.0001	-0.0001	0	%100
198	353	X	-0.0001	-0.0001	0	%100
199	354	X	-0.0001	-0.0001	0	%100
200	355	X	-0.0001	-0.0001	0	%100
201	356	X	-0.0001	-0.0001	0	%100
202	357	X	-0.0001	-0.0001	0	%100
203	358	X	-0.0001	-0.0001	0	%100
204	359	X	-0.0001	-0.0001	0	%100
205	360	X	-0.0001	-0.0001	0	%100
206	361	X	-0.0001	-0.0001	0	%100
207	362	X	-0.0001	-0.0001	0	%100
208	363	X	-0.0001	-0.0001	0	%100
209	364	X	-0.0001	-0.0001	0	%100
210	365	X	-0.0001	-0.0001	0	%100
211	366	X	-0.0001	-0.0001	0	%100
212	367	X	-0.0001	-0.0001	0	%100
213	368	X	-0.0001	-0.0001	0	%100

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	17	Y	-0.002	-0.002	0.954	1.431
2	17	Y	-0.002	-0.002	1.431	1.909
3	17	Y	-0.002	-0.000535	1.909	2.386
4	28	Y	-0.004	-0.007	0	0.225

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
5	28	Y	-0.007	-0.006	0.225	0.45
6	28	Y	-0.006	-0.005	0.45	0.674
7	28	Y	-0.005	-0.006	0.674	0.899
8	28	Y	-0.006	-0.004	0.899	1.124
9	29	Y	-0.004	-0.007	0	0.225
10	29	Y	-0.007	-0.006	0.225	0.45
11	29	Y	-0.006	-0.005	0.45	0.674
12	29	Y	-0.005	-0.006	0.674	0.899
13	29	Y	-0.006	-0.004	0.899	1.124
14	41	Y	-6.081e-5	-0.0008585	2.122	2.547
15	41	Y	-0.0008585	-0.002	2.547	2.971
16	41	Y	-0.002	-0.004	2.971	3.395
17	41	Y	-0.004	-0.003	3.395	3.82
18	41	Y	-0.003	-6.081e-5	3.82	4.244
19	133	Y	-0.003	-0.0008585	0	0.167
20	142	Y	-0.009	-0.003	0	0.095
21	142	Y	-0.003	-0.0007513	0.095	0.19
22	142	Y	-0.0007513	-0.003	0.19	0.285
23	146	Y	-0.0009159	-0.0009159	0	0.167
24	165	Y	-0.003	-0.0009159	0	0.167
25	168	Y	-0.006	-0.004	0	0.071
26	168	Y	-0.004	-0.002	0.071	0.142
27	168	Y	-0.002	-0.002	0.142	0.213
28	168	Y	-0.002	-0.002	0.213	0.285
29	170	Y	-0.0009156	-0.0009156	0	0.167
30	212	Y	-0.0002356	-0.0002356	0	0.501
31	216	Y	-0.0002348	-0.0002348	5.636	6.142
32	17	Y	3.419e-5	-0.002	0.239	1.312
33	17	Y	-0.002	-0.005	1.312	2.386
34	20	Y	3.419e-5	-0.002	0.239	1.312
35	20	Y	-0.002	-0.005	1.312	2.386
36	206	Y	-0.001	-0.01	0	0.556
37	206	Y	-0.01	-0.01	0.556	1.111
38	206	Y	-0.01	-0.001	1.111	1.667
39	207	Y	-0.017	-0.009	0	0.556
40	207	Y	-0.009	-0.009	0.556	1.111
41	207	Y	-0.009	-0.017	1.111	1.667
42	208	Y	-0.013	-0.013	0	1.667
43	209	Y	-0.017	-0.009	0	0.556
44	209	Y	-0.009	-0.009	0.556	1.111
45	209	Y	-0.009	-0.017	1.111	1.667
46	210	Y	-0.001	-0.01	0	0.556
47	210	Y	-0.01	-0.01	0.556	1.111
48	210	Y	-0.01	-0.001	1.111	1.667
49	215	Y	-0.0008548	-0.0008541	0	3.071
50	215	Y	-0.0008541	-0.0008535	3.071	6.142
51	216	Y	-0.0008532	-0.000854	0	3.071
52	216	Y	-0.000854	-0.0008547	3.071	6.142
53	10	Y	-0.003	-0.002	0	0.583
54	10	Y	-0.002	-0.002	0.583	1.166
55	10	Y	-0.002	-0.003	1.166	1.749
56	10	Y	-0.003	-0.002	1.749	2.332
57	10	Y	-0.002	-2.275e-5	2.332	2.914
58	11	Y	-0.003	-0.002	0	0.583
59	11	Y	-0.002	-0.002	0.583	1.166

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
60	11	Y	-0.002	-0.003	1.166	1.749
61	11	Y	-0.003	-0.002	1.749	2.332
62	11	Y	-0.002	-2.332e-5	2.332	2.914
63	24	Y	-0.005	-0.006	0	0.332
64	24	Y	-0.006	-0.006	0.332	0.664
65	24	Y	-0.006	-0.006	0.664	0.995
66	24	Y	-0.006	-0.004	0.995	1.327
67	24	Y	-0.004	-0.003	1.327	1.659
68	25	Y	-0.004	-0.006	0	0.332
69	25	Y	-0.006	-0.006	0.332	0.664
70	25	Y	-0.006	-0.005	0.664	0.995
71	25	Y	-0.005	-0.004	0.995	1.327
72	25	Y	-0.004	-0.004	1.327	1.659
73	26	Y	-0.0004545	-0.005	0	0.117
74	26	Y	-0.005	-0.008	0.117	0.233
75	26	Y	-0.008	-0.006	0.233	0.35
76	26	Y	-0.006	-0.005	0.35	0.467
77	26	Y	-0.005	-0.008	0.467	0.583
78	27	Y	-0.0004475	-0.005	0	0.117
79	27	Y	-0.005	-0.008	0.117	0.233
80	27	Y	-0.008	-0.006	0.233	0.35
81	27	Y	-0.006	-0.005	0.35	0.467
82	27	Y	-0.005	-0.008	0.467	0.583
83	40	Y	-0.002	-0.003	0	0.594
84	40	Y	-0.003	-0.006	0.594	1.188
85	40	Y	-0.006	-0.005	1.188	1.783
86	40	Y	-0.005	-0.001	1.783	2.377
87	40	Y	-0.001	-6.965e-5	2.377	2.971
88	147	Y	-0.001	-0.001	0.009	0.161
89	148	Y	-0.002	-0.001	0	0.167
90	150	Y	-0.009	-0.005	0	0.142
91	150	Y	-0.005	-7.032e-5	0.142	0.285
92	151	Y	-0.001	-0.002	0	0.095
93	151	Y	-0.002	-0.002	0.095	0.189
94	151	Y	-0.002	-0.0001828	0.189	0.284
95	153	Y	-0.0009467	-0.0009467	0	0.167
96	155	Y	-0.001	-0.001	0.005	0.167
97	156	Y	-0.002	-0.001	0	0.167
98	158	Y	-0.009	-0.005	0	0.142
99	158	Y	-0.005	4.025e-7	0.142	0.285
100	159	Y	-0.001	-0.002	0	0.095
101	159	Y	-0.002	-0.002	0.095	0.189
102	159	Y	-0.002	-0.0001829	0.189	0.284
103	161	Y	-0.0009471	-0.0009471	0	0.167
104	4	Y	-0.003	-0.003	0	0.604
105	5	Y	-0.003	-0.003	0	0.604
106	12	Y	-0.001	-0.001	1.518	2.386
107	13	Y	-0.001	-0.001	1.518	2.386
108	22	Y	-0.001	-0.001	0.24	1.124
109	23	Y	-0.001	-0.001	0.24	1.124
110	24	Y	-0.003	-0.003	0	0.829
111	24	Y	-0.003	-0.003	0.829	1.659
112	25	Y	-0.003	-0.003	0	0.829
113	25	Y	-0.003	-0.003	0.829	1.659
114	40	Y	-0.01	-0.01	2.229	2.834

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
115	152	Y	-0.004	-0.004	0	0.285
116	160	Y	-0.004	-0.004	0	0.285
117	12	Y	-0.003	-0.002	0	0.477
118	12	Y	-0.002	-0.002	0.477	0.954
119	12	Y	-0.002	-0.002	0.954	1.431
120	12	Y	-0.002	-0.002	1.431	1.909
121	12	Y	-0.002	-0.0005381	1.909	2.386
122	13	Y	-0.003	-0.002	0	0.477
123	13	Y	-0.002	-0.002	0.477	0.954
124	13	Y	-0.002	-0.002	0.954	1.431
125	13	Y	-0.002	-0.002	1.431	1.909
126	13	Y	-0.002	-0.0005378	1.909	2.386
127	22	Y	-0.004	-0.007	0	0.225
128	22	Y	-0.007	-0.006	0.225	0.45
129	22	Y	-0.006	-0.005	0.45	0.674
130	22	Y	-0.005	-0.006	0.674	0.899
131	22	Y	-0.006	-0.004	0.899	1.124
132	23	Y	-0.004	-0.007	0	0.225
133	23	Y	-0.007	-0.006	0.225	0.45
134	23	Y	-0.006	-0.005	0.45	0.674
135	23	Y	-0.005	-0.006	0.674	0.899
136	23	Y	-0.006	-0.004	0.899	1.124
137	40	Y	-6.111e-5	-0.0008514	2.122	2.547
138	40	Y	-0.0008514	-0.002	2.547	2.971
139	40	Y	-0.002	-0.004	2.971	3.395
140	40	Y	-0.004	-0.003	3.395	3.82
141	40	Y	-0.003	-6.111e-5	3.82	4.244
142	149	Y	-0.003	-0.0008514	0	0.167
143	152	Y	-0.006	-0.004	0	0.071
144	152	Y	-0.004	-0.002	0.071	0.142
145	152	Y	-0.002	-0.002	0.142	0.213
146	152	Y	-0.002	-0.002	0.213	0.285
147	154	Y	-0.0009189	-0.0009189	0	0.167
148	157	Y	-0.003	-0.0009189	0	0.167
149	160	Y	-0.009	-0.003	0	0.095
150	160	Y	-0.003	-0.0007505	0.095	0.19
151	160	Y	-0.0007505	-0.003	0.19	0.285
152	162	Y	-0.0009192	-0.0009192	0	0.167
153	212	Y	-0.0002347	-0.0002347	5.636	6.142
154	214	Y	-0.0002356	-0.0002356	0	0.501
155	13	Y	3.419e-5	-0.002	0.239	1.312
156	13	Y	-0.002	-0.005	1.312	2.386
157	16	Y	3.419e-5	-0.002	0.239	1.312
158	16	Y	-0.002	-0.005	1.312	2.386
159	196	Y	-0.001	-0.01	0	0.556
160	196	Y	-0.01	-0.01	0.556	1.111
161	196	Y	-0.01	-0.001	1.111	1.667
162	197	Y	-0.017	-0.009	0	0.556
163	197	Y	-0.009	-0.009	0.556	1.111
164	197	Y	-0.009	-0.017	1.111	1.667
165	198	Y	-0.013	-0.013	0	1.667
166	199	Y	-0.017	-0.009	0	0.556
167	199	Y	-0.009	-0.009	0.556	1.111
168	199	Y	-0.009	-0.017	1.111	1.667
169	200	Y	-0.001	-0.01	0	0.556

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
170	200	Y	-0.01	-0.01	0.556	1.111
171	200	Y	-0.01	-0.001	1.111	1.667
172	211	Y	-0.0008548	-0.0008541	0	3.071
173	211	Y	-0.0008541	-0.0008535	3.071	6.142
174	212	Y	-0.0008532	-0.000854	0	3.071
175	212	Y	-0.000854	-0.0008547	3.071	6.142
176	18	Y	-0.003	-0.002	0	0.583
177	18	Y	-0.002	-0.002	0.583	1.166
178	18	Y	-0.002	-0.003	1.166	1.749
179	18	Y	-0.003	-0.002	1.749	2.332
180	18	Y	-0.002	-2.275e-5	2.332	2.914
181	19	Y	-0.003	-0.002	0	0.583
182	19	Y	-0.002	-0.002	0.583	1.166
183	19	Y	-0.002	-0.003	1.166	1.749
184	19	Y	-0.003	-0.002	1.749	2.332
185	19	Y	-0.002	-2.332e-5	2.332	2.914
186	36	Y	-0.005	-0.006	0	0.332
187	36	Y	-0.006	-0.006	0.332	0.664
188	36	Y	-0.006	-0.006	0.664	0.995
189	36	Y	-0.006	-0.004	0.995	1.327
190	36	Y	-0.004	-0.003	1.327	1.659
191	37	Y	-0.004	-0.006	0	0.332
192	37	Y	-0.006	-0.007	0.332	0.664
193	37	Y	-0.007	-0.006	0.664	0.995
194	37	Y	-0.006	-0.004	0.995	1.327
195	37	Y	-0.004	-0.003	1.327	1.659
196	38	Y	-0.0004544	-0.005	0	0.117
197	38	Y	-0.005	-0.008	0.117	0.233
198	38	Y	-0.008	-0.006	0.233	0.35
199	38	Y	-0.006	-0.005	0.35	0.467
200	38	Y	-0.005	-0.008	0.467	0.583
201	39	Y	-0.0004436	-0.005	0	0.117
202	39	Y	-0.005	-0.008	0.117	0.233
203	39	Y	-0.008	-0.006	0.233	0.35
204	39	Y	-0.006	-0.005	0.35	0.467
205	39	Y	-0.005	-0.008	0.467	0.583
206	42	Y	-0.002	-0.003	0	0.594
207	42	Y	-0.003	-0.006	0.594	1.188
208	42	Y	-0.006	-0.005	1.188	1.783
209	42	Y	-0.005	-0.001	1.783	2.377
210	42	Y	-0.001	-6.965e-5	2.377	2.971
211	123	Y	-0.001	-0.001	0.009	0.161
212	124	Y	-0.002	-0.001	0	0.167
213	126	Y	-0.009	-0.005	0	0.142
214	126	Y	-0.005	-5.095e-5	0.142	0.285
215	127	Y	-0.001	-0.002	0	0.095
216	127	Y	-0.002	-0.002	0.095	0.189
217	127	Y	-0.002	-0.0001828	0.189	0.284
218	129	Y	-0.0009467	-0.0009467	0	0.167
219	134	Y	-0.001	-0.001	0.005	0.167
220	135	Y	-0.002	-0.001	0	0.167
221	137	Y	-0.009	-0.005	0	0.142
222	137	Y	-0.005	4.022e-7	0.142	0.285
223	139	Y	-0.001	-0.002	0	0.095
224	139	Y	-0.002	-0.002	0.095	0.189

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
225	139	Y	-0.002	-0.0001829	0.189	0.284
226	143	Y	-0.0009471	-0.0009471	0	0.167
227	8	Y	-0.003	-0.003	0	0.604
228	9	Y	-0.003	-0.003	0	0.604
229	20	Y	-0.001	-0.001	1.518	2.386
230	21	Y	-0.001	-0.001	1.518	2.386
231	34	Y	-0.001	-0.001	0.24	1.124
232	35	Y	-0.001	-0.001	0.24	1.124
233	36	Y	-0.003	-0.003	0	0.829
234	36	Y	-0.003	-0.003	0.829	1.659
235	37	Y	-0.003	-0.003	0	0.829
236	37	Y	-0.003	-0.003	0.829	1.659
237	42	Y	-0.01	-0.01	2.229	2.834
238	128	Y	-0.004	-0.004	0	0.285
239	141	Y	-0.004	-0.004	0	0.285
240	20	Y	-0.003	-0.002	0	0.477
241	20	Y	-0.002	-0.002	0.477	0.954
242	20	Y	-0.002	-0.002	0.954	1.431
243	20	Y	-0.002	-0.002	1.431	1.909
244	20	Y	-0.002	-0.0005369	1.909	2.386
245	21	Y	-0.003	-0.002	0	0.477
246	21	Y	-0.002	-0.002	0.477	0.954
247	21	Y	-0.002	-0.002	0.954	1.431
248	21	Y	-0.002	-0.002	1.431	1.909
249	21	Y	-0.002	-0.0005371	1.909	2.386
250	34	Y	-0.004	-0.007	0	0.225
251	34	Y	-0.007	-0.006	0.225	0.45
252	34	Y	-0.006	-0.005	0.45	0.674
253	34	Y	-0.005	-0.006	0.674	0.899
254	34	Y	-0.006	-0.004	0.899	1.124
255	35	Y	-0.004	-0.007	0	0.225
256	35	Y	-0.007	-0.006	0.225	0.45
257	35	Y	-0.006	-0.005	0.45	0.674
258	35	Y	-0.005	-0.006	0.674	0.899
259	35	Y	-0.006	-0.004	0.899	1.124
260	42	Y	-6.111e-5	-0.0008514	2.122	2.547
261	42	Y	-0.0008514	-0.002	2.547	2.971
262	42	Y	-0.002	-0.004	2.971	3.395
263	42	Y	-0.004	-0.003	3.395	3.82
264	42	Y	-0.003	-6.111e-5	3.82	4.244
265	125	Y	-0.003	-0.0008514	0	0.167
266	128	Y	-0.006	-0.004	0	0.071
267	128	Y	-0.004	-0.002	0.071	0.142
268	128	Y	-0.002	-0.002	0.142	0.213
269	128	Y	-0.002	-0.002	0.213	0.285
270	131	Y	-0.0009189	-0.0009189	0	0.167
271	136	Y	-0.003	-0.0009189	0	0.167
272	141	Y	-0.009	-0.003	0	0.095
273	141	Y	-0.003	-0.0007445	0.095	0.19
274	141	Y	-0.0007445	-0.003	0.19	0.285
275	144	Y	-0.0009192	-0.0009192	0	0.167
276	214	Y	-0.0002347	-0.0002347	5.636	6.142
277	216	Y	-0.0002356	-0.0002356	0	0.501
278	12	Y	3.419e-5	-0.002	0.239	1.312
279	12	Y	-0.002	-0.005	1.312	2.386

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
280	21	Y	3.419e-5	-0.002	0.239	1.312
281	21	Y	-0.002	-0.005	1.312	2.386
282	201	Y	-0.001	-0.01	0	0.556
283	201	Y	-0.01	-0.01	0.556	1.111
284	201	Y	-0.01	-0.001	1.111	1.667
285	202	Y	-0.017	-0.009	0	0.556
286	202	Y	-0.009	-0.009	0.556	1.111
287	202	Y	-0.009	-0.017	1.111	1.667
288	203	Y	-0.013	-0.013	2.281e-7	1.667
289	204	Y	-0.017	-0.009	0	0.556
290	204	Y	-0.009	-0.009	0.556	1.111
291	204	Y	-0.009	-0.017	1.111	1.667
292	205	Y	-0.001	-0.01	0	0.556
293	205	Y	-0.01	-0.01	0.556	1.111
294	205	Y	-0.01	-0.001	1.111	1.667
295	213	Y	-0.0008548	-0.0008541	0	3.071
296	213	Y	-0.0008541	-0.0008535	3.071	6.142
297	214	Y	-0.0008532	-0.000854	0	3.071
298	214	Y	-0.000854	-0.0008547	3.071	6.142
299	14	Y	-0.003	-0.002	0	0.583
300	14	Y	-0.002	-0.002	0.583	1.166
301	14	Y	-0.002	-0.003	1.166	1.749
302	14	Y	-0.003	-0.002	1.749	2.332
303	14	Y	-0.002	-2.237e-5	2.332	2.914
304	15	Y	-0.003	-0.002	0	0.583
305	15	Y	-0.002	-0.002	0.583	1.166
306	15	Y	-0.002	-0.003	1.166	1.749
307	15	Y	-0.003	-0.002	1.749	2.332
308	15	Y	-0.002	-2.294e-5	2.332	2.914
309	30	Y	-0.005	-0.006	0	0.332
310	30	Y	-0.006	-0.006	0.332	0.664
311	30	Y	-0.006	-0.006	0.664	0.995
312	30	Y	-0.006	-0.004	0.995	1.327
313	30	Y	-0.004	-0.003	1.327	1.659
314	31	Y	-0.004	-0.006	0	0.332
315	31	Y	-0.006	-0.007	0.332	0.664
316	31	Y	-0.007	-0.006	0.664	0.995
317	31	Y	-0.006	-0.004	0.995	1.327
318	31	Y	-0.004	-0.003	1.327	1.659
319	32	Y	-0.000456	-0.005	0	0.117
320	32	Y	-0.005	-0.008	0.117	0.233
321	32	Y	-0.008	-0.006	0.233	0.35
322	32	Y	-0.006	-0.005	0.35	0.467
323	32	Y	-0.005	-0.008	0.467	0.583
324	33	Y	-0.000445	-0.005	0	0.117
325	33	Y	-0.005	-0.008	0.117	0.233
326	33	Y	-0.008	-0.006	0.233	0.35
327	33	Y	-0.006	-0.005	0.35	0.467
328	33	Y	-0.005	-0.008	0.467	0.583
329	41	Y	-0.002	-0.003	0	0.594
330	41	Y	-0.003	-0.006	0.594	1.188
331	41	Y	-0.006	-0.005	1.188	1.783
332	41	Y	-0.005	-0.001	1.783	2.377
333	41	Y	-0.001	-6.965e-5	2.377	2.971
334	130	Y	-0.001	-0.001	0.005	0.167

Member Distributed Loads (BLC 30 : BLC 1 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
335	132	Y	-0.002	-0.001	0	0.167
336	138	Y	-0.009	-0.005	0	0.142
337	138	Y	-0.005	-2.257e-5	0.142	0.285
338	140	Y	-0.001	-0.002	0	0.095
339	140	Y	-0.002	-0.002	0.095	0.189
340	140	Y	-0.002	-0.0001827	0.189	0.284
341	145	Y	-0.0009471	-0.0009471	0	0.167
342	163	Y	-0.001	-0.001	0.009	0.161
343	164	Y	-0.002	-0.001	0	0.167
344	166	Y	-0.009	-0.004	0	0.142
345	166	Y	-0.004	-5.044e-5	0.142	0.285
346	167	Y	-0.001	-0.002	0	0.095
347	167	Y	-0.002	-0.002	0.095	0.189
348	167	Y	-0.002	-0.0001827	0.189	0.284
349	169	Y	-0.0009467	-0.0009467	0	0.167
350	6	Y	-0.003	-0.003	0	0.604
351	7	Y	-0.003	-0.003	0	0.604
352	16	Y	-0.001	-0.001	1.518	2.386
353	17	Y	-0.001	-0.001	1.518	2.386
354	28	Y	-0.001	-0.001	0.24	1.124
355	29	Y	-0.001	-0.001	0.24	1.124
356	30	Y	-0.003	-0.003	0	0.829
357	30	Y	-0.003	-0.003	0.829	1.659
358	31	Y	-0.003	-0.003	0	0.829
359	31	Y	-0.003	-0.003	0.829	1.659
360	41	Y	-0.01	-0.01	2.229	2.834
361	142	Y	-0.004	-0.004	0	0.285
362	168	Y	-0.004	-0.004	0	0.285
363	16	Y	-0.003	-0.002	0	0.477
364	16	Y	-0.002	-0.002	0.477	0.954
365	16	Y	-0.002	-0.002	0.954	1.431
366	16	Y	-0.002	-0.002	1.431	1.909
367	16	Y	-0.002	-0.0005373	1.909	2.386
368	17	Y	-0.003	-0.002	0	0.477
369	17	Y	-0.002	-0.002	0.477	0.954

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	10	Y	-0.002	-0.001	0	0.583
2	10	Y	-0.001	-0.001	0.583	1.166
3	10	Y	-0.001	-0.002	1.166	1.749
4	10	Y	-0.002	-0.001	1.749	2.332
5	10	Y	-0.001	-1.592e-5	2.332	2.914
6	11	Y	-0.002	-0.001	0	0.583
7	11	Y	-0.001	-0.001	0.583	1.166
8	11	Y	-0.001	-0.002	1.166	1.749
9	11	Y	-0.002	-0.001	1.749	2.332
10	11	Y	-0.001	-1.633e-5	2.332	2.914
11	24	Y	-0.003	-0.004	0	0.332
12	24	Y	-0.004	-0.005	0.332	0.664
13	24	Y	-0.005	-0.004	0.664	0.995
14	24	Y	-0.004	-0.003	0.995	1.327
15	24	Y	-0.003	-0.002	1.327	1.659
16	25	Y	-0.003	-0.004	0	0.332
17	25	Y	-0.004	-0.005	0.332	0.664

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
18	25	Y	-0.005	-0.004	0.664	0.995
19	25	Y	-0.004	-0.003	0.995	1.327
20	25	Y	-0.003	-0.003	1.327	1.659
21	26	Y	-0.0003181	-0.004	0	0.117
22	26	Y	-0.004	-0.006	0.117	0.233
23	26	Y	-0.006	-0.004	0.233	0.35
24	26	Y	-0.004	-0.004	0.35	0.467
25	26	Y	-0.004	-0.006	0.467	0.583
26	27	Y	-0.0003132	-0.004	0	0.117
27	27	Y	-0.004	-0.006	0.117	0.233
28	27	Y	-0.006	-0.004	0.233	0.35
29	27	Y	-0.004	-0.004	0.35	0.467
30	27	Y	-0.004	-0.006	0.467	0.583
31	40	Y	-0.001	-0.002	0	0.594
32	40	Y	-0.002	-0.004	0.594	1.188
33	40	Y	-0.004	-0.003	1.188	1.783
34	40	Y	-0.003	-0.0007786	1.783	2.377
35	40	Y	-0.0007786	-4.876e-5	2.377	2.971
36	147	Y	-0.0009303	-0.0009303	0.009	0.161
37	148	Y	-0.002	-0.0009303	0	0.167
38	150	Y	-0.006	-0.003	0	0.142
39	150	Y	-0.003	-4.922e-5	0.142	0.285
40	151	Y	-0.001	-0.002	0	0.095
41	151	Y	-0.002	-0.001	0.095	0.189
42	151	Y	-0.001	-0.0001279	0.189	0.284
43	153	Y	-0.0006627	-0.0006627	0	0.167
44	155	Y	-0.0008753	-0.0008753	0.005	0.167
45	156	Y	-0.002	-0.0008753	0	0.167
46	158	Y	-0.006	-0.003	0	0.142
47	158	Y	-0.003	2.818e-7	0.142	0.285
48	159	Y	-0.001	-0.002	0	0.095
49	159	Y	-0.002	-0.001	0.095	0.189
50	159	Y	-0.001	-0.000128	0.189	0.284
51	161	Y	-0.000663	-0.000663	0	0.167
52	4	Y	-0.002	-0.002	0	0.604
53	5	Y	-0.002	-0.002	0	0.604
54	12	Y	-0.0009027	-0.0009027	1.518	2.386
55	13	Y	-0.0009027	-0.0009027	1.518	2.386
56	22	Y	-0.001	-0.001	0.24	1.124
57	23	Y	-0.001	-0.001	0.24	1.124
58	24	Y	-0.002	-0.002	0	0.829
59	24	Y	-0.002	-0.002	0.829	1.659
60	25	Y	-0.002	-0.002	0	0.829
61	25	Y	-0.002	-0.002	0.829	1.659
62	40	Y	-0.007	-0.007	2.229	2.834
63	152	Y	-0.003	-0.003	0	0.285
64	160	Y	-0.003	-0.003	0	0.285
65	12	Y	-0.002	-0.002	0	0.477
66	12	Y	-0.002	-0.001	0.477	0.954
67	12	Y	-0.001	-0.001	0.954	1.431
68	12	Y	-0.001	-0.001	1.431	1.909
69	12	Y	-0.001	-0.0003766	1.909	2.386
70	13	Y	-0.002	-0.002	0	0.477
71	13	Y	-0.002	-0.001	0.477	0.954
72	13	Y	-0.001	-0.001	0.954	1.431

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
73	13	Y	-0.001	-0.001	1.431	1.909
74	13	Y	-0.001	-0.0003764	1.909	2.386
75	22	Y	-0.003	-0.005	0	0.225
76	22	Y	-0.005	-0.004	0.225	0.45
77	22	Y	-0.004	-0.004	0.45	0.674
78	22	Y	-0.004	-0.004	0.674	0.899
79	22	Y	-0.004	-0.003	0.899	1.124
80	23	Y	-0.003	-0.005	0	0.225
81	23	Y	-0.005	-0.004	0.225	0.45
82	23	Y	-0.004	-0.004	0.45	0.674
83	23	Y	-0.004	-0.004	0.674	0.899
84	23	Y	-0.004	-0.003	0.899	1.124
85	40	Y	-4.278e-5	-0.000596	2.122	2.547
86	40	Y	-0.000596	-0.001	2.547	2.971
87	40	Y	-0.001	-0.002	2.971	3.395
88	40	Y	-0.002	-0.002	3.395	3.82
89	40	Y	-0.002	-4.278e-5	3.82	4.244
90	149	Y	-0.002	-0.000596	0	0.167
91	152	Y	-0.004	-0.003	0	0.071
92	152	Y	-0.003	-0.002	0.071	0.142
93	152	Y	-0.002	-0.001	0.142	0.213
94	152	Y	-0.001	-0.001	0.213	0.285
95	154	Y	-0.0006432	-0.0006432	0	0.167
96	157	Y	-0.002	-0.0006432	0	0.167
97	160	Y	-0.006	-0.002	0	0.095
98	160	Y	-0.002	-0.0005254	0.095	0.19
99	160	Y	-0.0005254	-0.002	0.19	0.285
100	162	Y	-0.0006435	-0.0006435	0	0.167
101	212	Y	-0.0001643	-0.0001643	5.636	6.142
102	214	Y	-0.0001649	-0.0001649	0	0.501
103	13	Y	2.393e-5	-0.002	0.239	1.312
104	13	Y	-0.002	-0.003	1.312	2.386
105	16	Y	2.393e-5	-0.002	0.239	1.312
106	16	Y	-0.002	-0.003	1.312	2.386
107	196	Y	-0.0008971	-0.007	0	0.556
108	196	Y	-0.007	-0.007	0.556	1.111
109	196	Y	-0.007	-0.0008971	1.111	1.667
110	197	Y	-0.012	-0.006	0	0.556
111	197	Y	-0.006	-0.006	0.556	1.111
112	197	Y	-0.006	-0.012	1.111	1.667
113	198	Y	-0.009	-0.009	0	1.667
114	199	Y	-0.012	-0.006	0	0.556
115	199	Y	-0.006	-0.006	0.556	1.111
116	199	Y	-0.006	-0.012	1.111	1.667
117	200	Y	-0.000897	-0.007	0	0.556
118	200	Y	-0.007	-0.007	0.556	1.111
119	200	Y	-0.007	-0.000897	1.111	1.667
120	211	Y	-0.0005983	-0.0005979	0	3.071
121	211	Y	-0.0005979	-0.0005974	3.071	6.142
122	212	Y	-0.0005973	-0.0005978	0	3.071
123	212	Y	-0.0005978	-0.0005983	3.071	6.142
124	18	Y	-0.002	-0.001	0	0.583
125	18	Y	-0.001	-0.001	0.583	1.166
126	18	Y	-0.001	-0.002	1.166	1.749
127	18	Y	-0.002	-0.001	1.749	2.332

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
128	18	Y	-0.001	-1.593e-5	2.332	2.914
129	19	Y	-0.002	-0.001	0	0.583
130	19	Y	-0.001	-0.001	0.583	1.166
131	19	Y	-0.001	-0.002	1.166	1.749
132	19	Y	-0.002	-0.001	1.749	2.332
133	19	Y	-0.001	-1.632e-5	2.332	2.914
134	36	Y	-0.003	-0.004	0	0.332
135	36	Y	-0.004	-0.005	0.332	0.664
136	36	Y	-0.005	-0.004	0.664	0.995
137	36	Y	-0.004	-0.003	0.995	1.327
138	36	Y	-0.003	-0.002	1.327	1.659
139	37	Y	-0.003	-0.004	0	0.332
140	37	Y	-0.004	-0.005	0.332	0.664
141	37	Y	-0.005	-0.004	0.664	0.995
142	37	Y	-0.004	-0.003	0.995	1.327
143	37	Y	-0.003	-0.002	1.327	1.659
144	38	Y	-0.0003181	-0.004	0	0.117
145	38	Y	-0.004	-0.006	0.117	0.233
146	38	Y	-0.006	-0.004	0.233	0.35
147	38	Y	-0.004	-0.004	0.35	0.467
148	38	Y	-0.004	-0.006	0.467	0.583
149	39	Y	-0.0003105	-0.004	0	0.117
150	39	Y	-0.004	-0.006	0.117	0.233
151	39	Y	-0.006	-0.004	0.233	0.35
152	39	Y	-0.004	-0.004	0.35	0.467
153	39	Y	-0.004	-0.006	0.467	0.583
154	42	Y	-0.001	-0.002	0	0.594
155	42	Y	-0.002	-0.004	0.594	1.188
156	42	Y	-0.004	-0.003	1.188	1.783
157	42	Y	-0.003	-0.0007786	1.783	2.377
158	42	Y	-0.0007786	-4.876e-5	2.377	2.971
159	123	Y	-0.0009303	-0.0009303	0.009	0.161
160	124	Y	-0.002	-0.0009303	0	0.167
161	126	Y	-0.006	-0.003	0	0.142
162	126	Y	-0.003	-3.566e-5	0.142	0.285
163	127	Y	-0.001	-0.002	0	0.095
164	127	Y	-0.002	-0.001	0.095	0.189
165	127	Y	-0.001	-0.0001279	0.189	0.284
166	129	Y	-0.0006627	-0.0006627	0	0.167
167	134	Y	-0.0008753	-0.0008753	0.005	0.167
168	135	Y	-0.002	-0.0008753	0	0.167
169	137	Y	-0.006	-0.003	0	0.142
170	137	Y	-0.003	2.816e-7	0.142	0.285
171	139	Y	-0.001	-0.002	0	0.095
172	139	Y	-0.002	-0.001	0.095	0.189
173	139	Y	-0.001	-0.000128	0.189	0.284
174	143	Y	-0.000663	-0.000663	0	0.167
175	8	Y	-0.002	-0.002	0	0.604
176	9	Y	-0.002	-0.002	0	0.604
177	20	Y	-0.0009027	-0.0009027	1.518	2.386
178	21	Y	-0.0009027	-0.0009027	1.518	2.386
179	34	Y	-0.001	-0.001	0.24	1.124
180	35	Y	-0.001	-0.001	0.24	1.124
181	36	Y	-0.002	-0.002	0	0.829
182	36	Y	-0.002	-0.002	0.829	1.659

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
183	37	Y	-0.002	-0.002	0	0.829
184	37	Y	-0.002	-0.002	0.829	1.659
185	42	Y	-0.007	-0.007	2.229	2.834
186	128	Y	-0.003	-0.003	0	0.285
187	141	Y	-0.003	-0.003	0	0.285
188	20	Y	-0.002	-0.002	0	0.477
189	20	Y	-0.002	-0.001	0.477	0.954
190	20	Y	-0.001	-0.001	0.954	1.431
191	20	Y	-0.001	-0.001	1.431	1.909
192	20	Y	-0.001	-0.0003758	1.909	2.386
193	21	Y	-0.002	-0.002	0	0.477
194	21	Y	-0.002	-0.001	0.477	0.954
195	21	Y	-0.001	-0.001	0.954	1.431
196	21	Y	-0.001	-0.001	1.431	1.909
197	21	Y	-0.001	-0.000376	1.909	2.386
198	34	Y	-0.003	-0.005	0	0.225
199	34	Y	-0.005	-0.004	0.225	0.45
200	34	Y	-0.004	-0.004	0.45	0.674
201	34	Y	-0.004	-0.004	0.674	0.899
202	34	Y	-0.004	-0.003	0.899	1.124
203	35	Y	-0.003	-0.005	0	0.225
204	35	Y	-0.005	-0.004	0.225	0.45
205	35	Y	-0.004	-0.004	0.45	0.674
206	35	Y	-0.004	-0.004	0.674	0.899
207	35	Y	-0.004	-0.003	0.899	1.124
208	42	Y	-4.278e-5	-0.000596	2.122	2.547
209	42	Y	-0.000596	-0.001	2.547	2.971
210	42	Y	-0.001	-0.002	2.971	3.395
211	42	Y	-0.002	-0.002	3.395	3.82
212	42	Y	-0.002	-4.278e-5	3.82	4.244
213	125	Y	-0.002	-0.000596	0	0.167
214	128	Y	-0.005	-0.003	0	0.071
215	128	Y	-0.003	-0.002	0.071	0.142
216	128	Y	-0.002	-0.001	0.142	0.213
217	128	Y	-0.001	-0.001	0.213	0.285
218	131	Y	-0.0006432	-0.0006432	0	0.167
219	136	Y	-0.002	-0.0006432	0	0.167
220	141	Y	-0.006	-0.002	0	0.095
221	141	Y	-0.002	-0.0005211	0.095	0.19
222	141	Y	-0.0005211	-0.002	0.19	0.285
223	144	Y	-0.0006434	-0.0006434	0	0.167
224	214	Y	-0.0001643	-0.0001643	5.636	6.142
225	216	Y	-0.0001649	-0.0001649	0	0.501
226	12	Y	2.393e-5	-0.002	0.239	1.312
227	12	Y	-0.002	-0.003	1.312	2.386
228	21	Y	2.393e-5	-0.002	0.239	1.312
229	21	Y	-0.002	-0.003	1.312	2.386
230	201	Y	-0.000897	-0.007	0	0.556
231	201	Y	-0.007	-0.007	0.556	1.111
232	201	Y	-0.007	-0.000897	1.111	1.667
233	202	Y	-0.012	-0.006	0	0.556
234	202	Y	-0.006	-0.006	0.556	1.111
235	202	Y	-0.006	-0.012	1.111	1.667
236	203	Y	-0.009	-0.009	2.281e-7	1.667
237	204	Y	-0.012	-0.006	0	0.556

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

Member Label Direction Start Magnitude [k/ft, F, ksf, k-ft/ft] End Magnitude [k/ft, F, ksf, k-ft/ft] Start Location [(ft, %)] End Location [(ft, %)]						
238	204	Y	-0.006	-0.006	0.556	1.111
239	204	Y	-0.006	-0.012	1.111	1.667
240	205	Y	-0.000897	-0.007	0	0.556
241	205	Y	-0.007	-0.007	0.556	1.111
242	205	Y	-0.007	-0.000897	1.111	1.667
243	213	Y	-0.0005983	-0.0005979	0	3.071
244	213	Y	-0.0005979	-0.0005975	3.071	6.142
245	214	Y	-0.0005973	-0.0005978	0	3.071
246	214	Y	-0.0005978	-0.0005983	3.071	6.142
247	14	Y	-0.002	-0.001	0	0.583
248	14	Y	-0.001	-0.001	0.583	1.166
249	14	Y	-0.001	-0.002	1.166	1.749
250	14	Y	-0.002	-0.001	1.749	2.332
251	14	Y	-0.001	-1.566e-5	2.332	2.914
252	15	Y	-0.002	-0.001	0	0.583
253	15	Y	-0.001	-0.001	0.583	1.166
254	15	Y	-0.001	-0.002	1.166	1.749
255	15	Y	-0.002	-0.001	1.749	2.332
256	15	Y	-0.001	-1.606e-5	2.332	2.914
257	30	Y	-0.003	-0.004	0	0.332
258	30	Y	-0.004	-0.005	0.332	0.664
259	30	Y	-0.005	-0.004	0.664	0.995
260	30	Y	-0.004	-0.003	0.995	1.327
261	30	Y	-0.003	-0.002	1.327	1.659
262	31	Y	-0.003	-0.004	0	0.332
263	31	Y	-0.004	-0.005	0.332	0.664
264	31	Y	-0.005	-0.004	0.664	0.995
265	31	Y	-0.004	-0.003	0.995	1.327
266	31	Y	-0.003	-0.002	1.327	1.659
267	32	Y	-0.0003192	-0.004	0	0.117
268	32	Y	-0.004	-0.006	0.117	0.233
269	32	Y	-0.006	-0.004	0.233	0.35
270	32	Y	-0.004	-0.004	0.35	0.467
271	32	Y	-0.004	-0.006	0.467	0.583
272	33	Y	-0.0003115	-0.004	0	0.117
273	33	Y	-0.004	-0.006	0.117	0.233
274	33	Y	-0.006	-0.004	0.233	0.35
275	33	Y	-0.004	-0.004	0.35	0.467
276	33	Y	-0.004	-0.006	0.467	0.583
277	41	Y	-0.001	-0.002	0	0.594
278	41	Y	-0.002	-0.004	0.594	1.188
279	41	Y	-0.004	-0.003	1.188	1.783
280	41	Y	-0.003	-0.0007785	1.783	2.377
281	41	Y	-0.0007785	-4.875e-5	2.377	2.971
282	130	Y	-0.0008753	-0.0008753	0.005	0.167
283	132	Y	-0.002	-0.0008753	0	0.167
284	138	Y	-0.006	-0.003	0	0.142
285	138	Y	-0.003	-1.58e-5	0.142	0.285
286	140	Y	-0.001	-0.002	0	0.095
287	140	Y	-0.002	-0.001	0.095	0.189
288	140	Y	-0.001	-0.0001279	0.189	0.284
289	145	Y	-0.000663	-0.000663	0	0.167
290	163	Y	-0.0009303	-0.0009303	0.009	0.161
291	164	Y	-0.002	-0.0009303	0	0.167
292	166	Y	-0.006	-0.003	0	0.142

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
293	166	Y	-0.003	-3.53e-5	0.142	0.285
294	167	Y	-0.001	-0.002	0	0.095
295	167	Y	-0.002	-0.001	0.095	0.189
296	167	Y	-0.001	-0.0001279	0.189	0.284
297	169	Y	-0.0006627	-0.0006627	0	0.167
298	6	Y	-0.002	-0.002	0	0.604
299	7	Y	-0.002	-0.002	0	0.604
300	16	Y	-0.0009027	-0.0009027	1.518	2.386
301	17	Y	-0.0009027	-0.0009027	1.518	2.386
302	28	Y	-0.001	-0.001	0.24	1.124
303	29	Y	-0.001	-0.001	0.24	1.124
304	30	Y	-0.002	-0.002	0	0.829
305	30	Y	-0.002	-0.002	0.829	1.659
306	31	Y	-0.002	-0.002	0	0.829
307	31	Y	-0.002	-0.002	0.829	1.659
308	41	Y	-0.007	-0.007	2.229	2.834
309	142	Y	-0.003	-0.003	0	0.285
310	168	Y	-0.003	-0.003	0	0.285
311	16	Y	-0.002	-0.002	0	0.477
312	16	Y	-0.002	-0.001	0.477	0.954
313	16	Y	-0.001	-0.001	0.954	1.431
314	16	Y	-0.001	-0.001	1.431	1.909
315	16	Y	-0.001	-0.0003761	1.909	2.386
316	17	Y	-0.002	-0.002	0	0.477
317	17	Y	-0.002	-0.001	0.477	0.954
318	17	Y	-0.001	-0.001	0.954	1.431
319	17	Y	-0.001	-0.001	1.431	1.909
320	17	Y	-0.001	-0.0003745	1.909	2.386
321	28	Y	-0.003	-0.005	0	0.225
322	28	Y	-0.005	-0.004	0.225	0.45
323	28	Y	-0.004	-0.004	0.45	0.674
324	28	Y	-0.004	-0.004	0.674	0.899
325	28	Y	-0.004	-0.003	0.899	1.124
326	29	Y	-0.003	-0.005	0	0.225
327	29	Y	-0.005	-0.004	0.225	0.45
328	29	Y	-0.004	-0.004	0.45	0.674
329	29	Y	-0.004	-0.004	0.674	0.899
330	29	Y	-0.004	-0.003	0.899	1.124
331	41	Y	-4.257e-5	-0.0006009	2.122	2.547
332	41	Y	-0.0006009	-0.001	2.547	2.971
333	41	Y	-0.001	-0.002	2.971	3.395
334	41	Y	-0.002	-0.002	3.395	3.82
335	41	Y	-0.002	-4.257e-5	3.82	4.244
336	133	Y	-0.002	-0.0006009	0	0.167
337	142	Y	-0.006	-0.002	0	0.095
338	142	Y	-0.002	-0.0005259	0.095	0.19
339	142	Y	-0.0005259	-0.002	0.19	0.285
340	146	Y	-0.0006412	-0.0006412	0	0.167
341	165	Y	-0.002	-0.0006412	0	0.167
342	168	Y	-0.004	-0.003	0	0.071
343	168	Y	-0.003	-0.002	0.071	0.142
344	168	Y	-0.002	-0.001	0.142	0.213
345	168	Y	-0.001	-0.001	0.213	0.285
346	170	Y	-0.0006409	-0.0006409	0	0.167
347	212	Y	-0.0001649	-0.0001649	0	0.501

Member Distributed Loads (BLC 31 : BLC 8 Transient Area Loads) (Continued)

Member	Label	Direction	Start Magnitude [k/ft, F, ksf, k-ft/ft]	End Magnitude [k/ft, F, ksf, k-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
348	216	Y	-0.0001643	-0.0001643	5.636	6.142
349	17	Y	2.393e-5	-0.002	0.239	1.312
350	17	Y	-0.002	-0.003	1.312	2.386
351	20	Y	2.393e-5	-0.002	0.239	1.312
352	20	Y	-0.002	-0.003	1.312	2.386
353	206	Y	-0.000897	-0.007	0	0.556
354	206	Y	-0.007	-0.007	0.556	1.111
355	206	Y	-0.007	-0.000897	1.111	1.667
356	207	Y	-0.012	-0.006	0	0.556
357	207	Y	-0.006	-0.006	0.556	1.111
358	207	Y	-0.006	-0.012	1.111	1.667
359	208	Y	-0.009	-0.009	0	1.667
360	209	Y	-0.012	-0.006	0	0.556
361	209	Y	-0.006	-0.006	0.556	1.111
362	209	Y	-0.006	-0.012	1.111	1.667
363	210	Y	-0.000897	-0.007	0	0.556
364	210	Y	-0.007	-0.007	0.556	1.111
365	210	Y	-0.007	-0.000897	1.111	1.667
366	215	Y	-0.0005983	-0.0005979	0	3.071
367	215	Y	-0.0005979	-0.0005974	3.071	6.142
368	216	Y	-0.0005973	-0.0005978	0	3.071
369	216	Y	-0.0005978	-0.0005983	3.071	6.142

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	102	90	91	103	Y	Two Way	-0.01
2	91	107	106	103	Y	Two Way	-0.01
3	106	104	92	107	Y	Two Way	-0.01
4	198	107	32	193	Y	Two Way	-0.01
5	63	51	52	64	Y	Two Way	-0.01
6	52	67	66	64	Y	Two Way	-0.01
7	66	65	53	67	Y	Two Way	-0.01
8	196	67	106	197	Y	Two Way	-0.01
9	29	17	18	30	Y	Two Way	-0.01
10	18	33	32	30	Y	Two Way	-0.01
11	32	31	19	33	Y	Two Way	-0.01
12	194	33	66	195	Y	Two Way	-0.01

Member Area Loads (BLC 8 : Ice)

	Node A	Node B	Node C	Node D	Direction	Load Direction	Magnitude [ksf]
1	102	90	91	103	Y	Two Way	-0.007
2	91	107	106	103	Y	Two Way	-0.007
3	106	104	92	107	Y	Two Way	-0.007
4	198	107	32	193	Y	Two Way	-0.007
5	63	51	52	64	Y	Two Way	-0.007
6	52	67	66	64	Y	Two Way	-0.007
7	66	65	53	67	Y	Two Way	-0.007
8	196	67	106	197	Y	Two Way	-0.007
9	29	17	18	30	Y	Two Way	-0.007
10	18	33	32	30	Y	Two Way	-0.007
11	32	31	19	33	Y	Two Way	-0.007
12	194	33	66	195	Y	Two Way	-0.007

Node Loads and Enforced Displacements (BLC 11 : Live Load a)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s ² /ft, k*s ² *ft)]
1	259	L	Y	-0.5
2	283	L	Y	-0.5
3	307	L	Y	-0.5

Node Loads and Enforced Displacements (BLC 12 : Live Load b)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s ² /ft, k*s ² *ft)]
1	256	L	Y	-0.5
2	280	L	Y	-0.5
3	304	L	Y	-0.5

Node Loads and Enforced Displacements (BLC 13 : Live Load c)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s ² /ft, k*s ² *ft)]
1	254	L	Y	-0.5
2	278	L	Y	-0.5
3	302	L	Y	-0.5

Node Loads and Enforced Displacements (BLC 14 : Live Load d)

	Node Label	L, D, M	Direction	Magnitude [(k, k-ft), (in, rad), (k*s ² /ft, k*s ² *ft)]
1	252	L	Y	-0.5
2	276	L	Y	-0.5
3	300	L	Y	-0.5

Basic Load Cases

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
1	Dead	DL	-1		35		12
2	0 Wind - No Ice	WLZ			35	213	
3	90 Wind - No Ice	WLX			35	213	
4	0 Wind - Ice	WLZ			35	213	
5	90 Wind - Ice	WLX			35	213	
6	0 Wind - Service	WLZ			35	213	
7	90 Wind - Service	WLX			35	213	
8	Ice	OL1			35	213	12
9	0 Seismic	ELZ			35	213	
10	90 Seismic	ELX			35	213	
11	Live Load a	LL		3			
12	Live Load b	LL		3			
13	Live Load c	LL		3			
14	Live Load d	LL		3			
15	Maint LL 1	LL			1		
16	Maint LL 2	LL			1		
17	Maint LL 3	LL			1		
18	Maint LL 4	LL			1		
19	Maint LL 5	LL			1		
20	Maint LL 6	LL			1		
21	Maint LL 7	LL			1		
22	Maint LL 8	LL			1		
23	Maint LL 9	LL			1		
24	Maint LL 10	LL			1		
25	Maint LL 11	LL			1		

Basic Load Cases (Continued)

	BLC Description	Category	Y Gravity	Nodal	Point	Distributed	Area(Member)
26	Maint LL 12	LL			1		
27	Maint LL 13	LL			1		
28	Maint LL 14	LL			1		
29	Maint LL 15	LL			1		
30	BLC 1 Transient Area Loads	None				369	
31	BLC 8 Transient Area Loads	None				369	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	1.4 Dead	Yes	Y	1	1.4						
2	1.2 D + 1.0 - 0 W	Yes	Y	1	1.2	2	1				
3	1.2 D + 1.0 - 30 W	Yes	Y	1	1.2	2	0.866	3	0.5		
4	1.2 D + 1.0 - 60 W	Yes	Y	1	1.2	3	0.866	2	0.5		
5	1.2 D + 1.0 - 90 W	Yes	Y	1	1.2	3	1				
6	1.2 D + 1.0 - 120 W	Yes	Y	1	1.2	3	0.866	2	-0.5		
7	1.2 D + 1.0 - 150 W	Yes	Y	1	1.2	2	-0.866	3	0.5		
8	1.2 D + 1.0 - 180 W	Yes	Y	1	1.2	2	-1				
9	1.2 D + 1.0 - 210 W	Yes	Y	1	1.2	2	-0.866	3	-0.5		
10	1.2 D + 1.0 - 240 W	Yes	Y	1	1.2	3	-0.866	2	-0.5		
11	1.2 D + 1.0 - 270 W	Yes	Y	1	1.2	3	-1				
12	1.2 D + 1.0 - 300 W	Yes	Y	1	1.2	3	-0.866	2	0.5		
13	1.2 D + 1.0 - 330 W	Yes	Y	1	1.2	2	0.866	3	-0.5		
14	1.2 D + 1.0 - 0 W/Ice	Yes	Y	1	1.2	4	1			8	1
15	1.2 D + 1.0 - 30 W/Ice	Yes	Y	1	1.2	4	0.866	5	0.5	8	1
16	1.2 D + 1.0 - 60 W/Ice	Yes	Y	1	1.2	5	0.866	4	0.5	8	1
17	1.2 D + 1.0 - 90 W/Ice	Yes	Y	1	1.2	5	1			8	1
18	1.2 D + 1.0 - 120 W/Ice	Yes	Y	1	1.2	5	0.866	4	-0.5	8	1
19	1.2 D + 1.0 - 150 W/Ice	Yes	Y	1	1.2	4	-0.866	5	0.5	8	1
20	1.2 D + 1.0 - 180 W/Ice	Yes	Y	1	1.2	4	-1			8	1
21	1.2 D + 1.0 - 210 W/Ice	Yes	Y	1	1.2	4	-0.866	5	-0.5	8	1
22	1.2 D + 1.0 - 240 W/Ice	Yes	Y	1	1.2	5	-0.866	4	-0.5	8	1
23	1.2 D + 1.0 - 270 W/Ice	Yes	Y	1	1.2	5	-1			8	1
24	1.2 D + 1.0 - 300 W/Ice	Yes	Y	1	1.2	5	-0.866	4	0.5	8	1
25	1.2 D + 1.0 - 330 W/Ice	Yes	Y	1	1.2	4	0.866	5	-0.5	8	1
26	1.2 D + 1.0 E - 0	Yes	Y	1	1.2	9	1				
27	1.2 D + 1.0 E - 30	Yes	Y	1	1.2	9	0.866	10	0.5		
28	1.2 D + 1.0 E - 60	Yes	Y	1	1.2	10	0.866	9	0.5		
29	1.2 D + 1.0 E - 90	Yes	Y	1	1.2	10	1				
30	1.2 D + 1.0 E - 120	Yes	Y	1	1.2	10	0.866	9	-0.5		
31	1.2 D + 1.0 E - 150	Yes	Y	1	1.2	9	-0.866	10	0.5		
32	1.2 D + 1.0 E - 180	Yes	Y	1	1.2	9	-1				
33	1.2 D + 1.0 E - 210	Yes	Y	1	1.2	9	-0.866	10	-0.5		
34	1.2 D + 1.0 E - 240	Yes	Y	1	1.2	10	-0.866	9	-0.5		
35	1.2 D + 1.0 E - 270	Yes	Y	1	1.2	10	-1				
36	1.2 D + 1.0 E - 300	Yes	Y	1	1.2	10	-0.866	9	0.5		
37	1.2 D + 1.0 E - 330	Yes	Y	1	1.2	9	0.866	10	-0.5		
38	1.2 D + 1.5 LL a + Service - 0 W	Yes	Y	1	1.2	6	1			11	1.5
39	1.2 D + 1.5 LL a + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	11	1.5
40	1.2 D + 1.5 LL a + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	11	1.5
41	1.2 D + 1.5 LL a + Service - 90 W	Yes	Y	1	1.2	7	1			11	1.5
42	1.2 D + 1.5 LL a + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	11	1.5
43	1.2 D + 1.5 LL a + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	11	1.5
44	1.2 D + 1.5 LL a + Service - 180 W	Yes	Y	1	1.2	6	-1			11	1.5
45	1.2 D + 1.5 LL a + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	11	1.5
46	1.2 D + 1.5 LL a + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	11	1.5

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
47	1.2 D + 1.5 LL a + Service - 270 W	Yes	Y	1	1.2	7	-1			11	1.5
48	1.2 D + 1.5 LL a + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	11	1.5
49	1.2 D + 1.5 LL a + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	11	1.5
50	1.2 D + 1.5 LL b + Service - 0 W	Yes	Y	1	1.2	6	1			12	1.5
51	1.2 D + 1.5 LL b + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	12	1.5
52	1.2 D + 1.5 LL b + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	12	1.5
53	1.2 D + 1.5 LL b + Service - 90 W	Yes	Y	1	1.2	7	1			12	1.5
54	1.2 D + 1.5 LL b + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	12	1.5
55	1.2 D + 1.5 LL b + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	12	1.5
56	1.2 D + 1.5 LL b + Service - 180 W	Yes	Y	1	1.2	6	-1			12	1.5
57	1.2 D + 1.5 LL b + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	12	1.5
58	1.2 D + 1.5 LL b + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	12	1.5
59	1.2 D + 1.5 LL b + Service - 270 W	Yes	Y	1	1.2	7	-1			12	1.5
60	1.2 D + 1.5 LL b + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	12	1.5
61	1.2 D + 1.5 LL b + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	12	1.5
62	1.2 D + 1.5 LL c + Service - 0 W	Yes	Y	1	1.2	6	1			13	1.5
63	1.2 D + 1.5 LL c + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	13	1.5
64	1.2 D + 1.5 LL c + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	13	1.5
65	1.2 D + 1.5 LL c + Service - 90 W	Yes	Y	1	1.2	7	1			13	1.5
66	1.2 D + 1.5 LL c + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	13	1.5
67	1.2 D + 1.5 LL c + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	13	1.5
68	1.2 D + 1.5 LL c + Service - 180 W	Yes	Y	1	1.2	6	-1			13	1.5
69	1.2 D + 1.5 LL c + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	13	1.5
70	1.2 D + 1.5 LL c + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	13	1.5
71	1.2 D + 1.5 LL c + Service - 270 W	Yes	Y	1	1.2	7	-1			13	1.5
72	1.2 D + 1.5 LL c + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	13	1.5
73	1.2 D + 1.5 LL c + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	13	1.5
74	1.2 D + 1.5 LL d + Service - 0 W	Yes	Y	1	1.2	6	1			14	1.5
75	1.2 D + 1.5 LL d + Service - 30 W	Yes	Y	1	1.2	6	0.866	7	0.5	14	1.5
76	1.2 D + 1.5 LL d + Service - 60 W	Yes	Y	1	1.2	7	0.866	6	0.5	14	1.5
77	1.2 D + 1.5 LL d + Service - 90 W	Yes	Y	1	1.2	7	1			14	1.5
78	1.2 D + 1.5 LL d + Service - 120 W	Yes	Y	1	1.2	7	0.866	6	-0.5	14	1.5
79	1.2 D + 1.5 LL d + Service - 150 W	Yes	Y	1	1.2	6	-0.866	7	0.5	14	1.5
80	1.2 D + 1.5 LL d + Service - 180 W	Yes	Y	1	1.2	6	-1			14	1.5
81	1.2 D + 1.5 LL d + Service - 210 W	Yes	Y	1	1.2	6	-0.866	7	-0.5	14	1.5
82	1.2 D + 1.5 LL d + Service - 240 W	Yes	Y	1	1.2	7	-0.866	6	-0.5	14	1.5
83	1.2 D + 1.5 LL d + Service - 270 W	Yes	Y	1	1.2	7	-1			14	1.5
84	1.2 D + 1.5 LL d + Service - 300 W	Yes	Y	1	1.2	7	-0.866	6	0.5	14	1.5
85	1.2 D + 1.5 LL d + Service - 330 W	Yes	Y	1	1.2	6	0.866	7	-0.5	14	1.5
86	1.2 D + 1.5 LL Maint (1)	Yes	Y	1	1.2					15	1.5
87	1.2 D + 1.5 LL Maint (2)	Yes	Y	1	1.2					16	1.5
88	1.2 D + 1.5 LL Maint (3)	Yes	Y	1	1.2					17	1.5
89	1.2 D + 1.5 LL Maint (4)	Yes	Y	1	1.2					18	1.5
90	1.2 D + 1.5 LL Maint (5)	Yes	Y	1	1.2					19	1.5
91	1.2 D + 1.5 LL Maint (6)	Yes	Y	1	1.2					20	1.5
92	1.2 D + 1.5 LL Maint (7)	Yes	Y	1	1.2					21	1.5
93	1.2 D + 1.5 LL Maint (8)	Yes	Y	1	1.2					22	1.5
94	1.2 D + 1.5 LL Maint (9)	Yes	Y	1	1.2					23	1.5
95	1.2 D + 1.5 LL Maint (10)	Yes	Y	1	1.2					24	1.5
96	1.2 D + 1.5 LL Maint (11)	Yes	Y	1	1.2					25	1.5
97	1.2 D + 1.5 LL Maint (12)	Yes	Y	1	1.2					26	1.5
98	1.2 D + 1.5 LL Maint (13)	Yes	Y	1	1.2					27	1.5
99	1.2 D + 1.5 LL Maint (14)	Yes	Y	1	1.2					28	1.5
100	1.2 D + 1.5 LL Maint (15)	Yes	Y	1	1.2					29	1.5

Envelope Node Reactions

Node Label	X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1 186 max	0.718	6	3.507	14	10.784	2	0.036	8	0.428	12	0.054	12
2 min	-0.794	12	0.518	8	-3.735	8	-0.122	2	-0.383	6	-0.037	6
3 187 max	0.131	12	0.143	14	-0.455	8	0.002	8	0.163	6	0.001	6
4 min	-0.078	6	0.034	8	-12.401	14	-0.08	14	-0.262	12	-0.002	12
5 364 max	9.051	18	3.643	18	1.405	13	0.088	4	0.622	3	0.1	19
6 min	-2.384	12	0.668	12	-5.15	19	-0.032	10	-0.567	9	-0.029	13
7 365 max	-0.961	12	0.148	18	6.406	18	0.041	18	0.185	9	0.073	18
8 min	-11.192	18	0.039	12	0.552	12	0.001	12	-0.265	3	0.002	12
9 412 max	2.438	4	3.549	22	1.675	3	0.06	12	0.545	7	0.036	3
10 min	-8.601	22	0.645	4	-5.321	9	-0.033	6	-0.494	13	-0.12	9
11 413 max	10.775	22	0.145	22	6.311	22	0.042	22	0.224	2	-0.002	4
12 min	0.868	4	0.038	4	0.462	4	0	4	-0.324	8	-0.069	22
13 Totals: max	4.56	5	10.552	18	5.377	2						
14 min	-4.56	11	4.539	12	-5.377	8						

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*	Pnc [k]	phi*	Pnt [k]	phi*	Mn y-y [k-ft]	phi*	Mn z-z [k-ft]	Cb	Eqn
1	1	PIPE 2.5	0.181	4.297	5	0.237	3.255	2	14.559	50.715	3.596	3.596	1	H1-1b						
2	2	PIPE 2.5	0.202	4.297	13	0.255	0.651	9	14.559	50.715	3.596	3.596	1	H1-1b						
3	3	PIPE 2.5	0.197	4.297	9	0.245	11.849	8	14.559	50.715	3.596	3.596	1	H1-1b						
4	4	PL3/8"X3"	0.096	0	4	0.111	0	y	18	36.436	50.625	0.396	3.164	1.167	H1-1b					
5	5	PL3/8"X3"	0.087	0.605	3	0.06	0	y	7	36.436	50.625	0.396	3.164	1.17	H1-1b					
6	6	PL3/8"X3"	0.102	0	13	0.113	0	y	14	36.436	50.625	0.396	3.164	1.364	H1-1b					
7	7	PL3/8"X3"	0.074	0.605	12	0.056	0	y	3	36.436	50.625	0.396	3.164	1.432	H1-1b					
8	8	PL3/8"X3"	0.108	0	8	0.117	0	y	22	36.436	50.625	0.396	3.164	1.183	H1-1b					
9	9	PL3/8"X3"	0.091	0.605	8	0.053	0	y	59	36.436	50.625	0.396	3.164	1.401	H1-1b					
10	10	L3X3X6	0.27	0.88	16	0.304	1.214	z	3	65.297	66.465	2.243	5.174	1.487	H2-1					
11	11	L3X3X6	0.282	0	17	0.372	1.214	z	4	65.297	66.465	2.243	5.174	1.5	H2-1					
12	12	L3X3X6	0.368	2.137	2	0.136	0	y	16	66.061	66.465	2.243	5.174	1.5	H2-1					
13	13	L3X3X6	0.371	2.137	4	0.121	2.386	z	5	66.061	66.465	2.243	5.174	1.239	H2-1					
14	14	L3X3X6	0.29	0.88	25	0.252	1.214	z	11	65.297	66.465	2.243	5.174	1.443	H2-1					
15	15	L3X3X6	0.278	0	25	0.352	1.214	z	12	65.297	66.465	2.243	5.174	1.5	H2-1					
16	16	L3X3X6	0.317	0	25	0.137	0	y	25	65.719	66.465	2.243	5.174	1.043	H2-1					
17	17	L3X3X6	0.373	2.137	13	0.138	2.386	y	2	66.061	66.465	2.243	5.174	1.131	H2-1					
18	18	L3X3X6	0.3	0.88	20	0.29	1.214	z	7	65.297	66.465	2.243	5.174	1.447	H2-1					
19	19	L3X3X6	0.283	0	21	0.396	1.214	z	8	65.297	66.465	2.243	5.174	1.5	H2-1					
20	20	L3X3X6	0.331	0	20	0.143	0	y	20	65.719	66.465	2.243	5.174	1.05	H2-1					
21	21	L3X3X6	0.436	2.137	8	0.14	2.386	z	9	66.061	66.465	2.243	5.174	1.216	H2-1					
22	22	PL3/8"X2-3/8"	0.159	0	17	0.038	0	y	3	32.767	40.68	0.323	2.018	1.276	H1-1b					
23	23	PL3/8"X2-3/8"	0.133	0	20	0.036	0	y	4	32.767	40.68	0.323	2.018	1.368	H1-1b					
24	24	PL3/8"X2-3/8"	0.165	0	20	0.026	0	y	17	32.767	40.68	0.323	2.018	1.939	H1-1b					
25	25	PL3/8"X2-3/8"	0.148	0	18	0.021	0	y	16	32.767	40.68	0.323	2.018	1.736	H1-1b					
26	26	PL3/8"X2-3/8"	0.21	0	19	0.054	0	y	16	32.767	40.68	0.323	2.018	1.353	H1-1b					
27	27	PL3/8"X2-3/8"	0.216	0	17	0.046	0	y	16	32.767	40.68	0.323	2.018	1.205	H1-1b					
28	28	PL3/8"X2-3/8"	0.153	0	25	0.031	0	y	11	32.767	40.68	0.323	2.018	1.268	H1-1b					
29	29	PL3/8"X2-3/8"	0.122	0	16	0.036	0	y	13	32.767	40.68	0.323	2.018	1.384	H1-1b					
30	30	PL3/8"X2-3/8"	0.155	0	15	0.027	0	y	25	32.767	40.68	0.323	2.018	2.027	H1-1b					
31	31	PL3/8"X2-3/8"	0.141	0	14	0.021	0	y	24	32.767	40.68	0.323	2.018	1.708	H1-1b					
32	32	PL3/8"X2-3/8"	0.199	0	14	0.055	0	y	25	32.767	40.68	0.323	2.018	1.408	H1-1b					
33	33	PL3/8"X2-3/8"	0.209	0	25	0.047	0	y	25	32.767	40.68	0.323	2.018	1.194	H1-1b					
34	34	PL3/8"X2-3/8"	0.159	0	21	0.035	0	y	7	32.767	40.68	0.323	2.018	1.265	H1-1b					
35	35	PL3/8"X2-3/8"	0.127	0	24	0.041	0	y	8	32.767	40.68	0.323	2.018	1.378	H1-1b					
36	36	PL3/8"X2-3/8"	0.159	0	23	0.028	0	y	21	32.767	40.68	0.323	2.018	2.022	H1-1b					
37	37	PL3/8"X2-3/8"	0.148	0	21	0.021	0	y	20	32.767	40.68	0.323	2.018	1.685	H1-1b					

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
38	38	PL3/8"x2-3/8"	0.202	0	22	0.058	0	y	20	32.767	40.68	0.323	2.018	1.409	H1-1b
39	39	PL3/8"x2-3/8"	0.214	0	21	0.048	0	y	20	32.767	40.68	0.323	2.018	1.191	H1-1b
40	40	HSS4X3X4	0.128	1.459	16	0.141	1.459	z	16	83.04	91.665	8.19	10.001	1.566	H1-1b
41	41	HSS4X3X4	0.122	1.459	24	0.142	1.459	z	25	83.04	91.665	8.19	10.001	1.521	H1-1b
42	42	HSS4X3X4	0.123	0.177	21	0.145	1.459	z	20	83.04	91.665	8.19	10.001	1.538	H1-1b
43	43	PL3/8"x4"	0.378	0.917	14	0.011	0	y	12	31.728	67.5	0.527	5.625	1.251	H1-1a
44	44	PL3/8"x4"	0.308	0.958	14	0.005	0	y	12	29.576	67.5	0.527	5.625	1.633	H1-1a
45	45	PL3/8"x4"	0.122	0	14	0.014	0	y	12	41.15	67.5	0.527	5.625	1.767	H1-1b*
46	46	PL3/8"x4"	0.081	0	14	0.016	0	y	12	45.284	67.5	0.527	5.625	1.222	H1-1b*
47	47	PL3/8"x4"	0.104	0.479	25	0.026	0	y	12	25.241	67.5	0.527	5.447	1.075	H1-1b
48	48	PL3/8"x4"	0.031	0.741	12	0.03	0.741	y	12	41.24	67.5	0.527	5.451	1.038	H1-1b
49	49	PL3/8"x4"	0	0.475	20	0	0.475	z	15	40.841	67.5	0.527	5.248	1	H1-1b*
50	50	PL1/2"x4"	0.126	0.917	13	0.095	0.917	y	12	59.059	90	0.938	7.5	2.2	H1-1b
51	51	PL1/2"x4"	0.197	0.569	7	0.126	0.958	y	12	56.789	90	0.938	7.5	2.435	H1-1b
52	52	PL1/2"x4"	0.047	0.718	14	0.004	0.718	y	17	69.487	90	0.938	7.5	1.694	H1-1b
53	53	PL1/2"x4"	0.04	0	14	0.026	0	y	12	72.914	90	0.938	7.5	1.628	H1-1b
54	54	PL1/2"x4"	0.115	0.458	85	0.111	0.437	y	12	53.245	90	0.938	7.5	1.162	H1-1b
55	55	PL1/2"x4"	0.022	0.725	12	0.047	0.332	y	12	69.154	90	0.938	7.5	1.054	H1-1b
56	56	PL1/2"x4"	0	0.499	14	0	0.499	z	15	67.337	90	0.938	7.256	1	H1-1b*
57	57	PL3/8"x1"	0.393	0.917	14	0.017	0.917	y	25	8.73	17.1	0.135	0.356	2.288	H1-1a
58	58	PL3/8"x1"	0.341	0.957	14	0.017	0.957	y	15	8.217	17.1	0.135	0.356	2.282	H1-1a
59	59	PL3/8"x1"	0.14	0.731	14	0.017	0.731	y	25	11.151	17.1	0.135	0.356	2.259	H1-1b
60	60	PL3/8"x1"	0.118	0.667	14	0.02	0.667	y	12	11.984	17.1	0.135	0.356	2.288	H1-1b
61	61	PL3/8"x1"	0.18	0.479	14	0.032	0.468	y	12	7.134	17.1	0.135	0.356	2.043	H1-1b
62	62	PL3/8"x1"	0.019	0.332	12	0.03	0.741	y	12	11.026	17.1	0.135	0.356	1.495	H1-1b
63	63	PL3/8"x1"	0.003	0.221	23	0.001	0.221	y	14	10.789	17.1	0.135	0.356	2.731	H1-1b
64	64	PL3/8"x1"	0.329	1.264	14	0.009	0	y	12	4.908	17.1	0.135	0.356	2.289	H1-1a
65	65	PL3/8"x1"	0.279	0	14	0.039	0	y	12	4.686	17.1	0.135	0.356	2.134	H1-1a
66	66	PL3/8"x1"	0.119	0	14	0.048	1.013	y	12	7.518	17.1	0.135	0.356	2.142	H1-1b*
67	67	PL3/8"x1"	0.145	0	14	0.05	0.872	y	12	9.308	17.1	0.135	0.356	2.163	H1-1b*
68	68	PL3/8"x7/8"	0.193	0.727	14	0.061	0	y	12	9.357	14.76	0.116	0.27	2.136	H1-1b*
69	69	PL3/8"x3/4"	0.132	0.595	12	0.088	0.595	y	12	8.914	12.645	0.096	0.199	2.189	H1-1b
70	70	PL3/8"x3/4"	0.049	0.487	12	0.054	0	y	12	10.006	12.645	0.096	0.199	1.796	H1-1b
71	71	PL3/8"x5/8"	0.032	0.397	12	0.019	0.397	y	12	9.25	10.53	0.082	0.139	2.157	H1-1b
72	72	PL3/8"x1"	0.064	0.917	2	0.061	0.917	y	12	8.73	17.1	0.135	0.356	2.243	H1-1b*
73	73	PL3/8"x1"	0.044	0.958	14	0.02	0.958	y	12	8.2	17.1	0.135	0.356	2.212	H1-1b*
74	74	PL3/8"x1"	0.032	0.718	2	0.01	0.718	y	16	11.316	17.1	0.135	0.356	2.268	H1-1b*
75	75	PL3/8"x1"	0.013	0.648	2	0.024	0.648	y	12	12.22	17.1	0.135	0.356	2.258	H1-1b*
76	76	PL3/8"x1"	0.043	0.458	14	0.051	0	y	12	7.399	17.1	0.135	0.356	1.839	H1-1b*
77	77	PL3/8"x1"	0.001	0.325	14	0.035	0.725	y	12	11.23	17.1	0.135	0.356	2.397	H1-1b*
78	78	PL3/8"x1"	0	0.499	14	0	0.499	y	14	10.763	17.1	0.135	0.356	2.661	H1-1b*
79	79	PL3/8"x1"	0	0.871	20	0	0.871	y	8	9.322	17.1	0.135	0.356	2.381	H1-1b*
80	80	PL3/8"x1"	0	0.871	100	0.011	0.871	y	12	9.322	17.1	0.135	0.356	1.868	H1-1a
81	81	PL3/8"x1"	0	0.871	100	0.008	0	y	12	9.322	17.1	0.135	0.356	1.19	H1-1a
82	82	PL3/8"x1"	0.003	0.719	8	0.01	0.719	y	12	11.302	17.1	0.135	0.356	2.786	H1-1b*
83	83	PL3/8"x7/8"	0.004	0.583	8	0.013	0.583	y	12	11.003	14.76	0.116	0.27	3	H1-1b*
84	84	PL3/8"x3/4"	0.008	0.467	8	0.018	0.467	y	12	10.197	12.645	0.096	0.199	2.222	H1-1b*
85	85	PL3/8"x3/4"	0.002	0.37	8	0.009	0.37	z	12	11.05	12.645	0.096	0.199	2.366	H1-1b*
86	86	PL3/8"x5/8"	0	0.288	100	0.005	0.288	y	12	9.838	10.53	0.082	0.139	2.193	H1-1a
87	188	PIPE 2.0	0.278	0.391	10	0.141	12.109		5	6.295	32.13	1.872	1.872	1	H1-1b
88	189	PIPE 2.0	0.28	8.203	13	0.179	8.203		2	6.295	32.13	1.872	1.872	1	H1-1b
89	190	PIPE 2.0	0.287	0.391	2	0.159	12.109		3	6.295	32.13	1.872	1.872	1	H1-1b
90	193	WT4X2.25X0.38	0.012	1.219	6	0.14	2.437	z	3	63.333	71.381	4.228	1.315	1	H1-1b
91	194	WT4X2.25X0.38	0.013	1.219	2	0.128	2.437	y	12	63.333	71.381	4.228	1.315	1	H1-1b
92	195	WT4X2.25X0.38	0.012	1.219	10	0.147	2.437	y	8	63.333	71.381	4.228	1.315	1	H1-1b

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*	Pnc [k]	phi*	Pnt [k]	phi*	Mn y-y [k-ft]	phi*	Mn z-z [k-ft]	Cb	Eqn
93	196	PL3/8X1.5	0.065	1.667	2	0.029	1.667	y	3	11.63	18.225	0.142	0.57	2.061	1	H1-1b				
94	197	PL3/8X1.5	0.022	1.667	13	0.018	1.667	y	2	11.63	18.225	0.142	0.57	1.318	1	H1-1b				
95	198	PL3/8X1.5	0.022	0.764	25	0.016	0	y	2	11.63	18.225	0.142	0.563	1	1	H1-1b				
96	199	PL3/8X1.5	0.024	0	3	0.017	0	y	2	11.63	18.225	0.142	0.57	1.596	1	H1-1b				
97	200	PL3/8X1.5	0.061	1.667	13	0.024	0	y	13	11.63	18.225	0.142	0.563	1	1	H1-1b				
98	201	PL3/8X1.5	0.061	1.667	7	0.027	1.667	y	7	11.63	18.225	0.142	0.57	2.027	1	H1-1b				
99	202	PL3/8X1.5	0.029	0	3	0.017	1.667	y	66	11.63	18.225	0.142	0.563	1	1	H1-1b				
100	203	PL3/8X1.5	0.022	0.903	23	0.014	0	y	66	11.63	18.225	0.142	0.563	1	1	H1-1b				
101	204	PL3/8X1.5	0.021	1.007	23	0.015	0	y	17	11.63	18.225	0.142	0.563	1	1	H1-1b				
102	205	PL3/8X1.5	0.054	1.667	4	0.023	0	y	4	11.63	18.225	0.142	0.563	1	1	H1-1b				
103	206	PL3/8X1.5	0.06	1.667	10	0.026	1.667	y	71	11.63	18.225	0.142	0.57	2.028	1	H1-1b				
104	207	PL3/8X1.5	0.027	1.667	10	0.017	1.667	y	70	11.63	18.225	0.142	0.57	1.209	1	H1-1b				
105	208	PL3/8X1.5	0.024	1.667	9	0.015	0	y	22	11.63	18.225	0.142	0.57	1.173	1	H1-1b				
106	209	PL3/8X1.5	0.022	1.667	9	0.017	0	y	21	11.63	18.225	0.142	0.563	1	1	H1-1b				
107	210	PL3/8X1.5	0.063	1.667	8	0.026	0	y	8	11.63	18.225	0.142	0.563	1	1	H1-1b				
108	211	PIPE 1.5	0.118	0	11	0.038	0.576	2	11.59	23.593	1.105	1.105	1	1	H1-1b					
109	212	PIPE 1.5	0.097	3.071	17	0.04	1.855	2	11.59	23.593	1.105	1.105	1	1	H1-1b					
110	213	PIPE 1.5	0.143	0	3	0.034	0.576	67	11.59	23.593	1.105	1.105	1	1	H1-1b					
111	214	PIPE 1.5	0.101	3.071	21	0.035	0.576	67	11.59	23.593	1.105	1.105	1	1	H1-1b					
112	215	PIPE 1.5	0.134	0	7	0.035	0.576	22	11.59	23.593	1.105	1.105	1	1	H1-1b					
113	216	PIPE 1.5	0.101	0	8	0.036	0.576	70	11.59	23.593	1.105	1.105	1	1	H1-1b					
114	225	PIPE 2.0	0.381	7.188	4	0.105	7.188	5	9.837	32.13	1.872	1.872	1	1	H1-1b					
115	226	PIPE 2.0	0.444	7.188	4	0.128	7.188	5	9.837	32.13	1.872	1.872	1	1	H1-1b					
116	227	PIPE 2.0	0.42	7.188	3	0.11	7.188	6	9.837	32.13	1.872	1.872	1	1	H1-1b					
117	228	PIPE 2.0	0.448	7.188	13	0.108	3.75	7	9.837	32.13	1.872	1.872	1	1	H1-1b					
118	237	PIPE 2.0	0.404	7.188	8	0.122	7.188	9	9.837	32.13	1.872	1.872	1	1	H1-1b					
119	238	PIPE 2.0	0.462	7.188	8	0.143	7.188	9	9.837	32.13	1.872	1.872	1	1	H1-1b					
120	239	PIPE 2.0	0.429	7.188	8	0.122	7.188	10	9.837	32.13	1.872	1.872	1	1	H1-1b					
121	240	PIPE 2.0	0.413	7.188	5	0.112	3.75	10	9.837	32.13	1.872	1.872	1	1	H1-1b					
122	249	PIPE 2.0	0.364	7.188	12	0.123	7.188	13	9.837	32.13	1.872	1.872	1	1	H1-1b					
123	250	PIPE 2.0	0.431	7.188	13	0.152	7.188	13	9.837	32.13	1.872	1.872	1	1	H1-1b					
124	251	PIPE 2.0	0.398	7.188	8	0.15	7.188	2	9.837	32.13	1.872	1.872	1	1	H1-1b					
125	252	PIPE 2.0	0.482	7.188	9	0.133	3.75	2	9.837	32.13	1.872	1.872	1	1	H1-1b					
126	253	PL3/8"X4"	0.385	0.917	18	0.01	0	y	3	31.728	67.5	0.527	5.625	1.253	1	H1-1a				
127	254	PL3/8"X4"	0.317	0.958	18	0.009	0	y	3	29.576	67.5	0.527	5.625	1.654	1	H1-1a				
128	255	PL3/8"X4"	0.127	0	18	0.014	0	y	3	41.15	67.5	0.527	5.625	1.724	1	H1-1b*				
129	256	PL3/8"X4"	0.085	0	18	0.017	0	y	3	45.284	67.5	0.527	5.625	1.218	1	H1-1b*				
130	257	PL3/8"X4"	0.104	0.479	17	0.029	0	y	3	25.241	67.5	0.527	5.448	1.075	1	H1-1b				
131	258	PL3/8"X4"	0.035	0.741	3	0.033	0.741	y	3	41.24	67.5	0.527	5.472	1.042	1	H1-1b				
132	259	PL3/8"X4"	0	0.475	24	0	0.475	z	19	40.841	67.5	0.527	5.248	1	1	H1-1b*				
133	260	PL1/2"X4"	0.134	0.917	4	0.11	0.917	y	3	59.059	90	0.938	7.5	2.167	1	H1-1b				
134	261	PL1/2"X4"	0.177	0.569	11	0.145	0.958	y	3	56.789	90	0.938	7.5	2.462	1	H1-1b				
135	262	PL1/2"X4"	0.048	0.718	18	0.005	0.718	y	21	69.487	90	0.938	7.5	1.683	1	H1-1b				
136	263	PL1/2"X4"	0.042	0.648	18	0.029	0	y	3	72.914	90	0.938	7.5	1.635	1	H1-1b				
137	264	PL1/2"X4"	0.115	0.458	77	0.122	0.437	y	3	53.245	90	0.938	7.5	1.144	1	H1-1b				
138	265	PL1/2"X4"	0.024	0.725	3	0.051	0.332	y	3	69.154	90	0.938	7.5	1.057	1	H1-1b				
139	266	PL1/2"X4"	0	0.499	18	0	0.499	z	19	67.337	90	0.938	7.256	1	1	H1-1b*				
140	267	PL3/8"X1"	0.408	0.917	18	0.016	0.917	y	17	8.73	17.1	0.135	0.356	2.287	1	H1-1a				
141	268	PL3/8"X1"	0.354	0.957	18	0.017	0.957	y	19	8.217	17.1	0.135	0.356	2.281	1	H1-1a				
142	269	PL3/8"X1"	0.145	0.731	18	0.016	0.731	y	17	11.151	17.1	0.135	0.356	2.258	1	H1-1b				
143	270	PL3/8"X1"	0.122	0.667	18	0.02	0.667	y	4	11.984	17.1	0.135	0.356	2.288	1	H1-1b				
144	271	PL3/8"X1"	0.188	0.479	18	0.033	0.468	y	4	7.134	17.1	0.135	0.356	2.043	1	H1-1b				
145	272	PL3/8"X1"	0.02	0.332	3	0.033	0.741	y	3	11.026	17.1	0.135	0.356	1.605	1	H1-1b				
146	273	PL3/8"X1"	0.003	0.221	15	0.001	0.221	y	18	10.789	17.1	0.135	0.356	2.731	1	H1-1b				
147	274	PL3/8"X1"	0.341	1.264	19	0.008	0	y	4	4.908	17.1	0.135	0.356	2.293	1	H1-1a				

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

Member	Shape	Code Check	Loc [ft]	LC	Shear	Check	Loc [ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
148	275	PL3/8"X1"	0.289	0	18	0.041	1.294	y	3	4.686	17.1	0.135	0.356	2.137	H1-1a
149	276	PL3/8"X1"	0.124	0	18	0.053	0	y	3	7.518	17.1	0.135	0.356	2.148	H1-1b*
150	277	PL3/8"X1"	0.151	0	18	0.054	0	y	3	9.308	17.1	0.135	0.356	2.165	H1-1b*
151	278	PL3/8"X7/8"	0.227	0	18	0.065	0.727	y	3	9.357	14.76	0.116	0.27	2.137	H1-1a
152	279	PL3/8"X3/4"	0.132	0.595	4	0.094	0	y	3	8.914	12.645	0.096	0.199	2.189	H1-1b
153	280	PL3/8"X3/4"	0.053	0.487	3	0.058	0	y	3	10.006	12.645	0.096	0.199	1.743	H1-1b
154	281	PL3/8"X5/8"	0.035	0.397	3	0.021	0.397	y	3	9.25	10.53	0.082	0.139	2.104	H1-1b
155	282	PL3/8"X1"	0.059	0.917	6	0.066	0.917	y	3	8.73	17.1	0.135	0.356	2.243	H1-1b*
156	283	PL3/8"X1"	0.046	0.958	18	0.021	0.958	y	4	8.2	17.1	0.135	0.356	2.214	H1-1b*
157	284	PL3/8"X1"	0.03	0.718	6	0.011	0.718	y	20	11.316	17.1	0.135	0.356	2.266	H1-1b*
158	285	PL3/8"X1"	0.011	0.648	6	0.025	0.648	y	4	12.22	17.1	0.135	0.356	2.259	H1-1b*
159	286	PL3/8"X1"	0.045	0.458	18	0.051	0	y	3	7.399	17.1	0.135	0.356	1.839	H1-1b*
160	287	PL3/8"X1"	0.001	0.325	18	0.038	0.725	y	3	11.23	17.1	0.135	0.356	2.4	H1-1b*
161	288	PL3/8"X1"	0	0.499	18	0	0.499	y	18	10.763	17.1	0.135	0.356	2.662	H1-1b*
162	289	PL3/8"X1"	0	0.871	24	0	0.871	y	12	9.322	17.1	0.135	0.356	2.381	H1-1b*
163	290	PL3/8"X1"	0	0.871	100	0.015	0.871	y	3	9.322	17.1	0.135	0.356	1.969	H1-1a
164	291	PL3/8"X1"	0	0.871	100	0.01	0.027	y	3	9.322	17.1	0.135	0.356	1.996	H1-1a
165	292	PL3/8"X1"	0	0.719	100	0.012	0.719	y	3	11.302	17.1	0.135	0.356	2.221	H1-1a
166	293	PL3/8"X7/8"	0	0.583	100	0.014	0.583	y	4	11.003	14.76	0.116	0.27	2.223	H1-1a
167	294	PL3/8"X3/4"	0	0.467	100	0.019	0.467	y	4	10.197	12.645	0.096	0.199	2.186	H1-1a
168	295	PL3/8"X3/4"	0.001	0.37	12	0.01	0.37	z	3	11.05	12.645	0.096	0.199	2.47	H1-1b*
169	296	PL3/8"X5/8"	0	0.288	100	0.006	0.288	y	3	9.838	10.53	0.082	0.139	2.211	H1-1a
170	325	PL3/8"X4"	0.383	0.917	22	0.013	0	y	8	31.728	67.5	0.527	5.625	1.244	H1-1a
171	326	PL3/8"X4"	0.312	0.958	22	0.007	0	y	7	29.576	67.5	0.527	5.625	1.592	H1-1a
172	327	PL3/8"X4"	0.123	0	22	0.017	0	y	8	41.15	67.5	0.527	5.625	1.875	H1-1b*
173	328	PL3/8"X4"	0.083	0	21	0.02	0	y	8	45.284	67.5	0.527	5.625	1.248	H1-1b
174	329	PL3/8"X4"	0.107	0.479	21	0.032	0	y	8	25.241	67.5	0.527	5.45	1.075	H1-1b
175	330	PL3/8"X4"	0.038	0.741	8	0.037	0.741	y	8	41.24	67.5	0.527	5.455	1.039	H1-1b
176	331	PL3/8"X4"	0	0.475	16	0	0.475	z	23	40.841	67.5	0.527	5.248	1	H1-1b*
177	332	PL1/2"X4"	0.13	0.917	8	0.113	0.917	y	8	59.059	90	0.938	7.5	2.216	H1-1b
178	333	PL1/2"X4"	0.206	0.569	3	0.151	0.958	y	8	56.789	90	0.938	7.5	2.424	H1-1b
179	334	PL1/2"X4"	0.048	0.718	22	0.005	0	y	2	69.487	90	0.938	7.5	1.665	H1-1b
180	335	PL1/2"X4"	0.04	0	22	0.031	0	y	8	72.914	90	0.938	7.5	1.653	H1-1b
181	336	PL1/2"X4"	0.114	0.458	81	0.132	0.437	y	8	53.245	90	0.938	7.5	1.172	H1-1b
182	337	PL1/2"X4"	0.027	0.725	8	0.056	0.332	y	8	69.154	90	0.938	7.5	1.059	H1-1b
183	338	PL1/2"X4"	0	0.499	22	0	0.499	z	23	67.337	90	0.938	7.256	1	H1-1b*
184	339	PL3/8"X1"	0.397	0.917	22	0.018	0.917	y	21	8.73	17.1	0.135	0.356	2.288	H1-1a
185	340	PL3/8"X1"	0.344	0.957	22	0.016	0.957	y	23	8.217	17.1	0.135	0.356	2.282	H1-1a
186	341	PL3/8"X1"	0.141	0.731	22	0.019	0.731	y	8	11.151	17.1	0.135	0.356	2.259	H1-1b
187	342	PL3/8"X1"	0.119	0.667	22	0.023	0.667	y	8	11.984	17.1	0.135	0.356	2.288	H1-1b
188	343	PL3/8"X1"	0.181	0.479	22	0.038	0.468	y	8	7.134	17.1	0.135	0.356	2.043	H1-1b
189	344	PL3/8"X1"	0.022	0.332	8	0.036	0.741	y	8	11.026	17.1	0.135	0.356	1.495	H1-1b
190	345	PL3/8"X1"	0.003	0.221	19	0.001	0.221	y	22	10.789	17.1	0.135	0.356	2.731	H1-1b
191	346	PL3/8"X1"	0.333	1.264	22	0.011	0	y	8	4.908	17.1	0.135	0.356	2.289	H1-1a
192	347	PL3/8"X1"	0.28	0	22	0.047	0	y	8	4.686	17.1	0.135	0.356	2.131	H1-1a
193	348	PL3/8"X1"	0.119	0	22	0.058	1.013	y	8	7.518	17.1	0.135	0.356	2.169	H1-1b*
194	349	PL3/8"X1"	0.146	0	22	0.06	0.872	y	8	9.308	17.1	0.135	0.356	2.163	H1-1b*
195	350	PL3/8"X7/8"	0.194	0.727	22	0.072	0	y	8	9.357	14.76	0.116	0.27	2.136	H1-1b*
196	351	PL3/8"X3/4"	0.148	0.595	8	0.105	0.595	y	8	8.914	12.645	0.096	0.199	2.189	H1-1b
197	352	PL3/8"X3/4"	0.058	0.487	8	0.064	0	y	8	10.006	12.645	0.096	0.199	1.792	H1-1b
198	353	PL3/8"X5/8"	0.038	0.397	8	0.023	0.397	y	8	9.25	10.53	0.082	0.139	2.159	H1-1b
199	354	PL3/8"X1"	0.059	0.917	10	0.073	0.917	y	8	8.73	17.1	0.135	0.356	2.243	H1-1b*
200	355	PL3/8"X1"	0.045	0.958	22	0.023	0.958	y	8	8.2	17.1	0.135	0.356	2.21	H1-1b*
201	356	PL3/8"X1"	0.03	0.718	10	0.01	0.718	y	25	11.316	17.1	0.135	0.356	2.265	H1-1b*
202	357	PL3/8"X1"	0.011	0.648	10	0.028	0.648	y	8	12.22	17.1	0.135	0.356	2.259	H1-1b*

Envelope AISC 15TH (360-16): LRFD Member Steel Code Checks (Continued)

Member	Shape	Code	Check	Loc[ft]	LC	Shear	Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y-y [k-ft]	phi*Mn z-z [k-ft]	Cb	Eqn
203	358	PL3/8"X1"	0.043	0.458	22	0.059	0	y	8	7.399	17.1	0.135	0.356	1.841	H1-1b*	
204	359	PL3/8"X1"	0.001	0.325	22	0.041	0.725	y	8	11.23	17.1	0.135	0.356	2.386	H1-1b*	
205	360	PL3/8"X1"	0	0.499	22	0	0.499	y	22	10.763	17.1	0.135	0.356	2.661	H1-1b*	
206	361	PL3/8"X1"	0	0.871	16	0	0.871	y	4	9.322	17.1	0.135	0.356	2.381	H1-1b*	
207	362	PL3/8"X1"	0	0.871	100	0.014	0.871	y	7	9.322	17.1	0.135	0.356	1.974	H1-1a	
208	363	PL3/8"X1"	0	0.871	100	0.009	0.027	y	7	9.322	17.1	0.135	0.356	2.043	H1-1a	
209	364	PL3/8"X1"	0	0.719	100	0.012	0.719	y	8	11.302	17.1	0.135	0.356	2.222	H1-1a	
210	365	PL3/8"X7/8"	0	0.583	100	0.016	0.583	y	8	11.003	14.76	0.116	0.27	2.223	H1-1a	
211	366	PL3/8"X3/4"	0	0.467	100	0.021	0.467	y	8	10.197	12.645	0.096	0.199	2.186	H1-1a	
212	367	PL3/8"X3/4"	0.002	0.37	4	0.011	0.37	z	8	11.05	12.645	0.096	0.199	2.478	H1-1b*	
213	368	PL3/8"X5/8"	0	0.288	100	0.006	0.288	y	8	9.838	10.53	0.082	0.139	2.212	H1-1a	

APPENDIX D
ADDITIONAL CALCUATIONS

PROJECT	136354.013.01.0001 - Hayden Station KSC			
SUBJECT	Platform Mount Analysis			
DATE	10/03/22	PAGE	1	OF 1



B+T Group
 1717 S. Boulder, Suite 300
 Tulsa, OK 74119
 (918) 587-4630

[REF: AISC 360-05]

Reactions at Bolted Connection

Tension	:	11.012	k
Vertical Shear	:	3.661	k
Horizontal Shear	:	0.955	k
Torsion	:	0.045	k.ft
Moment from Horizontal Forces	:	0.596	k.ft
Moment from Vertical Forces	:	0.125	k.ft

Bolt Parameters

Bolt Grade	:	A325	
Bolt Diameter	:	0.625	in
Nominal Bolt Area	:	0.307	in ²
Bolt spacing, Horizontal	:	6	in
Bolt spacing, Vertical	:	6	in
Bolt edge distance, plate height	:	1.5	in
Bolt edge distance, plate width	:	1.5	in
Total Number of Bolts	:	4	bolts

Summary of Forces

Shear Resultant Force	:	3.78	k
Force from Horz. Moment	:	1.08	k
Force from Vert. Moment	:	0.23	k
Shear Load / Bolt	:	0.95	k
Tension Load / Bolt	:	2.75	k
Resultant from Moments / Bolt	:	0.55	k

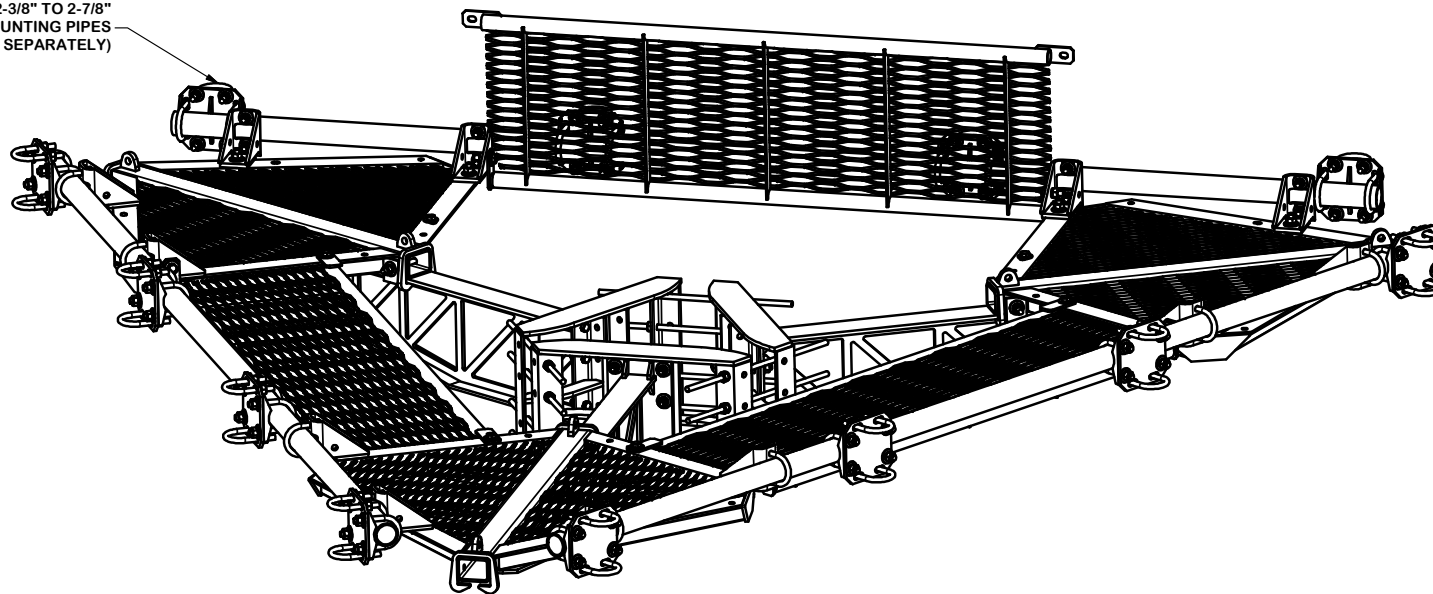
Bolt Checks

Nominal Tensile Stress, F_{nt}	:	90.00	ksi	[AISC Table J3.2]
Available Tensile Stress, ΦR_{nt}	:	20.72	k/bolt	[Eq. J3-1]
Unity Check, Bolt Tension	:	15.95%		OKAY
Nominal Shear Stress, F_{nv}	:	48.00	ksi	[AISC Table J3.2]
Available Shear Stress, ΦR_{nv}	:	11.05	k/bolt	[Eq. J3-1]
Unity Check, Bolt Shear	:	33.47%		OKAY
Unity Check, Combined	:	49.41%		OKAY
Available Bearing Strength, ΦR_n	:	34.66	k/bolt	
Unity Check, Bolt Bearing	:	2.73%		OKAY

APPENDIX E
SUPPLEMENTAL DRAWINGS

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LPP-CW	LOW PROFILE PLATFORM CORNER WELDMENT		198.75	596.26
2	3	X-LPP-SA12	SIDE ARM WELDMENT FOR 12' LOW PROFILE PLATFORMS		119.21	357.63
3	3	X-RM3HD	WELDMENT FOR 3-SIDED HEAVY DUTY RING MOUNT		84.42	253.25
4	3	X-LPP-W12	WALKWAY FOR 12' LOW PROFILE PLATFORM		86.48	259.44
5	12	X-LPP-PC	FACE PIPE CONNECTION BRACKET FORTRESS PLATFORM		7.01	84.11
6	12	X-SCX3-FR	FORTRESS CROSSOVER PLATE		6.61	79.37
7	12	X-LPP-A7	CORNER WELDMENT ATTACHMENT ANGLE	2 1/2 in	1.27	15.25
8	6	X-LPP-H	HINGE FOR LOW PROFILE PLATFORM WALKWAY		2.78	16.66
9	3	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	230.81
10	12	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	4.79
10	12	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	4.79
11	6	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	4.18
12	48	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	55.17
13	24	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	24.00
14	12	X-UB5304	5/8" X 3" X 4-1/4" X 2-1/2" U-BOLT (HDG.)		0.98	11.70
15	48	G58214	5/8" x 2-1/4" HDG HEX BOLT GR5		0.29	13.99
16	186	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	13.11
17	204	G58LW	5/8" HDG LOCKWASHER		0.03	5.32
18	204	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	26.50
					TOTAL WT. #	2122.03

2-3/8" TO 2-7/8"
ANTENNA MOUNTING PIPES
(ORDERED SEPARATELY)



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
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DESCRIPTION

12' FORTRESS™
TRI-PLATFORM MOUNT
WITH WALKWAYS

CPD NO.

DRAWN BY

ENG. APPROVAL

CLASS 81
SUB 02

DRAWING USAGE
CUSTOMER

CHECKED BY
BMC 8/30/2017

PART NO.

F3P-12W

DWG. NO.

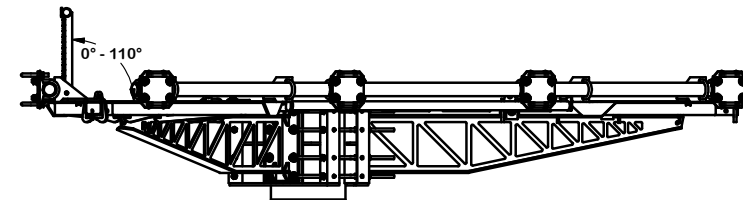
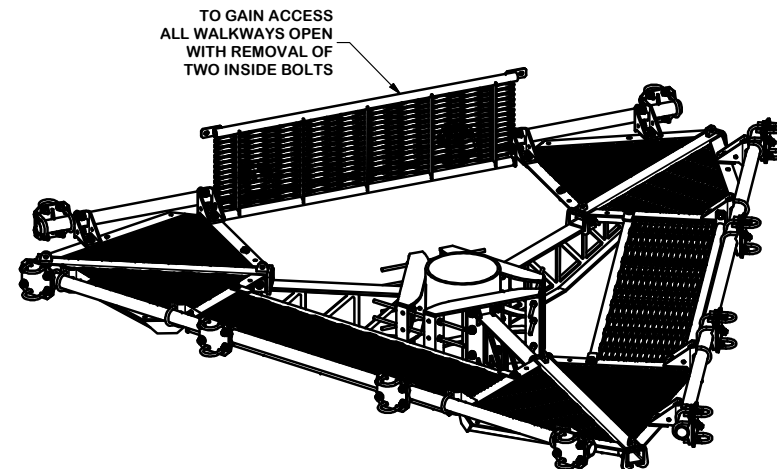
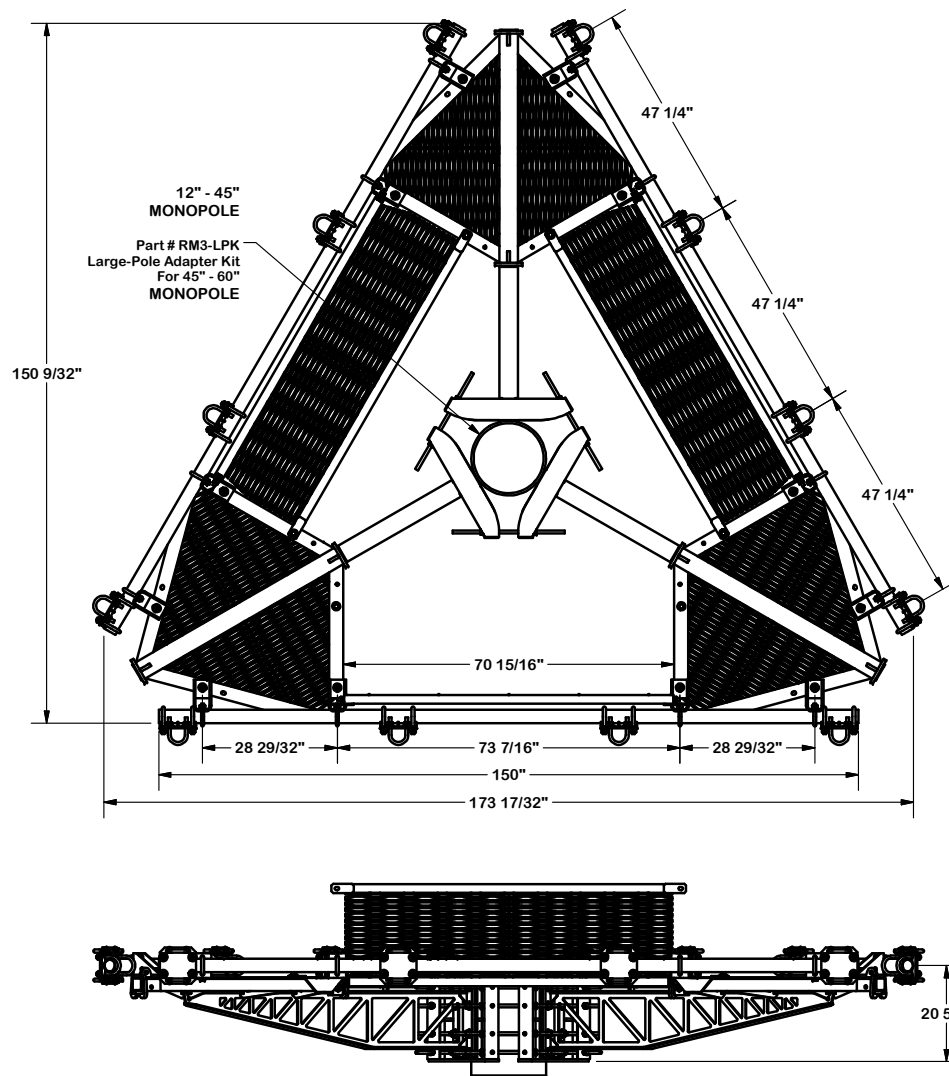
F3P-12W



A valmont COMPANY

Engineering
Support Team:
1-888-753-7446

Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX



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DESCRIPTION

12' FORTRESS™
 TRI-PLATFORM MOUNT
 WITH WALKWAYS

CPD NO.

DRAWN BY

CEK

8/8/2017

ENG. APPROVAL

CLASS

81

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

BMC 8/30/2017

PART NO.

F3P-12W

DWG. NO.

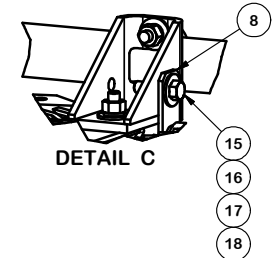
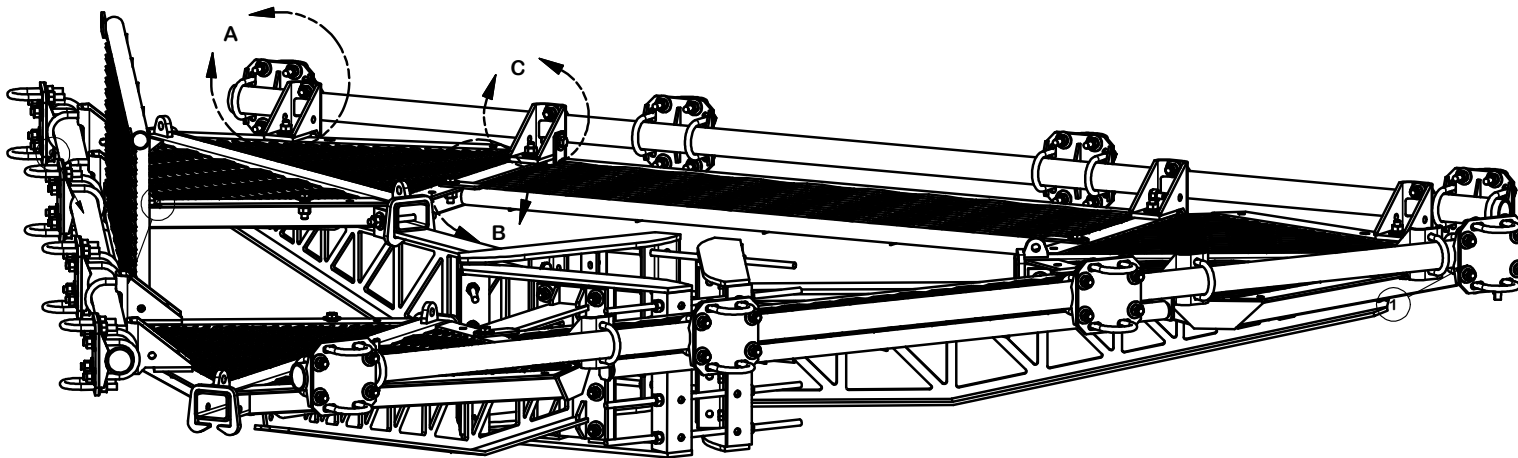
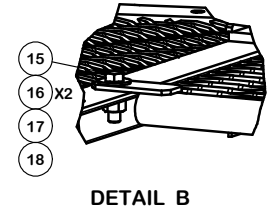
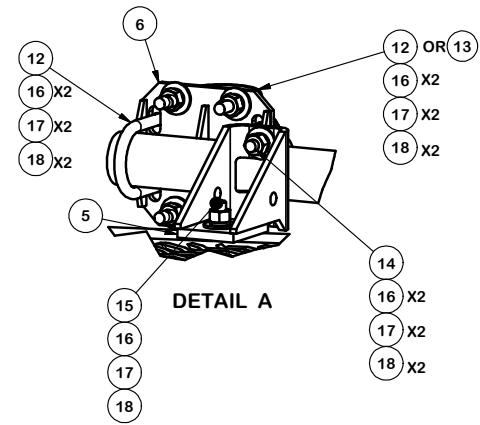
F3P-12W



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DESCRIPTION

12' FORTRESS™
 TRI-PLATFORM MOUNT
 WITH WALKWAYS

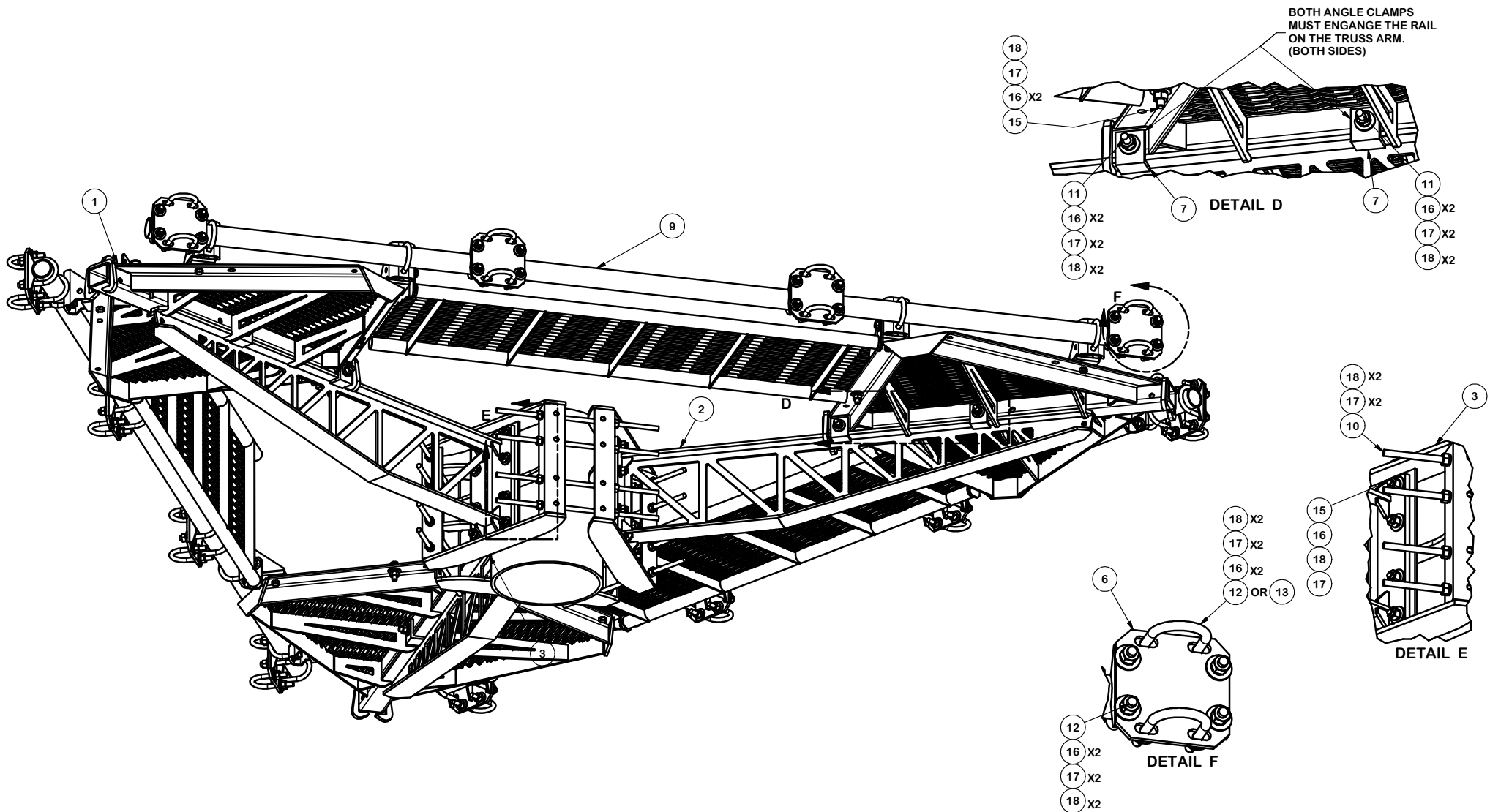
CPD NO.	DRAWN BY CEK 8/8/2017	ENG. APPROVAL
CLASS 81	SUB 02	DRAWING USAGE CUSTOMER
	CHECKED BY BMC 8/30/2017	



Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

Engineering
 Support Team:
 1-888-753-7446

PART NO.	F3P-12W
DWG. NO.	F3P-12W



TOLERANCE NOTES

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DESCRIPTION

12' FORTRESS™
 TRI-PLATFORM MOUNT
 WITH WALKWAYS

CPD NO.

DRAWN BY

CEK 8/8/2017

ENG. APPROVAL

CLASS

SUB

81 02

DRAWING USAGE

CUSTOMER

CHECKED BY

BMC 8/30/2017

PART NO.

F3P-12W

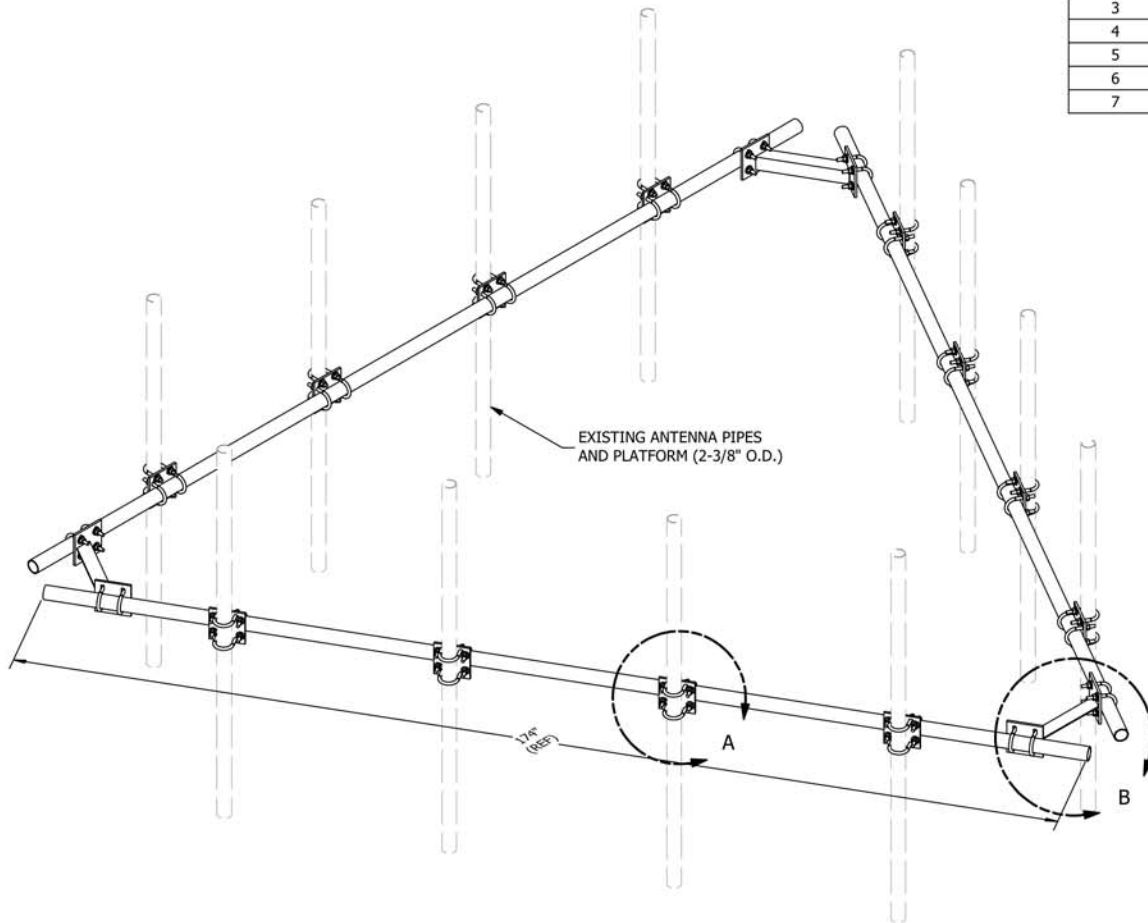
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F3P-12W

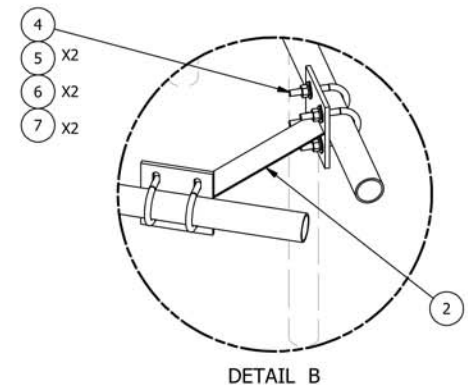
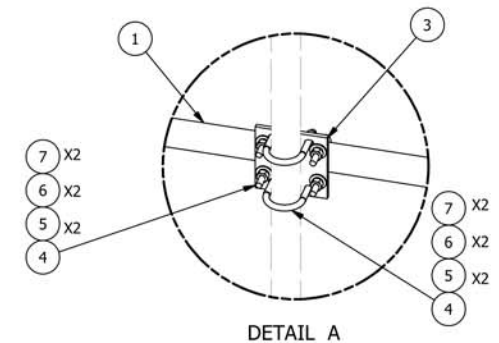


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Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	P2174	2-3/8" OD X 174" SCH 40 GALVANIZED PIPE	174 in	55.75	167.24
2	3	X-AHCP	ANGLE HANDRAIL CORNER PLATE		12.92	38.76
3	12	SCX1	CROSSOVER PLATE 2-3/8" X 2-3/8"	6 in	3.71	44.50
4	60	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	37.51
5	120	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	4.09
6	120	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	1.67
7	120	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	8.60
TOTAL WT. #						302.36



TOLERANCE NOTES

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DESCRIPTION

HANDRAIL KIT
 FOR 14'-6" FACE

CPD NO.	DRAWN BY	ENG. APPROVAL
81	KC8 5/30/2012	BMC 7/13/2014
CLASS	SUB	CHECKED BY
81	01	CUSTOMER



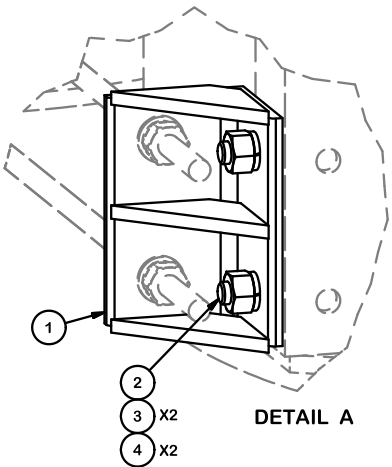
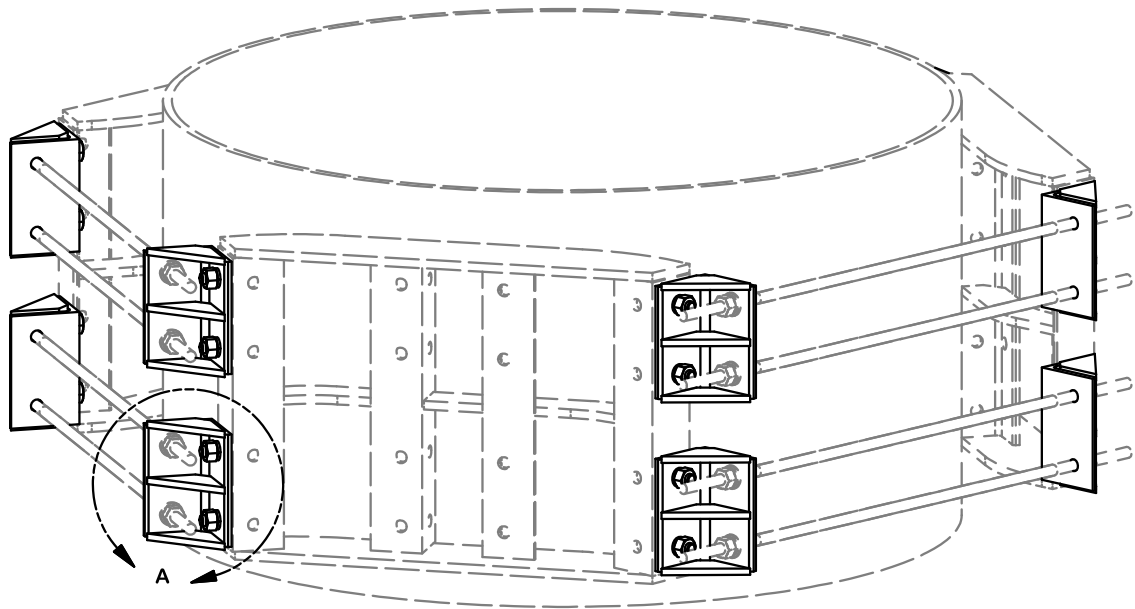
Engineering
 Support Team:
 1-888-753-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Plymouth, IN
 Salem, OR
 Dallas, TX

PART NO.	HRK14
OWG. NO.	HRK14

A	REPLACED HCP WITH X-AHCP	CEK	7/11/2014
REV	DESCRIPTION OF REVISIONS	CPD	BY
REVISION HISTORY			

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	12	X-RM3LP	WELDMENT FOR LARGE POLE ADAPTER FOR RM3-HD		7.49	89.90
2	24	G58134	5/8" x 1-3/4" HDG BOLT	1 3/4 in	0.27	6.45
3	24	G58LW	5/8" HDG LOCKWASHER		0.03	0.63
4	24	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.12
					TOTAL WT. #	100.10



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DESCRIPTION		
RM3 LARGE POLE ADAPTER KIT		

CPD NO.	DRAWN BY	ENG. APPROVAL
81	CEK 9/15/2017	
CLASS	DRAWING USAGE	CHECKED BY
81	02 CUSTOMER	BMC 9/18/2017

		Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX
Engineering Support Team: 1-888-753-7446		

PART NO.	RM3-LPK	PAGE
DWG. NO.	RM3-LPK	1 OF 1

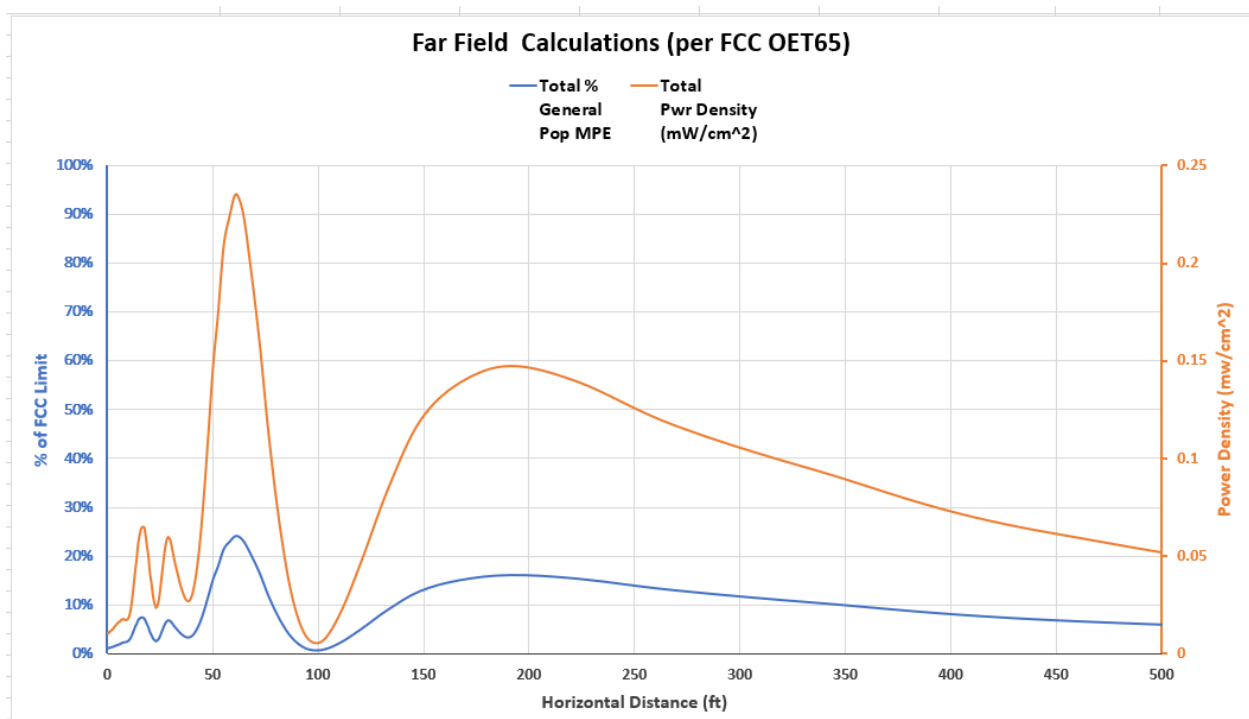
ATTACHMENT 6

CUMULATIVE MPE TABLE	
Carrier	MPE%
SPRINT	1.73%
CLEARWIRE	0.31%
T-MOBILE	32.98%
AT&T	3.28%
*Verizon Wireless	24.20%
Site Total	62.50%

* See attached Verizon Wireless far field tables for full detail.

Note: the data for the carriers on the above table was compiled from the Fox Hill Radio Frequency Emissions Analysis Report, dated March 2, 2022 submitted by Crown Castle on March 3, 2022 (EM-t-mobile-164-220307) and the Mobile Comm Professionals Radio Frequency Emissions Analysis Report, dated July 8, 2022 submitted by Crown Castle on July 18, 2022 (em-att-164-220720).

Location	Windsor NE CT					
Band	C-Band	CBRS	AWS	PCS	850-LTE	700
Operating Frequency (MHz)	3,700	3,550	2,145	1,970	869	746
General Population MPE (mW/cm ²)	1	1	1	1	0.579333333	0.497333333
ERP Per Transmitter (Watts)	13,336	13	1,496	1,486	752	669
Number of Transmitters	2	4	4	4	4	4
Antenna Centerline (feet)	50	50	50	50	50	50
Total ERP (Watts)	26,672	50	5,984	5,944	3,008	2,676
Total ERP (dBm)	74	47	68	68	65	64
Maximum % of General Population Limit	24.2%					



Angle Below Horizon	Power Density (mW/cm²)						Percent of General Population MPE										Distance	Total Pwr Density (mW/cm²)	Total % General Pop MPE
	C-Band	CBRS	AWS	PCS	850-LTE	700 MHz	39GHz	28GHz	C-Band	CBRS	AWS	PCS	Cellular	CDMA	700 MHz				
90	0.009660377	5.34452E-07	1.93166E-06	8.77036E-05	0.000104044	0.000377072	0.00%	0.00%	0.97%	0.00%	0.00%	0.01%	0.02%	0.00%	0.08%	0	0.010231663	1.07%	
89	0.009659537	7.54868E-07	4.85168E-06	8.7696E-05	0.000101667	0.000413416	0.00%	0.00%	0.97%	0.00%	0.00%	0.01%	0.02%	0.00%	0.08%	0.410194026	0.010267922	1.08%	
88	0.009881958	9.50074E-07	7.86645E-06	0.000106662	0.000108909	0.000474541	0.00%	0.00%	0.99%	0.00%	0.00%	0.01%	0.02%	0.00%	0.10%	0.820638083	0.010574887	1.11%	
87	0.010107737	9.4966E-07	1.72024E-05	0.000129622	0.000133929	0.000557294	0.00%	0.00%	1.01%	0.00%	0.00%	0.01%	0.02%	0.00%	0.11%	1.231582813	0.010946734	1.16%	
86	0.010336862	7.89411E-07	3.43024E-05	0.000159372	0.000193469	0.000654364	0.00%	0.00%	1.03%	0.00%	0.00%	0.02%	0.03%	0.00%	0.13%	1.643280081	0.011379159	1.22%	
85	0.010569315	6.26558E-07	4.84153E-05	0.000187098	0.000279427	0.000750719	0.00%	0.00%	1.06%	0.00%	0.00%	0.02%	0.05%	0.00%	0.15%	2.055983593	0.011835602	1.28%	
84	0.010805073	6.40534E-07	5.55346E-05	0.000200286	0.000394321	0.000822353	0.00%	0.00%	1.08%	0.00%	0.01%	0.02%	0.07%	0.00%	0.17%	2.469949529	0.012278208	1.34%	
83	0.010792707	1.16425E-06	6.22395E-05	0.000214365	0.000519221	0.000900666	0.00%	0.00%	1.08%	0.00%	0.01%	0.02%	0.09%	0.00%	0.18%	2.885437181	0.012490357	1.38%	
82	0.011286363	1.80081E-06	7.47291E-05	0.000234735	0.000623414	0.000986244	0.00%	0.00%	1.13%	0.00%	0.01%	0.02%	0.11%	0.00%	0.20%	3.302709616	0.013207286	1.47%	
81	0.011800419	1.83997E-06	9.1798E-05	0.000269104	0.000714693	0.001079762	0.00%	0.00%	1.18%	0.00%	0.01%	0.03%	0.12%	0.00%	0.22%	3.722034348	0.013957616	1.56%	
80	0.012054782	1.33068E-06	0.000102824	0.000308448	0.000764507	0.001155021	0.00%	0.00%	1.21%	0.00%	0.01%	0.03%	0.13%	0.00%	0.23%	4.143684047	0.014386913	1.61%	
79	0.012312275	8.38017E-07	0.000117835	0.000378758	0.000799025	0.001264063	0.00%	0.00%	1.23%	0.00%	0.01%	0.04%	0.14%	0.00%	0.25%	4.567937265	0.014872795	1.67%	
78	0.012572821	5.52519E-07	0.000151485	0.000486918	0.000874289	0.001383131	0.00%	0.00%	1.26%	0.00%	0.02%	0.05%	0.15%	0.00%	0.28%	4.995079199	0.015469196	1.75%	
77	0.012544135	3.4782E-07	0.00021349	0.000604401	0.001048728	0.00147867	0.00%	0.00%	1.25%	0.00%	0.02%	0.06%	0.18%	0.00%	0.30%	5.425402491	0.015925799	1.82%	
76	0.012228139	4.2685E-07	0.00031499	0.00078593	0.001379058	0.001544511	0.00%	0.00%	1.22%	0.00%	0.03%	0.08%	0.24%	0.00%	0.31%	5.859208067	0.016253054	1.88%	
75	0.01164634	1.31554E-06	0.000443737	0.000899938	0.001942727	0.001576231	0.00%	0.00%	1.16%	0.00%	0.04%	0.09%	0.34%	0.00%	0.32%	6.296806022	0.016510289	1.95%	
74	0.011348164	4.14801E-06	0.000596845	0.000983895	0.002673917	0.001571651	0.00%	0.00%	1.13%	0.00%	0.06%	0.10%	0.46%	0.00%	0.32%	6.738516565	0.017178619	2.07%	
73	0.010557624	0.101503E-05	0.00069904	0.001027045	0.003595741	0.001496224	0.00%	0.00%	1.06%	0.00%	0.07%	0.10%	0.62%	0.00%	0.30%	7.184871014	0.017385824	2.15%	
72	0.009819529	1.92763E-05	0.000729532	0.001122358	0.004616689	0.001391678	0.00%	0.00%	0.98%	0.00%	0.07%	0.11%	0.80%	0.00%	0.28%	7.635612861	0.017692464	2.25%	
71	0.008720655	3.11504E-05	0.00094201	0.001254794	0.005659413	0.00123589	0.00%	0.00%	0.87%	0.00%	0.07%	0.13%	0.98%	0.00%	0.25%	8.091688912	0.017596103	2.30%	
70	0.007566327	4.38328E-05	0.000588601	0.001435187	0.006623802	0.001122834	0.00%	0.00%	0.76%	0.00%	0.06%	0.14%	1.14%	0.00%	0.23%	8.553300505	0.017380585	2.33%	
69	0.006563157	5.49575E-05	0.000498941	0.001515167	0.007574017	0.000996652	0.00%	0.00%	0.66%	0.01%	0.05%	0.15%	1.31%	0.00%	0.20%	9.020804823	0.017219444	2.37%	
68	0.005959754	6.42899E-05	0.00032829	0.001423153	0.008461562	0.000884421	0.00%	0.00%	0.60%	0.01%	0.04%	0.14%	1.46%	0.00%	0.18%	9.494616307	0.017216008	2.43%	
67	0.005797323	7.01685E-05	0.000397973	0.001151465	0.009450391	0.000821595	0.00%	0.00%	0.58%	0.01%	0.04%	0.12%	1.63%	0.00%	0.17%	9.975158181	0.017683735	2.54%	
66	0.006060496	7.48205E-05	0.000418834	0.000849433	0.01055184	0.000763021	0.00%	0.00%	0.60%	0.01%	0.04%	0.08%	1.82%	0.00%	0.15%	10.4628741	0.018698908	2.71%	
65	0.006900155	7.44343E-05	0.00056872	0.000612184	0.011778258	0.000741804	0.00%	0.00%	0.69%	0.01%	0.05%	0.06%	2.03%	0.00%	0.15%	10.95822997	0.020563708	2.99%	
64	0.009046509	7.40279E-05	0.000464962	0.00048362	0.012844808	0.000754938	0.00%	0.00%	0.90%	0.01%	0.05%	0.05%	2.22%	0.00%	0.15%	11.46171583	0.023668144	3.38%	
63	0.011856787	7.36006E-05	0.000384506	0.000492028	0.014001974	0.000786064	0.00%	0.00%	1.19%	0.01%	0.04%	0.05%	2.42%	0.00%	0.15%	11.97384806	0.02757696	3.85%	
62	0.015534987	7.31519E-05	0.000214905	0.000587941	0.015259248	0.000817978	0.00%	0.00%	1.55%	0.01%	0.02%	0.06%	2.63%	0.00%	0.16%	12.49517164	0.032488212	4.44%	
61	0.020342728	6.94098E-05	5.12203E-05	0.000770069	0.015875542	0.000870837	0.00%	0.00%	2.03%	0.01%	0.01%	0.08%	2.74%	0.00%	0.18%	13.02626271	0.037984356	5.04%	
60	0.025441721	6.4337E-05	1.40114E-05	0.000985303	0.016134991	0.000948368	0.00%	0.00%	2.54%	0.01%	0.00%	0.10%	2.79%	0.00%	0.19%	13.56773133	0.043588732	5.63%	
59	0.02967278	5.43674E-05	0.000139111	0.001231537	0.016019404	0.010324216	0.00%	0.00%	2.97%	0.01%	0.01%	0.12%	2.77%	0.00%	0.21%	14.12022455	0.048154114	6.08%	
58	0.036235256	4.09304E-05	0.000331182	0.001503677	0.015536514	0.01123471	0.00%	0.00%	3.62%	0.01%	0.03%	0.15%	2.68%	0.00%	0.23%	14.68442777	0.05477103	6.72%	
57	0.041272406	2.80915E-05	0.000464083	0.001222054	0.014384078	0.01222054	0.00%	0.00%	4.13%	0.01%	0.18%	0.18%	2.48%	0.00%	0.25%	15.26107844	0.059205911	7.09%	
56	0.044874588	1.92715E-05	0.000481877	0.002187881	0.013311369	0.001298467	0.00%	0.00%	4.49%	0.00%	0.05%	0.22%	2.30%	0.00%	0.26%	15.85095015	0.062173454	7.32%	
	0.048768986	1.44897E-05	0.000415987	0.000377754	0.011758881	0.001347641	0.00%	0.00%	4.88%	0.00%	0.04%	0.24%	2.03%	0.00%	0.27%	16.45487715	0.064683739	7.46%	
55	0.05059169	1.27936E-05	0.000327352	0.002249585	0.010382488	0.001335087	0.00%	0.00%	5.06%	0.00%	0.03%	0.22%	1.79%	0.00%	0.27%	17.07374941	0.064898996	7.38%	
54	0.052456066	1.23797E-05	0.000288889	0.001810585	0.008954018	0.001233747	0.00%	0.00%	5.26%	0.00%	0.03%	0.18%	1.55%	0.00%	0.25%	17.70852018	0.064755686	7.28%	
53	0.050731929	1.19728E-05	0.000376892	0.001211447	0.007370613	0.001088208	0.00%	0.00%	5.07%	0.00%	0.04%	0.12%	1.27%	0.00%	0.22%	18.36021222	0.060791063	6.72%	
52	0.04682908	1.05545E-05	0.00069416	0.000722016	0.00592578	0.000874891	0.00%	0.00%	4.68%	0.00%	0.07%	0.07%	1.02%	0.00%	0.18%	19.02992478	0.055057309	6.02%	
51	0.034202384	1.0925E-05	0.001220236	0.000430062	0.004547052	0.000626525	0.00%	0.00%	4.32%	0.00%	0.12%	0.04%	0.78%	0.00%	0.13%	19.71884133	0.050037184	5.40%	
50	0.035499296	1.56003E-05	0.001867049	0.000345337	0.003239983	0.000390526	0.00%	0.00%	3.55%	0.00%	0.19%	0.03%	0.57%	0.00%	0.08%	20.42823834	0.041447791	4.43%	
49	0.030524138	2.17549E-05	0.00237454	0.00059247	0.002381583	0.000211872	0.00%	0.00%	2.15945004	0.00%	0.24%	0.06%	0.41%	0.00%	0.04%	21.15949504	0.036106358	3.80%	
48	0.023975532	2.35329E-05	0.002568606	0.001502397	0.001823828	0.000162253	0.00%	0.00%	3.05%	0.00%	0.26%	0.15%	0.31%	0.00%	0.03%	21.91410452	0.029456149	3.05%	
47	0.017480567	1.84276E-05	0.002418196	0.003635622	0.00156595	0.000291652	0.00%	0.00%	1.75%	0.00%	0.24%	0.36%	0.27%	0.00%	0.06%	22.69368621	0.025409824	2.68%	
46	0.013121568	9.5262E-06	0.001936161	0.007482188	0.001691327	0.000641854	0.00%	0.00%	1.19%	0.00%	0.19%	0.75%	0.29%	0.00%	0.13%	23.5	0.023673624	2.56%	
45	0.007569891	1.95886E-05	0.001412621	0.013712381	0.002047915	0.001203705	0.00%	0.00%	0.76%	0.00%	0.14%	1.37%	0.35%	0.00%	0.24%	24.33496237	0.025468472	2.87%	
44	0.004283363	4.1322E-07	0.001066285	0.021867954	0.002594222	0.001964335	0.00%	0.00%	0.43%	0.00%	0.10%	0.21%	0.45%	0.00%	0.39%	25.20064649	0.02171659	3.56%	
43	0.00236628	8.45241E-06	0.001035147	0.031051981	0.003135367	0.00285428	0.00%	0.00%	0.24%	0.00%	0.10%	0.31%	0.54%	0.00%	0.57%	26.0993941	0.040451508	4.56%	
42	0.001570023	2.50507E-05	0.00172521	0.038364466	0.003699374	0.003778648	0.00%	0.00%	0.16%	0.00%	0.17%	3.84%	0.64%	0.00%	0.76%	27.03365757	0.049162771	5.57%	
41	0.002383828	4.07558E-05	0.00322634	0.041198616	0.003976466	0.004664341	0.00%	0.00%	0.24%	0.00%	0.32%	4.22%	0.69%	0.00%	0.94%	28.00620943	0.056483731	6.41%	
40	0.00444776	4.58201E-05	0.005483746	0.040379837	0.003984406	0.005365027	0.00%	0.00%	0.44%	0.00%	0.55%	4.04%	0.69%	0.00%	1.08%	29.02008318	0.059706596	6.80%	
39	0.00773518	3.72722E-05	0.007932433	0.032846841	0.003721283	0													