

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

May 17, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
Wethersfield Police Department
250 Silas Deane Highway, Wethersfield, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the Wethersfield Police Department (“WPD”) at the above-referenced address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Town of Wethersfield (“Town”). Cellco representatives did reach out to municipal officials who indicated that they could not locate any local permits or approvals for the WPD tower. Cellco’s shared use of the tower was approved by the Council in May of 2004 (a copy of Cellco’s TS-VER-159-040614 approval letter was not available on the Council’s website).

Cellco now intends to modify its facility by removing six (6) existing antennas and installing three (3) Samsung 64T64RMMU antennas on Cellco’s existing antenna platform. A set of project plans showing Cellco’s proposed facility modifications and new antennas specifications are included in Attachment 1.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Wethersfield’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
May 17, 2021
Page 2

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna platform.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for the modified facility is included in Attachment 2. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation, tower base plate can support Cellco's proposed modifications. Modifications to the antenna mounting device will be required. Copies of the SA and MA are included in Attachment 3. Also included in Attachment 3 is a separate letter prepared by the consulting engineer responsible for the preparation of the SA and MA verifying that the antenna model described in the SA and MA, respectively, as a nL-Sub6 Antenna or VZS01 Antenna, is the Samsung 64T64R model antenna that will be installed on the tower.

A copy of the parcel map and Property owner information is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials is included in Attachment 5.

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

Melanie A. Bachman, Esq.
May 17, 2021
Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Gary A. Evans, Wethersfield Town Manger

Peter Gillespie, Wethersfield Director of Planning & Economic Development

Aleksey Tyurin

ATTACHMENT 1

**HARTFORD 9 CT
ANTMO**

CONSTRUCTION DRAWINGS

A	01/05/21 FOR COMMENT



Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310



DRAWN BY: JG

REVIEWED BY: CDH

CHECKED BY: BBR

PROJECT NUMBER: 50121487

JOB NUMBER: 50121823

SITE ADDRESS:

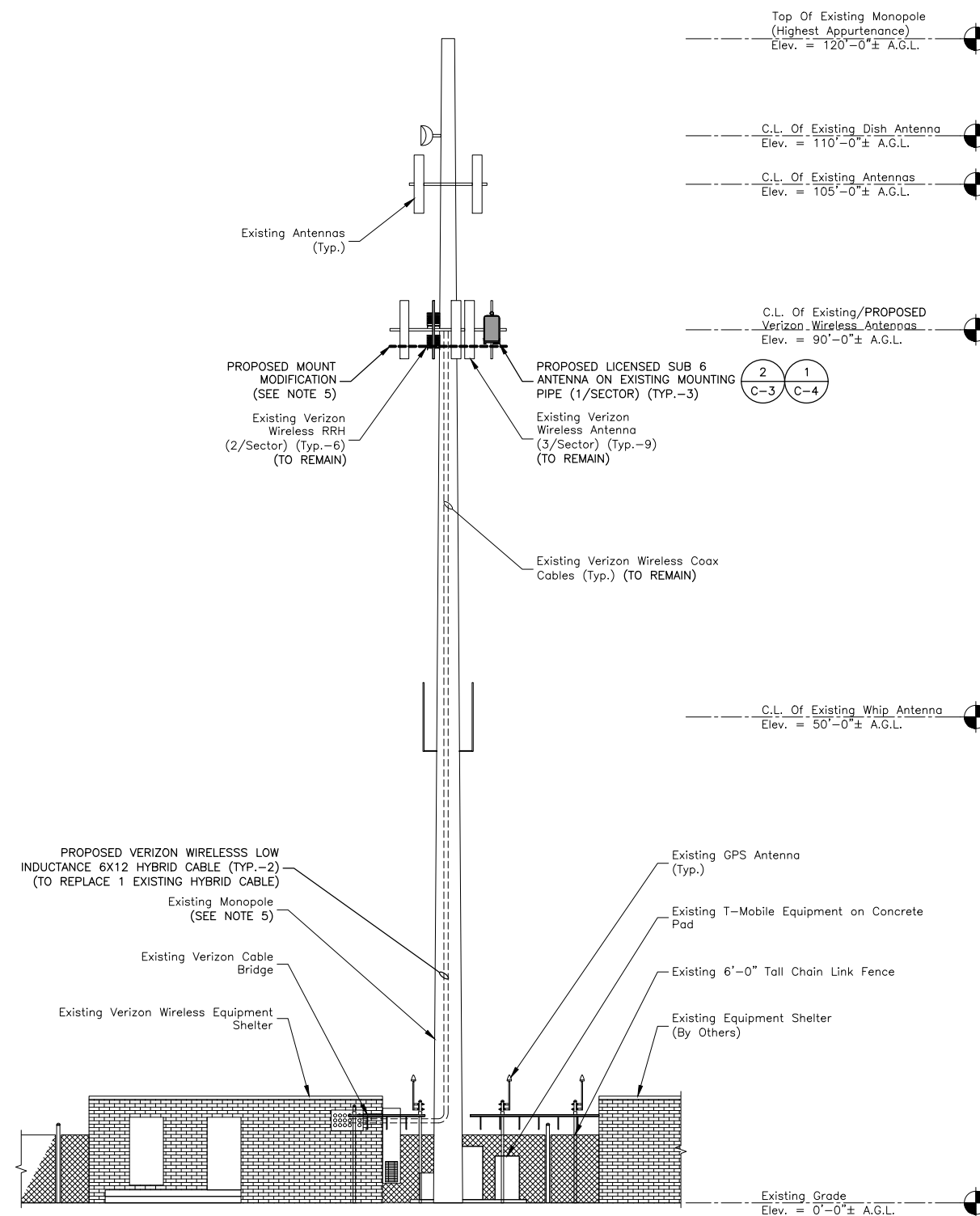
250 SILAS DEANE HIGHWAY
WETHERSFIELD, CT 06109

SHEET TITLE

WEST ELEVATION

SHEET NUMBER

C-2



WEST ELEVATION
SCALE: 1/16"=1' FOR 11"x17"
1/8"=1' FOR 22"x34"
0' 4' 8' 16'

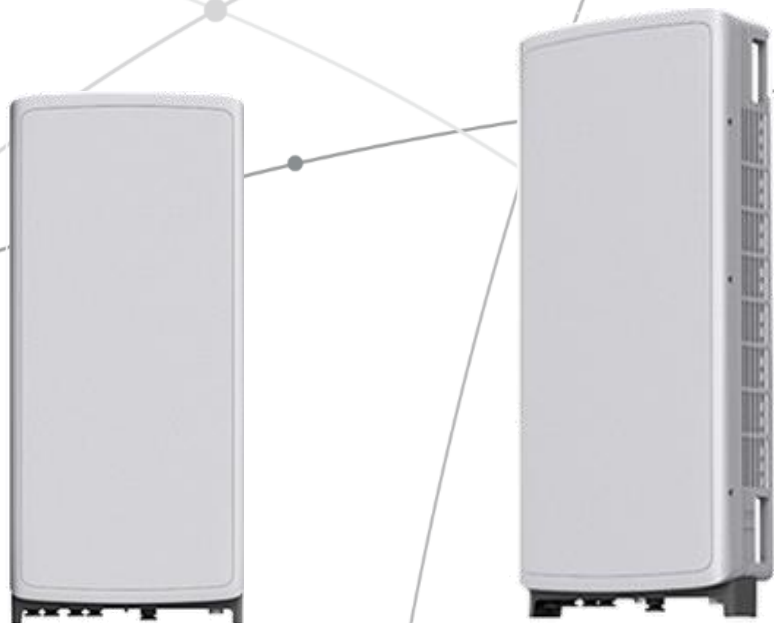
- NOTES:
- ELEVATION SHOWN AS APPROXIMATE.
 - SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
 - SITE PLAN & ELEVATION BASED ON A SITE VISIT BY DEWBERRY ENGINEERS INC. ON 10-20-20.
 - EXISTING ANTENNAS SHOWN AS APPROXIMATE. ELEVATION BASED ON EXISTING INFORMATION AND VISUAL INSPECTION AND HAVE NOT BEEN VERIFIED THROUGH AN ANTENNA MAPPING.
 - MOUNT ALL ANTENNAS, COAX, RRH, OVP BOXES, ETC. IN ACCORDANCE WITH TOWER STRUCTURAL ANALYSIS BY DEWBERRY ENGINEERS INC. DATED 12-30-20. MOUNT ANALYSIS REPORT BY MASER CONSULTING, P.A. DATED 12-16-20 & MOUNT MODIFICATION DRAWINGS BY MASER CONSULTING, P.A. DATED 12-16-20.
 - REUSE EXISTING ANTENNA MOUNTS AND COAX. INSPECT FOR DAMAGE OR DECAY AND REPLACE AS NEEDED PER STRUCTURAL ANALYSIS.
 - THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAINS. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



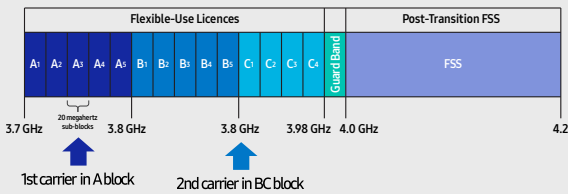
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

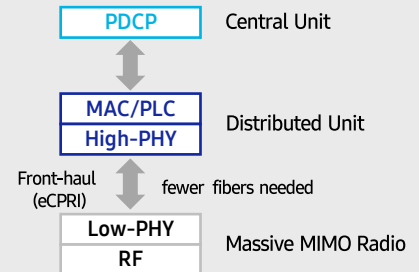
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

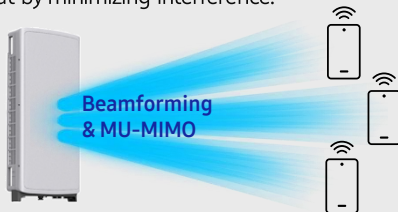


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

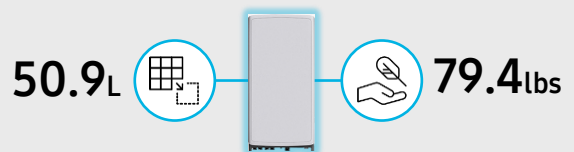
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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ATTACHMENT 2

	General	Power	Density					
Site Name: Hartford 9 (Wethersfield)								
Tower Height: Verizon @ 90ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
T-Mobile	2	2057	105	1900	0.1510	1.0000	1.51%	
T-Mobile	2	2057	105	1900	0.1510	1.0000	1.51%	
T-Mobile	2	592	105	600	0.0434	0.4000	1.09%	
T-Mobile	1	1578	105	600	0.0579	0.4000	1.45%	
T-Mobile	2	649	105	700	0.0476	0.4667	1.02%	
T-Mobile	2	2204	105	1900	0.1617	1.0000	1.62%	
T-Mobile	2	1295	105	2100	0.0950	1.0000	0.95%	
T-Mobile	2	6413	105	2500	0.4706	1.0000	4.71%	
T-Mobile	2	6413	105	2500	0.4706	1.0000	4.71%	
Town of Weths	1	70	55	460.25	0.0105	0.3068	0.34%	
Town of Weths	1	100	110	45.86	0.0033	0.2000	0.17%	
Nextel	12	100	117	851	0.0350	0.5673	0.62%	
VZW 700	4	697	90	0.0048	751	0.5007	0.97%	
VZW Cellular	4	822	90	0.0057	874	0.5827	0.98%	
VZW PCS	4	1593	90	0.0110	1975	1.0000	1.10%	
VZW AWS	4	1571	90	0.0109	2120	1.0000	1.09%	
VZW CBAND	4	6531	90	0.0453	3730.005	1.0000	4.53%	
								28.35%
* Source: Siting Council								

ATTACHMENT 3



Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
GDulnik@maserconsulting.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10022557
Maser Consulting Connecticut Project #: 20777293A

December 16, 2020

Site Information

Site ID: 468180-VZW / Hartford 9 CT
Site Name: Hartford 9 CT
Carrier Name: Verizon Wireless
Address: 250 Silas Deane Hwy
Wethersfield, Connecticut 06109
Hartford County
Latitude: 41.720597°
Longitude: -72.666044°

Structure Information

Tower Type: Monopole
Mount Type: 6.79-Ft T-Frame

FUZE ID # 16232035

Analysis Results

T-Frame: **55.4% Pass**

*****Contractor PMI Requirements:**

Included at the end of this MA report

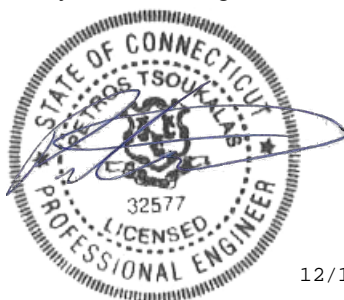
Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Carol Luengas



12/16/2020

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 674932, dated November 5, 2020</i>
<i>Mount Mapping Report</i>	<i>Delta Oaks Group, Site ID: 468180, dated October 26, 2020</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting Connecticut Project #: 20777293A Dated November 10, 2020</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut Project #: 20777293A Dated December 16, 2020</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 118 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.999
Seismic Parameters:	S_s : 0.194 S_1 : 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

- Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Antenna Pipe</i>	<i>33.5</i>	<i>Pass</i>
<i>Face Horizontal</i>	<i>22.9</i>	<i>Pass</i>
<i>Standoff Pipe</i>	<i>0.0</i>	<i>Pass</i>
<i>Standoff Arm</i>	<i>31.0</i>	<i>Pass</i>
<i>Connection Check</i>	<i>55.4</i>	<i>Pass</i>
<i>Proposed Face Horizontal</i>	<i>18.5</i>	<i>Pass</i>
<i>Proposed Standoff</i>	<i>28.5</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	55.4%
---	--------------

Recommendation:

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

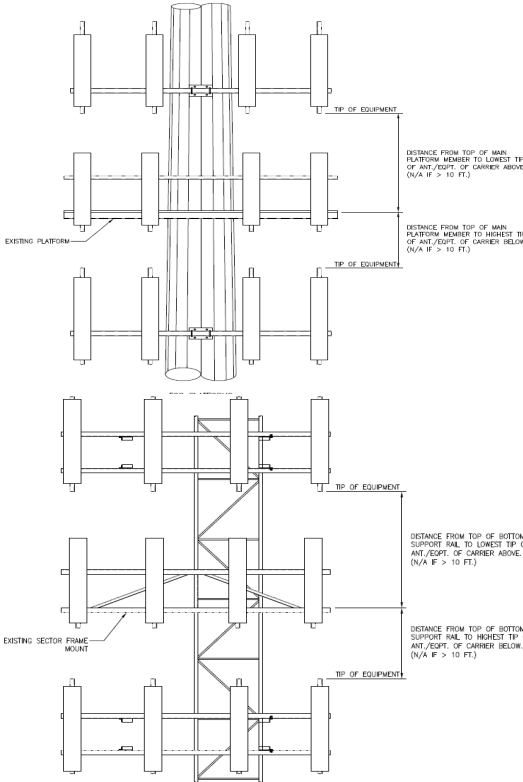
ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

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



Mount Azimuth (Degree) for Each Sector		Tower Leg Azimuth (Degree) for Each Sector		Sector B												
Sector A:	45.00	Deg	Leg A:		Deg	Ant _{1a}	BXA-70063-6CF EDIN2	11.20	5.20	71.00	(1) 1 1/4	89.25	36.00	9.50	165.00	91
Sector B:	165.00	Deg	Leg B:		Deg	Ant _{1b}										
Sector C:	285.00	Deg	Leg C:		Deg	Ant _{2a}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	165.00	86
Sector D:		Deg	Leg D:		Deg	Ant _{2b}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	165.00	86
Climbing Facility Information																
Location:	230.00	Deg	Outside Face B													
Climbing Facility	Corrosion Type:	Good condition.		Ant _{3a}	RADIO	15.75	12.00	15.25		91.2708	11.75	10.00				86
	Access:	Climbing path was unobstructed.		Ant _{3b}	RADIO	15.75	10.25	15.25		87.9167	52.00	10.00				86
	Condition:	Damaged safety cable.		Ant _{3c}												
				Ant _{4a}	BXA-70063-6CF EDIN2	11.20	5.20	71.00		89.25	36.00	10.50	165.00	92		
				Ant _{4b}												
				Ant _{4c}												
				Ant _{5a}												
				Ant _{5b}												
				Ant _{5c}												
				Ant on Standoff												
				Ant on Standoff												
				Ant on Tower												
				Ant on Tower												
				Sector C												
				Ant _{1a}	BXA-70063-6CF EDIN2	11.20	5.20	71.00	(1) 1 1/4	89.25	36.00	9.50	285.00	93		
				Ant _{1b}												
				Ant _{1c}												
				Ant _{2a}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	285.00	94		
				Ant _{2b}	SBNHH-1D65B	11.90	7.10	72.00		89.3333	35.00	10.00	285.00	94		
				Ant _{2c}												
				Ant _{3a}	RADIO	15.75	12.00	15.25		91.2708	11.75	10.00		95		
				Ant _{3b}	RADIO	15.75	10.25	15.25		87.9167	52.00	10.00		95		
				Ant _{3c}												
				Ant _{4a}	BXA-70063-6CF EDIN2	11.20	5.20	71.00		89.25	36.00	10.50	285.00	95		
				Ant _{4b}												
				Ant _{4c}												
				Ant _{5a}												
				Ant _{5b}												
				Ant _{5c}												
				Ant on Standoff												
				Ant on Standoff												
				Ant on Tower												
				Ant on Tower												
				Sector D												
				Ant _{1a}												
				Ant _{1b}												
				Ant _{1c}												
				Ant _{2a}												
				Ant _{2b}												
				Ant _{2c}												
				Ant _{3a}												
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				Ant _{3c}												
				Ant _{4a}												
				Ant _{4b}												
				Ant _{4c}												
				Ant _{5a}												
				Ant _{5b}												
				Ant _{5c}												
				Ant on Standoff												
				Ant on Standoff												
				Ant on Tower												
				Ant on Tower												



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

1	The top safety cable connection looks like it is installed incorrectly.	39
2	Corrosion on the U-bolts on the mount.	94
3		
4		
5		
6		
7		
8		

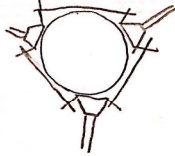
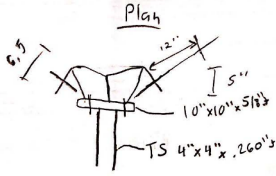
Mapping Notes

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

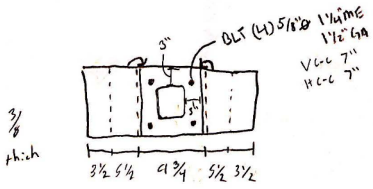
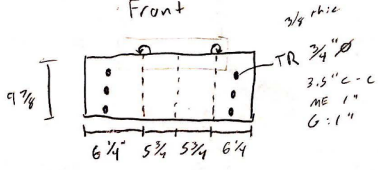
Standard Conditions

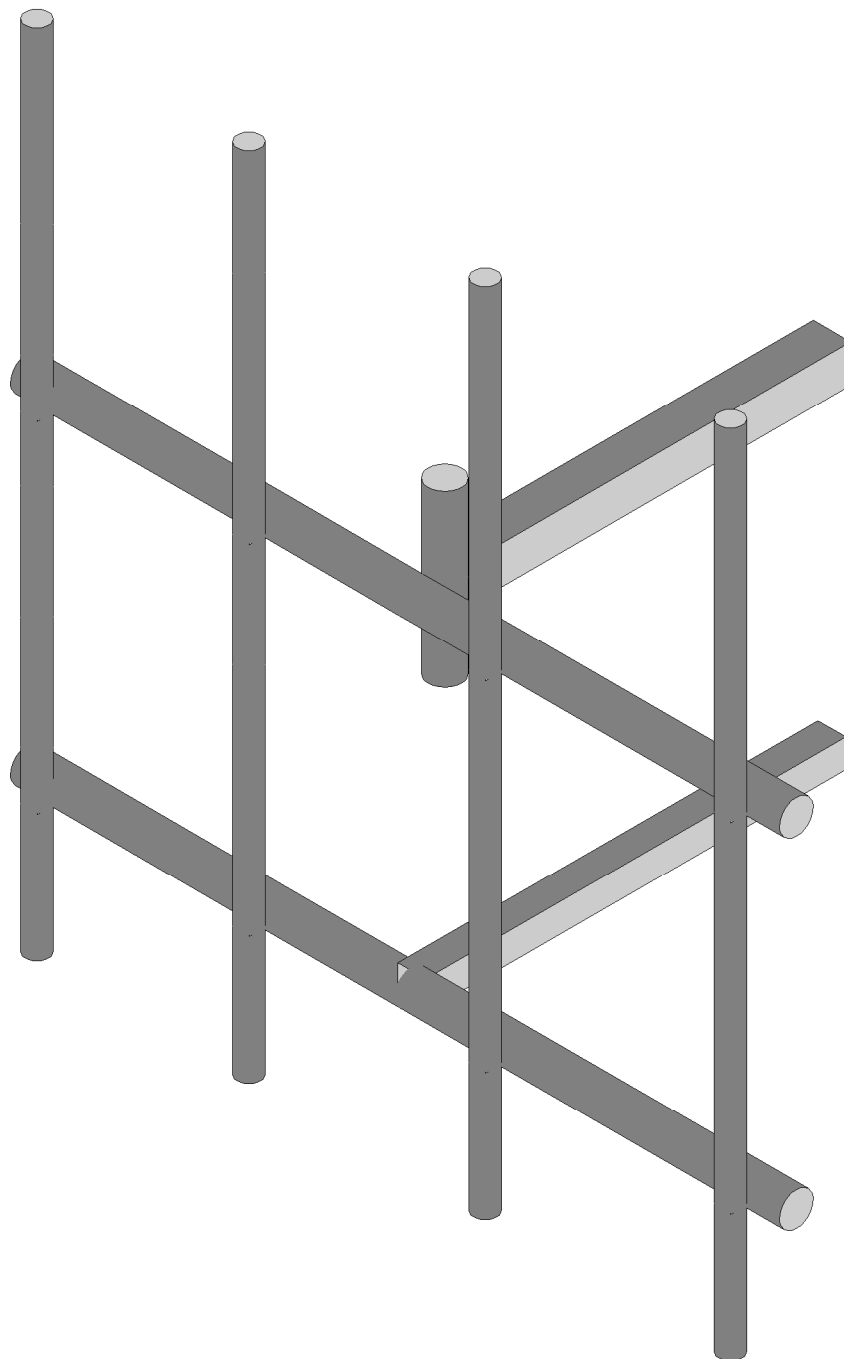
1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.

Collar Connection



Front





Envelope Only Solution

Maser Consulting

AE

Project No. 10022557

468180-VZW_MT_LOT_SectorA_H

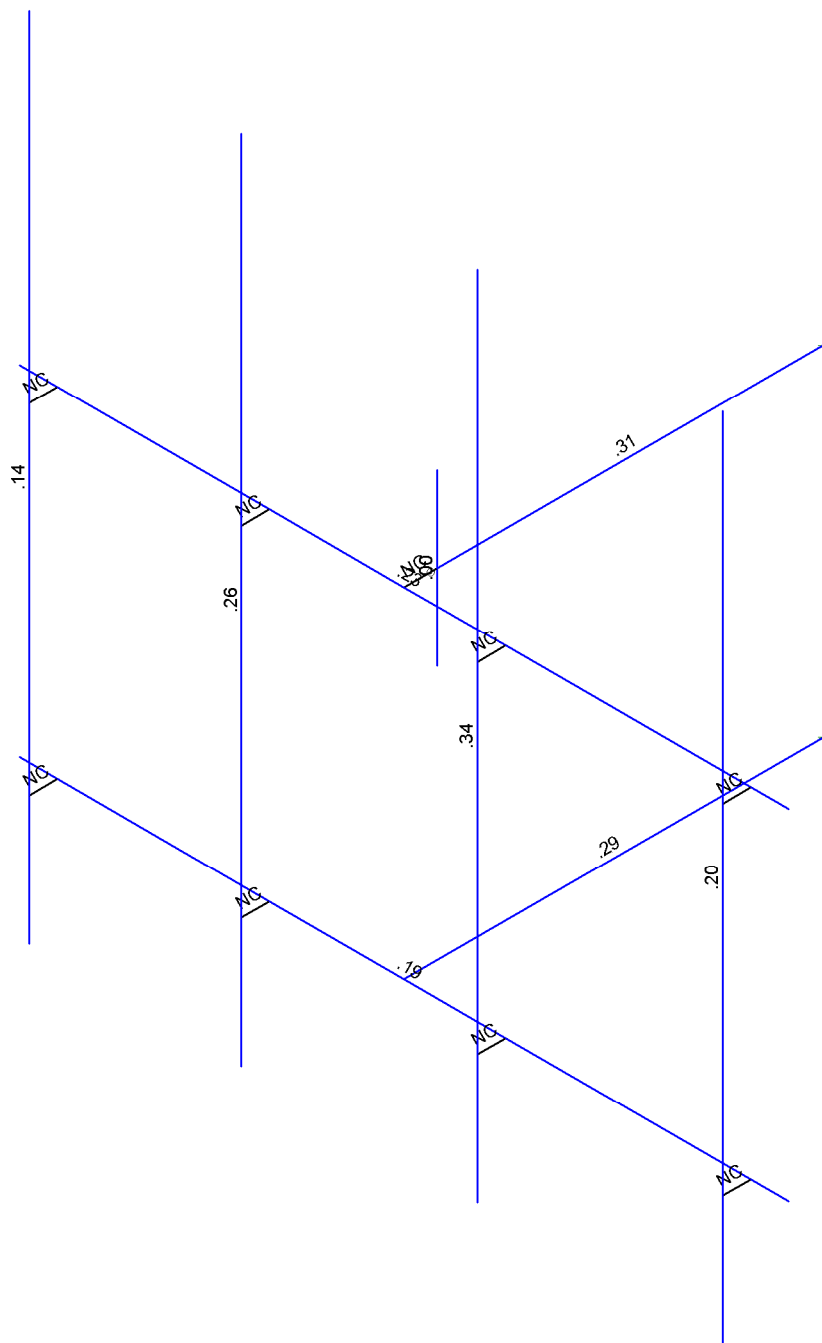
SK - 1

Dec 14, 2020 at 12:07 PM

468180-VZW_MT_LOT_A_H_MOD....



Code Check (Elev)	
Black	No Calc
Red	> 1.0
Yellow	90-1.0
Green	75-90
Cyan	50-75
Blue	0-50

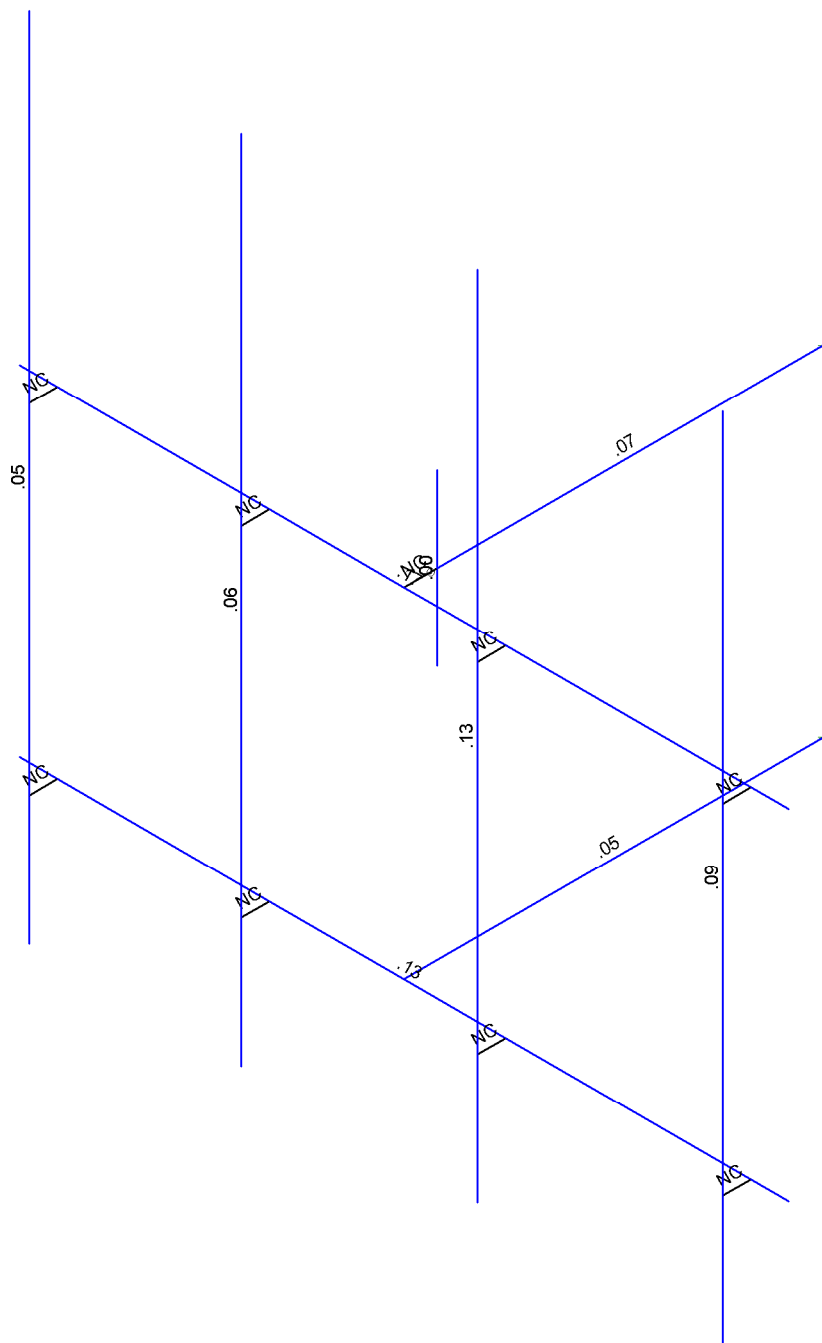


Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	468180-VZW_MT_LOT_SectorA_H	SK - 2
AE		Dec 14, 2020 at 12:08 PM
Project No. 10022557		468180-VZW_MT_LOT_A_H_MOD....



Shear Check (Elev)
No Calc
> 1.0
90-1.0
75-90
50-75
0-50



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	468180-VZW_MT_LOT_SectorA_H	SK - 3
AE		Dec 14, 2020 at 12:08 PM
Project No. 10022557		468180-VZW_MT_LOT_A_H_MOD....



Company : Maser Consulting
 Designer : AE
 Job Number : Project No. 10022557
 Model Name : 468180-VZW_MT_LOT_SectorA_H

Dec 14, 2020
 12:08 PM
 Checked By: GM

Basic Load Cases

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



Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(...
54	Structure Wi (30 Deg)	None						18	
55	Structure Wi (60 Deg)	None						18	
56	Structure Wi (90 Deg)	None						18	
57	Structure Wi (120 Deg)	None						18	
58	Structure Wi (150 Deg)	None						18	
59	Structure Wi (180 Deg)	None						18	
60	Structure Wi (210 Deg)	None						18	
61	Structure Wi (240 Deg)	None						18	
62	Structure Wi (270 Deg)	None						18	
63	Structure Wi (300 Deg)	None						18	
64	Structure Wi (330 Deg)	None						18	
65	Structure Wm (0 Deg)	None						18	
66	Structure Wm (30 Deg)	None						18	
67	Structure Wm (60 Deg)	None						18	
68	Structure Wm (90 Deg)	None						18	
69	Structure Wm (120 Deg)	None						18	
70	Structure Wm (150 Deg)	None						18	
71	Structure Wm (180 Deg)	None						18	
72	Structure Wm (210 Deg)	None						18	
73	Structure Wm (240 Deg)	None						18	
74	Structure Wm (270 Deg)	None						18	
75	Structure Wm (300 Deg)	None						18	
76	Structure Wm (330 Deg)	None						18	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		

Load Combinations

	Description	So...	P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
1	1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1							
2	1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1							
3	1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1							
4	1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1							
5	1.2D+1.0Wo (120 Deg)	Yes	Y		1	1.2	39	1.2	7	1	45	1							
6	1.2D+1.0Wo (150 Deg)	Yes	Y		1	1.2	39	1.2	8	1	46	1							
7	1.2D+1.0Wo (180 Deg)	Yes	Y		1	1.2	39	1.2	9	1	47	1							
8	1.2D+1.0Wo (210 Deg)	Yes	Y		1	1.2	39	1.2	10	1	48	1							
9	1.2D+1.0Wo (240 Deg)	Yes	Y		1	1.2	39	1.2	11	1	49	1							
10	1.2D+1.0Wo (270 Deg)	Yes	Y		1	1.2	39	1.2	12	1	50	1							
11	1.2D+1.0Wo (300 Deg)	Yes	Y		1	1.2	39	1.2	13	1	51	1							
12	1.2D+1.0Wo (330 Deg)	Yes	Y		1	1.2	39	1.2	14	1	52	1							
13	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1			
14	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1			
15	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1			
16	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1			
17	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1			
18	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1			
19	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1			
20	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1			
21	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1			
22	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1			
23	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1			
24	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1			
25	1.2D + 1.5Lm1 + 1.0W...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1					



Load Combinations (Continued)

Description	So...	P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
26	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1		
27	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1		
28	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1		
29	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1		
30	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1		
31	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1		
32	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1		
33	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1		
34	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1		
35	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1		
36	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1		
37	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1		
38	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1		
39	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1		
40	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1		
41	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1		
42	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1		
43	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1		
44	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1		
45	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1		
46	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1		
47	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1		
48	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1		
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5						
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5						
51	1.4D	Yes	Y	1	1.4	39	1.4								
52	Seismic Mass		Y	1	1	39	1								
53	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX		SY	1	SZ	-1		
54	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866		
55	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5		
56	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	1	SY	1	SZ			
57	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5		
58	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866		
59	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX		SY	1	SZ	1		
60	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866		
61	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5		
62	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-1	SY	1	SZ			
63	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5		
64	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866		

Joint Coordinates and Temperatures

Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	-1.510417	0
2	N2	0	0	1.90625	0
3	N3	0	-.75	1.90625	0
4	N4	0	.75	1.90625	0
5	N5	0	0	2.197917	0
6	N6	3.395833	0	2.197917	0
7	N7	-3.395833	0	2.197917	0
8	N15	-3.0625	0	2.197917	0
9	N16	-3.0625	0	2.447917	0
10	N17	-3.0625	3	2.447917	0
11	N18	-3.0625	-4.135417	2.447917	0
12	N21	0	-.375	1.90625	0
13	N16A	-1.1875	0	2.197917	0



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
14	N17A	-1.1875	0	2.447917	0	
15	N18A	-1.1875	3	2.447917	0	
16	N19	-1.1875	-4.135417	2.447917	0	
17	N24	0.895833	0	2.197917	0	
18	N25	0.895833	0	2.447917	0	
19	N26	0.895833	3	2.447917	0	
20	N27	0.895833	-4.135417	2.447917	0	
21	N28	3.0625	0	2.197917	0	
22	N29	3.0625	0	2.447917	0	
23	N30	3.0625	3	2.447917	0	
24	N31	3.0625	-4.135417	2.447917	0	
25	N25A	-3.0625	-0.56875	2.447917	0	
26	N26A	-3.0625	1.43125	2.447917	0	
27	N27A	-3.0625	-2.56875	2.447917	0	
28	N28A	-3.0625	0.43125	2.447917	0	
29	N29A	-3.0625	-1.56875	2.447917	0	
30	N30A	-1.1875	-1	2.447917	0	
31	N31A	-1.1875	2	2.447917	0	
32	N32	0	-3	-1.510417	0	
33	N33	0	-3	1.90625	0	
34	N34	0	-3	2.197917	0	
35	N35	3.395833	-3	2.197917	0	
36	N36	-3.395833	-3	2.197917	0	
37	N37	-3.0625	-3	2.197917	0	
38	N38	-3.0625	-3	2.447917	0	
39	N39	-1.1875	-3	2.197917	0	
40	N40	-1.1875	-3	2.447917	0	
41	N41	0.895833	-3	2.197917	0	
42	N42	0.895833	-3	2.447917	0	
43	N43	3.0625	-3	2.197917	0	
44	N44	3.0625	-3	2.447917	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Standoff Arm	HSS4X4X4	Beam	Tube	A500 Gr.46	Typical	3.37	7.8	7.8	12.8
3	Standoff Pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
4	Horizontal	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
5	Reinforcement Arm	HSS3X3X4	Column	Tube	A500 Gr.46	Typical	2.44	3.02	3.02	5.08

Hot Rolled Steel Properties

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

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M1	N1	N2			Standoff Arm	Beam	Tube	A500 Gr...	Typical
2	M2	N4	N3			Standoff Pipe	Column	Pipe	A53 Gr. B	Typical
3	M4	N7	N6			Horizontal	Column	Pipe	A53 Gr. B	Typical
4	MP4A	N17	N18			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
5	M10	N15	N16			RIGID	None	None	RIGID	Typical
6	M10A	N2	N5			RIGID	None	None	RIGID	Typical
7	MP3A	N18A	N19			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
8	M10B	N16A	N17A			RIGID	None	None	RIGID	Typical
9	MP2A	N26	N27			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
10	M14	N24	N25			RIGID	None	None	RIGID	Typical
11	MP1A	N30	N31			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
12	M16	N28	N29			RIGID	None	None	RIGID	Typical
13	M13	N32	N34			Reinforcement Arm	Column	Tube	A500 Gr...	Typical
14	M14A	N36	N35			Horizontal	Column	Pipe	A53 Gr. B	Typical
15	M15	N37	N38			RIGID	None	None	RIGID	Typical
16	M17	N39	N40			RIGID	None	None	RIGID	Typical
17	M18	N41	N42			RIGID	None	None	RIGID	Typical
18	M19	N43	N44			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M2						Yes	** NA **			None
3	M4						Yes	** NA **			None
4	MP4A						Yes	** NA **			None
5	M10						Yes	** NA **			None
6	M10A	OOOOXO					Yes	** NA **			None
7	MP3A						Yes	** NA **			None
8	M10B						Yes	** NA **			None
9	MP2A						Yes	** NA **			None
10	M14						Yes	** NA **			None
11	MP1A						Yes	** NA **			None
12	M16						Yes	** NA **			None
13	M13						Yes	** NA **			None
14	M14A						Yes	** NA **			None
15	M15						Yes	** NA **			None
16	M17						Yes	** NA **			None
17	M18						Yes	** NA **			None
18	M19						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Y	-43.55	2.57
2	MP1A	My	-.022	2.57
3	MP1A	Mz	0	2.57
4	MP1A	Y	-43.55	4.57
5	MP1A	My	-.022	4.57
6	MP1A	Mz	0	4.57
7	MP1A	Y	-26	3.56
8	MP1A	My	.024	3.56
9	MP1A	Mz	0	3.56
10	MP2A	Y	-20	1.57
11	MP2A	My	-.013	1.57



Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP2A	Mz	.017	1.57
13	MP2A	Y	-20	5.57
14	MP2A	My	-.013	5.57
15	MP2A	Mz	.017	5.57
16	MP2A	Y	-20	1.57
17	MP2A	My	-.013	1.57
18	MP2A	Mz	-.017	1.57
19	MP2A	Y	-20	5.57
20	MP2A	My	-.013	5.57
21	MP2A	Mz	-.017	5.57
22	MP3A	Y	-84.4	1
23	MP3A	My	.07	1
24	MP3A	Mz	0	1
25	MP3A	Y	-70.3	4
26	MP3A	My	.053	4
27	MP3A	Mz	0	4
28	MP4A	Y	-8.5	1.57
29	MP4A	My	-.004	1.57
30	MP4A	Mz	0	1.57
31	MP4A	Y	-8.5	5.57
32	MP4A	My	-.004	5.57
33	MP4A	Mz	0	5.57

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Y	-49.799	2.57
2	MP1A	My	-.025	2.57
3	MP1A	Mz	0	2.57
4	MP1A	Y	-49.799	4.57
5	MP1A	My	-.025	4.57
6	MP1A	Mz	0	4.57
7	MP1A	Y	-114.024	3.56
8	MP1A	My	.105	3.56
9	MP1A	Mz	0	3.56
10	MP2A	Y	-91.716	1.57
11	MP2A	My	-.061	1.57
12	MP2A	Mz	.076	1.57
13	MP2A	Y	-91.716	5.57
14	MP2A	My	-.061	5.57
15	MP2A	Mz	.076	5.57
16	MP2A	Y	-91.716	1.57
17	MP2A	My	-.061	1.57
18	MP2A	Mz	-.076	1.57
19	MP2A	Y	-91.716	5.57
20	MP2A	My	-.061	5.57
21	MP2A	Mz	-.076	5.57
22	MP3A	Y	-68.179	1
23	MP3A	My	.057	1
24	MP3A	Mz	0	1
25	MP3A	Y	-61.527	4
26	MP3A	My	.046	4
27	MP3A	Mz	0	4
28	MP4A	Y	-78.175	1.57
29	MP4A	My	-.033	1.57
30	MP4A	Mz	0	1.57
31	MP4A	Y	-78.175	5.57



Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
32	MP4A	My	-0.33	5.57
33	MP4A	Mz	0	5.57

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	0	2.57
2	MP1A	Z	-80.863	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	-80.863	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	-142.545	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	-153.452	1.57
12	MP2A	Mx	-.128	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	-153.452	5.57
15	MP2A	Mx	-.128	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	-153.452	1.57
18	MP2A	Mx	.128	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	-153.452	5.57
21	MP2A	Mx	.128	5.57
22	MP3A	X	0	1
23	MP3A	Z	-70.332	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	-70.332	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	-142.357	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	-142.357	5.57
33	MP4A	Mx	0	5.57

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	34.21	2.57
2	MP1A	Z	-59.253	2.57
3	MP1A	Mx	-.017	2.57
4	MP1A	X	34.21	4.57
5	MP1A	Z	-59.253	4.57
6	MP1A	Mx	-.017	4.57
7	MP1A	X	65.249	3.56
8	MP1A	Z	-113.014	3.56
9	MP1A	Mx	.06	3.56
10	MP2A	X	70.229	1.57
11	MP2A	Z	-121.641	1.57
12	MP2A	Mx	-.148	1.57
13	MP2A	X	70.229	5.57
14	MP2A	Z	-121.641	5.57
15	MP2A	Mx	-.148	5.57



Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
16	MP2A	X	70.229	1.57
17	MP2A	Z	-121.641	1.57
18	MP2A	Mx	.055	1.57
19	MP2A	X	70.229	5.57
20	MP2A	Z	-121.641	5.57
21	MP2A	Mx	.055	5.57
22	MP3A	X	32.251	1
23	MP3A	Z	-55.861	1
24	MP3A	Mx	.027	1
25	MP3A	X	31.135	4
26	MP3A	Z	-53.927	4
27	MP3A	Mx	.023	4
28	MP4A	X	63.158	1.57
29	MP4A	Z	-109.393	1.57
30	MP4A	Mx	-.026	1.57
31	MP4A	X	63.158	5.57
32	MP4A	Z	-109.393	5.57
33	MP4A	Mx	-.026	5.57

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	37.699	2.57
2	MP1A	Z	-21.765	2.57
3	MP1A	Mx	-.019	2.57
4	MP1A	X	37.699	4.57
5	MP1A	Z	-21.765	4.57
6	MP1A	Mx	-.019	4.57
7	MP1A	X	92.146	3.56
8	MP1A	Z	-53.201	3.56
9	MP1A	Mx	.084	3.56
10	MP2A	X	99.136	1.57
11	MP2A	Z	-57.236	1.57
12	MP2A	Mx	-.114	1.57
13	MP2A	X	99.136	5.57
14	MP2A	Z	-57.236	5.57
15	MP2A	Mx	-.114	5.57
16	MP2A	X	99.136	1.57
17	MP2A	Z	-57.236	1.57
18	MP2A	Mx	-.018	1.57
19	MP2A	X	99.136	5.57
20	MP2A	Z	-57.236	5.57
21	MP2A	Mx	-.018	5.57
22	MP3A	X	45.764	1
23	MP3A	Z	-26.422	1
24	MP3A	Mx	.038	1
25	MP3A	X	39.962	4
26	MP3A	Z	-23.072	4
27	MP3A	Mx	.03	4
28	MP4A	X	81.61	1.57
29	MP4A	Z	-47.118	1.57
30	MP4A	Mx	-.034	1.57
31	MP4A	X	81.61	5.57
32	MP4A	Z	-47.118	5.57
33	MP4A	Mx	-.034	5.57



Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	31.086	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	-.016	2.57
4	MP1A	X	31.086	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	-.016	4.57
7	MP1A	X	94.354	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	.086	3.56
10	MP2A	X	101.479	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	-.068	1.57
13	MP2A	X	101.479	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	-.068	5.57
16	MP2A	X	101.479	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	-.068	1.57
19	MP2A	X	101.479	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	-.068	5.57
22	MP3A	X	47.014	1
23	MP3A	Z	0	1
24	MP3A	Mx	.039	1
25	MP3A	X	38.081	4
26	MP3A	Z	0	4
27	MP3A	Mx	.029	4
28	MP4A	X	78.195	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	-.033	1.57
31	MP4A	X	78.195	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	-.033	5.57

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	37.699	2.57
2	MP1A	Z	21.765	2.57
3	MP1A	Mx	-.019	2.57
4	MP1A	X	37.699	4.57
5	MP1A	Z	21.765	4.57
6	MP1A	Mx	-.019	4.57
7	MP1A	X	92.146	3.56
8	MP1A	Z	53.201	3.56
9	MP1A	Mx	.084	3.56
10	MP2A	X	99.136	1.57
11	MP2A	Z	57.236	1.57
12	MP2A	Mx	-.018	1.57
13	MP2A	X	99.136	5.57
14	MP2A	Z	57.236	5.57
15	MP2A	Mx	-.018	5.57
16	MP2A	X	99.136	1.57
17	MP2A	Z	57.236	1.57
18	MP2A	Mx	-.114	1.57
19	MP2A	X	99.136	5.57
20	MP2A	Z	57.236	5.57



Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP2A	Mx	-.114	5.57
22	MP3A	X	45.764	1
23	MP3A	Z	26.422	1
24	MP3A	Mx	.038	1
25	MP3A	X	39.962	4
26	MP3A	Z	23.072	4
27	MP3A	Mx	.03	4
28	MP4A	X	81.61	1.57
29	MP4A	Z	47.118	1.57
30	MP4A	Mx	-.034	1.57
31	MP4A	X	81.61	5.57
32	MP4A	Z	47.118	5.57
33	MP4A	Mx	-.034	5.57

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	34.21	2.57
2	MP1A	Z	59.253	2.57
3	MP1A	Mx	-.017	2.57
4	MP1A	X	34.21	4.57
5	MP1A	Z	59.253	4.57
6	MP1A	Mx	-.017	4.57
7	MP1A	X	65.249	3.56
8	MP1A	Z	113.014	3.56
9	MP1A	Mx	.06	3.56
10	MP2A	X	70.229	1.57
11	MP2A	Z	121.641	1.57
12	MP2A	Mx	.055	1.57
13	MP2A	X	70.229	5.57
14	MP2A	Z	121.641	5.57
15	MP2A	Mx	.055	5.57
16	MP2A	X	70.229	1.57
17	MP2A	Z	121.641	1.57
18	MP2A	Mx	-.148	1.57
19	MP2A	X	70.229	5.57
20	MP2A	Z	121.641	5.57
21	MP2A	Mx	-.148	5.57
22	MP3A	X	32.251	1
23	MP3A	Z	55.861	1
24	MP3A	Mx	.027	1
25	MP3A	X	31.135	4
26	MP3A	Z	53.927	4
27	MP3A	Mx	.023	4
28	MP4A	X	63.158	1.57
29	MP4A	Z	109.393	1.57
30	MP4A	Mx	-.026	1.57
31	MP4A	X	63.158	5.57
32	MP4A	Z	109.393	5.57
33	MP4A	Mx	-.026	5.57

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	2.57
2	MP1A	Z	80.863	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57



Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
5	MP1A	Z	80.863	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	142.545	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	153.452	1.57
12	MP2A	Mx	.128	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	153.452	5.57
15	MP2A	Mx	.128	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	153.452	1.57
18	MP2A	Mx	-.128	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	153.452	5.57
21	MP2A	Mx	-.128	5.57
22	MP3A	X	0	1
23	MP3A	Z	70.332	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	70.332	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	142.357	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	142.357	5.57
33	MP4A	Mx	0	5.57

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-34.21	2.57
2	MP1A	Z	59.253	2.57
3	MP1A	Mx	.017	2.57
4	MP1A	X	-34.21	4.57
5	MP1A	Z	59.253	4.57
6	MP1A	Mx	.017	4.57
7	MP1A	X	-65.249	3.56
8	MP1A	Z	113.014	3.56
9	MP1A	Mx	-.06	3.56
10	MP2A	X	-70.229	1.57
11	MP2A	Z	121.641	1.57
12	MP2A	Mx	.148	1.57
13	MP2A	X	-70.229	5.57
14	MP2A	Z	121.641	5.57
15	MP2A	Mx	.148	5.57
16	MP2A	X	-70.229	1.57
17	MP2A	Z	121.641	1.57
18	MP2A	Mx	-.055	1.57
19	MP2A	X	-70.229	5.57
20	MP2A	Z	121.641	5.57
21	MP2A	Mx	-.055	5.57
22	MP3A	X	-32.251	1
23	MP3A	Z	55.861	1
24	MP3A	Mx	-.027	1



Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP3A	X	-31.135	4
26	MP3A	Z	53.927	4
27	MP3A	Mx	-.023	4
28	MP4A	X	-63.158	1.57
29	MP4A	Z	109.393	1.57
30	MP4A	Mx	.026	1.57
31	MP4A	X	-63.158	5.57
32	MP4A	Z	109.393	5.57
33	MP4A	Mx	.026	5.57

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-37.699	2.57
2	MP1A	Z	21.765	2.57
3	MP1A	Mx	.019	2.57
4	MP1A	X	-37.699	4.57
5	MP1A	Z	21.765	4.57
6	MP1A	Mx	.019	4.57
7	MP1A	X	-92.146	3.56
8	MP1A	Z	53.201	3.56
9	MP1A	Mx	-.084	3.56
10	MP2A	X	-99.136	1.57
11	MP2A	Z	57.236	1.57
12	MP2A	Mx	.114	1.57
13	MP2A	X	-99.136	5.57
14	MP2A	Z	57.236	5.57
15	MP2A	Mx	.114	5.57
16	MP2A	X	-99.136	1.57
17	MP2A	Z	57.236	1.57
18	MP2A	Mx	.018	1.57
19	MP2A	X	-99.136	5.57
20	MP2A	Z	57.236	5.57
21	MP2A	Mx	.018	5.57
22	MP3A	X	-45.764	1
23	MP3A	Z	26.422	1
24	MP3A	Mx	-.038	1
25	MP3A	X	-39.962	4
26	MP3A	Z	23.072	4
27	MP3A	Mx	-.03	4
28	MP4A	X	-81.61	1.57
29	MP4A	Z	47.118	1.57
30	MP4A	Mx	.034	1.57
31	MP4A	X	-81.61	5.57
32	MP4A	Z	47.118	5.57
33	MP4A	Mx	.034	5.57

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-31.086	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	.016	2.57
4	MP1A	X	-31.086	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	.016	4.57
7	MP1A	X	-94.354	3.56
8	MP1A	Z	0	3.56



Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP1A	Mx	-.086	3.56
10	MP2A	X	-101.479	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	.068	1.57
13	MP2A	X	-101.479	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	.068	5.57
16	MP2A	X	-101.479	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	.068	1.57
19	MP2A	X	-101.479	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	.068	5.57
22	MP3A	X	-47.014	1
23	MP3A	Z	0	1
24	MP3A	Mx	-.039	1
25	MP3A	X	-38.081	4
26	MP3A	Z	0	4
27	MP3A	Mx	-.029	4
28	MP4A	X	-78.195	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	.033	1.57
31	MP4A	X	-78.195	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	.033	5.57

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-37.699	2.57
2	MP1A	Z	-21.765	2.57
3	MP1A	Mx	.019	2.57
4	MP1A	X	-37.699	4.57
5	MP1A	Z	-21.765	4.57
6	MP1A	Mx	.019	4.57
7	MP1A	X	-92.146	3.56
8	MP1A	Z	-53.201	3.56
9	MP1A	Mx	-.084	3.56
10	MP2A	X	-99.136	1.57
11	MP2A	Z	-57.236	1.57
12	MP2A	Mx	.018	1.57
13	MP2A	X	-99.136	5.57
14	MP2A	Z	-57.236	5.57
15	MP2A	Mx	.018	5.57
16	MP2A	X	-99.136	1.57
17	MP2A	Z	-57.236	1.57
18	MP2A	Mx	.114	1.57
19	MP2A	X	-99.136	5.57
20	MP2A	Z	-57.236	5.57
21	MP2A	Mx	.114	5.57
22	MP3A	X	-45.764	1
23	MP3A	Z	-26.422	1
24	MP3A	Mx	-.038	1
25	MP3A	X	-39.962	4
26	MP3A	Z	-23.072	4
27	MP3A	Mx	-.03	4
28	MP4A	X	-81.61	1.57



Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	-47.118	1.57
30	MP4A	Mx	.034	1.57
31	MP4A	X	-81.61	5.57
32	MP4A	Z	-47.118	5.57
33	MP4A	Mx	.034	5.57

Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-34.21	2.57
2	MP1A	Z	-59.253	2.57
3	MP1A	Mx	.017	2.57
4	MP1A	X	-34.21	4.57
5	MP1A	Z	-59.253	4.57
6	MP1A	Mx	.017	4.57
7	MP1A	X	-65.249	3.56
8	MP1A	Z	-113.014	3.56
9	MP1A	Mx	-.06	3.56
10	MP2A	X	-70.229	1.57
11	MP2A	Z	-121.641	1.57
12	MP2A	Mx	-.055	1.57
13	MP2A	X	-70.229	5.57
14	MP2A	Z	-121.641	5.57
15	MP2A	Mx	-.055	5.57
16	MP2A	X	-70.229	1.57
17	MP2A	Z	-121.641	1.57
18	MP2A	Mx	.148	1.57
19	MP2A	X	-70.229	5.57
20	MP2A	Z	-121.641	5.57
21	MP2A	Mx	.148	5.57
22	MP3A	X	-32.251	1
23	MP3A	Z	-55.861	1
24	MP3A	Mx	-.027	1
25	MP3A	X	-31.135	4
26	MP3A	Z	-53.927	4
27	MP3A	Mx	-.023	4
28	MP4A	X	-63.158	1.57
29	MP4A	Z	-109.393	1.57
30	MP4A	Mx	.026	1.57
31	MP4A	X	-63.158	5.57
32	MP4A	Z	-109.393	5.57
33	MP4A	Mx	.026	5.57

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	2.57
2	MP1A	Z	-17.343	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	-17.343	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	-30.745	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	-31.704	1.57
12	MP2A	Mx	-.026	1.57



Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP2A	X	0	5.57
14	MP2A	Z	-31.704	5.57
15	MP2A	Mx	-.026	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	-31.704	1.57
18	MP2A	Mx	.026	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	-31.704	5.57
21	MP2A	Mx	.026	5.57
22	MP3A	X	0	1
23	MP3A	Z	-16.286	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	-16.286	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	-29.584	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	-29.584	5.57
33	MP4A	Mx	0	5.57

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	7.451	2.57
2	MP1A	Z	-12.906	2.57
3	MP1A	Mx	-.004	2.57
4	MP1A	X	7.451	4.57
5	MP1A	Z	-12.906	4.57
6	MP1A	Mx	-.004	4.57
7	MP1A	X	14.201	3.56
8	MP1A	Z	-24.598	3.56
9	MP1A	Mx	.013	3.56
10	MP2A	X	14.669	1.57
11	MP2A	Z	-25.407	1.57
12	MP2A	Mx	-.031	1.57
13	MP2A	X	14.669	5.57
14	MP2A	Z	-25.407	5.57
15	MP2A	Mx	-.031	5.57
16	MP2A	X	14.669	1.57
17	MP2A	Z	-25.407	1.57
18	MP2A	Mx	.011	1.57
19	MP2A	X	14.669	5.57
20	MP2A	Z	-25.407	5.57
21	MP2A	Mx	.011	5.57
22	MP3A	X	7.547	1
23	MP3A	Z	-13.072	1
24	MP3A	Mx	.006	1
25	MP3A	X	7.321	4
26	MP3A	Z	-12.68	4
27	MP3A	Mx	.005	4
28	MP4A	X	13.319	1.57
29	MP4A	Z	-23.069	1.57
30	MP4A	Mx	-.006	1.57
31	MP4A	X	13.319	5.57
32	MP4A	Z	-23.069	5.57



Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
33	MP4A	Mx	-0.06	5.57

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	8.678	2.57
2	MP1A	Z	-5.01	2.57
3	MP1A	Mx	-0.04	2.57
4	MP1A	X	8.678	4.57
5	MP1A	Z	-5.01	4.57
6	MP1A	Mx	-0.04	4.57
7	MP1A	X	20.541	3.56
8	MP1A	Z	-11.859	3.56
9	MP1A	Mx	.019	3.56
10	MP2A	X	21.309	1.57
11	MP2A	Z	-12.303	1.57
12	MP2A	Mx	-0.24	1.57
13	MP2A	X	21.309	5.57
14	MP2A	Z	-12.303	5.57
15	MP2A	Mx	-0.24	5.57
16	MP2A	X	21.309	1.57
17	MP2A	Z	-12.303	1.57
18	MP2A	Mx	-0.04	1.57
19	MP2A	X	21.309	5.57
20	MP2A	Z	-12.303	5.57
21	MP2A	Mx	-0.04	5.57
22	MP3A	X	11.009	1
23	MP3A	Z	-6.356	1
24	MP3A	Mx	.009	1
25	MP3A	X	9.833	4
26	MP3A	Z	-5.677	4
27	MP3A	Mx	.007	4
28	MP4A	X	17.965	1.57
29	MP4A	Z	-10.372	1.57
30	MP4A	Mx	-0.07	1.57
31	MP4A	X	17.965	5.57
32	MP4A	Z	-10.372	5.57
33	MP4A	Mx	-0.07	5.57

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	7.579	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	-0.04	2.57
4	MP1A	X	7.579	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	-0.04	4.57
7	MP1A	X	21.376	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	.02	3.56
10	MP2A	X	22.239	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	-0.15	1.57
13	MP2A	X	22.239	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	-0.15	5.57
16	MP2A	X	22.239	1.57



Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
17	MP2A	Z	0	1.57
18	MP2A	Mx	-.015	1.57
19	MP2A	X	22.239	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	-.015	5.57
22	MP3A	X	11.521	1
23	MP3A	Z	0	1
24	MP3A	Mx	.01	1
25	MP3A	X	9.711	4
26	MP3A	Z	0	4
27	MP3A	Mx	.007	4
28	MP4A	X	17.798	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	-.007	1.57
31	MP4A	X	17.798	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	-.007	5.57

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	8.678	2.57
2	MP1A	Z	5.01	2.57
3	MP1A	Mx	-.004	2.57
4	MP1A	X	8.678	4.57
5	MP1A	Z	5.01	4.57
6	MP1A	Mx	-.004	4.57
7	MP1A	X	20.541	3.56
8	MP1A	Z	11.859	3.56
9	MP1A	Mx	.019	3.56
10	MP2A	X	21.309	1.57
11	MP2A	Z	12.303	1.57
12	MP2A	Mx	-.004	1.57
13	MP2A	X	21.309	5.57
14	MP2A	Z	12.303	5.57
15	MP2A	Mx	-.004	5.57
16	MP2A	X	21.309	1.57
17	MP2A	Z	12.303	1.57
18	MP2A	Mx	-.024	1.57
19	MP2A	X	21.309	5.57
20	MP2A	Z	12.303	5.57
21	MP2A	Mx	-.024	5.57
22	MP3A	X	11.009	1
23	MP3A	Z	6.356	1
24	MP3A	Mx	.009	1
25	MP3A	X	9.833	4
26	MP3A	Z	5.677	4
27	MP3A	Mx	.007	4
28	MP4A	X	17.965	1.57
29	MP4A	Z	10.372	1.57
30	MP4A	Mx	-.007	1.57
31	MP4A	X	17.965	5.57
32	MP4A	Z	10.372	5.57
33	MP4A	Mx	-.007	5.57

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	7.451	2.57
2	MP1A	Z	12.906	2.57
3	MP1A	Mx	-.004	2.57
4	MP1A	X	7.451	4.57
5	MP1A	Z	12.906	4.57
6	MP1A	Mx	-.004	4.57
7	MP1A	X	14.201	3.56
8	MP1A	Z	24.598	3.56
9	MP1A	Mx	.013	3.56
10	MP2A	X	14.669	1.57
11	MP2A	Z	25.407	1.57
12	MP2A	Mx	.011	1.57
13	MP2A	X	14.669	5.57
14	MP2A	Z	25.407	5.57
15	MP2A	Mx	.011	5.57
16	MP2A	X	14.669	1.57
17	MP2A	Z	25.407	1.57
18	MP2A	Mx	-.031	1.57
19	MP2A	X	14.669	5.57
20	MP2A	Z	25.407	5.57
21	MP2A	Mx	-.031	5.57
22	MP3A	X	7.547	1
23	MP3A	Z	13.072	1
24	MP3A	Mx	.006	1
25	MP3A	X	7.321	4
26	MP3A	Z	12.68	4
27	MP3A	Mx	.005	4
28	MP4A	X	13.319	1.57
29	MP4A	Z	23.069	1.57
30	MP4A	Mx	-.006	1.57
31	MP4A	X	13.319	5.57
32	MP4A	Z	23.069	5.57
33	MP4A	Mx	-.006	5.57

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	2.57
2	MP1A	Z	17.343	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	17.343	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	30.745	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	31.704	1.57
12	MP2A	Mx	.026	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	31.704	5.57
15	MP2A	Mx	.026	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	31.704	1.57
18	MP2A	Mx	-.026	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	31.704	5.57



Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP2A	Mx	-.026	5.57
22	MP3A	X	0	1
23	MP3A	Z	16.286	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	16.286	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	29.584	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	29.584	5.57
33	MP4A	Mx	0	5.57

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-7.451	2.57
2	MP1A	Z	12.906	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	X	-7.451	4.57
5	MP1A	Z	12.906	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	X	-14.201	3.56
8	MP1A	Z	24.598	3.56
9	MP1A	Mx	-.013	3.56
10	MP2A	X	-14.669	1.57
11	MP2A	Z	25.407	1.57
12	MP2A	Mx	.031	1.57
13	MP2A	X	-14.669	5.57
14	MP2A	Z	25.407	5.57
15	MP2A	Mx	.031	5.57
16	MP2A	X	-14.669	1.57
17	MP2A	Z	25.407	1.57
18	MP2A	Mx	-.011	1.57
19	MP2A	X	-14.669	5.57
20	MP2A	Z	25.407	5.57
21	MP2A	Mx	-.011	5.57
22	MP3A	X	-7.547	1
23	MP3A	Z	13.072	1
24	MP3A	Mx	-.006	1
25	MP3A	X	-7.321	4
26	MP3A	Z	12.68	4
27	MP3A	Mx	-.005	4
28	MP4A	X	-13.319	1.57
29	MP4A	Z	23.069	1.57
30	MP4A	Mx	.006	1.57
31	MP4A	X	-13.319	5.57
32	MP4A	Z	23.069	5.57
33	MP4A	Mx	.006	5.57

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-8.678	2.57
2	MP1A	Z	5.01	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	X	-8.678	4.57



Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP1A	Z	5.01	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	X	-20.541	3.56
8	MP1A	Z	11.859	3.56
9	MP1A	Mx	-.019	3.56
10	MP2A	X	-21.309	1.57
11	MP2A	Z	12.303	1.57
12	MP2A	Mx	.024	1.57
13	MP2A	X	-21.309	5.57
14	MP2A	Z	12.303	5.57
15	MP2A	Mx	.024	5.57
16	MP2A	X	-21.309	1.57
17	MP2A	Z	12.303	1.57
18	MP2A	Mx	.004	1.57
19	MP2A	X	-21.309	5.57
20	MP2A	Z	12.303	5.57
21	MP2A	Mx	.004	5.57
22	MP3A	X	-11.009	1
23	MP3A	Z	6.356	1
24	MP3A	Mx	-.009	1
25	MP3A	X	-9.833	4
26	MP3A	Z	5.677	4
27	MP3A	Mx	-.007	4
28	MP4A	X	-17.965	1.57
29	MP4A	Z	10.372	1.57
30	MP4A	Mx	.007	1.57
31	MP4A	X	-17.965	5.57
32	MP4A	Z	10.372	5.57
33	MP4A	Mx	.007	5.57

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-7.579	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	X	-7.579	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	X	-21.376	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	-.02	3.56
10	MP2A	X	-22.239	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	.015	1.57
13	MP2A	X	-22.239	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	.015	5.57
16	MP2A	X	-22.239	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	.015	1.57
19	MP2A	X	-22.239	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	.015	5.57
22	MP3A	X	-11.521	1
23	MP3A	Z	0	1
24	MP3A	Mx	-.01	1



Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP3A	X	-9.711	4
26	MP3A	Z	0	4
27	MP3A	Mx	-.007	4
28	MP4A	X	-17.798	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	.007	1.57
31	MP4A	X	-17.798	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	.007	5.57

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-8.678	2.57
2	MP1A	Z	-5.01	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	X	-8.678	4.57
5	MP1A	Z	-5.01	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	X	-20.541	3.56
8	MP1A	Z	-11.859	3.56
9	MP1A	Mx	-.019	3.56
10	MP2A	X	-21.309	1.57
11	MP2A	Z	-12.303	1.57
12	MP2A	Mx	.004	1.57
13	MP2A	X	-21.309	5.57
14	MP2A	Z	-12.303	5.57
15	MP2A	Mx	.004	5.57
16	MP2A	X	-21.309	1.57
17	MP2A	Z	-12.303	1.57
18	MP2A	Mx	.024	1.57
19	MP2A	X	-21.309	5.57
20	MP2A	Z	-12.303	5.57
21	MP2A	Mx	.024	5.57
22	MP3A	X	-11.009	1
23	MP3A	Z	-6.356	1
24	MP3A	Mx	-.009	1
25	MP3A	X	-9.833	4
26	MP3A	Z	-5.677	4
27	MP3A	Mx	-.007	4
28	MP4A	X	-17.965	1.57
29	MP4A	Z	-10.372	1.57
30	MP4A	Mx	.007	1.57
31	MP4A	X	-17.965	5.57
32	MP4A	Z	-10.372	5.57
33	MP4A	Mx	.007	5.57

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-7.451	2.57
2	MP1A	Z	-12.906	2.57
3	MP1A	Mx	.004	2.57
4	MP1A	X	-7.451	4.57
5	MP1A	Z	-12.906	4.57
6	MP1A	Mx	.004	4.57
7	MP1A	X	-14.201	3.56
8	MP1A	Z	-24.598	3.56



Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP1A	Mx	-.013	3.56
10	MP2A	X	-14.669	1.57
11	MP2A	Z	-25.407	1.57
12	MP2A	Mx	-.011	1.57
13	MP2A	X	-14.669	5.57
14	MP2A	Z	-25.407	5.57
15	MP2A	Mx	-.011	5.57
16	MP2A	X	-14.669	1.57
17	MP2A	Z	-25.407	1.57
18	MP2A	Mx	.031	1.57
19	MP2A	X	-14.669	5.57
20	MP2A	Z	-25.407	5.57
21	MP2A	Mx	.031	5.57
22	MP3A	X	-7.547	1
23	MP3A	Z	-13.072	1
24	MP3A	Mx	-.006	1
25	MP3A	X	-7.321	4
26	MP3A	Z	-12.68	4
27	MP3A	Mx	-.005	4
28	MP4A	X	-13.319	1.57
29	MP4A	Z	-23.069	1.57
30	MP4A	Mx	.006	1.57
31	MP4A	X	-13.319	5.57
32	MP4A	Z	-23.069	5.57
33	MP4A	Mx	.006	5.57

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	2.57
2	MP1A	Z	-5.227	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	-5.227	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	-9.214	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	-9.919	1.57
12	MP2A	Mx	-.008	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	-9.919	5.57
15	MP2A	Mx	-.008	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	-9.919	1.57
18	MP2A	Mx	.008	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	-9.919	5.57
21	MP2A	Mx	.008	5.57
22	MP3A	X	0	1
23	MP3A	Z	-4.546	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	-4.546	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57



Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
29	MP4A	Z	-9.201	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	-9.201	5.57
33	MP4A	Mx	0	5.57

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.211	2.57
2	MP1A	Z	-3.83	2.57
3	MP1A	Mx	-.001	2.57
4	MP1A	X	2.211	4.57
5	MP1A	Z	-3.83	4.57
6	MP1A	Mx	-.001	4.57
7	MP1A	X	4.217	3.56
8	MP1A	Z	-7.305	3.56
9	MP1A	Mx	.004	3.56
10	MP2A	X	4.539	1.57
11	MP2A	Z	-7.862	1.57
12	MP2A	Mx	-.01	1.57
13	MP2A	X	4.539	5.57
14	MP2A	Z	-7.862	5.57
15	MP2A	Mx	-.01	5.57
16	MP2A	X	4.539	1.57
17	MP2A	Z	-7.862	1.57
18	MP2A	Mx	.004	1.57
19	MP2A	X	4.539	5.57
20	MP2A	Z	-7.862	5.57
21	MP2A	Mx	.004	5.57
22	MP3A	X	2.085	1
23	MP3A	Z	-3.611	1
24	MP3A	Mx	.002	1
25	MP3A	X	2.012	4
26	MP3A	Z	-3.486	4
27	MP3A	Mx	.002	4
28	MP4A	X	4.082	1.57
29	MP4A	Z	-7.071	1.57
30	MP4A	Mx	-.002	1.57
31	MP4A	X	4.082	5.57
32	MP4A	Z	-7.071	5.57
33	MP4A	Mx	-.002	5.57

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.437	2.57
2	MP1A	Z	-1.407	2.57
3	MP1A	Mx	-.001	2.57
4	MP1A	X	2.437	4.57
5	MP1A	Z	-1.407	4.57
6	MP1A	Mx	-.001	4.57
7	MP1A	X	5.956	3.56
8	MP1A	Z	-3.439	3.56
9	MP1A	Mx	.005	3.56
10	MP2A	X	6.408	1.57
11	MP2A	Z	-3.7	1.57
12	MP2A	Mx	-.007	1.57



Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
13	MP2A	X	6.408	5.57
14	MP2A	Z	-3.7	5.57
15	MP2A	Mx	-.007	5.57
16	MP2A	X	6.408	1.57
17	MP2A	Z	-3.7	1.57
18	MP2A	Mx	-.001	1.57
19	MP2A	X	6.408	5.57
20	MP2A	Z	-3.7	5.57
21	MP2A	Mx	-.001	5.57
22	MP3A	X	2.958	1
23	MP3A	Z	-1.708	1
24	MP3A	Mx	.002	1
25	MP3A	X	2.583	4
26	MP3A	Z	-1.491	4
27	MP3A	Mx	.002	4
28	MP4A	X	5.275	1.57
29	MP4A	Z	-3.046	1.57
30	MP4A	Mx	-.002	1.57
31	MP4A	X	5.275	5.57
32	MP4A	Z	-3.046	5.57
33	MP4A	Mx	-.002	5.57

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.009	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	-.001	2.57
4	MP1A	X	2.009	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	-.001	4.57
7	MP1A	X	6.099	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	.006	3.56
10	MP2A	X	6.559	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	-.004	1.57
13	MP2A	X	6.559	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	-.004	5.57
16	MP2A	X	6.559	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	-.004	1.57
19	MP2A	X	6.559	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	-.004	5.57
22	MP3A	X	3.039	1
23	MP3A	Z	0	1
24	MP3A	Mx	.003	1
25	MP3A	X	2.461	4
26	MP3A	Z	0	4
27	MP3A	Mx	.002	4
28	MP4A	X	5.054	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	-.002	1.57
31	MP4A	X	5.054	5.57
32	MP4A	Z	0	5.57



Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
33	MP4A	Mx	-.002	5.57

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.437	2.57
2	MP1A	Z	1.407	2.57
3	MP1A	Mx	-.001	2.57
4	MP1A	X	2.437	4.57
5	MP1A	Z	1.407	4.57
6	MP1A	Mx	-.001	4.57
7	MP1A	X	5.956	3.56
8	MP1A	Z	3.439	3.56
9	MP1A	Mx	.005	3.56
10	MP2A	X	6.408	1.57
11	MP2A	Z	3.7	1.57
12	MP2A	Mx	-.001	1.57
13	MP2A	X	6.408	5.57
14	MP2A	Z	3.7	5.57
15	MP2A	Mx	-.001	5.57
16	MP2A	X	6.408	1.57
17	MP2A	Z	3.7	1.57
18	MP2A	Mx	-.007	1.57
19	MP2A	X	6.408	5.57
20	MP2A	Z	3.7	5.57
21	MP2A	Mx	-.007	5.57
22	MP3A	X	2.958	1
23	MP3A	Z	1.708	1
24	MP3A	Mx	.002	1
25	MP3A	X	2.583	4
26	MP3A	Z	1.491	4
27	MP3A	Mx	.002	4
28	MP4A	X	5.275	1.57
29	MP4A	Z	3.046	1.57
30	MP4A	Mx	-.002	1.57
31	MP4A	X	5.275	5.57
32	MP4A	Z	3.046	5.57
33	MP4A	Mx	-.002	5.57

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	2.211	2.57
2	MP1A	Z	3.83	2.57
3	MP1A	Mx	-.001	2.57
4	MP1A	X	2.211	4.57
5	MP1A	Z	3.83	4.57
6	MP1A	Mx	-.001	4.57
7	MP1A	X	4.217	3.56
8	MP1A	Z	7.305	3.56
9	MP1A	Mx	.004	3.56
10	MP2A	X	4.539	1.57
11	MP2A	Z	7.862	1.57
12	MP2A	Mx	.004	1.57
13	MP2A	X	4.539	5.57
14	MP2A	Z	7.862	5.57
15	MP2A	Mx	.004	5.57
16	MP2A	X	4.539	1.57



Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2A	Z	7.862	1.57
18	MP2A	Mx	-.01	1.57
19	MP2A	X	4.539	5.57
20	MP2A	Z	7.862	5.57
21	MP2A	Mx	-.01	5.57
22	MP3A	X	2.085	1
23	MP3A	Z	3.611	1
24	MP3A	Mx	.002	1
25	MP3A	X	2.012	4
26	MP3A	Z	3.486	4
27	MP3A	Mx	.002	4
28	MP4A	X	4.082	1.57
29	MP4A	Z	7.071	1.57
30	MP4A	Mx	-.002	1.57
31	MP4A	X	4.082	5.57
32	MP4A	Z	7.071	5.57
33	MP4A	Mx	-.002	5.57

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	0	2.57
2	MP1A	Z	5.227	2.57
3	MP1A	Mx	0	2.57
4	MP1A	X	0	4.57
5	MP1A	Z	5.227	4.57
6	MP1A	Mx	0	4.57
7	MP1A	X	0	3.56
8	MP1A	Z	9.214	3.56
9	MP1A	Mx	0	3.56
10	MP2A	X	0	1.57
11	MP2A	Z	9.919	1.57
12	MP2A	Mx	.008	1.57
13	MP2A	X	0	5.57
14	MP2A	Z	9.919	5.57
15	MP2A	Mx	.008	5.57
16	MP2A	X	0	1.57
17	MP2A	Z	9.919	1.57
18	MP2A	Mx	-.008	1.57
19	MP2A	X	0	5.57
20	MP2A	Z	9.919	5.57
21	MP2A	Mx	-.008	5.57
22	MP3A	X	0	1
23	MP3A	Z	4.546	1
24	MP3A	Mx	0	1
25	MP3A	X	0	4
26	MP3A	Z	4.546	4
27	MP3A	Mx	0	4
28	MP4A	X	0	1.57
29	MP4A	Z	9.201	1.57
30	MP4A	Mx	0	1.57
31	MP4A	X	0	5.57
32	MP4A	Z	9.201	5.57
33	MP4A	Mx	0	5.57

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-2.211	2.57
2	MP1A	Z	3.83	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	X	-2.211	4.57
5	MP1A	Z	3.83	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	X	-4.217	3.56
8	MP1A	Z	7.305	3.56
9	MP1A	Mx	-.004	3.56
10	MP2A	X	-4.539	1.57
11	MP2A	Z	7.862	1.57
12	MP2A	Mx	.01	1.57
13	MP2A	X	-4.539	5.57
14	MP2A	Z	7.862	5.57
15	MP2A	Mx	.01	5.57
16	MP2A	X	-4.539	1.57
17	MP2A	Z	7.862	1.57
18	MP2A	Mx	-.004	1.57
19	MP2A	X	-4.539	5.57
20	MP2A	Z	7.862	5.57
21	MP2A	Mx	-.004	5.57
22	MP3A	X	-2.085	1
23	MP3A	Z	3.611	1
24	MP3A	Mx	-.002	1
25	MP3A	X	-2.012	4
26	MP3A	Z	3.486	4
27	MP3A	Mx	-.002	4
28	MP4A	X	-4.082	1.57
29	MP4A	Z	7.071	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-4.082	5.57
32	MP4A	Z	7.071	5.57
33	MP4A	Mx	.002	5.57

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-2.437	2.57
2	MP1A	Z	1.407	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	X	-2.437	4.57
5	MP1A	Z	1.407	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	X	-5.956	3.56
8	MP1A	Z	3.439	3.56
9	MP1A	Mx	-.005	3.56
10	MP2A	X	-6.408	1.57
11	MP2A	Z	3.7	1.57
12	MP2A	Mx	.007	1.57
13	MP2A	X	-6.408	5.57
14	MP2A	Z	3.7	5.57
15	MP2A	Mx	.007	5.57
16	MP2A	X	-6.408	1.57
17	MP2A	Z	3.7	1.57
18	MP2A	Mx	.001	1.57
19	MP2A	X	-6.408	5.57
20	MP2A	Z	3.7	5.57



Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
21	MP2A	Mx	.001	5.57
22	MP3A	X	-2.958	1
23	MP3A	Z	1.708	1
24	MP3A	Mx	-.002	1
25	MP3A	X	-2.583	4
26	MP3A	Z	1.491	4
27	MP3A	Mx	-.002	4
28	MP4A	X	-5.275	1.57
29	MP4A	Z	3.046	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-5.275	5.57
32	MP4A	Z	3.046	5.57
33	MP4A	Mx	.002	5.57

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-2.009	2.57
2	MP1A	Z	0	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	X	-2.009	4.57
5	MP1A	Z	0	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	X	-6.099	3.56
8	MP1A	Z	0	3.56
9	MP1A	Mx	-.006	3.56
10	MP2A	X	-6.559	1.57
11	MP2A	Z	0	1.57
12	MP2A	Mx	.004	1.57
13	MP2A	X	-6.559	5.57
14	MP2A	Z	0	5.57
15	MP2A	Mx	.004	5.57
16	MP2A	X	-6.559	1.57
17	MP2A	Z	0	1.57
18	MP2A	Mx	.004	1.57
19	MP2A	X	-6.559	5.57
20	MP2A	Z	0	5.57
21	MP2A	Mx	.004	5.57
22	MP3A	X	-3.039	1
23	MP3A	Z	0	1
24	MP3A	Mx	-.003	1
25	MP3A	X	-2.461	4
26	MP3A	Z	0	4
27	MP3A	Mx	-.002	4
28	MP4A	X	-5.054	1.57
29	MP4A	Z	0	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-5.054	5.57
32	MP4A	Z	0	5.57
33	MP4A	Mx	.002	5.57

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-2.437	2.57
2	MP1A	Z	-1.407	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	X	-2.437	4.57



Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP1A	Z	-1.407	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	X	-5.956	3.56
8	MP1A	Z	-3.439	3.56
9	MP1A	Mx	-.005	3.56
10	MP2A	X	-6.408	1.57
11	MP2A	Z	-3.7	1.57
12	MP2A	Mx	.001	1.57
13	MP2A	X	-6.408	5.57
14	MP2A	Z	-3.7	5.57
15	MP2A	Mx	.001	5.57
16	MP2A	X	-6.408	1.57
17	MP2A	Z	-3.7	1.57
18	MP2A	Mx	.007	1.57
19	MP2A	X	-6.408	5.57
20	MP2A	Z	-3.7	5.57
21	MP2A	Mx	.007	5.57
22	MP3A	X	-2.958	1
23	MP3A	Z	-1.708	1
24	MP3A	Mx	-.002	1
25	MP3A	X	-2.583	4
26	MP3A	Z	-1.491	4
27	MP3A	Mx	-.002	4
28	MP4A	X	-5.275	1.57
29	MP4A	Z	-3.046	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-5.275	5.57
32	MP4A	Z	-3.046	5.57
33	MP4A	Mx	.002	5.57

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-2.211	2.57
2	MP1A	Z	-3.83	2.57
3	MP1A	Mx	.001	2.57
4	MP1A	X	-2.211	4.57
5	MP1A	Z	-3.83	4.57
6	MP1A	Mx	.001	4.57
7	MP1A	X	-4.217	3.56
8	MP1A	Z	-7.305	3.56
9	MP1A	Mx	-.004	3.56
10	MP2A	X	-4.539	1.57
11	MP2A	Z	-7.862	1.57
12	MP2A	Mx	-.004	1.57
13	MP2A	X	-4.539	5.57
14	MP2A	Z	-7.862	5.57
15	MP2A	Mx	-.004	5.57
16	MP2A	X	-4.539	1.57
17	MP2A	Z	-7.862	1.57
18	MP2A	Mx	.01	1.57
19	MP2A	X	-4.539	5.57
20	MP2A	Z	-7.862	5.57
21	MP2A	Mx	.01	5.57
22	MP3A	X	-2.085	1
23	MP3A	Z	-3.611	1
24	MP3A	Mx	-.002	1

Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP3A	X	-2.012	4
26	MP3A	Z	-3.486	4
27	MP3A	Mx	-.002	4
28	MP4A	X	-4.082	1.57
29	MP4A	Z	-7.071	1.57
30	MP4A	Mx	.002	1.57
31	MP4A	X	-4.082	5.57
32	MP4A	Z	-7.071	5.57
33	MP4A	Mx	.002	5.57

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M14A	Y	-500	%63

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M14A	Y	-500	%33

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M14A	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M14A	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-14.805	-14.805	0	%100
2	M2	Y	-10.439	-10.439	0	%100
3	M4	Y	-10.439	-10.439	0	%100
4	MP4A	Y	-8.162	-8.162	0	%100
5	MP3A	Y	-8.162	-8.162	0	%100
6	MP2A	Y	-8.162	-8.162	0	%100
7	MP1A	Y	-8.162	-8.162	0	%100
8	M13	Y	-11.943	-11.943	0	%100
9	M14A	Y	-10.439	-10.439	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-7.451	-7.451	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	-12.746	-12.746	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-7.774	-7.774	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-7.774	-7.774	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-7.774	-7.774	0	%100
13	MP1A	X	0	0	0	%100



Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
14	MP1A	Z	-7.774	-7.774	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	-12.746	-12.746	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	1.509	1.509	0	%100
2	M1	Z	-2.614	-2.614	0	%100
3	M2	X	3.834	3.834	0	%100
4	M2	Z	-6.641	-6.641	0	%100
5	M4	X	4.78	4.78	0	%100
6	M4	Z	-8.279	-8.279	0	%100
7	MP4A	X	4.032	4.032	0	%100
8	MP4A	Z	-6.983	-6.983	0	%100
9	MP3A	X	4.032	4.032	0	%100
10	MP3A	Z	-6.983	-6.983	0	%100
11	MP2A	X	4.032	4.032	0	%100
12	MP2A	Z	-6.983	-6.983	0	%100
13	MP1A	X	4.032	4.032	0	%100
14	MP1A	Z	-6.983	-6.983	0	%100
15	M13	X	1.237	1.237	0	%100
16	M13	Z	-2.142	-2.142	0	%100
17	M14A	X	4.78	4.78	0	%100
18	M14A	Z	-8.279	-8.279	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	7.843	7.843	0	%100
2	M1	Z	-4.528	-4.528	0	%100
3	M2	X	7.019	7.019	0	%100
4	M2	Z	-4.053	-4.053	0	%100
5	M4	X	2.76	2.76	0	%100
6	M4	Z	-1.593	-1.593	0	%100
7	MP4A	X	7.485	7.485	0	%100
8	MP4A	Z	-4.321	-4.321	0	%100
9	MP3A	X	7.485	7.485	0	%100
10	MP3A	Z	-4.321	-4.321	0	%100
11	MP2A	X	7.485	7.485	0	%100
12	MP2A	Z	-4.321	-4.321	0	%100
13	MP1A	X	7.485	7.485	0	%100
14	MP1A	Z	-4.321	-4.321	0	%100
15	M13	X	6.427	6.427	0	%100
16	M13	Z	-3.71	-3.71	0	%100
17	M14A	X	2.76	2.76	0	%100
18	M14A	Z	-1.593	-1.593	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	12.076	12.076	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	8.323	8.323	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Locationft...	End Locationft....
6	M4	Z	0	0	0	%100
7	MP4A	X	8.933	8.933	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	8.933	8.933	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	8.933	8.933	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	8.933	8.933	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	9.895	9.895	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Locationft...	End Locationft....
1	M1	X	7.843	7.843	0	%100
2	M1	Z	4.528	4.528	0	%100
3	M2	X	7.019	7.019	0	%100
4	M2	Z	4.053	4.053	0	%100
5	M4	X	2.76	2.76	0	%100
6	M4	Z	1.593	1.593	0	%100
7	MP4A	X	7.485	7.485	0	%100
8	MP4A	Z	4.321	4.321	0	%100
9	MP3A	X	7.485	7.485	0	%100
10	MP3A	Z	4.321	4.321	0	%100
11	MP2A	X	7.485	7.485	0	%100
12	MP2A	Z	4.321	4.321	0	%100
13	MP1A	X	7.485	7.485	0	%100
14	MP1A	Z	4.321	4.321	0	%100
15	M13	X	6.427	6.427	0	%100
16	M13	Z	3.71	3.71	0	%100
17	M14A	X	2.76	2.76	0	%100
18	M14A	Z	1.593	1.593	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Locationft...	End Locationft....
1	M1	X	1.509	1.509	0	%100
2	M1	Z	2.614	2.614	0	%100
3	M2	X	3.834	3.834	0	%100
4	M2	Z	6.641	6.641	0	%100
5	M4	X	4.78	4.78	0	%100
6	M4	Z	8.279	8.279	0	%100
7	MP4A	X	4.032	4.032	0	%100
8	MP4A	Z	6.983	6.983	0	%100
9	MP3A	X	4.032	4.032	0	%100
10	MP3A	Z	6.983	6.983	0	%100
11	MP2A	X	4.032	4.032	0	%100
12	MP2A	Z	6.983	6.983	0	%100
13	MP1A	X	4.032	4.032	0	%100
14	MP1A	Z	6.983	6.983	0	%100
15	M13	X	1.237	1.237	0	%100
16	M13	Z	2.142	2.142	0	%100
17	M14A	X	4.78	4.78	0	%100
18	M14A	Z	8.279	8.279	0	%100



Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	7.451	7.451	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	12.746	12.746	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	7.774	7.774	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	7.774	7.774	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	7.774	7.774	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	7.774	7.774	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	12.746	12.746	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-1.509	-1.509	0	%100
2	M1	Z	2.614	2.614	0	%100
3	M2	X	-3.834	-3.834	0	%100
4	M2	Z	6.641	6.641	0	%100
5	M4	X	-4.78	-4.78	0	%100
6	M4	Z	8.279	8.279	0	%100
7	MP4A	X	-4.032	-4.032	0	%100
8	MP4A	Z	6.983	6.983	0	%100
9	MP3A	X	-4.032	-4.032	0	%100
10	MP3A	Z	6.983	6.983	0	%100
11	MP2A	X	-4.032	-4.032	0	%100
12	MP2A	Z	6.983	6.983	0	%100
13	MP1A	X	-4.032	-4.032	0	%100
14	MP1A	Z	6.983	6.983	0	%100
15	M13	X	-1.237	-1.237	0	%100
16	M13	Z	2.142	2.142	0	%100
17	M14A	X	-4.78	-4.78	0	%100
18	M14A	Z	8.279	8.279	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-7.843	-7.843	0	%100
2	M1	Z	4.528	4.528	0	%100
3	M2	X	-7.019	-7.019	0	%100
4	M2	Z	4.053	4.053	0	%100
5	M4	X	-2.76	-2.76	0	%100
6	M4	Z	1.593	1.593	0	%100
7	MP4A	X	-7.485	-7.485	0	%100
8	MP4A	Z	4.321	4.321	0	%100
9	MP3A	X	-7.485	-7.485	0	%100
10	MP3A	Z	4.321	4.321	0	%100
11	MP2A	X	-7.485	-7.485	0	%100
12	MP2A	Z	4.321	4.321	0	%100
13	MP1A	X	-7.485	-7.485	0	%100
14	MP1A	Z	4.321	4.321	0	%100



Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
15	M13	X	-6.427	-6.427	0	%100
16	M13	Z	3.71	3.71	0	%100
17	M14A	X	-2.76	-2.76	0	%100
18	M14A	Z	1.593	1.593	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	-12.076	-12.076	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-8.323	-8.323	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	MP4A	X	-8.933	-8.933	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-8.933	-8.933	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	-8.933	-8.933	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-8.933	-8.933	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	-9.895	-9.895	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	-7.843	-7.843	0	%100
2	M1	Z	-4.528	-4.528	0	%100
3	M2	X	-7.019	-7.019	0	%100
4	M2	Z	-4.053	-4.053	0	%100
5	M4	X	-2.76	-2.76	0	%100
6	M4	Z	-1.593	-1.593	0	%100
7	MP4A	X	-7.485	-7.485	0	%100
8	MP4A	Z	-4.321	-4.321	0	%100
9	MP3A	X	-7.485	-7.485	0	%100
10	MP3A	Z	-4.321	-4.321	0	%100
11	MP2A	X	-7.485	-7.485	0	%100
12	MP2A	Z	-4.321	-4.321	0	%100
13	MP1A	X	-7.485	-7.485	0	%100
14	MP1A	Z	-4.321	-4.321	0	%100
15	M13	X	-6.427	-6.427	0	%100
16	M13	Z	-3.71	-3.71	0	%100
17	M14A	X	-2.76	-2.76	0	%100
18	M14A	Z	-1.593	-1.593	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	-1.509	-1.509	0	%100
2	M1	Z	-2.614	-2.614	0	%100
3	M2	X	-3.834	-3.834	0	%100
4	M2	Z	-6.641	-6.641	0	%100
5	M4	X	-4.78	-4.78	0	%100
6	M4	Z	-8.279	-8.279	0	%100



Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[.]	Start Location[ft]	End Location[ft]	
7	MP4A	X	-4.032	-4.032	0		%100
8	MP4A	Z	-6.983	-6.983	0		%100
9	MP3A	X	-4.032	-4.032	0		%100
10	MP3A	Z	-6.983	-6.983	0		%100
11	MP2A	X	-4.032	-4.032	0		%100
12	MP2A	Z	-6.983	-6.983	0		%100
13	MP1A	X	-4.032	-4.032	0		%100
14	MP1A	Z	-6.983	-6.983	0		%100
15	M13	X	-1.237	-1.237	0		%100
16	M13	Z	-2.142	-2.142	0		%100
17	M14A	X	-4.78	-4.78	0		%100
18	M14A	Z	-8.279	-8.279	0		%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[.]	Start Location[ft]	End Location[ft]	
1	M1	X	0	0	0		%100
2	M1	Z	0	0	0		%100
3	M2	X	0	0	0		%100
4	M2	Z	-2.765	-2.765	0		%100
5	M4	X	0	0	0		%100
6	M4	Z	-4.509	-4.509	0		%100
7	MP4A	X	0	0	0		%100
8	MP4A	Z	-3.634	-3.634	0		%100
9	MP3A	X	0	0	0		%100
10	MP3A	Z	-3.634	-3.634	0		%100
11	MP2A	X	0	0	0		%100
12	MP2A	Z	-3.634	-3.634	0		%100
13	MP1A	X	0	0	0		%100
14	MP1A	Z	-3.634	-3.634	0		%100
15	M13	X	0	0	0		%100
16	M13	Z	0	0	0		%100
17	M14A	X	0	0	0		%100
18	M14A	Z	-4.509	-4.509	0		%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[.]	Start Location[ft]	End Location[ft]	
1	M1	X	.485	.485	0		%100
2	M1	Z	-.841	-.841	0		%100
3	M2	X	1.402	1.402	0		%100
4	M2	Z	-2.428	-2.428	0		%100
5	M4	X	1.691	1.691	0		%100
6	M4	Z	-2.929	-2.929	0		%100
7	MP4A	X	1.843	1.843	0		%100
8	MP4A	Z	-3.192	-3.192	0		%100
9	MP3A	X	1.843	1.843	0		%100
10	MP3A	Z	-3.192	-3.192	0		%100
11	MP2A	X	1.843	1.843	0		%100
12	MP2A	Z	-3.192	-3.192	0		%100
13	MP1A	X	1.843	1.843	0		%100
14	MP1A	Z	-3.192	-3.192	0		%100
15	M13	X	.442	.442	0		%100
16	M13	Z	-.765	-.765	0		%100
17	M14A	X	1.691	1.691	0		%100
18	M14A	Z	-2.929	-2.929	0		%100



Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	2.522	2.522	0	%100
2	M1	Z	-1.456	-1.456	0	%100
3	M2	X	2.496	2.496	0	%100
4	M2	Z	-1.441	-1.441	0	%100
5	M4	X	.976	.976	0	%100
6	M4	Z	-.564	-.564	0	%100
7	MP4A	X	3.282	3.282	0	%100
8	MP4A	Z	-1.895	-1.895	0	%100
9	MP3A	X	3.282	3.282	0	%100
10	MP3A	Z	-1.895	-1.895	0	%100
11	MP2A	X	3.282	3.282	0	%100
12	MP2A	Z	-1.895	-1.895	0	%100
13	MP1A	X	3.282	3.282	0	%100
14	MP1A	Z	-1.895	-1.895	0	%100
15	M13	X	2.296	2.296	0	%100
16	M13	Z	-1.326	-1.326	0	%100
17	M14A	X	.976	.976	0	%100
18	M14A	Z	-.564	-.564	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	3.883	3.883	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	2.921	2.921	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	MP4A	X	3.842	3.842	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	3.842	3.842	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	3.842	3.842	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	3.842	3.842	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	3.535	3.535	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	0	0	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	2.522	2.522	0	%100
2	M1	Z	1.456	1.456	0	%100
3	M2	X	2.496	2.496	0	%100
4	M2	Z	1.441	1.441	0	%100
5	M4	X	.976	.976	0	%100
6	M4	Z	.564	.564	0	%100
7	MP4A	X	3.282	3.282	0	%100
8	MP4A	Z	1.895	1.895	0	%100
9	MP3A	X	3.282	3.282	0	%100
10	MP3A	Z	1.895	1.895	0	%100
11	MP2A	X	3.282	3.282	0	%100
12	MP2A	Z	1.895	1.895	0	%100
13	MP1A	X	3.282	3.282	0	%100
14	MP1A	Z	1.895	1.895	0	%100



Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
15	M13	X	2.296	2.296	0	%100
16	M13	Z	1.326	1.326	0	%100
17	M14A	X	.976	.976	0	%100
18	M14A	Z	.564	.564	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	.485	.485	0	%100
2	M1	Z	.841	.841	0	%100
3	M2	X	1.402	1.402	0	%100
4	M2	Z	2.428	2.428	0	%100
5	M4	X	1.691	1.691	0	%100
6	M4	Z	2.929	2.929	0	%100
7	MP4A	X	1.843	1.843	0	%100
8	MP4A	Z	3.192	3.192	0	%100
9	MP3A	X	1.843	1.843	0	%100
10	MP3A	Z	3.192	3.192	0	%100
11	MP2A	X	1.843	1.843	0	%100
12	MP2A	Z	3.192	3.192	0	%100
13	MP1A	X	1.843	1.843	0	%100
14	MP1A	Z	3.192	3.192	0	%100
15	M13	X	.442	.442	0	%100
16	M13	Z	.765	.765	0	%100
17	M14A	X	1.691	1.691	0	%100
18	M14A	Z	2.929	2.929	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	2.765	2.765	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	4.509	4.509	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	3.634	3.634	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	3.634	3.634	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	3.634	3.634	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	3.634	3.634	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	4.509	4.509	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	-485	-485	0	%100
2	M1	Z	.841	.841	0	%100
3	M2	X	-1.402	-1.402	0	%100
4	M2	Z	2.428	2.428	0	%100
5	M4	X	-1.691	-1.691	0	%100
6	M4	Z	2.929	2.929	0	%100



Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
7	MP4A	X	-1.843	-1.843	0	%100
8	MP4A	Z	3.192	3.192	0	%100
9	MP3A	X	-1.843	-1.843	0	%100
10	MP3A	Z	3.192	3.192	0	%100
11	MP2A	X	-1.843	-1.843	0	%100
12	MP2A	Z	3.192	3.192	0	%100
13	MP1A	X	-1.843	-1.843	0	%100
14	MP1A	Z	3.192	3.192	0	%100
15	M13	X	-.442	-.442	0	%100
16	M13	Z	.765	.765	0	%100
17	M14A	X	-1.691	-1.691	0	%100
18	M14A	Z	2.929	2.929	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-2.522	-2.522	0	%100
2	M1	Z	1.456	1.456	0	%100
3	M2	X	-2.496	-2.496	0	%100
4	M2	Z	1.441	1.441	0	%100
5	M4	X	-.976	-.976	0	%100
6	M4	Z	.564	.564	0	%100
7	MP4A	X	-3.282	-3.282	0	%100
8	MP4A	Z	1.895	1.895	0	%100
9	MP3A	X	-3.282	-3.282	0	%100
10	MP3A	Z	1.895	1.895	0	%100
11	MP2A	X	-3.282	-3.282	0	%100
12	MP2A	Z	1.895	1.895	0	%100
13	MP1A	X	-3.282	-3.282	0	%100
14	MP1A	Z	1.895	1.895	0	%100
15	M13	X	-2.296	-2.296	0	%100
16	M13	Z	1.326	1.326	0	%100
17	M14A	X	-.976	-.976	0	%100
18	M14A	Z	.564	.564	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-3.883	-3.883	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-2.921	-2.921	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	MP4A	X	-3.842	-3.842	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-3.842	-3.842	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	-3.842	-3.842	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-3.842	-3.842	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	-3.535	-3.535	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	0	0	0	%100



Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-2.522	-2.522	0	%100
2	M1	Z	-1.456	-1.456	0	%100
3	M2	X	-2.496	-2.496	0	%100
4	M2	Z	-1.441	-1.441	0	%100
5	M4	X	-.976	-.976	0	%100
6	M4	Z	-.564	-.564	0	%100
7	MP4A	X	-3.282	-3.282	0	%100
8	MP4A	Z	-1.895	-1.895	0	%100
9	MP3A	X	-3.282	-3.282	0	%100
10	MP3A	Z	-1.895	-1.895	0	%100
11	MP2A	X	-3.282	-3.282	0	%100
12	MP2A	Z	-1.895	-1.895	0	%100
13	MP1A	X	-3.282	-3.282	0	%100
14	MP1A	Z	-1.895	-1.895	0	%100
15	M13	X	-2.296	-2.296	0	%100
16	M13	Z	-1.326	-1.326	0	%100
17	M14A	X	-.976	-.976	0	%100
18	M14A	Z	-.564	-.564	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-.485	-.485	0	%100
2	M1	Z	-.841	-.841	0	%100
3	M2	X	-1.402	-1.402	0	%100
4	M2	Z	-2.428	-2.428	0	%100
5	M4	X	-1.691	-1.691	0	%100
6	M4	Z	-2.929	-2.929	0	%100
7	MP4A	X	-1.843	-1.843	0	%100
8	MP4A	Z	-3.192	-3.192	0	%100
9	MP3A	X	-1.843	-1.843	0	%100
10	MP3A	Z	-3.192	-3.192	0	%100
11	MP2A	X	-1.843	-1.843	0	%100
12	MP2A	Z	-3.192	-3.192	0	%100
13	MP1A	X	-1.843	-1.843	0	%100
14	MP1A	Z	-3.192	-3.192	0	%100
15	M13	X	-.442	-.442	0	%100
16	M13	Z	-.765	-.765	0	%100
17	M14A	X	-1.691	-1.691	0	%100
18	M14A	Z	-2.929	-2.929	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.482	-.482	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	-.824	-.824	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	-.502	-.502	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	-.502	-.502	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-.502	-.502	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-.502	-.502	0	%100



Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	-824	-824	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	.098	.098	0	%100
2	M1	Z	-.169	-.169	0	%100
3	M2	X	.248	.248	0	%100
4	M2	Z	-.429	-.429	0	%100
5	M4	X	.309	.309	0	%100
6	M4	Z	-.535	-.535	0	%100
7	MP4A	X	.261	.261	0	%100
8	MP4A	Z	-.451	-.451	0	%100
9	MP3A	X	.261	.261	0	%100
10	MP3A	Z	-.451	-.451	0	%100
11	MP2A	X	.261	.261	0	%100
12	MP2A	Z	-.451	-.451	0	%100
13	MP1A	X	.261	.261	0	%100
14	MP1A	Z	-.451	-.451	0	%100
15	M13	X	.08	.08	0	%100
16	M13	Z	-.138	-.138	0	%100
17	M14A	X	.309	.309	0	%100
18	M14A	Z	-.535	-.535	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	.507	.507	0	%100
2	M1	Z	-.293	-.293	0	%100
3	M2	X	.454	.454	0	%100
4	M2	Z	-.262	-.262	0	%100
5	M4	X	.178	.178	0	%100
6	M4	Z	-.103	-.103	0	%100
7	MP4A	X	.484	.484	0	%100
8	MP4A	Z	-.279	-.279	0	%100
9	MP3A	X	.484	.484	0	%100
10	MP3A	Z	-.279	-.279	0	%100
11	MP2A	X	.484	.484	0	%100
12	MP2A	Z	-.279	-.279	0	%100
13	MP1A	X	.484	.484	0	%100
14	MP1A	Z	-.279	-.279	0	%100
15	M13	X	.415	.415	0	%100
16	M13	Z	-.24	-.24	0	%100
17	M14A	X	.178	.178	0	%100
18	M14A	Z	-.103	-.103	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft....]
1	M1	X	.781	.781	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.538	.538	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
7	MP4A	X	.577	.577	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	.577	.577	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	.577	.577	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.577	.577	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	.64	.64	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	.507	.507	0	%100
2	M1	Z	.293	.293	0	%100
3	M2	X	.454	.454	0	%100
4	M2	Z	.262	.262	0	%100
5	M4	X	.178	.178	0	%100
6	M4	Z	.103	.103	0	%100
7	MP4A	X	.484	.484	0	%100
8	MP4A	Z	.279	.279	0	%100
9	MP3A	X	.484	.484	0	%100
10	MP3A	Z	.279	.279	0	%100
11	MP2A	X	.484	.484	0	%100
12	MP2A	Z	.279	.279	0	%100
13	MP1A	X	.484	.484	0	%100
14	MP1A	Z	.279	.279	0	%100
15	M13	X	.415	.415	0	%100
16	M13	Z	.24	.24	0	%100
17	M14A	X	.178	.178	0	%100
18	M14A	Z	.103	.103	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	.098	.098	0	%100
2	M1	Z	.169	.169	0	%100
3	M2	X	.248	.248	0	%100
4	M2	Z	.429	.429	0	%100
5	M4	X	.309	.309	0	%100
6	M4	Z	.535	.535	0	%100
7	MP4A	X	.261	.261	0	%100
8	MP4A	Z	.451	.451	0	%100
9	MP3A	X	.261	.261	0	%100
10	MP3A	Z	.451	.451	0	%100
11	MP2A	X	.261	.261	0	%100
12	MP2A	Z	.451	.451	0	%100
13	MP1A	X	.261	.261	0	%100
14	MP1A	Z	.451	.451	0	%100
15	M13	X	.08	.08	0	%100
16	M13	Z	.138	.138	0	%100
17	M14A	X	.309	.309	0	%100
18	M14A	Z	.535	.535	0	%100



Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.482	.482	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	.824	.824	0	%100
7	MP4A	X	0	0	0	%100
8	MP4A	Z	.502	.502	0	%100
9	MP3A	X	0	0	0	%100
10	MP3A	Z	.502	.502	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.502	.502	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.502	.502	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	.824	.824	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-.098	-.098	0	%100
2	M1	Z	.169	.169	0	%100
3	M2	X	-.248	-.248	0	%100
4	M2	Z	.429	.429	0	%100
5	M4	X	-.309	-.309	0	%100
6	M4	Z	.535	.535	0	%100
7	MP4A	X	-.261	-.261	0	%100
8	MP4A	Z	.451	.451	0	%100
9	MP3A	X	-.261	-.261	0	%100
10	MP3A	Z	.451	.451	0	%100
11	MP2A	X	-.261	-.261	0	%100
12	MP2A	Z	.451	.451	0	%100
13	MP1A	X	-.261	-.261	0	%100
14	MP1A	Z	.451	.451	0	%100
15	M13	X	-.08	-.08	0	%100
16	M13	Z	.138	.138	0	%100
17	M14A	X	-.309	-.309	0	%100
18	M14A	Z	.535	.535	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
1	M1	X	-.507	-.507	0	%100
2	M1	Z	.293	.293	0	%100
3	M2	X	-.454	-.454	0	%100
4	M2	Z	.262	.262	0	%100
5	M4	X	-.178	-.178	0	%100
6	M4	Z	.103	.103	0	%100
7	MP4A	X	-.484	-.484	0	%100
8	MP4A	Z	.279	.279	0	%100
9	MP3A	X	-.484	-.484	0	%100
10	MP3A	Z	.279	.279	0	%100
11	MP2A	X	-.484	-.484	0	%100
12	MP2A	Z	.279	.279	0	%100
13	MP1A	X	-.484	-.484	0	%100
14	MP1A	Z	.279	.279	0	%100



Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[.]	Start Location[ft]	End Location[ft]
15	M13	X	-.415	-.415	0	%100
16	M13	Z	.24	.24	0	%100
17	M14A	X	-.178	-.178	0	%100
18	M14A	Z	.103	.103	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[.]	Start Location[ft]	End Location[ft]
1	M1	X	-.781	-.781	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.538	-.538	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	MP4A	X	-.577	-.577	0	%100
8	MP4A	Z	0	0	0	%100
9	MP3A	X	-.577	-.577	0	%100
10	MP3A	Z	0	0	0	%100
11	MP2A	X	-.577	-.577	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-.577	-.577	0	%100
14	MP1A	Z	0	0	0	%100
15	M13	X	-.64	-.64	0	%100
16	M13	Z	0	0	0	%100
17	M14A	X	0	0	0	%100
18	M14A	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[.]	Start Location[ft]	End Location[ft]
1	M1	X	-.507	-.507	0	%100
2	M1	Z	-.293	-.293	0	%100
3	M2	X	-.454	-.454	0	%100
4	M2	Z	-.262	-.262	0	%100
5	M4	X	-.178	-.178	0	%100
6	M4	Z	-.103	-.103	0	%100
7	MP4A	X	-.484	-.484	0	%100
8	MP4A	Z	-.279	-.279	0	%100
9	MP3A	X	-.484	-.484	0	%100
10	MP3A	Z	-.279	-.279	0	%100
11	MP2A	X	-.484	-.484	0	%100
12	MP2A	Z	-.279	-.279	0	%100
13	MP1A	X	-.484	-.484	0	%100
14	MP1A	Z	-.279	-.279	0	%100
15	M13	X	-.415	-.415	0	%100
16	M13	Z	-.24	-.24	0	%100
17	M14A	X	-.178	-.178	0	%100
18	M14A	Z	-.103	-.103	0	%100

Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[.]	Start Location[ft]	End Location[ft]
1	M1	X	-.098	-.098	0	%100
2	M1	Z	-.169	-.169	0	%100
3	M2	X	-.248	-.248	0	%100
4	M2	Z	-.429	-.429	0	%100
5	M4	X	-.309	-.309	0	%100
6	M4	Z	-.535	-.535	0	%100



Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[...]	Start Location[ft...]	End Location[ft...]
7	MP4A	X	-261	0	%100
8	MP4A	Z	-451	0	%100
9	MP3A	X	-261	0	%100
10	MP3A	Z	-451	0	%100
11	MP2A	X	-261	0	%100
12	MP2A	Z	-451	0	%100
13	MP1A	X	-261	0	%100
14	MP1A	Z	-451	0	%100
15	M13	X	-.08	0	%100
16	M13	Z	-.138	0	%100
17	M14A	X	-.309	0	%100
18	M14A	Z	-.535	0	%100

Member Area Loads

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

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

Member	Shape	Code Check	Loc[ft]	LC	Sh...	Loc[ft]...	LC	phi*...	phi*...	phi*...	phi*...	Eqn	
1	M1	HSS4X...	.310	0	16	.066	0	y	50	1328...	1395...	16.1...	H1-...
2	M2	PIPE_...	.000	.75	10	.000	.75		4	6442...	65205...	5.749	H1-...
3	M4	PIPE_...	.229	3.396	7	.168	3.396		23	5093...	65205...	5.749	H1-...
4	MP4A	PIPE_...	.144	3.047	8	.053	5.946		5	1744...	32130...	1.872	H1-...
5	MP3A	PIPE_...	.265	3.047	20	.058	3.047		18	1744...	32130...	1.872	H1-...
6	MP2A	PIPE_...	.335	3.047	18	.135	5.946		9	1744...	32130...	1.872	H1-...
7	MP1A	PIPE_...	.196	3.047	17	.086	3.047		8	1744...	32130...	1.872	H1-...
8	M13	HSS3X...	.285	0	21	.051	0	y	50	9070...	1010...	8.556	H1-...
9	M14A	PIPE_...	.185	3.396	2	.130	3.396		14	5093...	65205...	5.749	H1-...

Envelope Joint Reactions

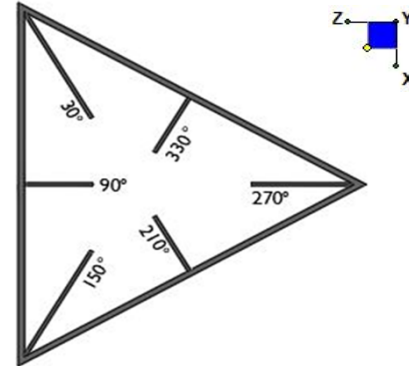
Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N1	max	946.206	9	1381.818	13	1033.254	1	-1.164	1	3.18	9	.646	50
2		min	-1005.324	3	450.555	7	-1554.417	7	-3.875	19	-3.391	3	-.324	38
3	N32	max	220.011	11	763.226	19	928.252	13	-.46	1	1.506	9	.26	50
4		min	-162.025	5	220.956	1	-195.26	7	-1.818	19	-1.307	3	-.135	38
5	Totals:	max	1149.32	10	2119.895	13	1749.674	1						
6		min	-1149.321	4	768.082	7	-1749.677	7						



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N32	90



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

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

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

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

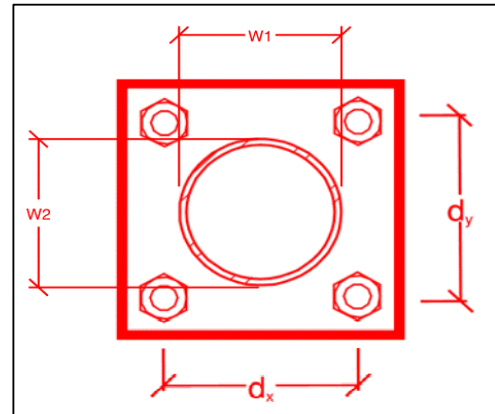
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
6
6
A325N
0.625
8.3
1.5
20.7
12.4
10.1%*
3.0%



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

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

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
8.25
8.25
3
3
50
0.625
5
6.96
1.96
21.5%
28.2%

Max Plate Bending Strengths

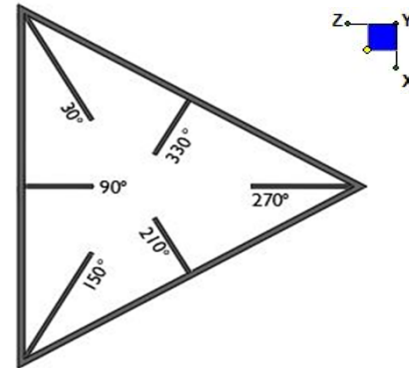
$M_{u_{xx}}$ (kip-in) :	5.8
$\Phi * M_{n_{xx}}$ (kip-in) :	36.3
$M_{u_{yy}}$ (kip-in) :	2.0
$\Phi * M_{n_{yy}}$ (kip-in) :	36.3



I. Mount-to-Tower Connection Check

RISA Model Data

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



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

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

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

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

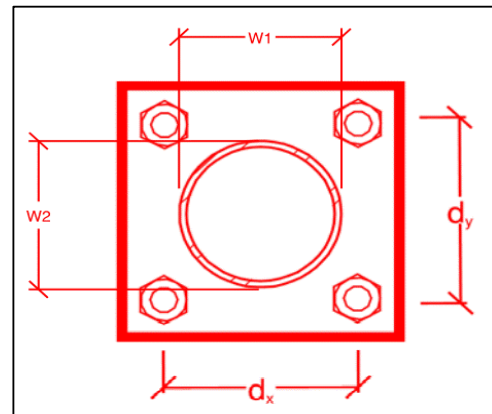
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
7
7
A325N
0.625
14.6
3.0
20.7
12.4
17.7%*
6.0%



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

t_{plate} (in):

Weld Size (1/16 in):

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

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
10
10
4
4
36
0.625
3
4.18
2.31
42.3%
55.4%

Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in) :	10.4
$\Phi \cdot M_{n_{xx}}$ (kip-in) :	31.6
$M_{u_{yy}}$ (kip-in) :	2.9
$\Phi \cdot M_{n_{yy}}$ (kip-in) :	31.6

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

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

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

Base Requirements:

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

Photo Requirements:

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

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

Material Certification:


















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

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

☐ The material utilized was an “equivalent” and included as part of the contractor submission is the TES certification, invoices, or specifications validating accepted status

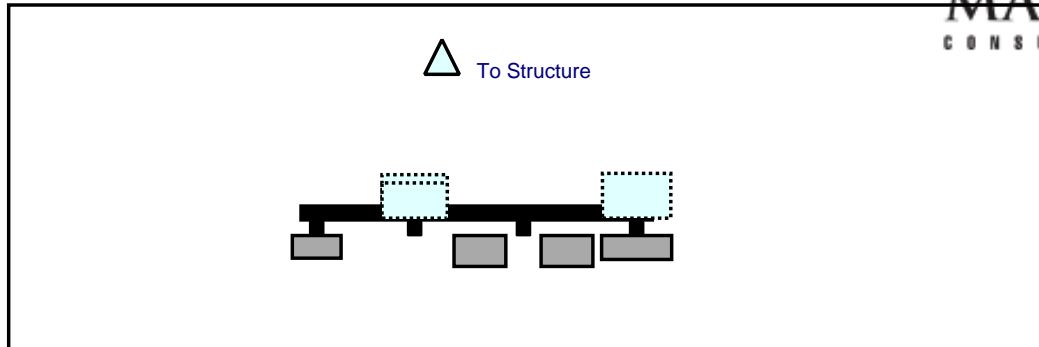
Certifying Individual: Company _____
Name _____
Signature _____

Schedule A – Photo & Document File Structure

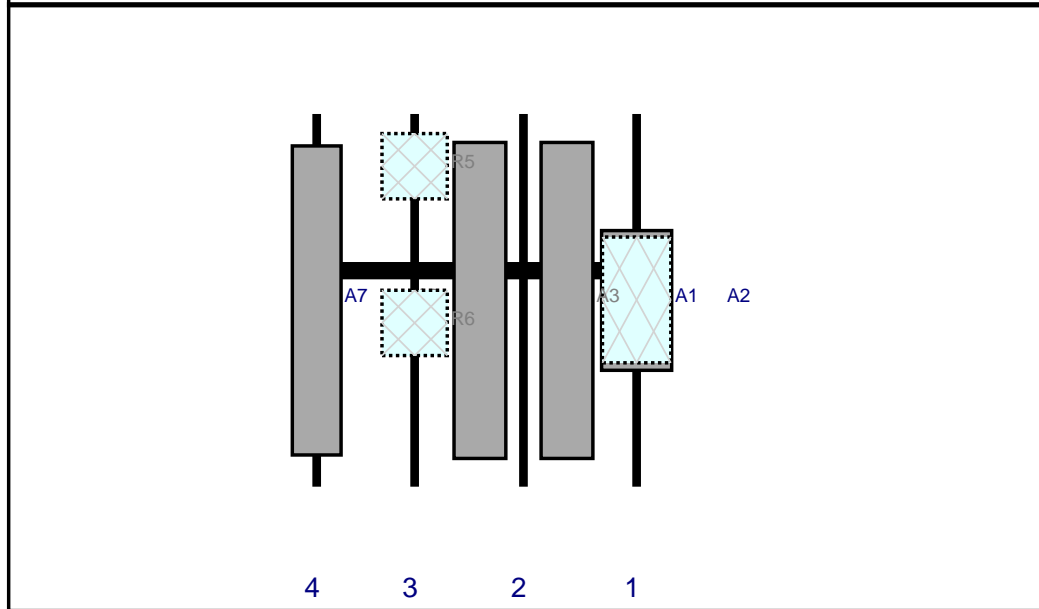
-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present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



Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	Licensed Sub 6 Antenna	32.1	16.1	77.5	1	a	Front	42.84	0	Added	
A2	DB-T1-6Z-12AB-0Z	28.9	15.7	77.5	1	a	Behind	42.72	0	Added	
A3	SBNHH-1D65B	72.6	11.9	51.5	2	a	Front	42.84	10	Retained	10/26/2020
A3	SBNHH-1D65B	72.6	11.9	51.5	2	b	Front	42.84	-10	Retained	10/26/2020
R5	B2/B66A RRH-BR049	15	15	26.5	3	a	Behind	12	0	Retained	10/26/2020
R6	B5/B13 RRH-BR04C	15	15	26.5	3	a	Behind	48	0	Retained	10/26/2020
A7	BXA-70063-6CF-EDIN-2	71	11.2	4	4	a	Front	42.84	0	Retained	10/26/2020

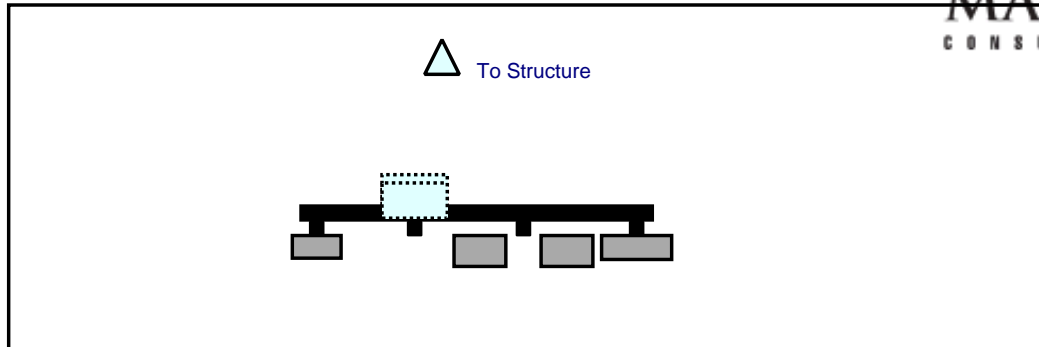
Sector: **B**
 Structure Type: Monopole
 Mount Elev: 89.25

12/14/2020

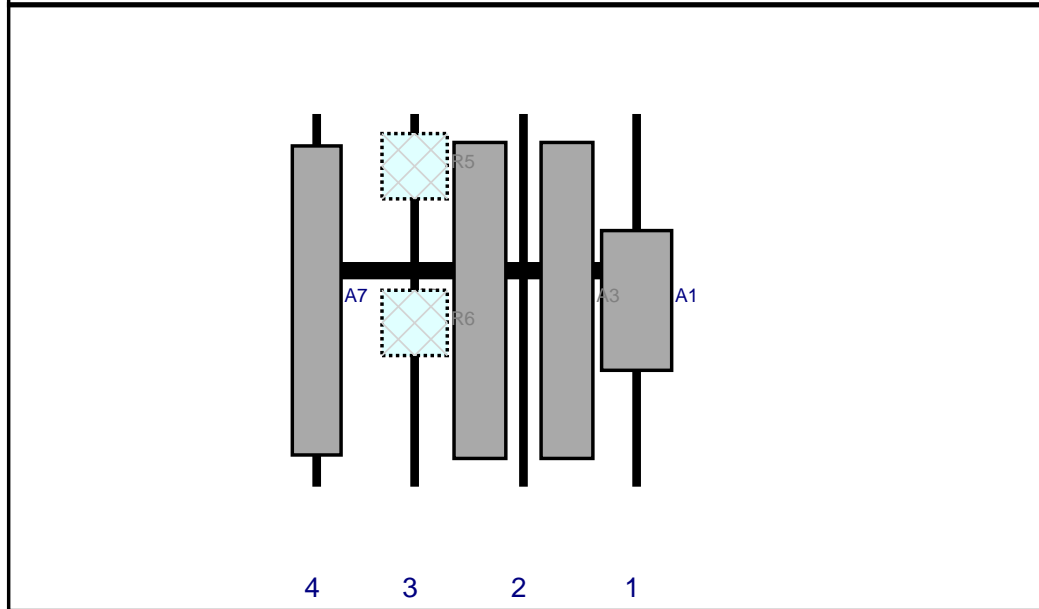
Page: 2



Plan View



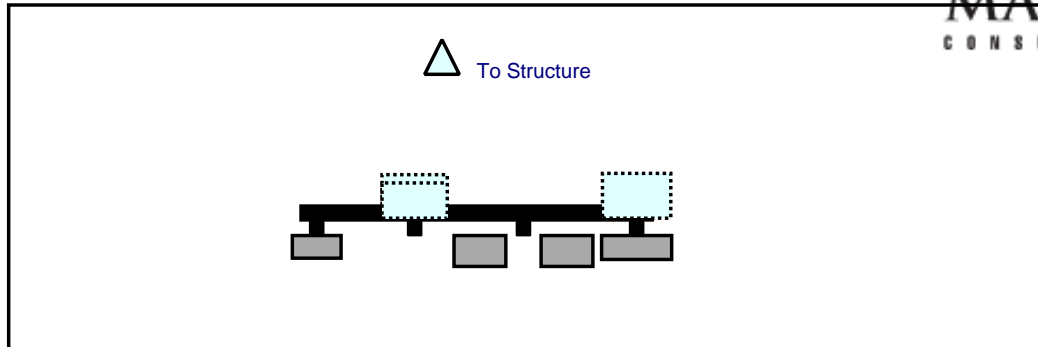
Front View
 Looking at Structure



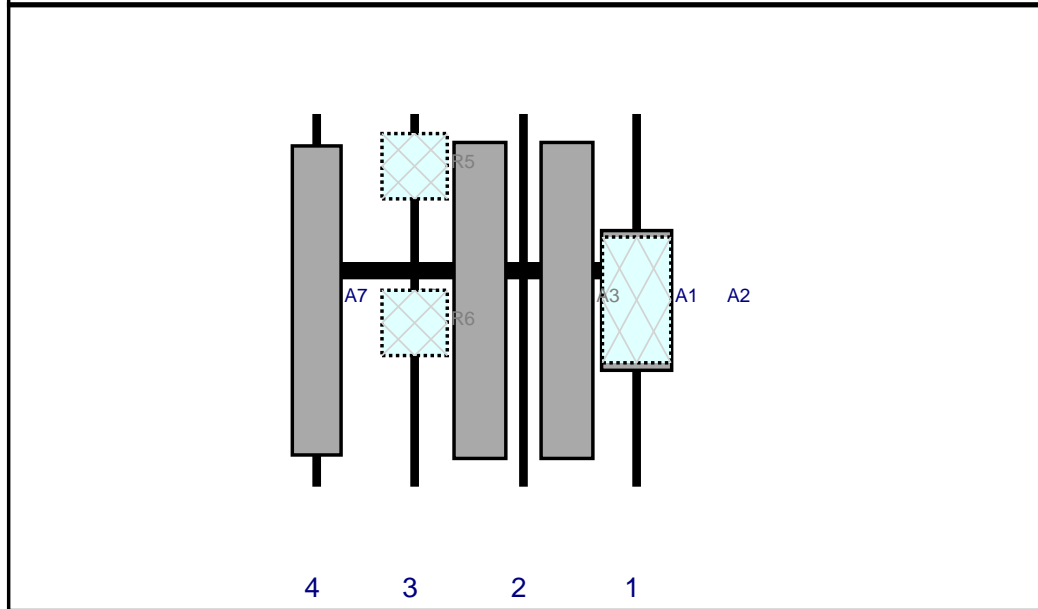
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	Licensed Sub 6 Antenna	32.1	16.1	77.5	1	a	Front	42.84	0	Added	
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R6	B5/B13 RRH-BR04C	15	15	26.5	3	a	Behind	48	0	Retained	10/26/2020
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Plan View



Front View
 Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
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A7	BXA-70063-6CF-EDIN-2	71	11.2	4	4	a	Front	42.84	0	Retained	10/26/2020



<u>Subject</u>	TIA-222-H Usage	
<u>Site Information</u>	Site ID:	468180-VZW / Hartford 9 CT
	Site Name:	Hartford 9 CT
	Carrier Name:	Verizon Wireless
	Address:	250 Silas Deane Hwy Wethersfield, Connecticut 0610 Hartford County
	Latitude:	41.720597°
	Longitude:	-72.666044°
<u>Structure Information</u>	Tower Type:	Monopole
	Mount Type:	6.79-Ft T-Frame

To Whom It May Concern,

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

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

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

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'Petros E. Tsoukalas'.

Petros E. Tsoukalas, PE
Geographic Discipline Leader

PROJECT NOTES

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



MOUNT MODIFICATION DRAWINGS EXISTING 6.79' T-FRAME MOUNT

SITE NAME: HARTFORD 9 CT
SITE NUMBER: 468180

250 SILAS DEANE HWY
WETHERSFIELD, CT 06109
HARTFORD COUNTY

PROJECT INFORMATION	
SITE INFORMATION	
LATITUDE:	41.720597° N
LONGITUDE:	72.666044° W
JURISDICTION	HARTFORD COUNTY
APPLICANT/LESSEE	
COMPANY	VERIZON WIRELESS
CLIENT REPRESENTATIVE	
COMPANY	VERIZON WIRELESS
ADDRESS	118 FLANDERS ROAD, 3RD FLOOR
CITY, STATE, ZIP	WESTBOROUGH, MA 01518
CONTACT	ANDREW CANDIELLO
E-MAIL	ANDREW.CANDIELLO@VERIZONWIRELESS.COM
PROJECT MANAGER	
COMPANY	MASER CONSULTING
CONTACT	GREG DULNIK
PHONE	(615) 686-2575
E-MAIL	GDULNIK@MASERCONSULTING.COM

SHEET INDEX	
SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	MOUNT PHOTOS
	SPECIFICATION SHEETS

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #	10022557
VZW LOCATION CODE (PSLC)	468180
FUZE ID	16232035
PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT	

REFERENCED DOCUMENTS	
FAILING MOUNT ANALYSIS REPORT	
SMART TOOL PROJECT #	10017995
MASER CONSULTING PROJECT #	20777293A
ANALYSIS DATE	11/10/2020

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	12/16/2020	ISSUED FOR CONSTRUCTION	DEH	PT

Petros Tsoukalas
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER 32577
MASER CONSULTING CONNECTICUT
PROFESSIONAL ENGINEER
12/16/20

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HARTFORD 9 CT
468180
250 SILAS DEANE HWY
WETHERSFIELD, CT 06109
HARTFORD COUNTY

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

SHEET TITLE:
TITLE SHEET
SHEET NUMBER:
T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

V:\Projects\10161448180_Hartford9 CT_10222020_Mount MOD Drawings\Proj1.ctb By: PCH/CH/MS

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BILL OF MATERIALS

VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
12	VZWSMART	VZWSMART-MSK2	CROSSOVER PLATE	
3		VZWSMART-SFK4	T-ARM KIT	FINAL LENGTH TO BE DETERMINED IN FIELD, CONTRACTOR TO TRIM AS REQUIRED
3		VZWSMART-PLK7	COLLAR MOUNT	

OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES
3	-	-	84" LONG, P3.0 STD PIPE	GALVANIZED - CONTRACTOR TO TRIM AS REQUIRED

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

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

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



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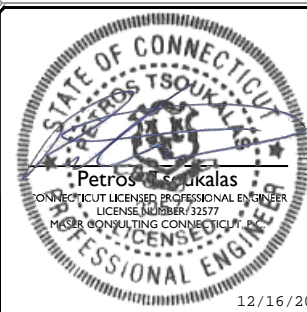
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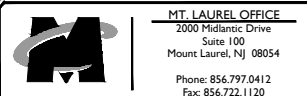
SCALE: AS SHOWN JOB NUMBER: 20777293A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	12/16/2020	ISSUED FOR CONSTRUCTION	DEH	PT



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468180
250 SILAS DEANE HWY
WETHERSFIELD, CT 06109
HARTFORD COUNTY



SHEET TITLE:
BILL OF MATERIALS

SHEET NUMBER:
S-1

GENERAL NOTES

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

DESIGN LOADS

- WIND LOADS
- BASIC WIND SPEED (3 SECOND GUST), V = 118 MPH
 - EXPOSURE CATEGORY C
 - TOPOGRAPHIC CATEGORY I
 - MEAN BASE ELEVATION (AMSL) = 35.72'

- ICE LOADS
- ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
 - ICE THICKNESS = 1.5 IN

- SEISMIC LOADS
- SEISMIC DESIGN CATEGORY B
 - SHORT TERM MCER GROUND MOTION, S_s = .194
 - LONG TERM MCER GROUND MOTION, S_l = .055

STRUCTURAL STEEL

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

- | | |
|--------------------------------|--------------------------|
| CHANNELS, ANGLES, PLATES, ETC. | ASTM A36 (GR 36) |
| STEEL PIPE | ASTM A53 (GR 35) |
| BOLTS | ASTM A325 |
| NUTS | ASTM A563 |
| LOCK WASHERS | LOCKING STRUCTURAL GRADE |

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

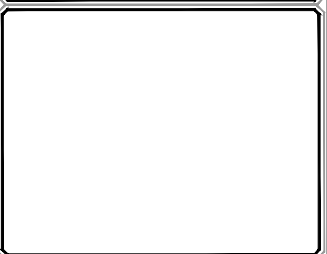
- ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
- ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN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



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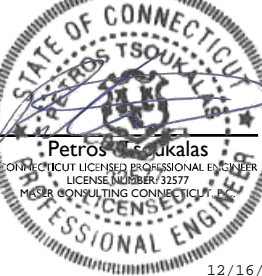
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Petros Tsoukalis
CONNECTICUT LICENSED PROFESSIONAL ENGINEER
LICENSE NUMBER 32577
MASER CONSULTING CONNECTICUT
12/16/20

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SHEET TITLE:
MODIFICATION NOTES

SHEET NUMBER:
S-2

V:\Projects\10161448180_Hartford9_CT_02222015_MountHOOBDrawing.dwg - 2 - By: DPHOCHIE

MODIFICATION INSPECTION NOTES

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

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

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

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

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

MI INSPECTOR

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

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

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

GENERAL CONTRACTOR

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

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

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

RECOMMENDATIONS

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

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

CORRECTION OF FAILING MI'S

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

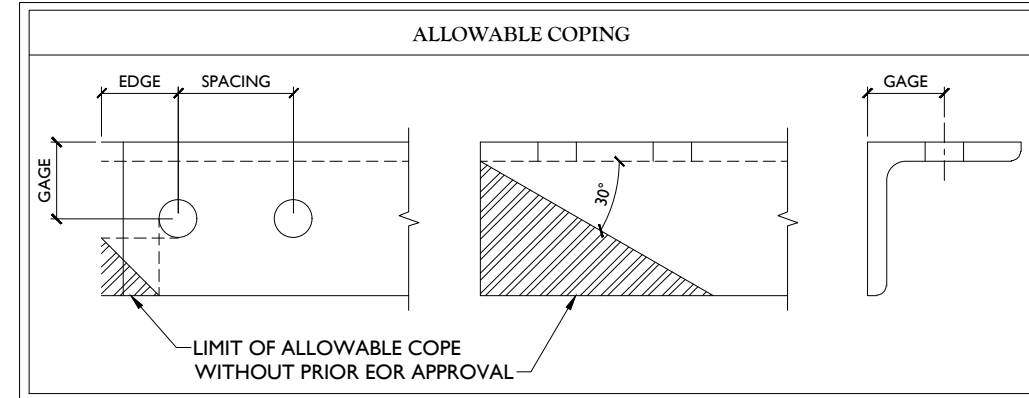
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

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

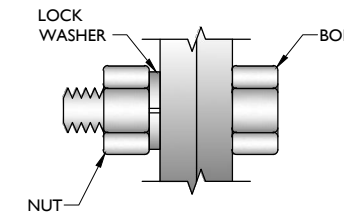
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR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

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



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

LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8

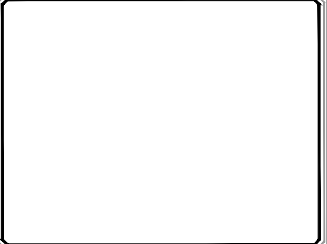


TYP. BOLT ASSEMBLY

NOTES:

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

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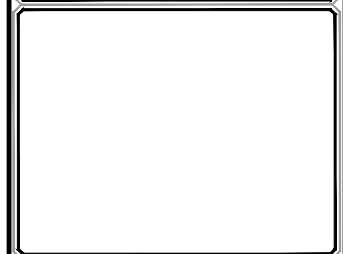
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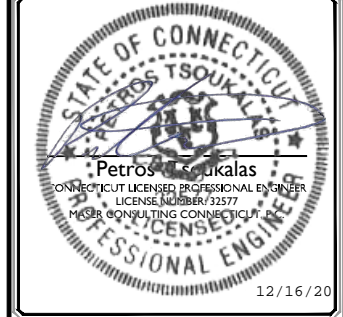
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 MODIFICATION NOTES

SHEET NUMBER:
 S-3



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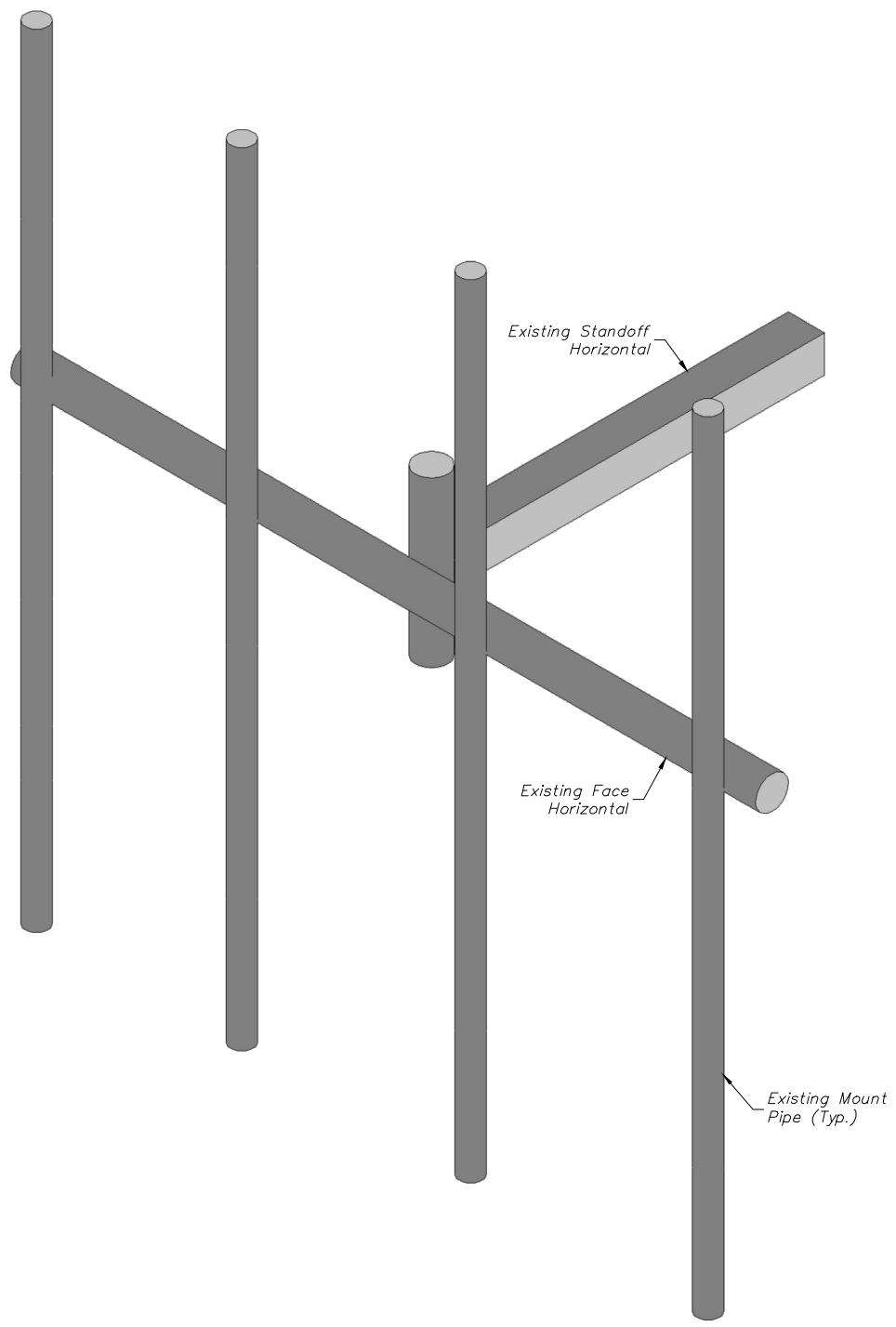
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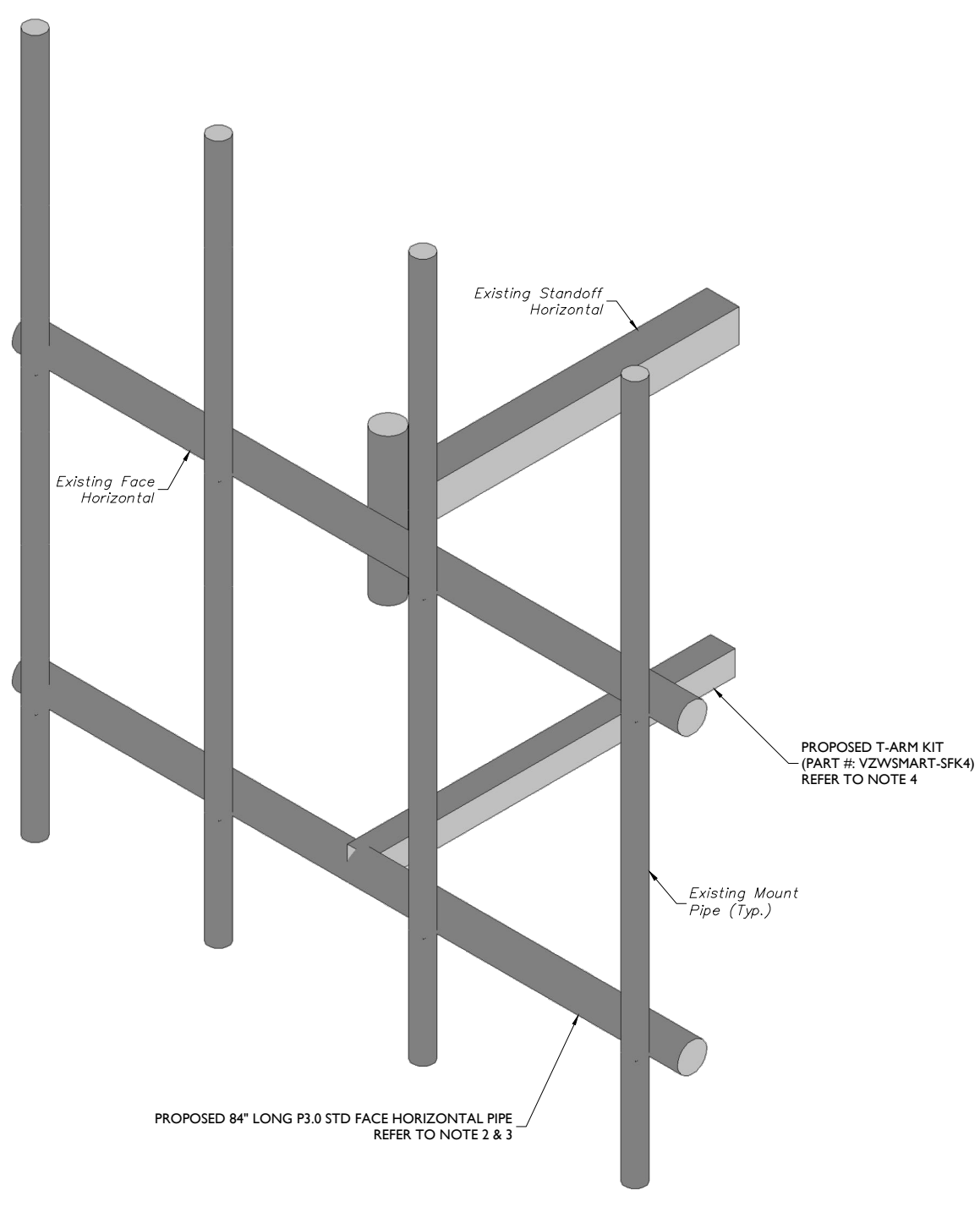
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SHEET TITLE:
MODIFICATION DETAILS

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S-4



1 EXISTING FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)
 SCALE : N.T.S.



2 PROPOSED FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)
 SCALE : N.T.S.

STRUCTURAL NOTES:

- PER THE MOUNT MAPPING COMPLETED BY DELTA OAKS GROUP ON 10/26/2020, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (89'-3") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

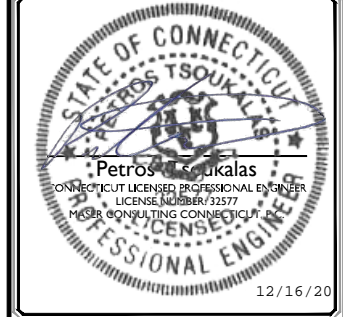
MODIFICATION NOTES:

- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
- RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
- CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
- CONNECT PROPOSED STANDOFF (PART #: VZWSMART-SFK4) TO MONOPOLE WITH A COLLAR MOUNT (PART #: VZWSMART-PLK7) .
- REPLACE ALL RUSTED U-BOLTS ON THE MOUNT.



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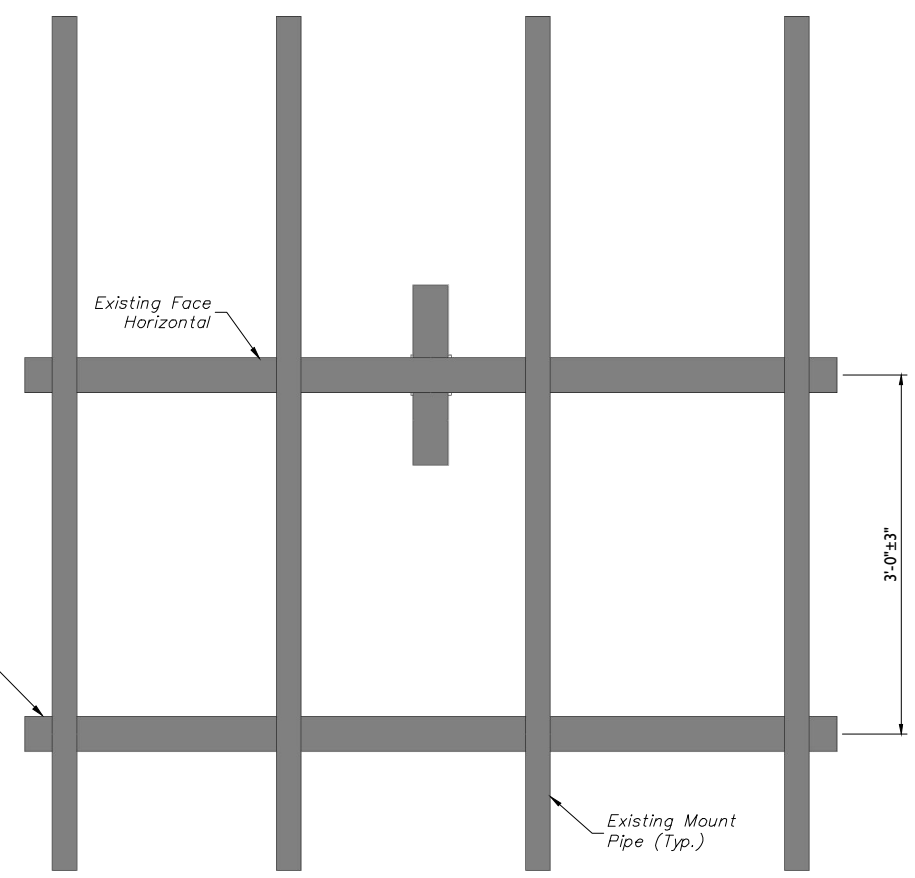
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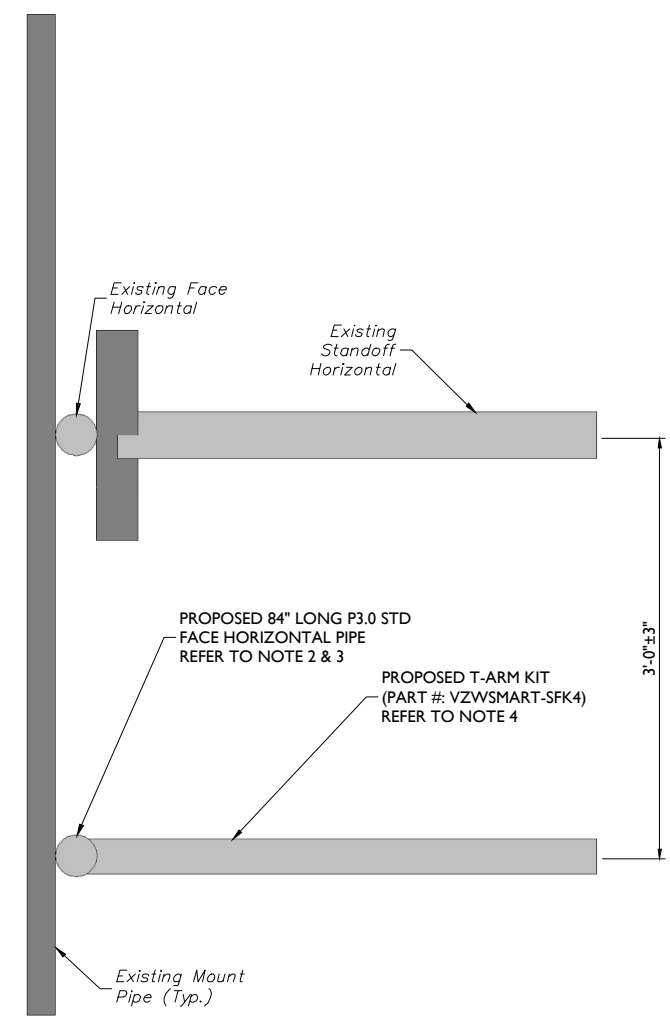
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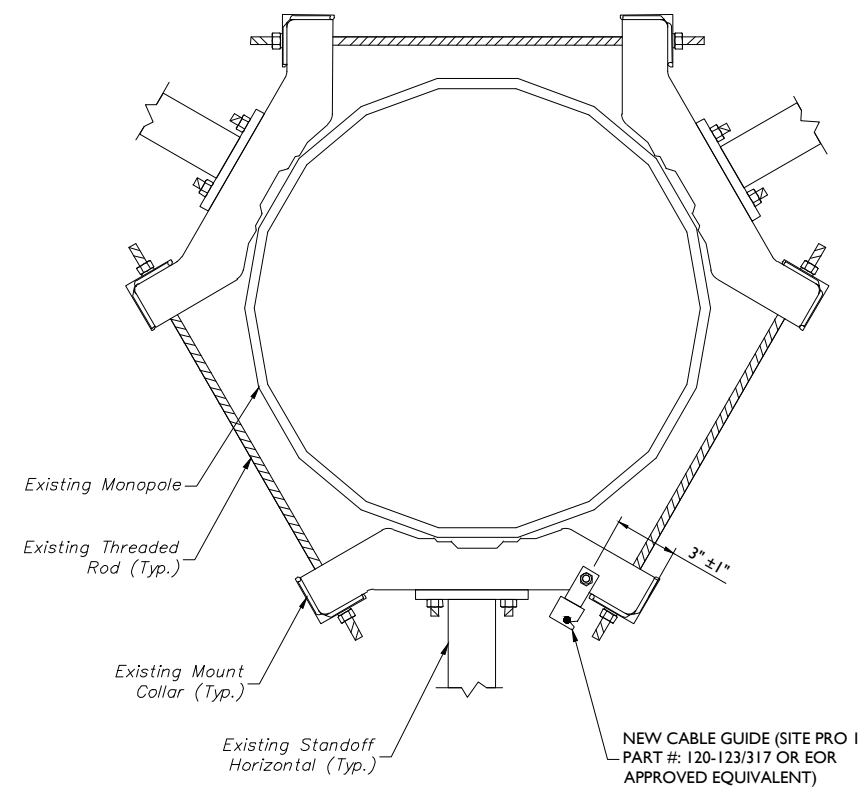
SHEET NUMBER:
S-5



1 PROPOSED FRONT ELEVATION VIEW (TYP. ALL SECTORS)
 SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)
 SCALE : N.T.S.



3 CABLE GUIDE COLLAR ATTACHMENT - PLAN VIEW

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. RADIO AND/OR TME POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
3. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK2).
4. CONNECT PROPOSED STANDOFF (PART #: VZWSMART-SFK4) TO MONOPOLE WITH A COLLAR MOUNT (PART #: VZWSMART-PLK7) .
5. REPLACE ALL RUSTED U-BOLTS ON THE MOUNT.

PROPOSED 84" LONG P3.0 STD FACE HORIZONTAL PIPE REFER TO NOTE 2 & 3

PROPOSED 84" LONG P3.0 STD FACE HORIZONTAL PIPE REFER TO NOTE 2 & 3

PROPOSED 84" LONG P3.0 STD FACE HORIZONTAL PIPE REFER TO NOTE 2 & 3

PROPOSED T-ARM KIT (PART #: VZWSMART-SFK4) REFER TO NOTE 4

NEW CABLE GUIDE (SITE PRO 1 PART #: 120-123/317 OR EOR APPROVED EQUIVALENT)



MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4



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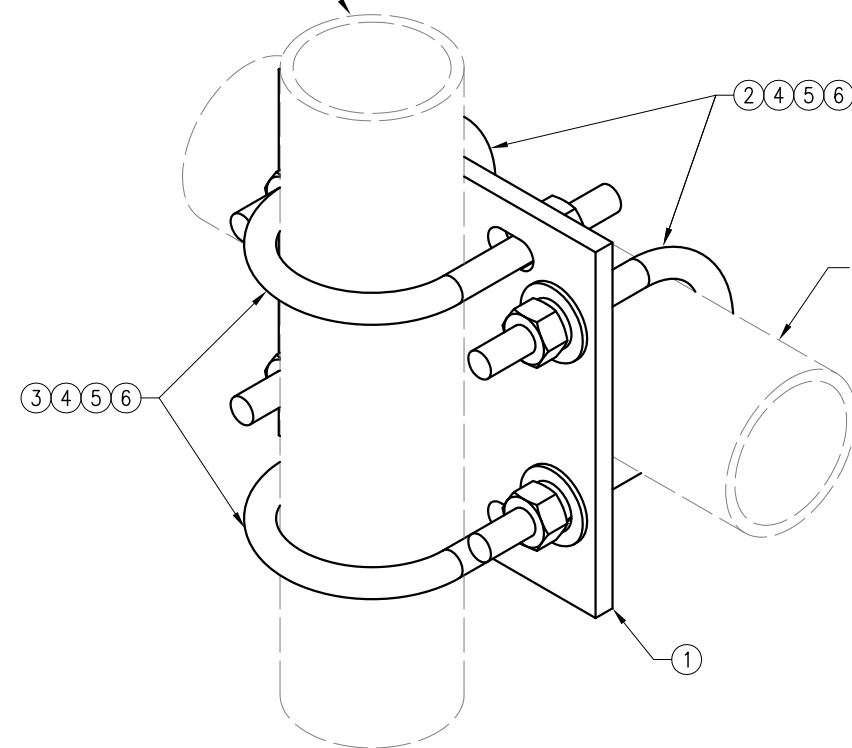
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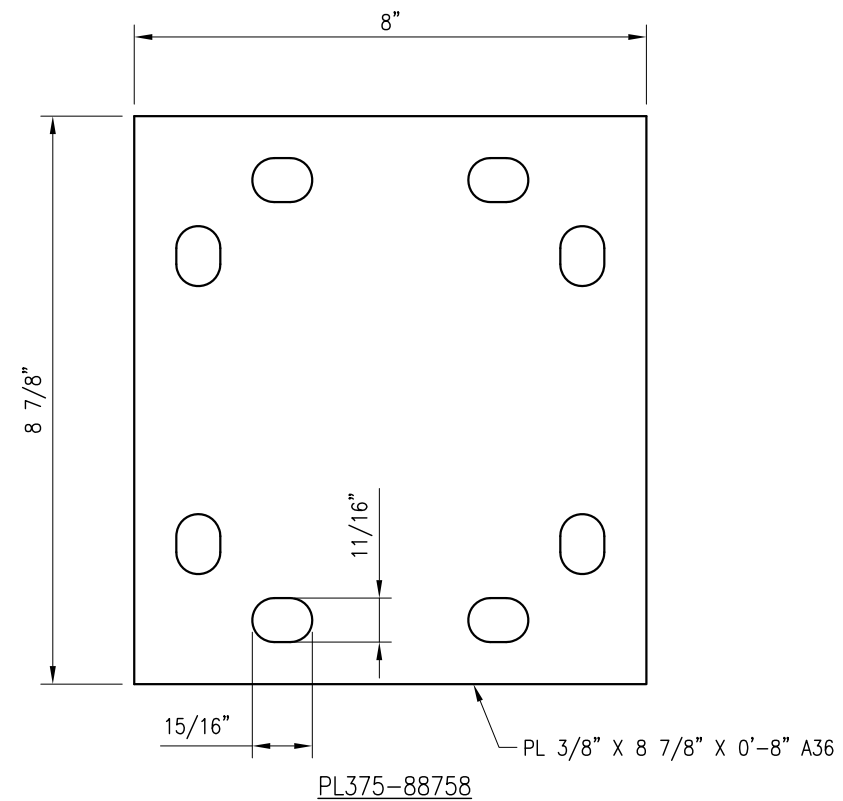
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FITS 2.375" O.D. AND 2.875" O.D.
 VERTICAL PIPE.
 (NOT INCLUDED IN THIS KIT)



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



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

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

DRAWN BY: H.R. CHECKED BY: HMA

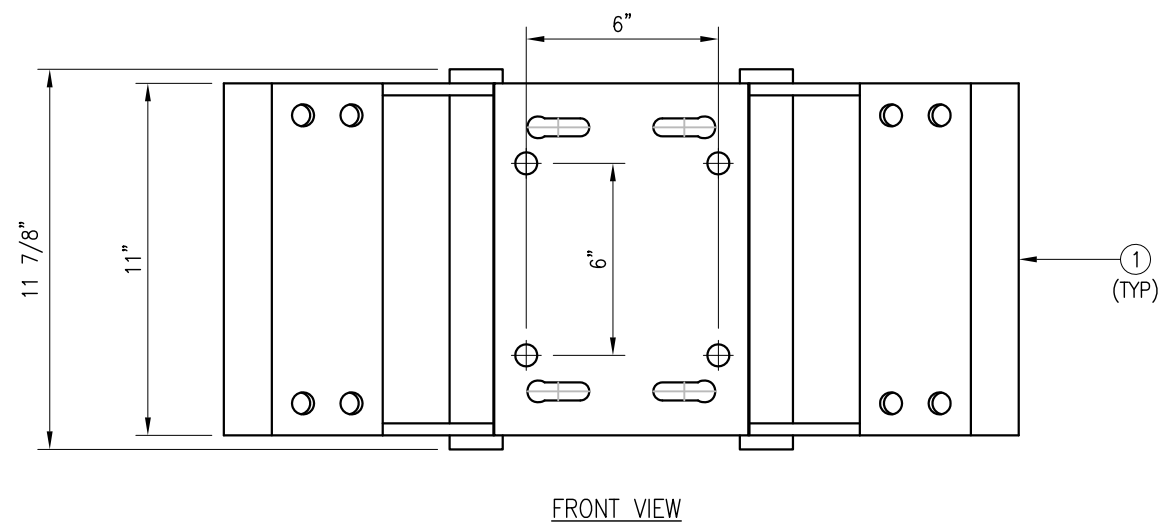
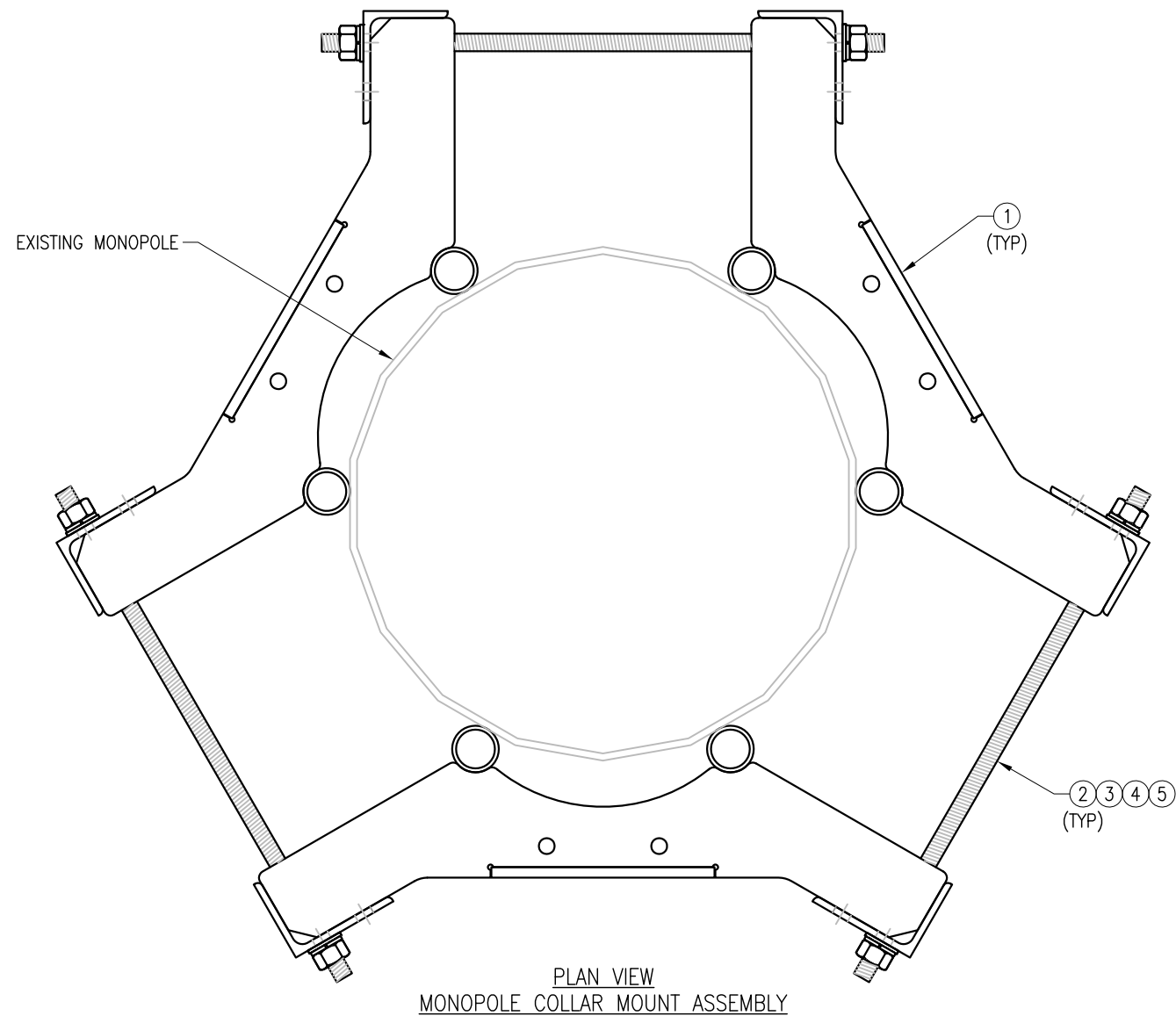
REV.	DESCRIPTION	BY	DATE
1	FIRST ISSUE	H.R.	05/08/20

SHEET TITLE:

VZSMART-MSK2
 CROSSOVER PLATE

SHEET NUMBER: REV #:

VZSMART-MSK2 0



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

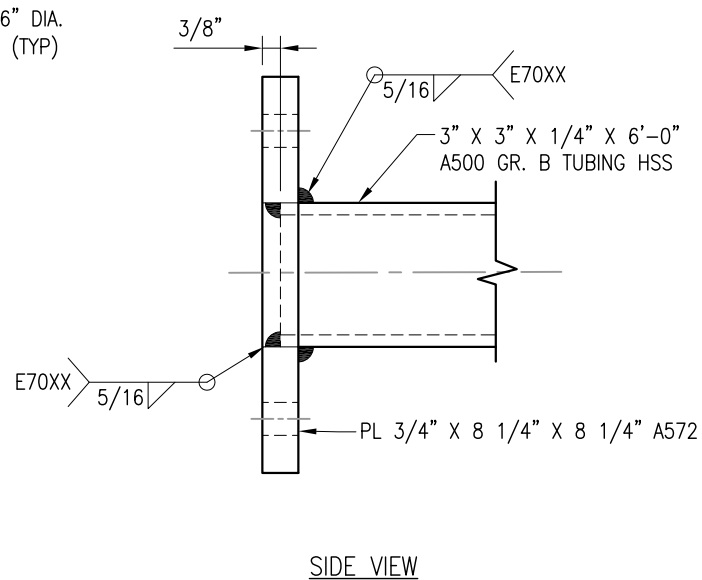
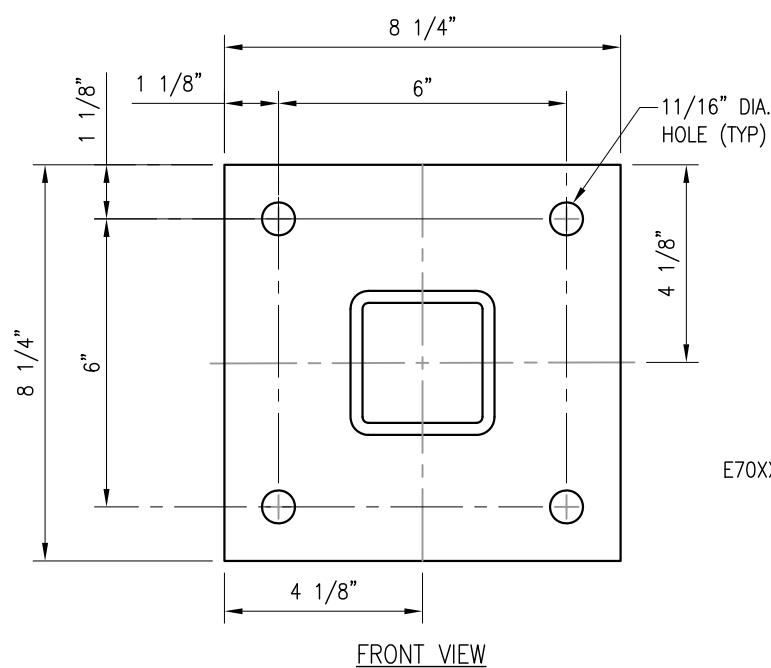
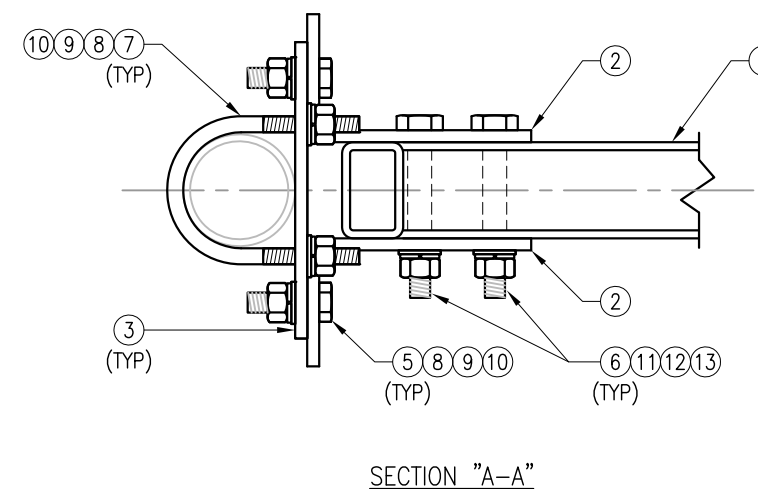
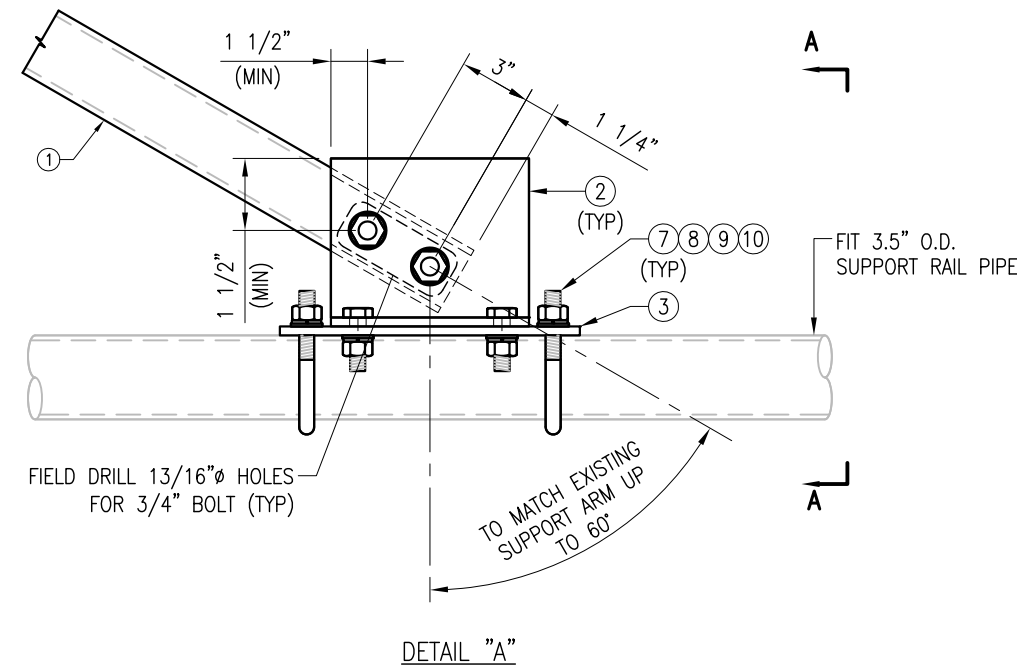
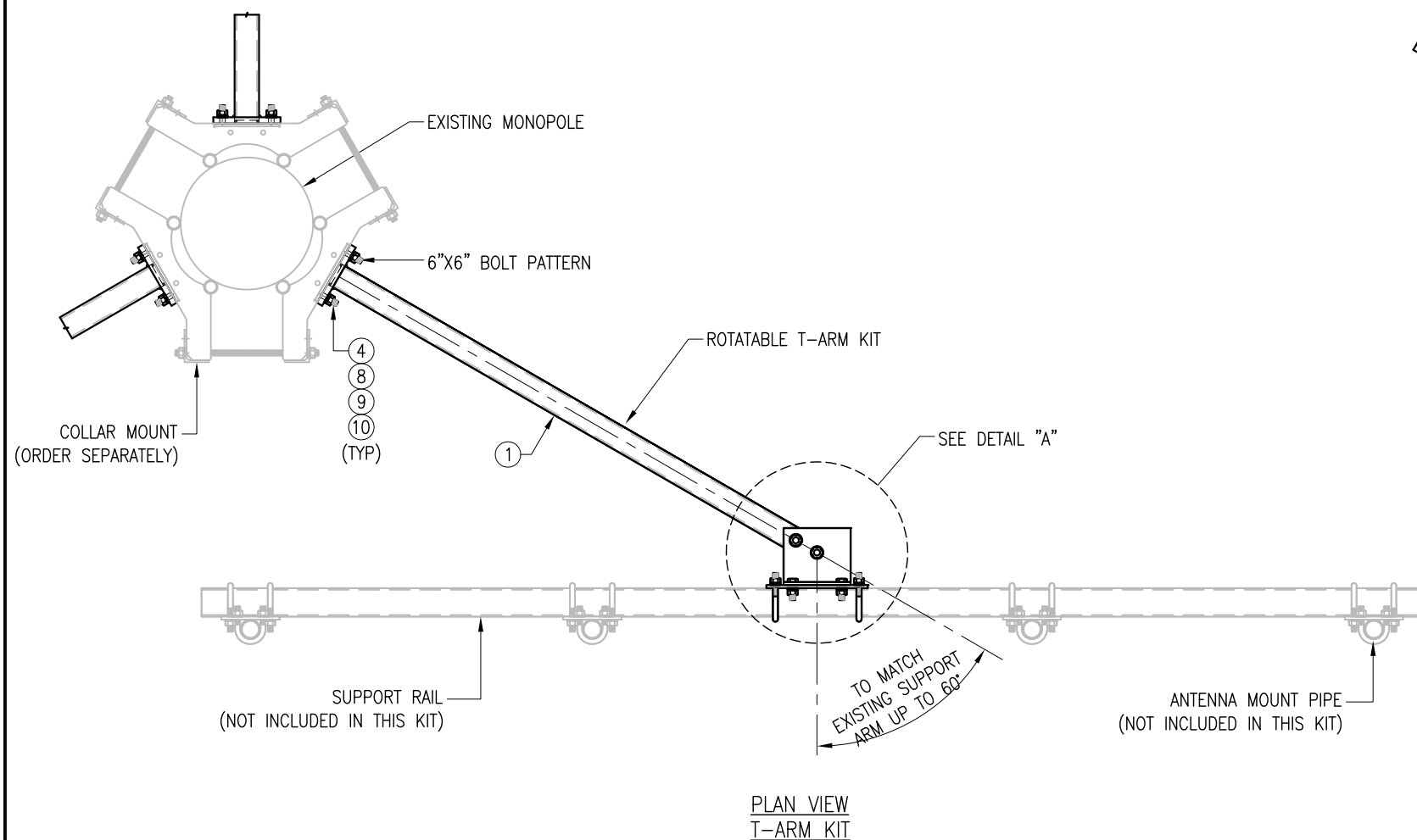
VZSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT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

DRAWN BY: BT CHECKED BY: HMA/KW

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

SHEET TITLE:
 VZSMART-PLK7
 MONOPOLE COLLAR
 MOUNT ASSEMBLY

SHEET NUMBER: VZSMART-PLK7 REV #: 0



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

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

DRAWN BY: BT CHECKED BY: HMA/KW

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

SHEET TITLE:

VZWSMART-SFK4
 T-ARM KIT

SHEET NUMBER: REV #:

VZWSMART-SFK4 0

March 29, 2021

Mr. Andrew Leone
Verizon Wireless
20 Alexander Dr.
Wallingford, CT 06492

Re: Verizon Wireless antenna Model Clarification for CT Siting Council

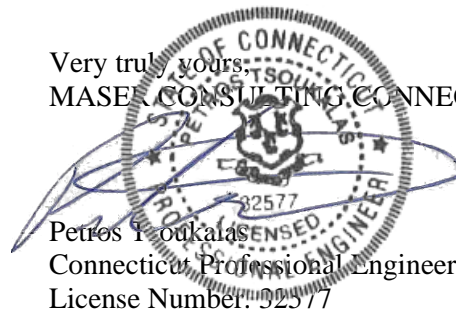
Dear Mr. Leone,

This letter is intended to clarify and confirm the antenna naming convention used by Verizon Wireless as a part of an antenna upgrade project on numerous wireless facilities.

The antenna naming convention “Licensed Sub-6, L-Sub6, nL-Sub6, VZS01” and any other slight variants refer to the 64T64RMMU antenna manufactured by Samsung Electronics. These names are interchangeable and are used in various documents, including but not limited to the “Antenna Mount Analysis”.

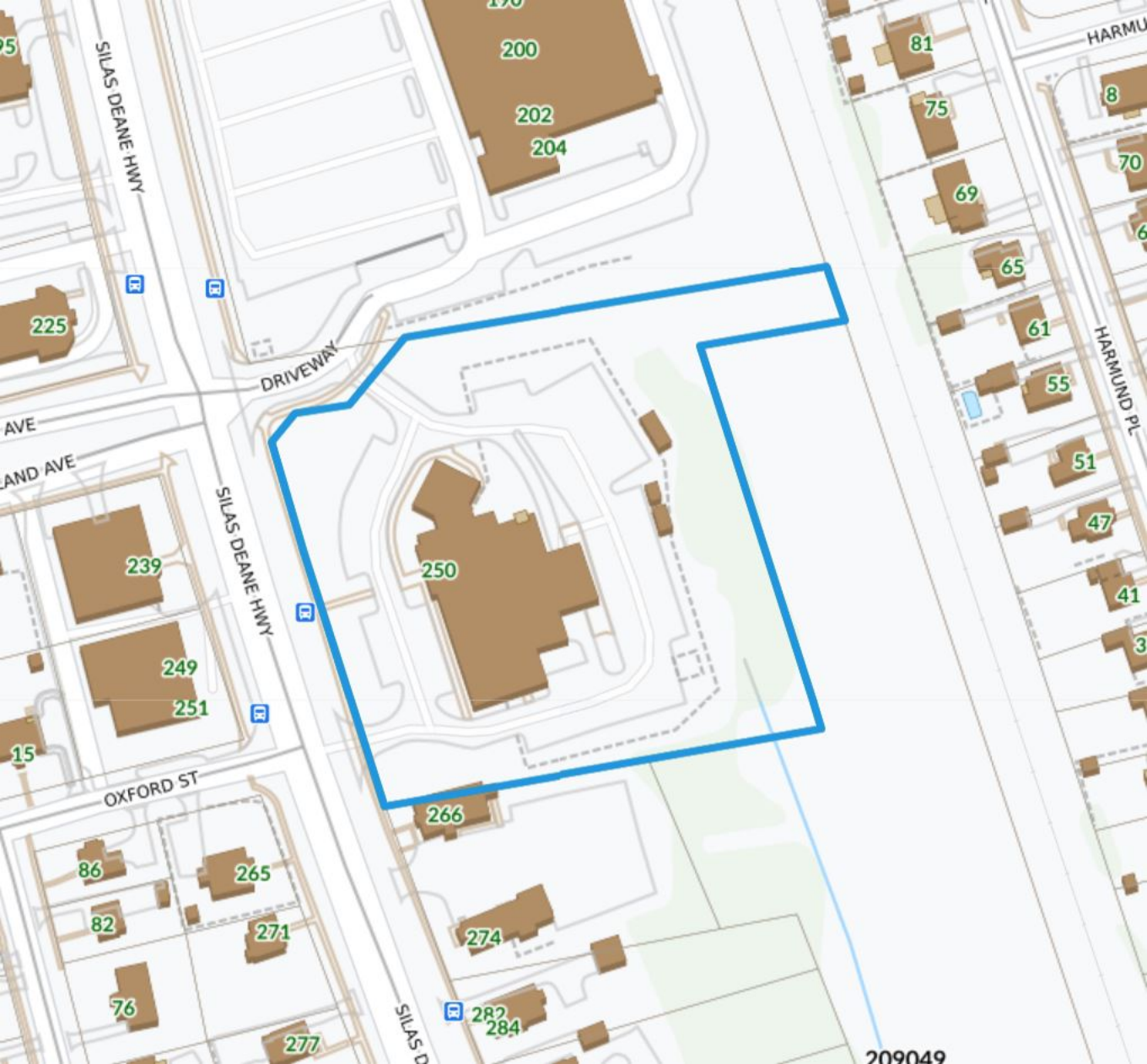
If you have any questions or comments, or require additional information, please do not hesitate to contact me.

Very truly yours,
MASER CONSULTING CONNECTICUT



Petros I. Ioukalis
Connecticut Professional Engineer
License Number: 32577

ATTACHMENT 4



DRIVEWAY

SILAS DEANE HWY

SILAS DEANE HWY

OXFORD ST

SILAS D

HARMU

HARMUND PL

209049

Location:	250 SILAS DEANE HWY					Map/Lot:	210 010		Zone:	GB	Date Printed:	08-06-19
911 Address:						Exempt	X		Nbhd:	C35	Last Update:	07-02-19
Owner Of Record						Volume/Page	Date	Sales Type		Valid	Sale Price	
WETHERSFIELD TOWN OF POLICE FACILITY						0784 /0051	01-12-00			NO	1,300,000	
505 SILAS DEANE HWY WETHERSFIELD , CT 06109												
Additional Owners:												
Prior Owner History												
ROBERT JOSEPH L A & SCOVILLE HOMER						0333 /0023	02-28-83			NO	725,000	
						/						
						/						
						/						
						/						
Permit Number	Date	Cost	New Hous	Status	% Comp	Est Completion	Building Permit					
M-18-0122	12-21-19	4,000	No	Closed	100	06-21-19	EMERGENCY BURNER REPLACEMENT BOILER #2					
E-19-0100	04-26-19	326,280	No	Closed	100	06-26-19	INSTALL & WIRE WPD HQ IP VIDEO SECURITY SYSTEM					
P-19-0090	04-15-19	1,500	No	Closed	100	06-26-19	CHANGE PENDANT SPRINKLER HEADS TO UPRIGHT HEADS IN 2ND COMPUTER ROOM					
M-19-0062	04-12-19	1,500	No	Closed	100	06-26-19	INSTALL PAN UNDER HVAC UNIT					
E-19-0175	04-08-19	10,000	Yes	Closed	100	01-01-01	Install 2 new UPS's , new feeds from MDP-E to mech room to power new UP					
M-19-0047	04-03-19	12,575	No	Closed	100	06-26-19	REPL DISPATCH COOLING ONLY ROOFTOP UNIT					
State Item Codes												
Census/Tract	4923				Code	Quantity	Value	Code	Quantity	Value	Appraised Value	
Dev Map		Dev Lot	3	21- Comm Land	3.52	892,460					Total Land Value	1,274,948
Date	05/14/2018			22-Comm Bldg	1.00	3,815,190					Total Building Value	5,450,266
Inspector	EQ			25-Comm Outbldg	4.00	662,470					Total Outbuilding Value	946,380
Action	Measure & List										Total Market Value	7,671,594
Acres												
Land Type	Acres	490	Rate	Adj	Influence	Total Value	Land Type	Influence	Reason	Comment		
Primary Site	1.00	0.00	500,000	1.00	150	1,250,000	Primary Site	150	Intensive Use			
Comm Excess	2.52	0.00	10,000	0.99	0	24,948						
Total	3.52					1,274,948						
Assessment History (Prior Years as of Oct 1)												
	Current	2018	2017	2016	2015	490 Appraised Totals						
						Type	Acres	Value	Type	Acres	Value	
Land	892,460	892,460	512,300	512,300	512,300							
Building	3,815,190	3,815,190	3,483,700	3,483,700	4,303,900							
Outbuilding	662,470	662,470	820,200	820,200	0							
Total	5,370,120	5,370,120	4,816,200	4,816,200	4,816,200				Totals			
Comments												
CELL POLE 4500 MONTH, 8 CAP RATE 4 X 3000 X 12= 144,000 LESS 25% EXP= GENERATOR BACKUP/6 HOLDING CELLS 2003 CELL TOWER-180' 108,000/.11 CAP= 981,800 POLICE STATION												

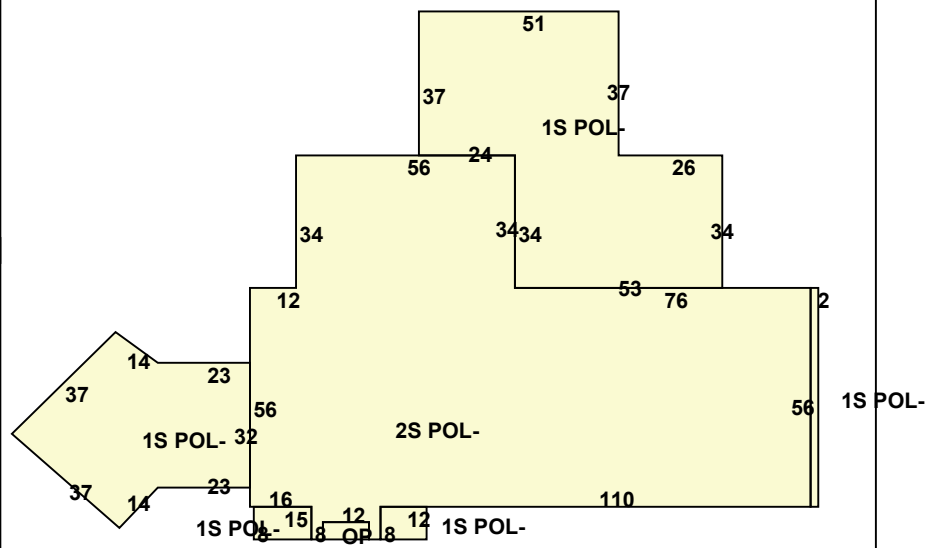
Unique ID: 210010

Wethersfield

Location: 250 SILAS DEANE HWY Unit

Use	Class	Quality	Stry	WH	Area	BG	Units
Police Station	Fireproof Steel	C+	2	12	26,000	NO	

Commercial Building Description		Description	Area/Qty	Value
Building Use	Jail - Police S	Base Value	26,000	5,362,500
Class	Steel & Conc	Central Air	5,362,500	120,656
Overall Condition	Good	Commercial Passenger Elev	2	135,000
Construction Quality	C+	Wet Sprinklers	26,080	58,680
Stories	2.00	Value Before Depr.	0	5,676,836
Year Built	2002	Depr/Adjust Amount	0	227,073
Remodel		Final Value (After Depr)	0	5,449,763
Percent Complete	100			
GLA	26,000			
Basement				
Basement Area				
Basement Unfinished Area		Grade Factor	0	Physical Depreciation % 4
HVAC		Functional Depreciation %	0	Economical Depreciation % 0
Heating Type	Forced Hot Air	Attached Component Computations		
Fuel Type	Natural Gas	Type	Yr Bilt	Condition
Cooling Type	Central 100 %	Open Porch	2002	Average
			48	503
Interior				
Floors	Vinyl Tile			
Walls	Drywall			
Wall Height	12			
Exterior				
Exterior Walls	Brick Veneer			
Roof Cover	Asphalt			
Special Features				
Comm Pass Elev	2			
Wet Sprinkler	26,080			



Detached Component Computations									
Type	Year	Condition	Area/Qty	Value	Type	Year	Condition	Area/Qty	Value
Lights in W/PL	2007	Average/Good	17	186,048					
PreCastConCel	2007	Good	348	16,704					
Paving	2002	Excellent	43,000	68,628					
Cell Tower	2002	Average	1	675,000					




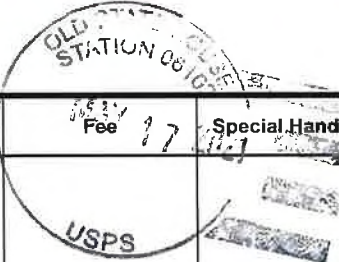
Total Building Value			
Building	1	Value	5,450,266
Valuation Method	C		



ATTACHMENT 5



HARTFORD 9

Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender 	TOTAL NO. of Pieces Received at Post Office™	Affix Stamp Here <i>Postmark with Date of Receipt.</i>   
Postmaster, per (name of receiving employee)			

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Gary A. Evans, Town Manager Town of Wethersfield 505 Silas Deane Highway Wethersfield, CT 06109				
2.	Peter Gillespie, Director of Planning & Economic Development Town of Wethersfield 505 Silas Deane Highway Wethersfield, CT 06109				
3.					
4.					
5.					
6.					