NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Northeast Site Solutions
Denise Sabo
4 Angela's Way, Burlington CT 06013
203-435-3640
denise@northeastsitesolutions.com

January 17, 2022

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Tower Share Application
240 Kensington Road, Berlin CT 06037
Latitude: 41.626194
Longitude: 72.775639
Site# 826217_Crown_Dish

Dear Ms. Bachman:

This letter and attachments are submitted on behalf of Dish Wireless LLC. Dish Wireless LLC plans to install antennas and related equipment to the tower site located at 240 Kensington Road in Berlin, Connecticut.

Dish Wireless LLC proposes to install three (3) 600/1900 5G MHz antenna and six (6) RRUs, at the 171-foot level of the existing 190-foot monopole tower, one (1) Fiber cables will also be installed. Dish Wireless LLC equipment cabinets will be placed within 7x5 lease area. Included are plans by Infinigy, dated January 5, 2022 Exhibit C. Also included is a structural analysis prepared by Morrison Hershfield, dated August 24, 2021, confirming that the existing tower is structurally capable of supporting the proposed equipment. Attached as Exhibit D. The facility was approved by the Town of Berlin planning & Zoning Commission, Special Permit No. 000047 on December 31, 1998. Please see attached Exhibit A.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies 16-50aa, of Dish Wireless LLC intent to share a telecommunications facility pursuant to R.C.S.A. 16-50j-88. In accordance with R.C.S.A., a copy of this letter is being sent to Mayor Mark Kaczynski, Arosha Jayawickrema, Town Manager and Maureen Giusti, Acting Town Planner for the Town of Berlin. A copy is also being sent to the tower owner and property owner. The planned modifications of the facility fall squarely within those activities explicitly provided for in R.C.S.A. 16-50j-89.

1. The proposed modification will not result in an increase in the height of the existing structure. The top of the tower is 190-feet; Dish Wireless LLC proposed antennas will be located at a center line height of 171-feet.

2. The proposed modifications will not result in the increase of the site boundary as depicted on the attached site plan.

3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed local and state criteria. The incremental effect of the proposed changes will be negligent.

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4. The operation of the proposed antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. As indicated in the attached power density calculations, the combined site operations will result in a total power density of 20.58% as evidenced by Exhibit F.

Connecticut General Statutes 16-50aa indicates that the Council must approve the shared use of a telecommunications facility provided it finds the shared use is technically, legally, environmentally, and economically feasible and meets public safety concerns. As demonstrated in this letter, Dish Wireless LLC respectfully indicates that the shared use of this facility satisfies these criteria.

A. Technical Feasibility. The existing monopole has been deemed structurally capable of supporting Dish Wireless LLC proposed loading. The structural analysis is included as Exhibit D.

B. Legal Feasibility. As referenced above, C.G.S. 16-50aa has been authorized to issue orders approving the shared use of an existing tower such as this monopole in Berlin. Under the authority granted to the Council, an order of the Council approving the requested shared use would permit Dish Wireless LLC to obtain a building permit for the proposed installation. Further, a Letter of Authorization is included as Exhibit G, authorizing Dish Wireless LLC to file this application for shared use.

C. Environmental Feasibility. The proposed shared use of this facility would have a minimal environmental impact. The installation of Dish Wireless LLC equipment at the 171-foot level of the existing 190-foot tower would have an insignificant visual impact on the area around the tower. Dish Wireless LLC ground equipment would be installed within the existing facility compound. Dish Wireless LLC shared use would therefore not cause any significant alteration in the physical or environmental characteristics of the existing site. Additionally, as evidenced by Exhibit F, the proposed antennas would not increase radio frequency emissions to a level at or above the Federal Communications Commission safety standard.

D. Economic Feasibility. Dish Wireless LLC will be entering into an agreement with the owner of this facility to mutually agreeable terms. As previously mentioned, the Letter of Authorization has been provided by the owner to assist Dish Wireless LLC with this tower sharing application.

E. Public Safety Concerns. As discussed above, the tower is structurally capable of supporting Dish Wireless LLC proposed loading. Dish Wireless LLC is not aware of any public safety concerns relative to the proposed sharing of the existing tower. Dish Wireless LLC intentions of providing new and improved wireless service through the shared use of this facility is expected to enhance the safety and welfare of local residents and individuals traveling through Berlin.

Sincerely,

Denise Sabo

Denise Sabo
Mobile: 203-435-3640
Fax: 413-521-0558
Office: 4 Angela's Way, Burlington CT 06013
Email: denise@northeastsitesolutions.com

NORTHEAST SITE SOLUTIONS
Turnkey Wireless Development

Attachments cc:

Mayor Mark Kaczynski - Elected Official & Property Owner
Town of Berlin
240 Kensington Road, Berlin, CT 06037

Arosha Jayawickrema - Town Manager
Town of Berlin
240 Kensington Road, Berlin, CT 06037

Maureen Giusti - Acting Town Planner
Town of Berlin
240 Kensington Road, Berlin, CT 06037

Crown Castle, Tower Owner

Exhibit A

Original Facility Approval

VOL. 415 PAGE 0924

Town of Berlin

Department of Development Services

December 31, 1998

NOTICE OF DECISION

BERLIN PLANNING AND ZONING COMMISSION

000047

Application: **Special Permit**

Applicant: **Omnipoint Communications, Inc.**

Location: **Lot 29, Block 54, 240 Kensington Road**

At its Regular Meeting of December 10, 1998, the Berlin Planning and Zoning Commission voted four to two, with one abstention to approve the Special Permit of Omnipoint Communications for a 190' telecommunications tower at Lot 29, Block 54, 240 Kensington Road.

Town of Berlin
Owner of Record

RECEIVED January 7, 1999
AT 9 HR 15 MIN A.M.
AND RECORDED IN
BERLIN LAND RECORDS
VOL 415 PAGE 924
TOWN CLERK

Brian J. Miller, AICP
Director of Development Services

Visit Our Web Site: http://www.edc.ci.berlin.ct.us

Town of Berlin, Connecticut • Planning and Zoning Commission
240 Kensington Road • Berlin, CT 06037 • (860) 828-7060 • Fax (860) 828-7180

Exhibit B

Property Card

Town of Berlin, CT

Property Listing Report

Map Block Lot	9-3-54-29-8026	Building #	1	PID	8026	Account	1101150

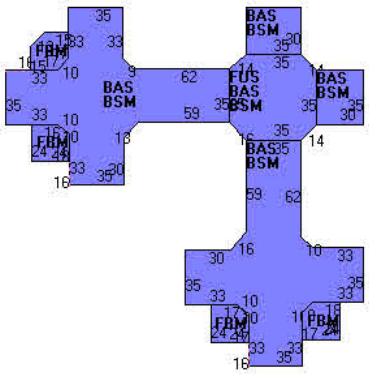
Property Information

Property Location	240 KENSINGTON RD
Owner	BERLIN TOWN OF
Co-Owner	TOWN HALL COMPLEX
Mailing Address	240 KENSINGTON ROAD KENSINGTON CT 06037
Land Use	903I Municipal MDL-96
Land Class	E
Zoning Code	R-15
Census Tract	4003

District	1
Acreage	25.1
Utilities	All Public
Book / Page	0165/0370

Photo

Sketch



Primary Construction Details

Year Built	1975
Building Desc.	Municipal MDL-94
Building Style	Other Municip
Stories	1
Occupancy	1.00
Exterior Walls	Brick Veneer
Exterior Walls 2	
Roof Style	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Walls	Drywall/Plaste
Interior Walls 2	
Interior Floors 1	Carpet
Interior Floors 2	

Heating Fuel	Oil/Gas
Heating Type	Hot Water
AC Type	Central
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	
Kitchen Style	
Fin BSMT Area	
Fin BSMT Quality	
Fin BSMT Area 2	
Fin BSMT Qual 2	

BSMT Garages	0
Fireplaces	0
Whirlpool Tub	0
Building Use	Comm/Ind
Building Condition	G

Industrial / Commercial Details
(*Residential Not Applicable)

Heat / AC	HEAT/AC PKGS
Frame Type	MASONRY
Baths / Plumbing	AVERAGE
Ceiling / Wall	SUS-CEIL & WL
Rooms / Prtns	AVERAGE
Wall Height	10
First Floor Use	903I

Report Created On 11/16/2021

Town of Berlin, CT

Property Listing Report

Map Block Lot	9-3-54-29-8026	Building #	1	PID	8026	Account	1101150

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	12482371	8737600
Extras	0	0
Improvements		
Outbuildings	355700	249000
Land	1283500	898500
Total	14121571	9885100

Outbuilding and Extra Features

Type	Description
MERC VAP/FLU	36 UNITS
Paving - Asphalt	117800 S.F.

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Upper Story, Finished	2870	2870
Basement	20901	0
Basement, Finished	2170	2170
First Floor	20901	20901
Total Area	46842	25941

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
BERLIN TOWN OF	0165/0370	2007-10-02	0
BERLIN TOWN OF	0165/0370	2007-10-02	0
BERLIN TOWN OF	0165/0000	1971-09-17	0
BERLIN TOWN OF	0165/0000	1971-09-17	0

Report Created On 11/16/2021

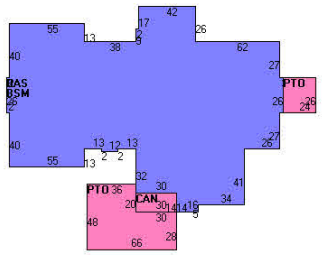
Town of Berlin, CT

Property Listing Report

Map Block Lot	9-3-54-29-8026	Building #	2	PID	8026	Account	1101150

Photo

Sketch



Primary Construction Details

Year Built	1988
Building Desc.	Comm/Ind
Building Style	Other Municip
Stories	1
Occupancy	1.00
Exterior Walls	Brick Veneer
Exterior Walls 2	
Roof Style	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Walls	Drywall/Plaste
Interior Walls 2	
Interior Floors 1	Carpet
Interior Floors 2	

Heating Fuel	Oil/Gas
Heating Type	Hot Water
AC Type	Central
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	
Kitchen Style	
Fin BSMT Area	
Fin BSMT Qual	
Fin BSMT Area 2	
Fin BSMT Qual 2	

BSMT Garages	0
Fireplaces	0
Whirlpool Tubs	0
Building Use	Municipal MDL-94
Building Condition	G

Industrial / Commercial Details
(*Residential Not Applicable)

Heat / AC	HEAT/AC PKGS
Frame Type	MASONRY
Baths / Plumbing	AVERAGE
Ceiling / Wall	SUS-CEIL & WL
Rooms / Prtns	AVERAGE
Wall Height	10
First Floor Use	903I

Sub Areas

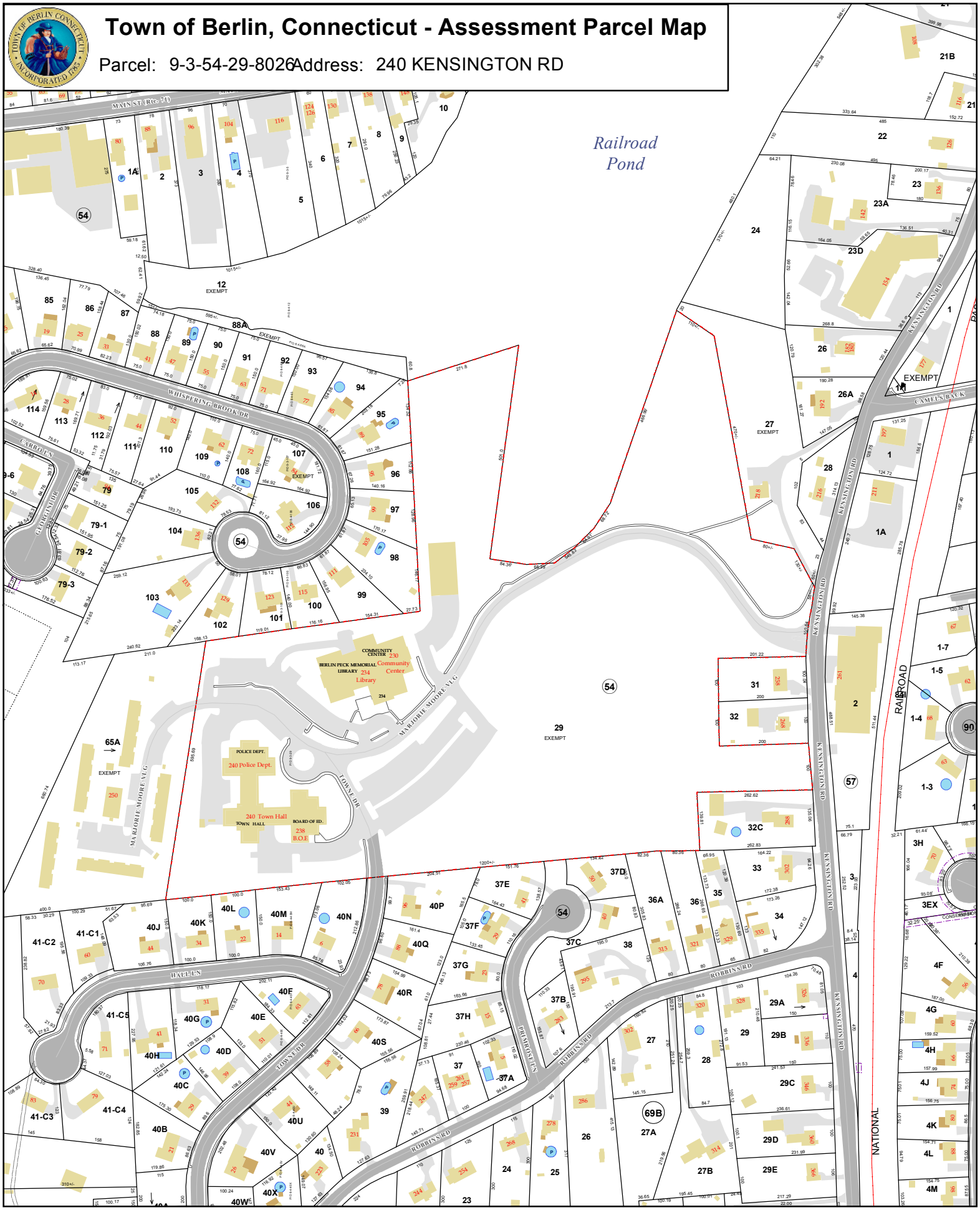
Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Patio	3192	0
Canopy Attached	420	0
Basement	21704	0
First Floor	21704	21704

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area	47020	21704

Report Created On 11/16/2021

Town of Berlin, Connecticut - Assessment Parcel Map

Parcel: 9-3-54-29-8026 Address: 240 KENSINGTON RD



N W E S

NEGEO
New England Geosystems
www.negeosystems.com
282 Main Street Extension - C2
Middletown, CT 06457 • (203) 404 - 7129

Approximate Scale: 1 inch = 274 feet

0 130 260 390 520 Feet

Map Produced: January 2021

Disclaimer: This map is for informational purposes only All information is subject to verification by any user. The Town of Berlin and its mapping contractors assume no legal responsibility for the information contained herein.

Exhibit C

Construction Drawings

DISH Wireless L.L.C. SITE ID:

BOBDL00057A

DISH Wireless L.L.C. SITE ADDRESS:

240 KENSINGTON ROAD
BERLIN, CT 06037

CONNECTICUT CODE OF COMPLIANCE

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

CODE TYPE	CODE
BUILDING	2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS
MECHANICAL	2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS
ELECTRICAL	2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS

SHEET INDEX

SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

TOWER SCOPE OF WORK:
- INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR)
- INSTALL (1) PROPOSED ANTENNA PLATFORM MOUNT
- INSTALL PROPOSED JUMPERS
- INSTALL (6) PROPOSED RRUs (2 PER SECTOR)
- INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP)
- INSTALL (1) PROPOSED HYBRID CABLE

GROUND SCOPE OF WORK:
- INSTALL (1) PROPOSED METAL PLATFORM
- INSTALL (1) PROPOSED ICE BRIDGE
- INSTALL (1) PROPOSED PPC CABINET
- INSTALL (1) PROPOSED EQUIPMENT CABINET
- INSTALL (1) PROPOSED POWER CONDUIT
- INSTALL (1) PROPOSED TELCO CONDUIT
- INSTALL (1) PROPOSED TELCO-FIBER BOX
- INSTALL (1) PROPOSED GPS UNIT
- INSTALL (1) PROPOSED SAFETY SWITCH (IF REQUIRED)
- INSTALL (1) PROPOSED FIBER NID (IF REQUIRED)
- EXISTING METER SOCKET (#89177479) TO BE UTILIZED

SITE PHOTO

UNDERGROUND SERVICE ALERT CBYD 811
UTILITY NOTIFICATION CENTER OF CONNECTICUT
(800) 922-4455
WWW.CBYD.COM
CALL 2 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

811

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

SITE INFORMATION

PROPERTY OWNER:	TOWN OF BERLIN
ADDRESS:	240 KENSINGTON RD C/O TOWN MANAGER BERLIN, CT 06037
TOWER TYPE:	MONOPOLE
TOWER CO SITE ID:	826217
TOWER APP NUMBER:	556634
COUNTY:	HARTFORD
LATITUDE (NAD 83):	41° 37' 34.30" N 41.626194 N
LONGITUDE (NAD 83):	72° 46' 32.33" W 72.775639 W
ZONING JURISDICTION:	CONNECTICUT SITING COUNCIL
ZONING DISTRICT:	R-15
PARCEL NUMBER:	9-3-54-29-8026
OCCUPANCY GROUP:	U
CONSTRUCTION TYPE:	II-B
POWER COMPANY:	NORTHEAST UTILITIES
TELEPHONE COMPANY:	TBD

PROJECT DIRECTORY

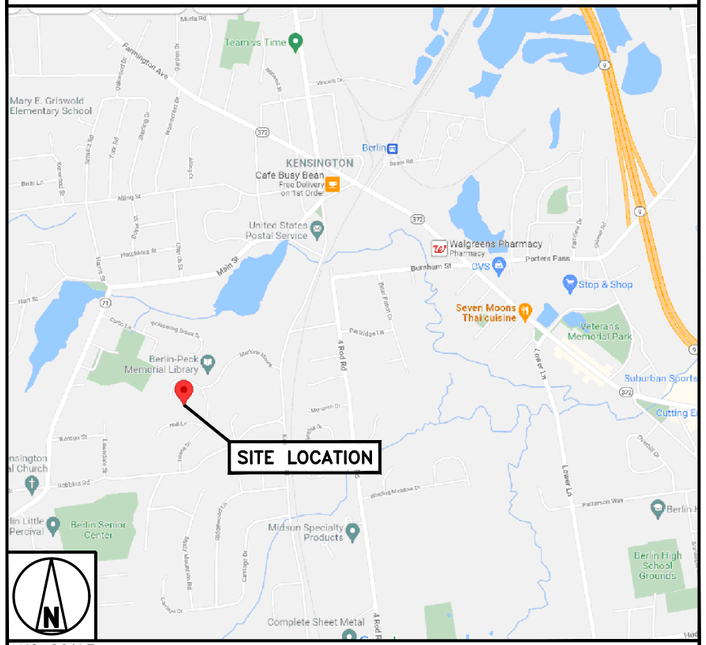
APPLICANT:	DISH Wireless L.L.C. 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
TOWER OWNER:	CROWN CASTLE 2000 CORPORATE DRIVE CANONSBURG, PA 15317 (877) 486-9377
SITE DESIGNER:	INFINIGY ENGINEERS, PLLC 2500 W. HIGGINS RD. STE. 500 HOFFMAN ESTATES, IL 60169 (847) 648-4068
SITE ACQUISITION:	CORWIN DIXON CORWIN.DIXON@CROWNCASTLE.COM
CONSTRUCTION MANAGER:	CHAD WILCOX 860.634.9600 CHAD.WILCOX@DISH.COM
RF ENGINEER:	BOSSENER CHARLES BOSSENER.CHARLES@DISH.COM

DIRECTIONS

DIRECTIONS FROM BRADLEY INTERNATIONAL AIRPORT:

DEPART AND HEAD TOWARD MAXIM RD, TURN LEFT ONTO MAXIM RD, BEAR RIGHT ONTO BRAINARD RD, TURN RIGHT ONTO AIRPORT RD, TAKE THE RAMP ON THE LEFT FOR CT-15 SOUTH / I-91 SOUTH / US-5 SOUTH AND HEAD TOWARD NEW HAVEN / WETHERSFIELD, HEAD RIGHT ON THE RAMP FOR CT-9 NORTH TOWARD NEW BRITAIN, HEAD LEFT ON THE RAMP FOR CT-571 TOWARD KENSINGTON, TAKE THE RAMP ON THE RIGHT FOR CT-71 AND HEAD TOWARD KENSINGTON, TURN LEFT ONTO CT-71 / NEW BRITAIN RD, TURN RIGHT ONTO MARJORIE MOORE VILLAGE, TURN RIGHT TO STAY ON MARJORIE MOORE VILLAGE, TURN LEFT, ARRIVE AT 240 KENSINGTON ROAD, BERLIN, CT 06037

VICINITY MAP



NO SCALE

dish wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

CROWN CASTLE
2000 CORPORATE DRIVE
CANONSBURG, PA 15317

INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
2500 W. HIGGINS RD. SUITE 500 | HOFFMAN ESTATES, IL 60169
PHONE: 847-648-4068 | FAX: 518-690-0793
WWW.INFINIGY.COM

STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
A	09/03/2021	ISSUED FOR REVIEW
B	12/09/2021	ISSUED FOR REVIEW
0	01/05/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER

2039-Z5555C

DISH Wireless L.L.C.
PROJECT INFORMATION

BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE

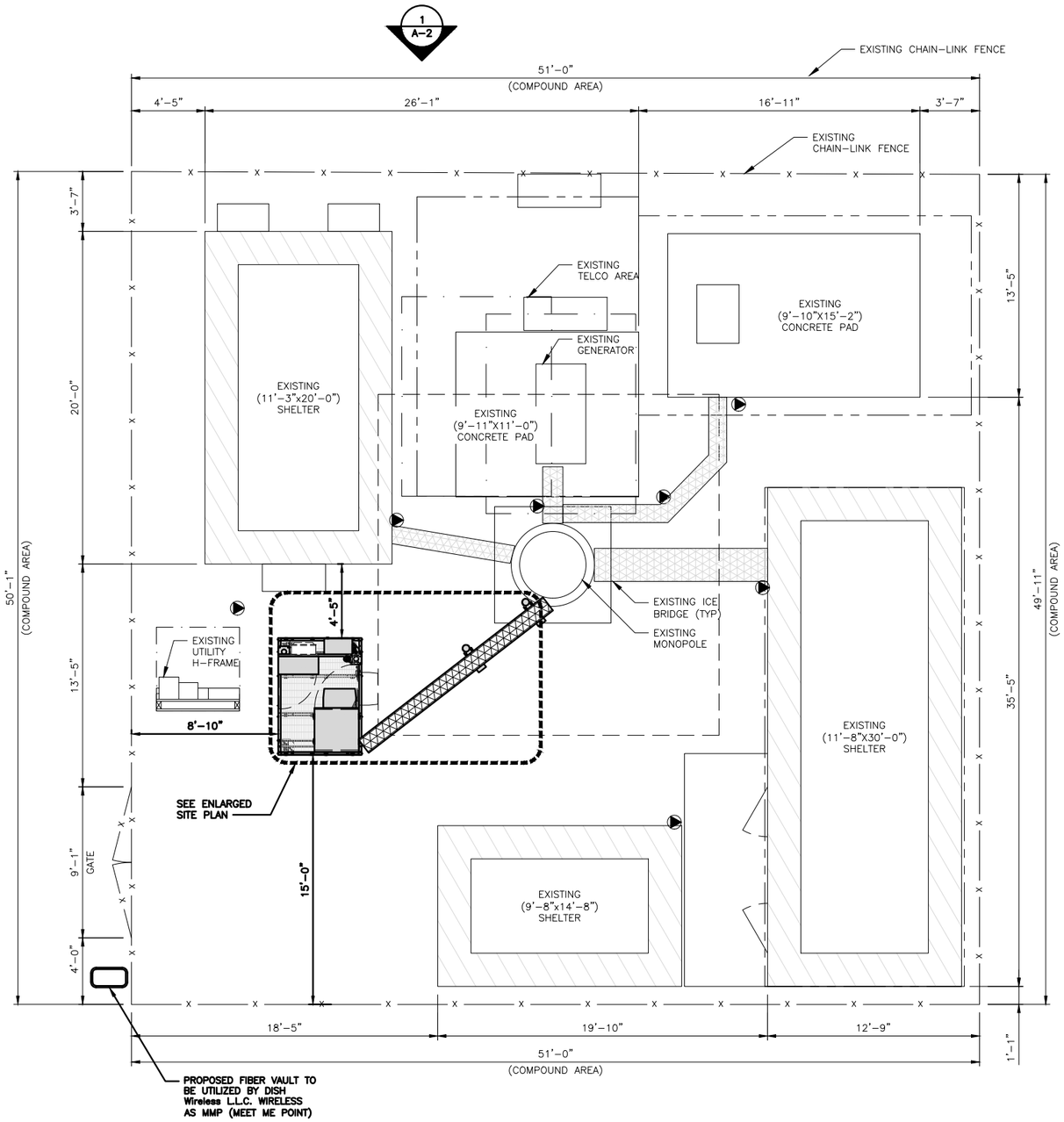
TITLE SHEET

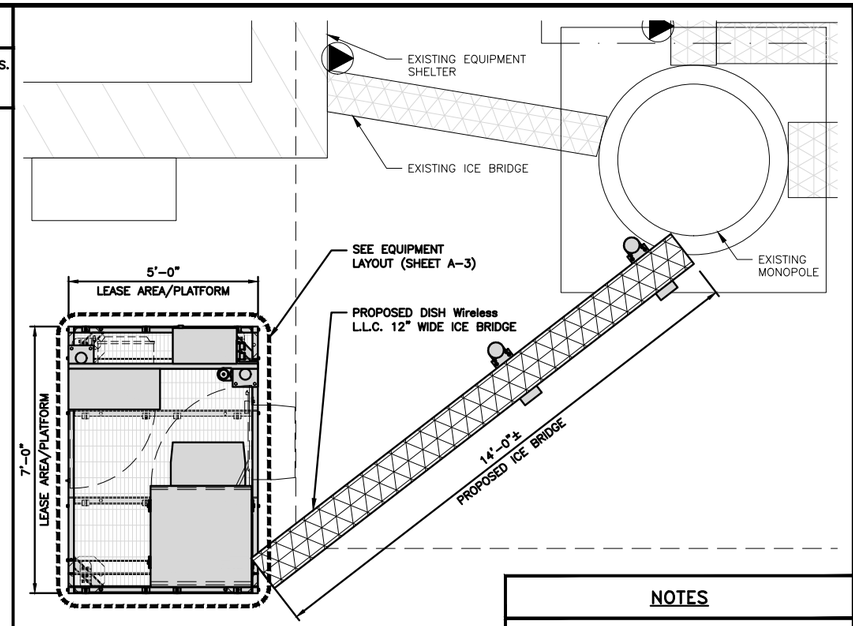
SHEET NUMBER

T-1

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.





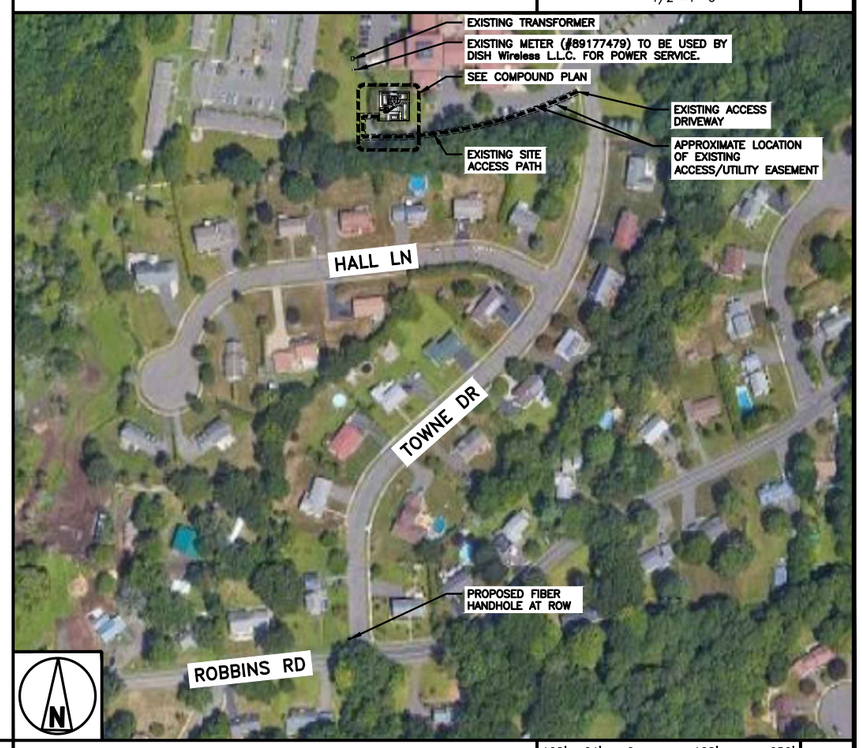
NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.
3. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.

ENLARGED SITE PLAN

12" 6" 0 1' 2' 3' 4' 5'
1/2"=1'-0"

2



OVERALL SITE PLAN

16' 12' 8' 4' 0 16' 32'
1/16"=1'-0"

1

SITE PLAN

128' 64' 0 128' 256'
1/128"=1'-0"

3

DISH Wireless L.L.C. TEMPLATE VERSION 46 – 12/03/2021

dish wireless.
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

CROWN CASTLE
2000 CORPORATE DRIVE
CANONSBURG, PA 15317

INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless
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HOFFMAN ESTATES, IL 60169
PHONE: 847-648-4068 | FAX: 518-690-0793
WWW.INFINIGY.COM

STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

CONSTRUCTION DOCUMENTS

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A&E PROJECT NUMBER
2039-Z5555C

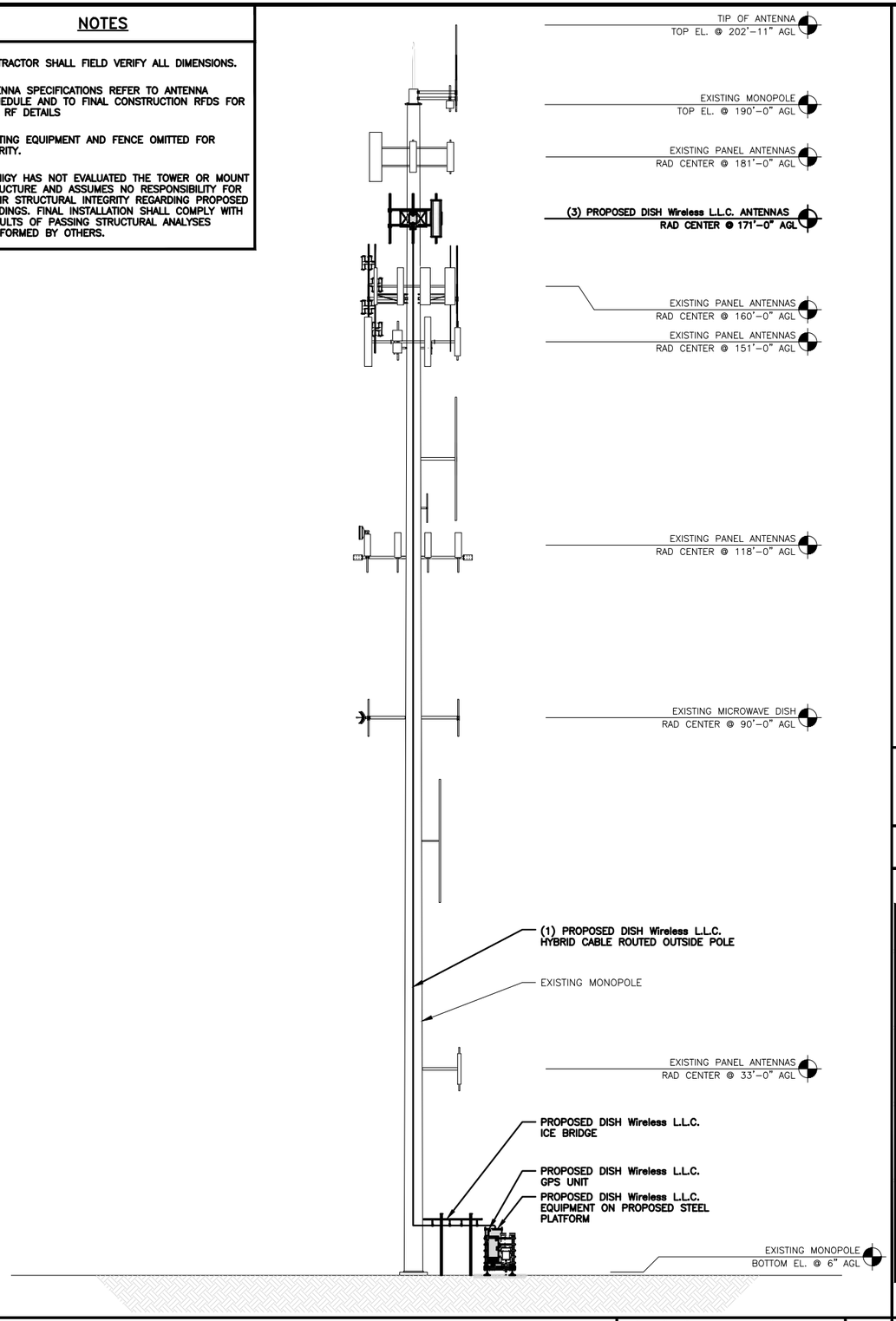
DISH Wireless L.L.C.
PROJECT INFORMATION
BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
OVERALL AND ENLARGED SITE PLAN

SHEET NUMBER
A-1

NOTES

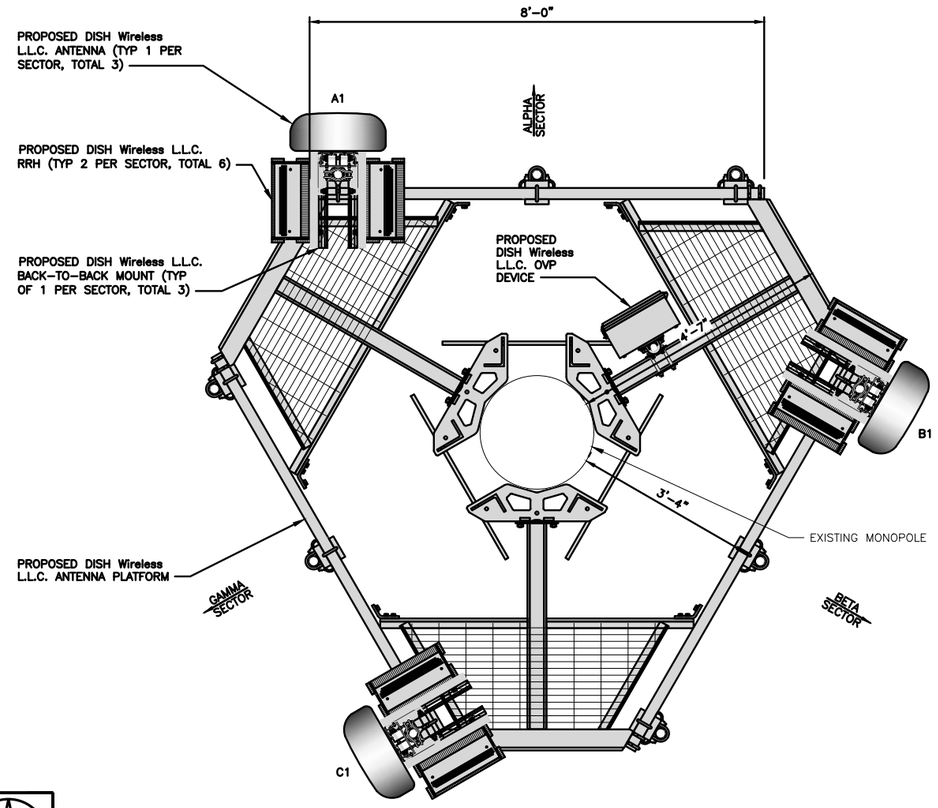
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.
4. INFINIGY HAS NOT EVALUATED THE TOWER OR MOUNT STRUCTURE AND ASSUMES NO RESPONSIBILITY FOR THEIR STRUCTURAL INTEGRITY REGARDING PROPOSED LOADINGS. FINAL INSTALLATION SHALL COMPLY WITH RESULTS OF PASSING STRUCTURAL ANALYSES PERFORMED BY OTHERS.



PROPOSED NORTH ELEVATION

12' 8' 4' 0 10' 20'
3/32"=1'-0"

1



ANTENNA LAYOUT

12" 6" 0 1' 2' 3'
3/4"=1'-0"

2

SECTOR POS.	ANTENNA					TRANSMISSION CABLE	RRH			OVP
	EXISTING OR PROPOSED	MANUFACTURER – MODEL NUMBER	TECH	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH	MANUFACTURER – MODEL NUMBER	TECH	POS.	MANUFACTURER MODEL
A1	PROPOSED	JMA WIRELESS – MX08FRO665-21	5G	0°	171'-0"	(1) HIGH-CAPACITY HYBRID CABLE (221' LONG)	FUJITSU – TA08025-B604	5G	A1	RAYCAP-RDIDC-9181-PF-48
A2	--	--	--	--	--		FUJITSU – TA08025-B605	5G	A1	
A3	--	--	--	--	--		--	--	--	
B1	PROPOSED	JMA WIRELESS – MX08FRO665-21	5G	120°	171'-0"	SHARED W/ALPHA	FUJITSU – TA08025-B604	5G	B1	SHARED W/ALPHA
B2	--	--	--	--	--		FUJITSU – TA08025-B605	5G	B1	
B3	--	--	--	--	--		--	--	--	
C1	PROPOSED	JMA WIRELESS – MX08FRO665-21	5G	240°	171'-0"	SHARED W/ALPHA	FUJITSU – TA08025-B604	5G	C1	SHARED W/ALPHA
C2	--	--	--	--	--		FUJITSU – TA08025-B605	5G	C1	
C3	--	--	--	--	--		--	--	--	

NOTES

1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS.
2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.

ANTENNA SCHEDULE

NO SCALE

3

dish wireless.
5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

CROWN CASTLE
2000 CORPORATE DRIVE
CANONSBURG, PA 15317

INFINIGY
FROM ZERO TO INFINIGY
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PHONE: 847-648-4068 | FAX: 518-690-0793
WWW.INFINIGY.COM

STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

CONSTRUCTION DOCUMENTS

SUBMITTALS

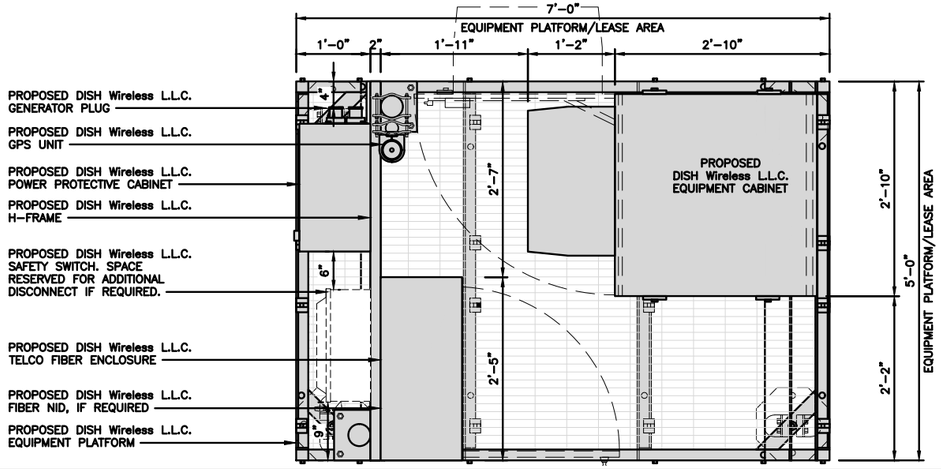
REV	DATE	DESCRIPTION
A	09/03/2021	ISSUED FOR REVIEW
B	12/09/2021	ISSUED FOR REVIEW
0	01/05/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
2039-Z5555C

DISH Wireless L.L.C.
PROJECT INFORMATION
BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
ELEVATION, ANTENNA LAYOUT AND SCHEDULE

SHEET NUMBER
A-2



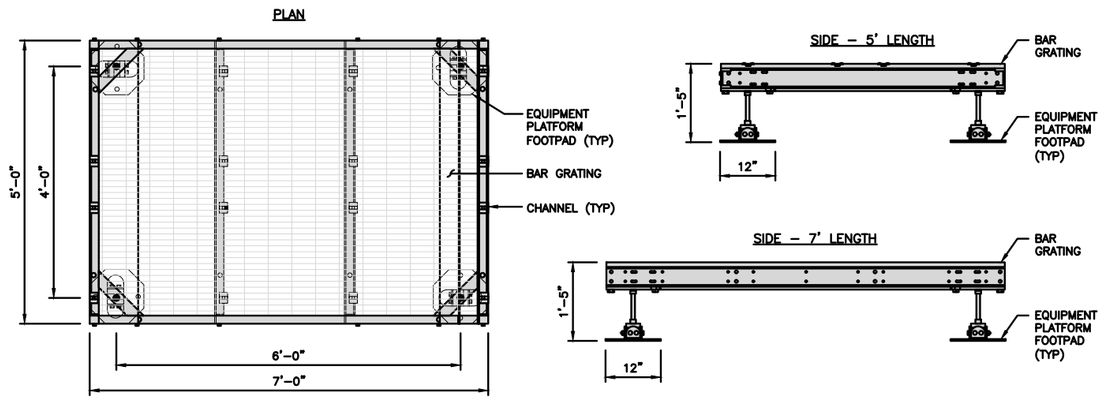
PLATFORM EQUIPMENT PLAN

12" 9" 6" 3" 0 1' 2'
1"=1'-0"

1

COMMSCOPE MTC4045LP 5X7 PLATFORM	
DIMENSIONS (HxWxD)	16"x84"x60"
TOTAL WEIGHT	423 LBS

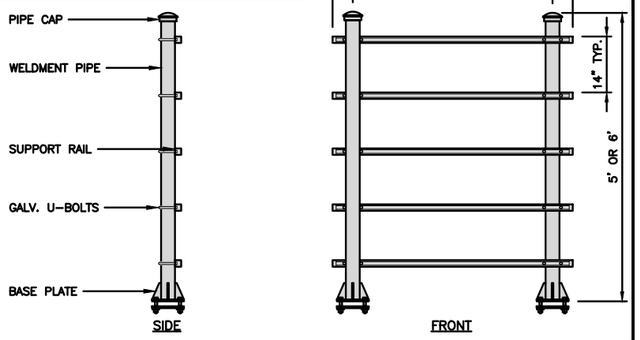
NOTE:
GC TO PROVIDE EXTENDED THREAD FOR PLATFORM IF REQUIRED HEIGHT EXCEEDS 17"



PLATFORM DETAIL — NO SCALE — 2

COMMSCOPE MTC4045HFLD H-FRAME	
UNISTRUT/SUPPORT RAILS QTY	5
WEIGHT	59.74 lbs

NOTE:
OR DISH Wireless L.L.C. APPROVED EQUIVALENT

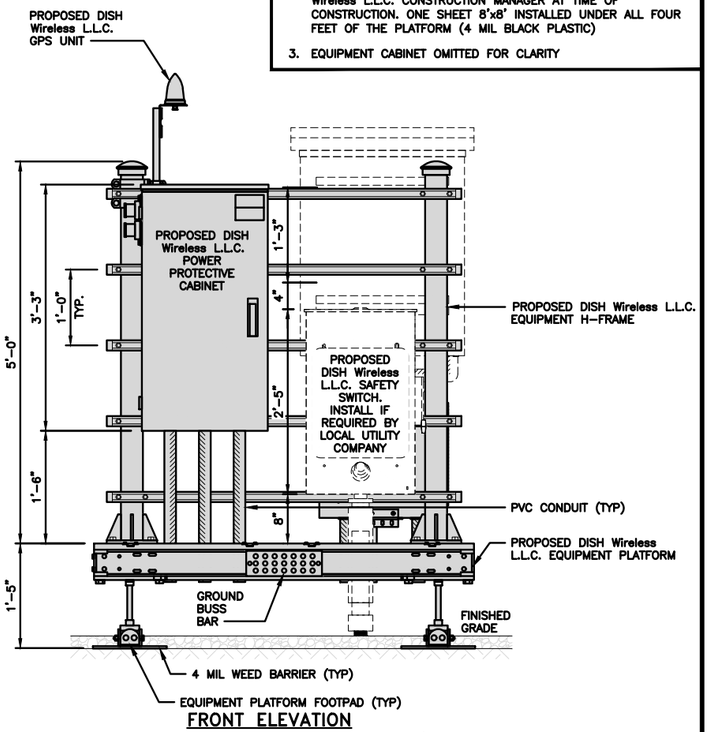


H-FRAME DETAIL — NO SCALE — 3

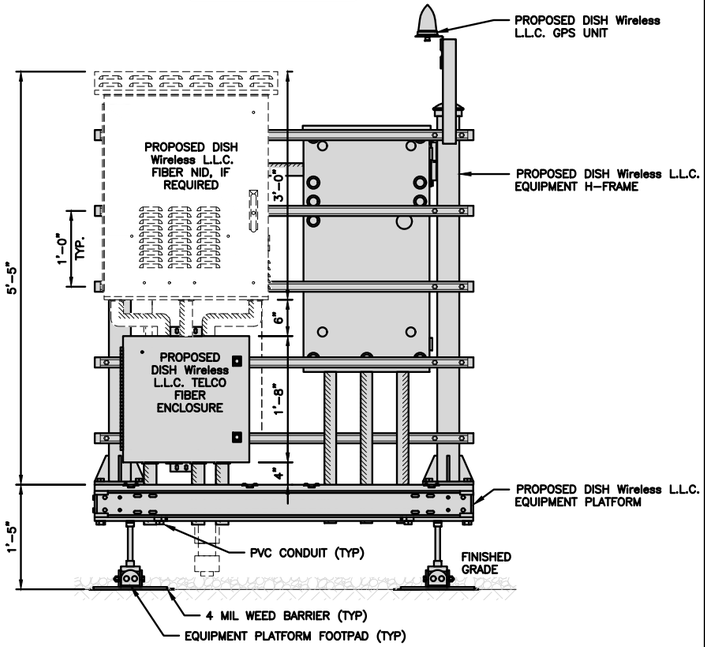
NOT USED — NO SCALE — 4

NOTES

1. CONTRACTOR TO BURY PLATFORM FEET WITH A MINIMUM OF 2" OF FILL PER EXISTING SITE SURFACE
2. WEED BARRIER FABRIC TO BE ADDED AT DISCRETION OF DISH Wireless L.L.C. CONSTRUCTION MANAGER AT TIME OF CONSTRUCTION. ONE SHEET 8'x8' INSTALLED UNDER ALL FOUR FEET OF THE PLATFORM (4 MIL BLACK PLASTIC)
3. EQUIPMENT CABINET OMITTED FOR CLARITY



FRONT ELEVATION



BACK ELEVATION

H-FRAME EQUIPMENT ELEVATION — 12" 9" 6" 3" 0 1' 2' 1"=1'-0" — 5

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STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

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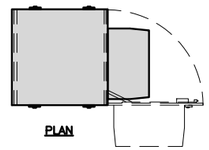
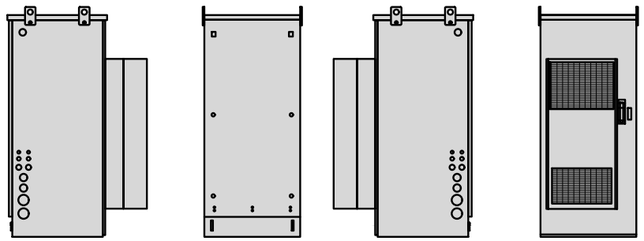
DISH Wireless L.L.C.
PROJECT INFORMATION
BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
EQUIPMENT PLATFORM AND H-FRAME DETAILS

SHEET NUMBER
A-3

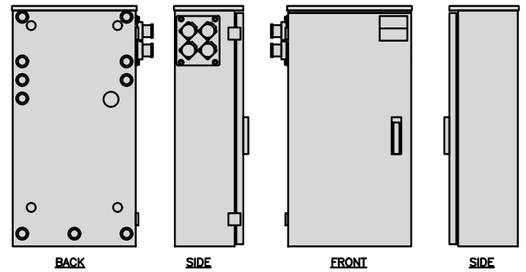
CHARLES INDUSTRY HEX CUBE–PM639155N4	
DIMENSIONS (HxWxD):	74"x32"x32"
POWER PLANT:	–48VDC ABB/600W
TOTAL WEIGHT (EMPTY)	408 LBS





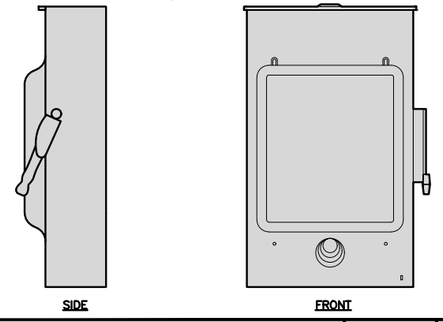
CABINET DETAIL | NO SCALE | 1

RAYCAP PPC RDIAC–2465–P–240–MTS	
ENCLOSURE DIMENSIONS (HxWxD):	39"x22.855"x12.593
WEIGHT:	80 lbs
OPERATING AC VOLTAGE	240/120 1 PHASE 3W+G



POWER PROTECTION CABINET (PPC) DETAIL | NO SCALE | 2

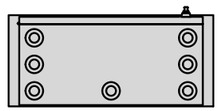
SQUARE D SAFETY SWITCHES D224NRB	
ENCLOSURE DIM (HxWxD)	29.25"x19.00"x8.50"
ENCLOSURE TYPE	NEMA 3R RAINPROOF
UL LISTED	FILE E–2875

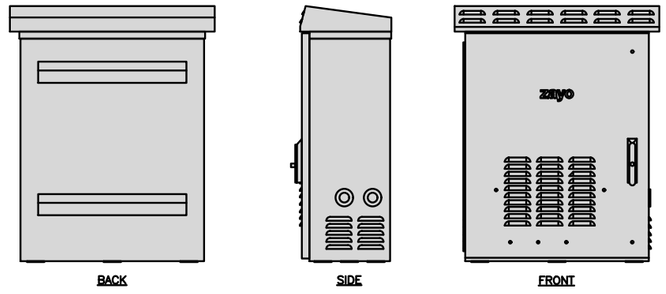


SAFETY SWITCH DETAIL | NO SCALE | 3

NOT USED | NO SCALE | 4

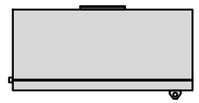
ZAYO 5RU (LEFT SWING DOOR) FIBER NID ENCLOSURE	
DIMENSIONS (HxWxD)	36.1"x29"x12.9"
WEIGHT	85 lbs

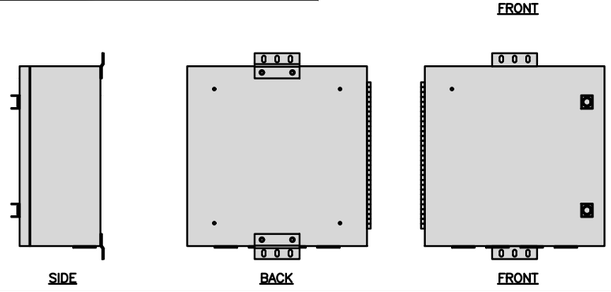




FIBER NID ENCLOSURE DETAIL | NO SCALE | 5

CHARLES CFIT–PF2020DSH1 FIBER TELCO ENCLOSURE	
ENCLOSURE DIMS (HxWxD)	20"x20"x9"
ENCLOSURE WEIGHT	20 lbs
MOUNTING	WALL
COMPLIANCE	TYPE 4

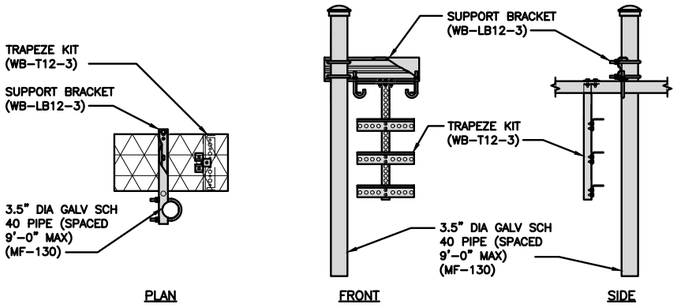




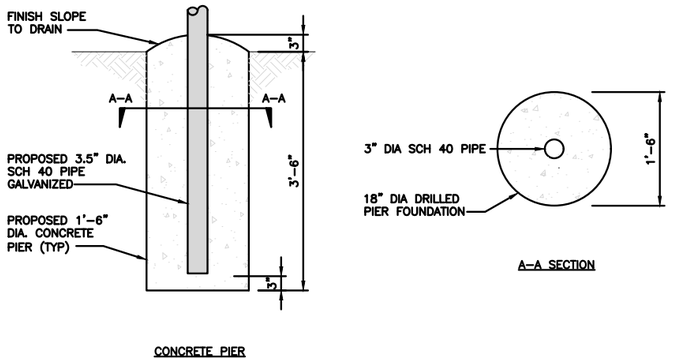
FIBER TELCO ENCLOSURE DETAIL | NO SCALE | 6

COMMSCOPE WB–K110–B WAVEGUIDE BRIDGE KIT	
DIMENSIONS (HxL)	160"x10'
WEIGHT/ VOLUME	325.0 LBS
CABLE RUN (QTY)	12

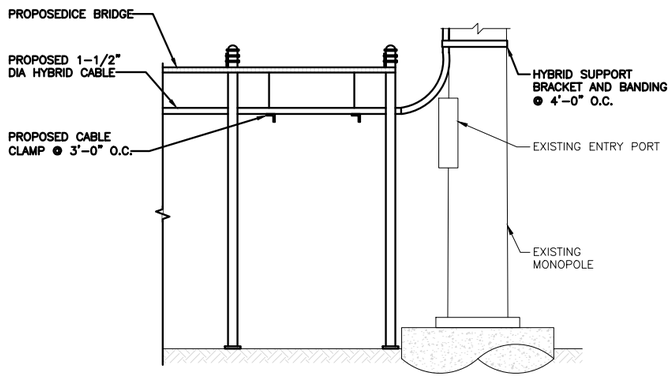
INCLUDED PRODUCTS:	WB–T12–3 TRAPEZE KIT, 3 RUNGS
	WB–LB12–3 SUPPORT BRACKET
	MF–130 DIRECT BURIAL PIPE COLUMN, 13'–4"



ICE BRIDGE DETAIL | NO SCALE | 7



TYPICAL ICE BRIDGE CONCRETE PIER DETAIL | NO SCALE | 8



HYBRID CABLE RUN | NO SCALE | 9

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DRAWN BY:	CHECKED BY:	APPROVED BY:
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RFDS REV #: N/A

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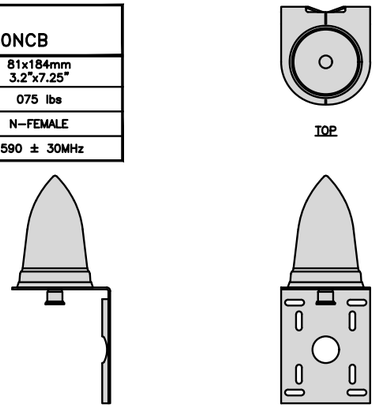
DISH Wireless L.L.C.
PROJECT INFORMATION
BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

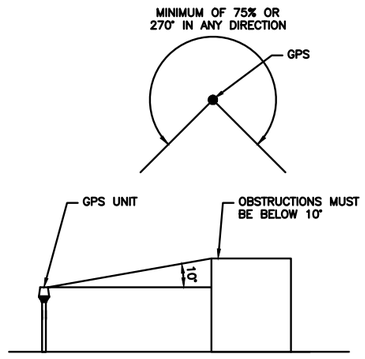
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-4

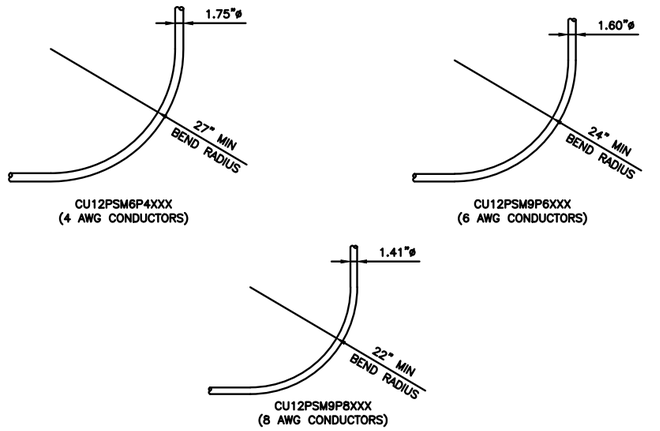
PCTEL GPSGL-TMG-SPI-40NCB	
DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"
WEIGHT W/ACCESSORIES	075 lbs
CONNECTOR	N-FEMALE
FREQUENCY RANGE	1590 ± 30MHz



GPS DETAIL | NO SCALE | 1



GPS MINIMUM SKY VIEW REQUIREMENTS | NO SCALE | 2



CABLES UNLIMITED HYBRID CABLE
MINIMUM BEND RADIUSES | NO SCALE | 3

NOT USED | NO SCALE | 4

NOT USED | NO SCALE | 5

NOT USED | NO SCALE | 6

NOT USED | NO SCALE | 7

NOT USED | NO SCALE | 8

NOT USED | NO SCALE | 9

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LICENSED PROFESSIONAL ENGINEER
1/5/2022

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RCD	SS	CJW

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PROJECT INFORMATION
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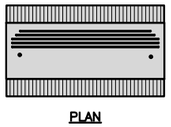
240 KENSINGTON ROAD
BERLIN, CT 06037

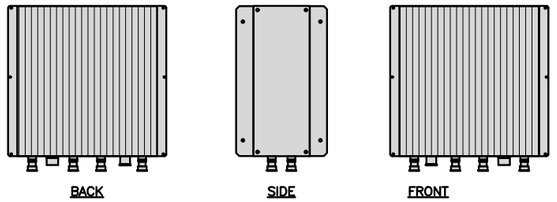
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-5

FUJITSU TRIPLE BAND TA08025-B605	
DIMENSIONS (HxWxD)	14.9"x15.7"x9"
WEIGHT	74.95 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



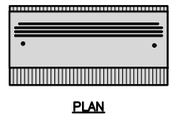
PLAN



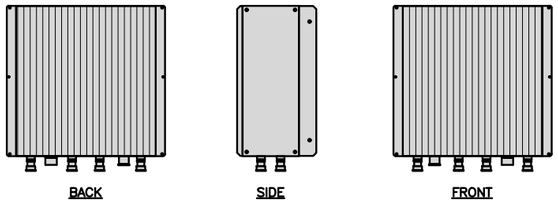
BACK SIDE FRONT

RRH DETAIL | NO SCALE | 1

FUJITSU DUAL BAND TA08025-B604	
DIMENSIONS (HxWxD)	14.9"x15.7"x7.8"
WEIGHT	63.9 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



PLAN

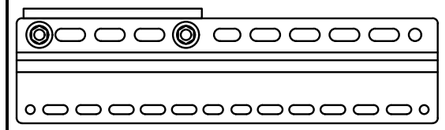


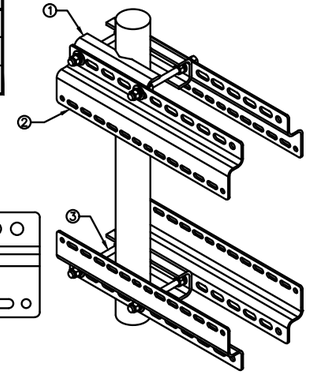
BACK SIDE FRONT

RRH DETAIL | NO SCALE | 2

SABRE DOUBLE Z-BRACKET C10123155	
DIMENSIONS (HxWxD) (1 BRACKET)	5"x20"x1-13/16"
WEIGHT (FULL ASSEMBLY)	35.79 lbs
PACKAGE QUANTITY	4

#	DESCRIPTION
1	PLATE, CHANNEL BRACKET
2	RRH Z BRACKET, 3/16"
3	THREADED ROD ASSEMBLY 1/2"x12"



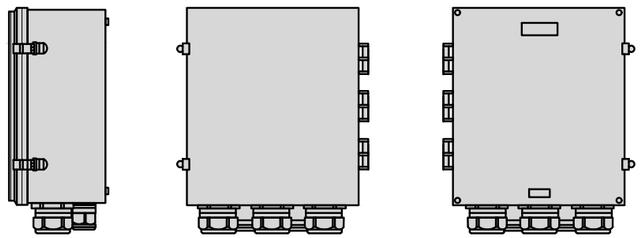


NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

RRH MOUNT DETAIL | NO SCALE | 3

RAYCAP RDIDC-9181-PF-48 DC SURGE PROTECTION (OVP)	
DIMENSIONS (HxWxD)	18.98"x14.39"x8.15"
WEIGHT	21.82 LBS

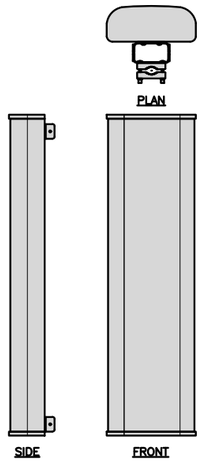
PLAN



SIDE BACK FRONT

SURGE SUPPRESSION DETAIL (OVP) | NO SCALE | 4

JMA MX08FRO665-21	
DIMENSIONS (HxWxD)	72"x20.0"x8.0"
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE
WEIGHT	64.5 lbs
WEIGHT WITH BRACKETS	82.5 lbs



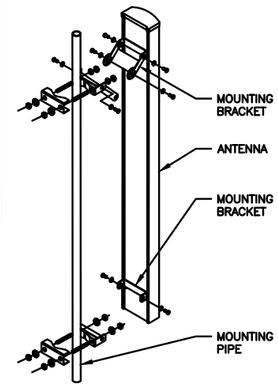
PLAN

SIDE FRONT

ANTENNA DETAIL | NO SCALE | 5

M04 MOUNTING BRACKET HPA-33R-BUU-H4-K	
WIDTH	5"
DEPTH	2"
HEIGHT	8"
TOTAL WEIGHT	1.5 lbs
HOUSING MATERIAL	ASA/ABS/ALUMINUM
RADOME COLOR	LIGHT GRAY
CONNECTOR	1x8-PIN DAISY CHAIN

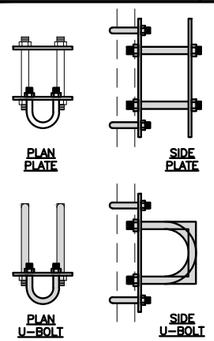
NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT



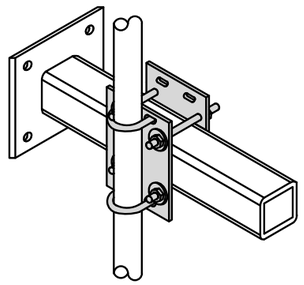
ANTENNA MOUNTING DETAIL | NO SCALE | 6

COMMSCOPE XP-2040 CROSSOVER PLATE	
DIMENSIONS (HxW)	10"x12"
WEIGHT	11 lbs

NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT



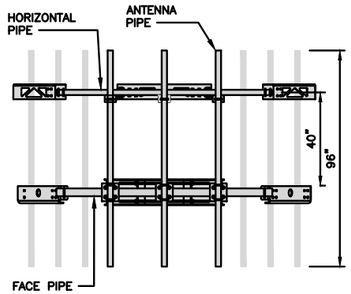
PLAN PLATE SIDE PLATE
PLAN U-BOLT SIDE U-BOLT

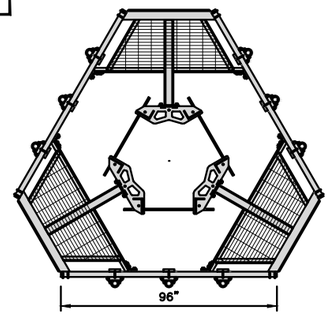


RRH/OVP MOUNT DETAIL | NO SCALE | 7

COMMSCOPE MC-PK8-DSH	
FACE WIDTH	96"
WEIGHT	1373.08 lbs
NOTE: 15" TO 38" O.D.	

NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT





ANTENNA PLATFORM DETAIL | NO SCALE | 8

NOT USED | NO SCALE | 9

DISH Wireless L.L.C. TEMPLATE VERSION 46 - 12/03/2021

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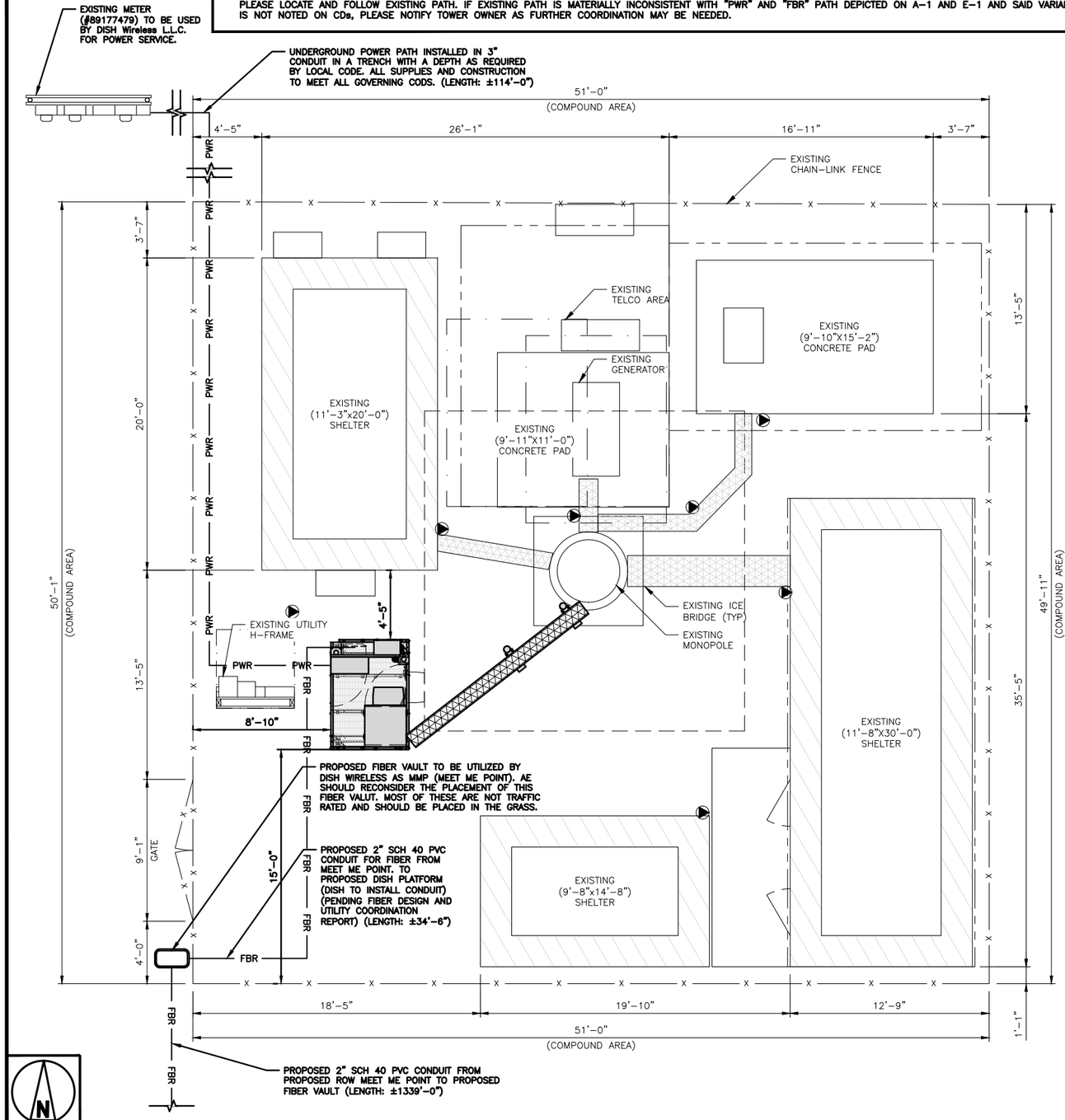
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-6

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL PROPOSED UNDERGROUND UTILITY CONDUIT ROUTE.
2. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.
3. DUE TO UTILITY EASEMENT RIGHTS SPECIFIED IN THE GROUND LEASE, CUSTOMER MAY INSTALL EQUIPMENT WITHIN SPECIFIED UTILITY EASEMENT AREA. "PWR" AND "FBR" PATH DEPICTED ON A–1 AND E–1 REPRESENT PLANNED ROUTING BASED ON BEST AVAILABLE INFORMATION INCLUDING BUT NOT LIMITED TO A SURVEY, EXHIBITS, METES AND BOUNDS OF THE UTILITY EASEMENT, FIELD VERIFICATION, PRIOR PROJECT DOCUMENTATION AND OTHER REAL PROPETY RIGHTS DOCUMENTS. WHEN INSTALLING THE UTILITIES PLEASE LOCATE AND FOLLOW EXISTING PATH. IF EXISTING PATH IS MATERIALLY INCONSISTENT WITH "PWR" AND "FBR" PATH DEPICTED ON A–1 AND E–1 AND SAID VARIANCE IS NOT NOTED ON CDs, PLEASE NOTIFY TOWER OWNER AS FURTHER COORDINATION MAY BE NEEDED.



UTILITY ROUTE PLAN

4' 2' 0 4' 8'
1/4"=1'–0"

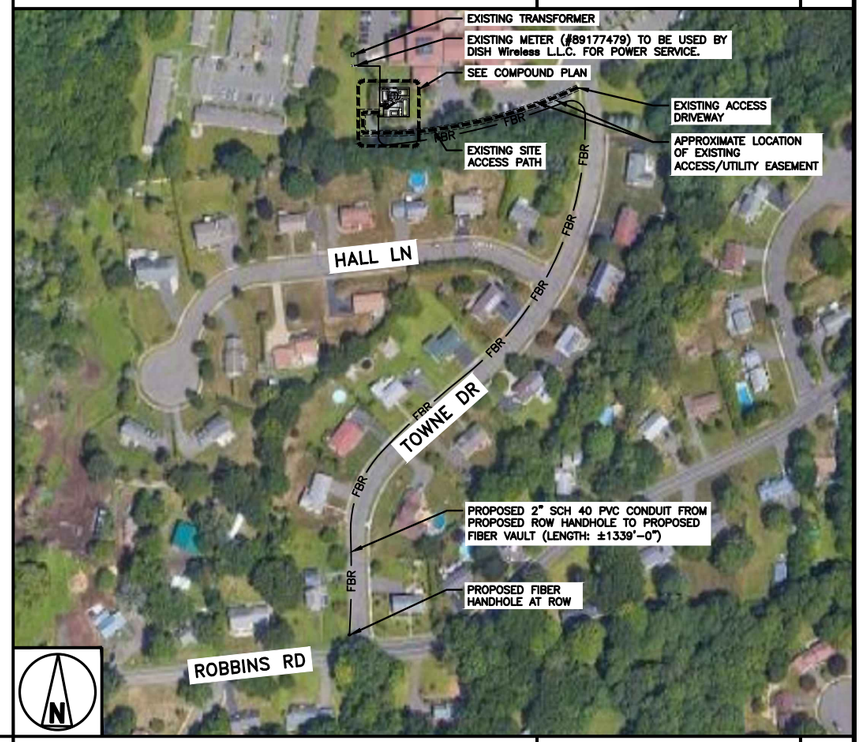
1

DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND –48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY –48V.

1. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
2. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL STATE AND LOCAL CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
3. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO CONSTRUCTION.
4. CONDUIT ROUGH–IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION CONFLICTS. VERIFY WITH THE MECHANICAL EQUIPMENT CONTRACTOR AND COMPLY AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE ALL BREAKERS, CONDUITS AND CIRCUITS AS REQUIRED FOR A COMPLETE SYSTEM.
6. CONTRACTOR SHALL PROVIDE PULL BOXES AND JUNCTION BOXES AS REQUIRED BY THE NEC ARTICLE 314.
7. CONTRACTOR SHALL PROVIDE ALL STRAIN RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
8. ALL DISCONNECTS AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM.
9. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC 250. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, AND EQUIPMENT CABINETS.
10. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
11. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST–CONSTRUCTION EQUIPMENT.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR AS–BUILT PANEL SCHEDULE AND SITE DRAWINGS.
13. ALL TRENCHES IN COMPOUND TO BE HAND DUG

ELECTRICAL NOTES

2



OVERALL UTILITY ROUTE PLAN

200' 100' 0 200' 400'
1"=200'

3

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STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

CONSTRUCTION DOCUMENTS

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A&E PROJECT NUMBER
2039–Z5555C

DISH Wireless L.L.C.
PROJECT INFORMATION

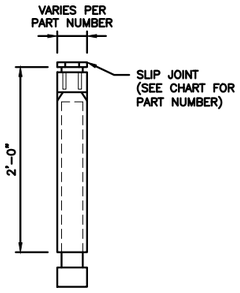
BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
ELECTRICAL/FIBER ROUTE PLAN AND NOTES

SHEET NUMBER
E-1

CARLON EXPANSION FITTINGS

COUPLING END PART#	MALE TERMINAL ADAPTER END PART#	SIZE	STD CTN QTY.	TRAVEL LENGTH
E945D	E945DX	1/2"	20	4"
E945E	E945EX	3/4"	15	4"
E945F	E945FX	1"	10	4"
E945G	E945GX	1 1/4"	5	4"
E945H	E945HX	1 1/2"	5	4"
E945J	E945JX	2"	15	8"
E945K	E945KX	2 1/2"	10	8"
E945L	E945LX	3"	10	8"
E945M	E945MX	3 1/2"	5	8"
E945N	E945NX	4"	5	8"
E945P	E945PX	5"	1	8"
E945R	E945RX	6"	1	8"

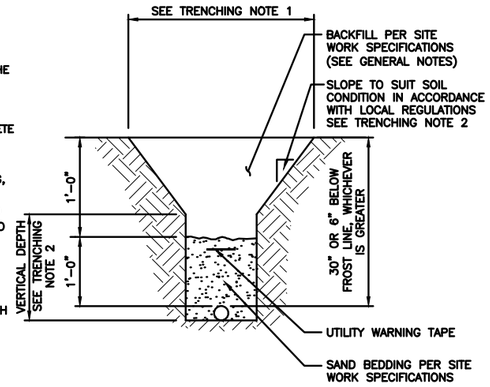


NOTE:
CONTRACTOR TO INSTALL EXPANSION FITTING SLIP JOINT AT METER CENTER CONDUIT TERMINATION, AS PER LOCAL UTILITY POLICY, ORDINANCE AND/OR SPECIFIED REQUIREMENT.

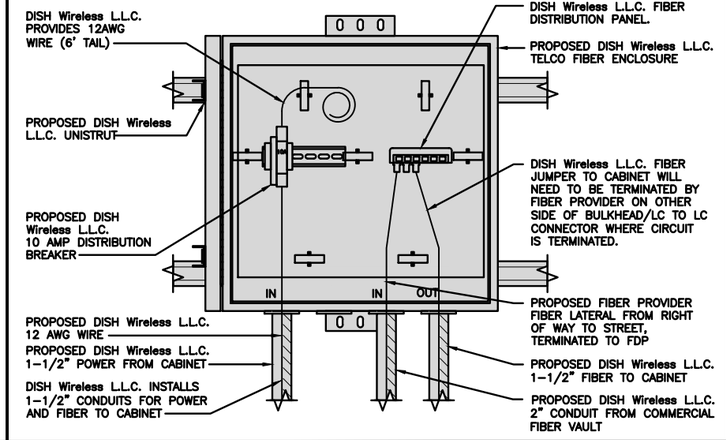
EXPANSION JOINT DETAIL | NO SCALE | 1

TRENCHING NOTES

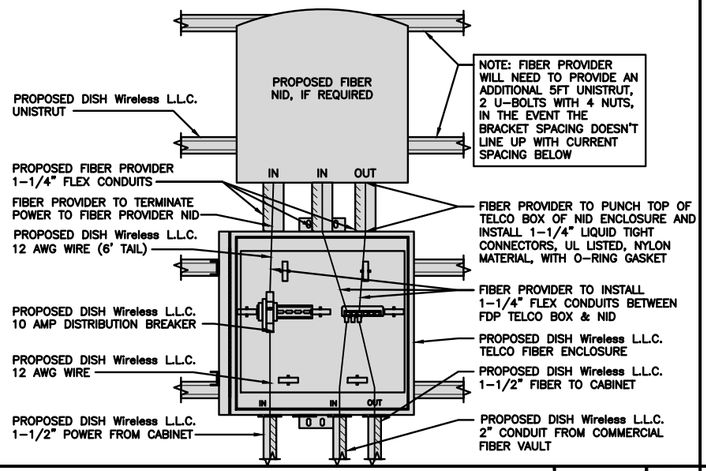
1. CONTRACTOR SHALL RESTORE THE TRENCH TO ITS ORIGINAL CONDITIONS BY EITHER SEEDING OR SODDING GRASS AREAS, OR REPLACING ASPHALT OR CONCRETE AREAS TO ITS ORIGINAL CROSS SECTION.
2. TRENCHING SAFETY; INCLUDING, BUT NOT LIMITED TO SOIL CLASSIFICATION, SLOPING, AND SHORING, SHALL BE GOVERNED BY THE CURRENT OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.
3. ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE CURRENT NATIONAL ELECTRIC CODE (NEC) OR AS REQUIRED BY THE LOCAL JURISDICTION, WHICHEVER IS THE MOST STRINGENT.



TYPICAL UNDERGROUND TRENCH DETAIL | NO SCALE | 2



DARK TELCO BOX – INTERIOR WIRING LAYOUT | NO SCALE | 3



LIT TELCO BOX – INTERIOR WIRING LAYOUT (OPTIONAL) | NO SCALE | 4

NOT USED | NO SCALE | 5

NOT USED | NO SCALE | 6

NOT USED | NO SCALE | 7

NOT USED | NO SCALE | 8

NOT USED | NO SCALE | 9

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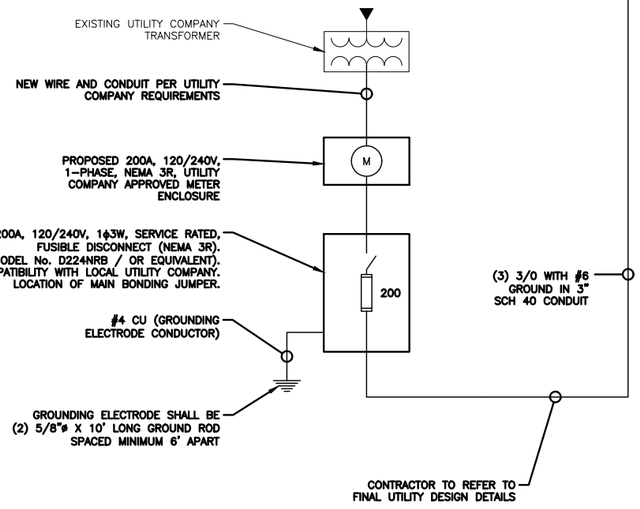
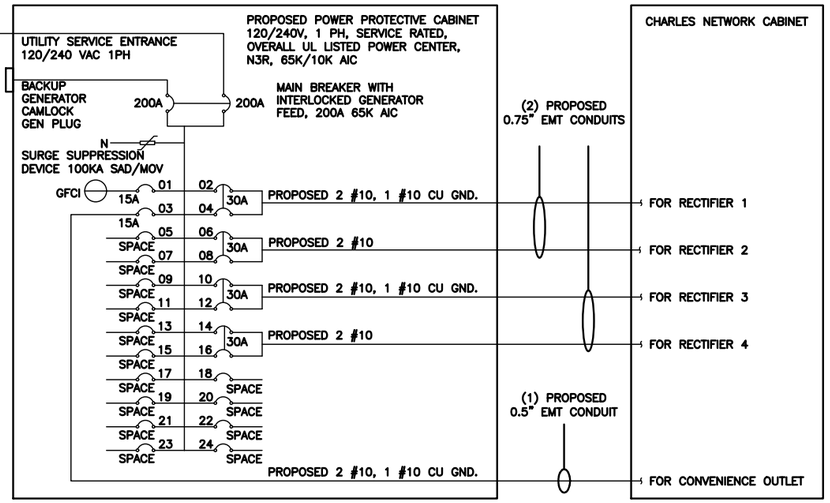
DISH Wireless L.L.C.
PROJECT INFORMATION
BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-2





NOTE:
BRANCH CIRCUIT WIRING SUPPLYING RECTIFIERS ARE TO BE RATED UL1015, 105°C, 600V, AND PVC INSULATED, IN THE SIZES SHOWN IN THE ONE-LINE DIAGRAM. CONTRACTOR MAY SUBSTITUTE UL1015 WIRE FOR THWN-2 FOR CONVENIENCE OUTLET BRANCH CIRCUIT.

BREAKERS REQUIRED:
(4) 30A, 2P BREAKER - SQUARE D P/N:QO230
(1) 15A, 1P BREAKER - SQUARE D P/N:QO115

NOTES

THE (2) CONDUITS WITH (4) CURRENT CARRYING CONDUCTORS EACH, SHALL APPLY THE ADJUSTMENT FACTOR OF 80% PER 2014/17 NEC TABLE 310.15(B)(3)(a) OR 2020 NEC TABLE 310.15(C)(1) FOR UL1015 WIRE.

#12 FOR 15A-20A/1P BREAKER: 0.8 x 30A = 24.0A
#10 FOR 25A-30A/2P BREAKER: 0.8 x 40A = 32.0A
#8 FOR 35A-40A/2P BREAKER: 0.8 x 55A = 44.0A
#6 FOR 45A-60A/2P BREAKER: 0.8 x 75A = 60.0A

CONDUIT SIZING: AT 40% FILL PER NEC CHAPTER 9, TABLE 4, ARTICLE 358.
0.5" CONDUIT - 0.122 SQ. IN AREA
0.75" CONDUIT - 0.213 SQ. IN AREA
2.0" CONDUIT - 1.316 SQ. IN AREA
3.0" CONDUIT - 2.907 SQ. IN AREA

CABINET CONVENIENCE OUTLET CONDUCTORS (1 CONDUIT): USING THWN-2, CU.

#10 - 0.0211 SQ. IN X 2 = 0.0422 SQ. IN
#10 - 0.0211 SQ. IN X 1 = 0.0211 SQ. IN <GROUND
TOTAL = 0.0633 SQ. IN

0.5" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (3) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

RECTIFIER CONDUCTORS (2 CONDUITS): USING UL1015, CU.

#10 - 0.0266 SQ. IN X 4 = 0.1064 SQ. IN
#10 - 0.0082 SQ. IN X 1 = 0.0082 SQ. IN <BARE GROUND
TOTAL = 0.1146 SQ. IN

0.75" EMT CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (5) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

PPC FEED CONDUCTORS (1 CONDUIT): USING THWN, CU.

3/0 - 0.2679 SQ. IN X 3 = 0.8037 SQ. IN
#6 - 0.0507 SQ. IN X 1 = 0.0507 SQ. IN <GROUND
TOTAL = 0.8544 SQ. IN

3.0" SCH 40 PVC CONDUIT IS ADEQUATE TO HANDLE THE TOTAL OF (4) WIRES, INCLUDING GROUND WIRE, AS INDICATED ABOVE.

PPC ONE-LINE DIAGRAM — NO SCALE — 1

PROPOSED CHARLES PANEL SCHEDULE

LOAD SERVED	VOLT AMPS (WATTS) L1	VOLT AMPS (WATTS) L2	TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS) L1	VOLT AMPS (WATTS) L2	LOAD SERVED
PPC GFCI OUTLET	180		15A	1	A	2	30A	2880		ABB/GE INFINITY RECTIFIER 1
CHARLES GFCI OUTLET		180	15A	3	B	4			2880	
-SPACE-				5	A	6	30A	2880		ABB/GE INFINITY RECTIFIER 2
-SPACE-				7	B	8			2880	
-SPACE-				9	A	10	30A	2880		ABB/GE INFINITY RECTIFIER 3
-SPACE-				11	B	12			2880	
-SPACE-				13	A	14	30A	2880		ABB/GE INFINITY RECTIFIER 4
-SPACE-				15	B	16			2880	
-SPACE-				17	A	18				-SPACE-
-SPACE-				19	B	20				-SPACE-
-SPACE-				21	A	22				-SPACE-
-SPACE-				23	B	24				-SPACE-
VOLTAGE AMPS	180	180						11520	11520	
200A MCB, 1ϕ, 24 SPACE, 120/240V			L1		L2					
MB RATING: 65,000 AIC			11700		11700		VOLTAGE AMPS			
			98		98		AMPS			
			98				MAX AMPS			
			123				MAX 125%			

PANEL SCHEDULE — NO SCALE — 2

NOT USED — NO SCALE — 3

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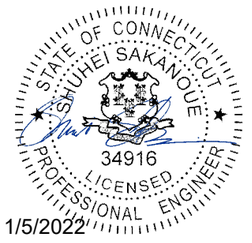

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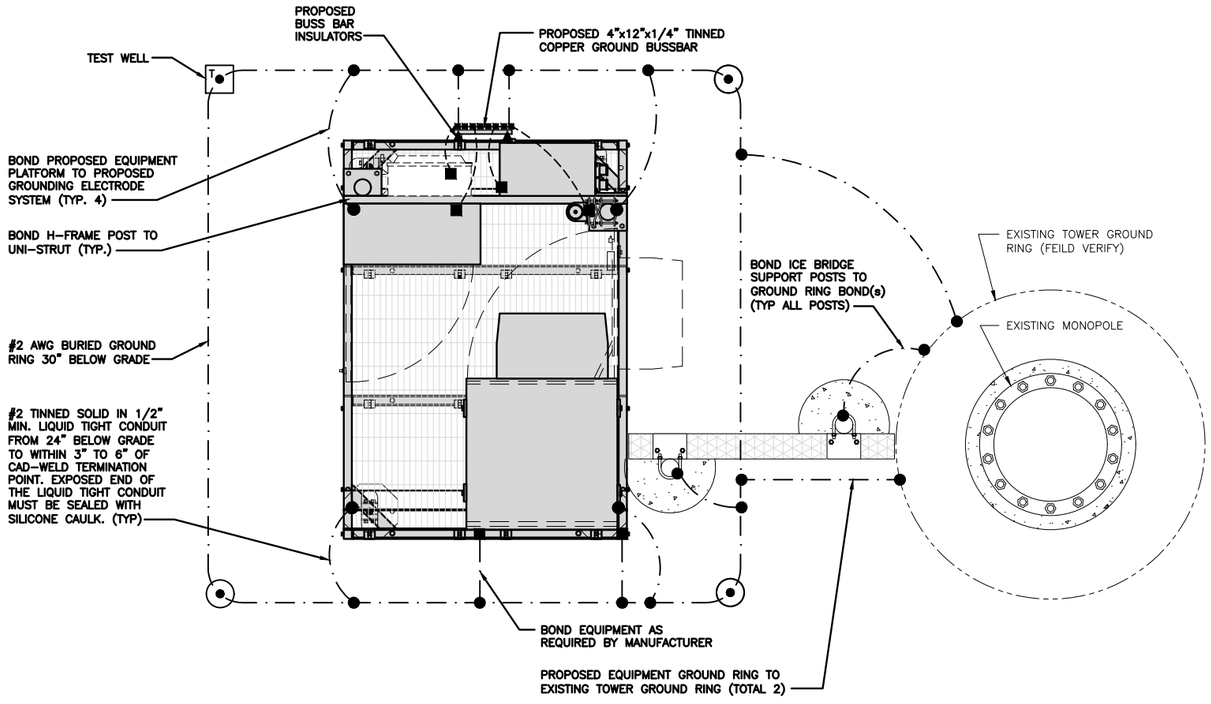
2039-Z5555C

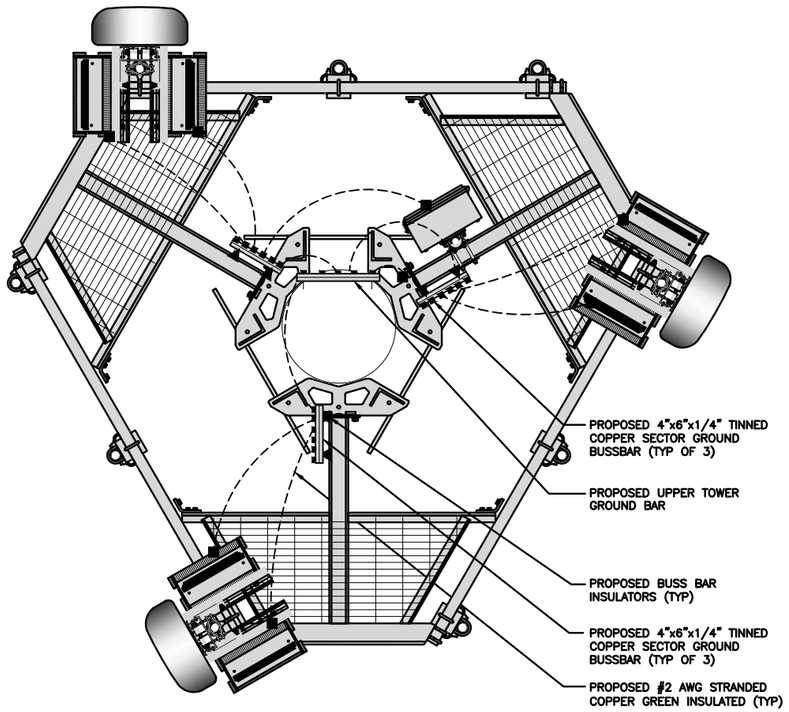
DISH Wireless L.L.C.
PROJECT INFORMATION
BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE

SHEET NUMBER
E-3



TYPICAL EQUIPMENT GROUNDING PLAN | NO SCALE | 1



TYPICAL ANTENNA GROUNDING PLAN | NO SCALE | 2

NOTES

1. ANTENNAS AND OVP SHOWN ARE GENERIC AND NOT REFERENCING TO A SPECIFIC MANUFACTURER. THIS LAYOUT IS FOR REFERENCE ONLY

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- GROUND BUS BAR
- GROUND ROD
- TEST GROUND ROD WITH INSPECTION SLEEVE
- #6 AWG STRANDED & INSULATED
- #2 AWG SOLID COPPER TINNED
- BUSS BAR INSULATOR

GROUNDING LEGEND

1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
2. CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND DISH Wireless L.L.C. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
3. ALL GROUND CONDUCTORS SHALL BE COPPER; NO ALUMINUM CONDUCTORS SHALL BE USED.

GROUNDING KEY NOTES

(A) EXTERIOR GROUND RING: #2 AWG SOLID COPPER, BURIED AT A DEPTH OF AT LEAST 30 INCHES BELOW GRADE, OR 6 INCHES BELOW THE FROST LINE AND APPROXIMATELY 24 INCHES FROM THE EXTERIOR WALL OR FOOTING.

(B) TOWER GROUND RING: THE GROUND RING SYSTEM SHALL BE INSTALLED AROUND AN ANTENNA TOWER'S LEGS, AND/OR GUY ANCHORS. WHERE SEPARATE SYSTEMS HAVE BEEN PROVIDED FOR THE TOWER AND THE BUILDING, AT LEAST TWO BONDS SHALL BE MADE BETWEEN THE TOWER RING GROUND SYSTEM AND THE BUILDING RING GROUND SYSTEM USING MINIMUM #2 AWG SOLID COPPER CONDUCTORS.

(C) INTERIOR GROUND RING: #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTOR EXTENDED AROUND THE PERIMETER OF THE EQUIPMENT AREA. ALL NON-TELECOMMUNICATIONS RELATED METALLIC OBJECTS FOUND WITHIN A SITE SHALL BE GROUNDED TO THE INTERIOR GROUND RING WITH #6 AWG STRANDED GREEN INSULATED CONDUCTOR.

(D) BOND TO INTERIOR GROUND RING: #2 AWG SOLID TINNED COPPER WIRE PRIMARY BONDS SHALL BE PROVIDED AT LEAST AT FOUR POINTS ON THE INTERIOR GROUND RING, LOCATED AT THE CORNERS OF THE BUILDING.

(E) GROUND ROD: UL LISTED COPPER CLAD STEEL. MINIMUM 1/2" DIAMETER BY EIGHT FEET LONG. GROUND RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO THE DEPTH OF GROUND RING CONDUCTOR.

(F) CELL REFERENCE GROUND BAR: POINT OF GROUND REFERENCE FOR ALL COMMUNICATIONS EQUIPMENT FRAMES. ALL BONDS ARE MADE WITH #2 AWG UNLESS NOTED OTHERWISE STRANDED GREEN INSULATED COPPER CONDUCTORS. BOND TO GROUND RING WITH (2) #2 SOLID TINNED COPPER CONDUCTORS.

(G) HATCH PLATE GROUND BAR: BOND TO THE INTERIOR GROUND RING WITH TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS. WHEN A HATCH-PLATE AND A CELL REFERENCE GROUND BAR ARE BOTH PRESENT, THE CRGB MUST BE CONNECTED TO THE HATCH-PLATE AND TO THE INTERIOR GROUND RING USING (2) TWO #2 AWG STRANDED GREEN INSULATED COPPER CONDUCTORS EACH.

(H) EXTERIOR CABLE ENTRY PORT GROUND BARS: LOCATED AT THE ENTRANCE TO THE CELL SITE BUILDING. BOND TO GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTORS WITH AN EXOTHERMIC WELD AND INSPECTION SLEEVE.

(I) TELCO GROUND BAR: BOND TO BOTH CELL REFERENCE GROUND BAR OR EXTERIOR GROUND RING.

(J) FRAME BONDING: THE BONDING POINT FOR TELECOM EQUIPMENT FRAMES SHALL BE THE GROUND BUS THAT IS NOT ISOLATED FROM THE EQUIPMENTS METAL FRAMEWORK.

(K) INTERIOR UNIT BONDS: METAL FRAMES, CABINETS AND INDIVIDUAL METALLIC UNITS LOCATED WITH THE AREA OF THE INTERIOR GROUND RING REQUIRE A #6 AWG STRANDED GREEN INSULATED COPPER BOND TO THE INTERIOR GROUND RING.

(L) FENCE AND GATE GROUNDING: METAL FENCES WITHIN 7 FEET OF THE EXTERIOR GROUND RING OR OBJECTS BONDED TO THE EXTERIOR GROUND RING SHALL BE BONDED TO THE GROUND RING WITH A #2 AWG SOLID TINNED COPPER CONDUCTOR AT AN INTERVAL NOT EXCEEDING 25 FEET. BONDS SHALL BE MADE AT EACH GATE POST AND ACROSS GATE OPENINGS.

(M) EXTERIOR UNIT BONDS: METALLIC OBJECTS, EXTERNAL TO OR MOUNTED TO THE BUILDING, SHALL BE BONDED TO THE EXTERIOR GROUND RING. USING #2 TINNED SOLID COPPER WIRE

(N) ICE BRIDGE SUPPORTS: EACH ICE BRIDGE LEG SHALL BE BONDED TO THE GROUND RING WITH #2 AWG BARE TINNED COPPER CONDUCTOR. PROVIDE EXOTHERMIC WELDS AT BOTH THE ICE BRIDGE LEG AND BURIED GROUND RING.

(O) DURING ALL DC POWER SYSTEM CHANGES INCLUDING DC SYSTEM CHANGE OUTS, RECTIFIER REPLACEMENTS OR ADDITIONS, BREAKER DISTRIBUTION CHANGES, BATTERY ADDITIONS, BATTERY REPLACEMENTS AND INSTALLATIONS OR CHANGES TO DC CONVERTER SYSTEMS IT SHALL BE REQUIRED THAT SERVICE CONTRACTORS VERIFY ALL DC POWER SYSTEMS ARE EQUIPPED WITH A MASTER DC SYSTEM RETURN GROUND CONDUCTOR FROM THE DC POWER SYSTEM COMMON RETURN BUS DIRECTLY CONNECTED TO THE CELL SITE REFERENCE GROUND BAR

(P) TOWER TOP COLLECTOR BUSS BAR IS TO BE MECHANICALLY BONDED TO PROPOSED ANTENNA MOUNT COLLAR.

REFER TO DISH Wireless L.L.C. GROUNDING NOTES.

GROUNDING KEY NOTES | NO SCALE | 3

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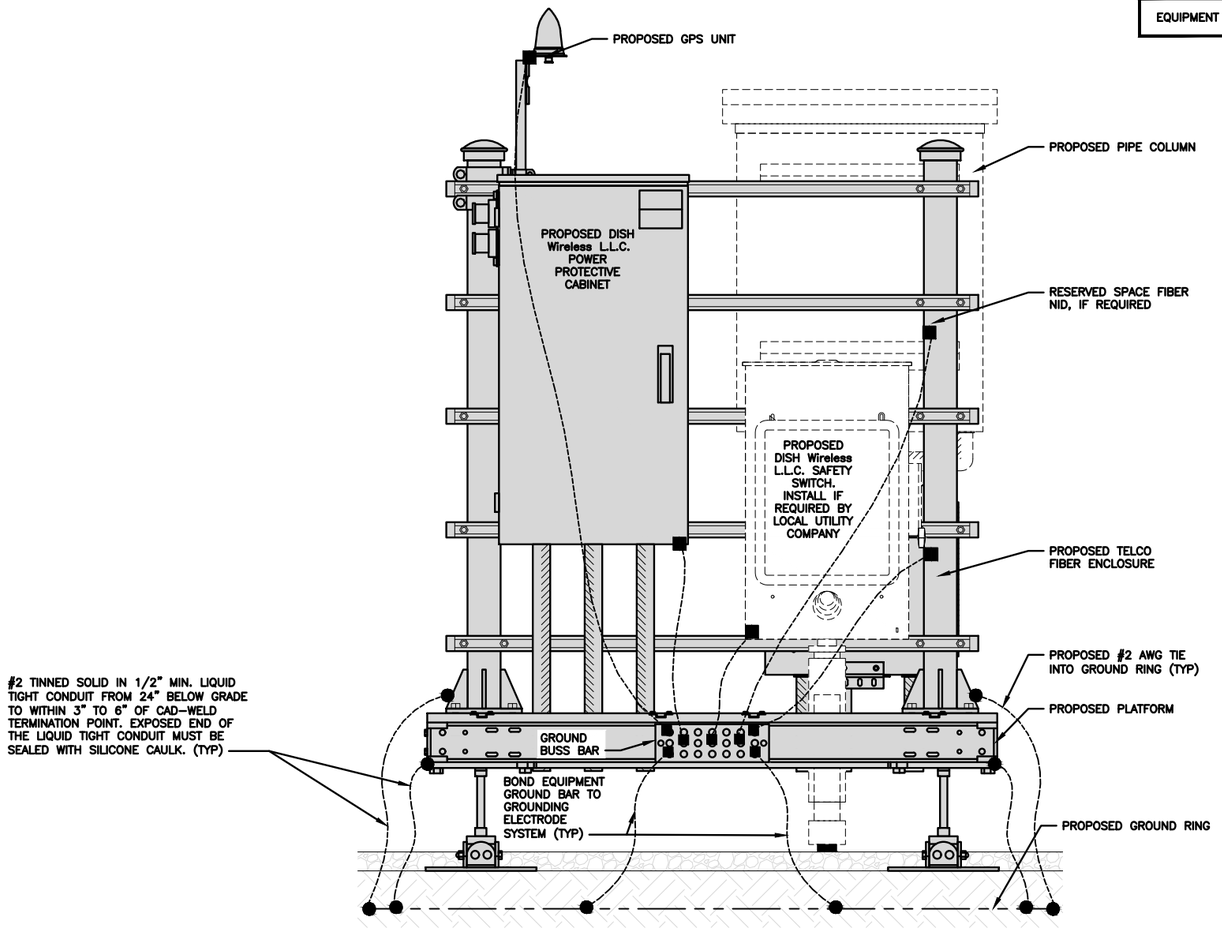
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
GROUNDING PLANS AND NOTES

SHEET NUMBER
G-1

NOTES

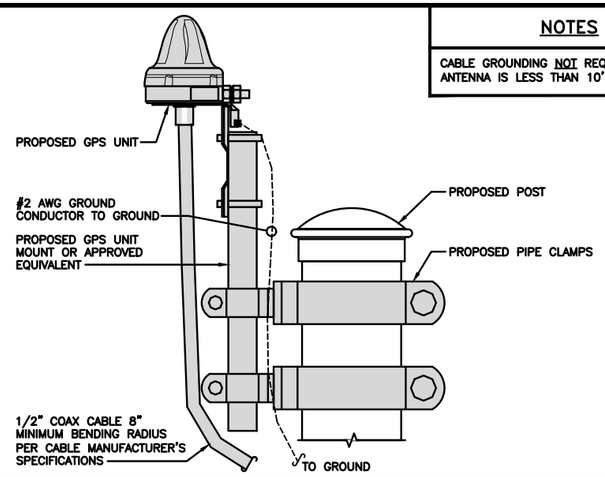
EQUIPMENT CABINET OMITTED FOR CLARITY



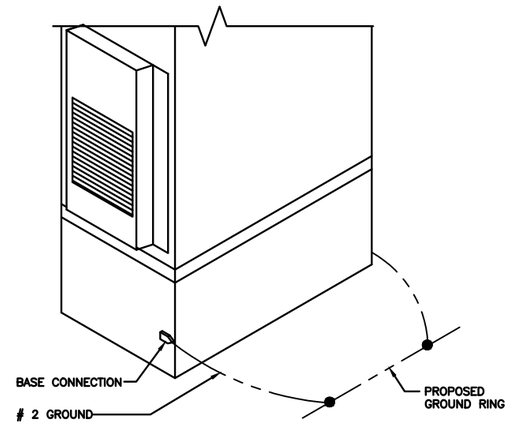
H-FRAME GROUNDING DETAIL | NO SCALE | 1

NOTES

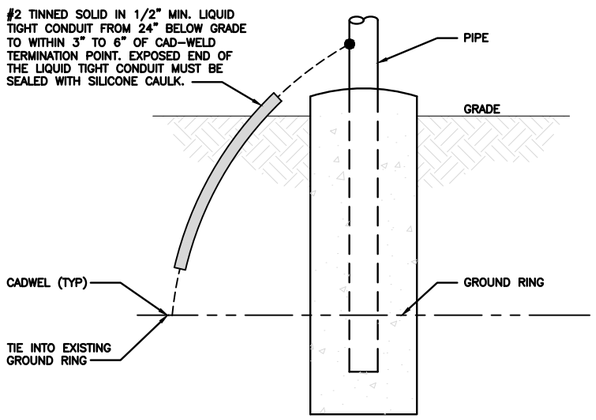
CABLE GROUNDING NOT REQUIRED WHEN ANTENNA IS LESS THAN 10' FROM CABINET



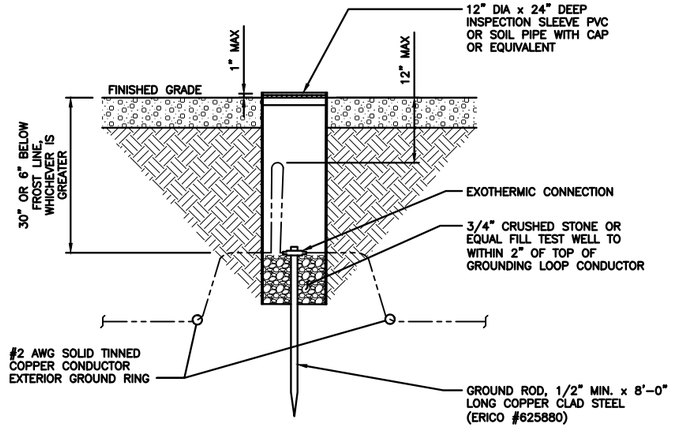
TYPICAL GPS UNIT GROUNDING | NO SCALE | 2



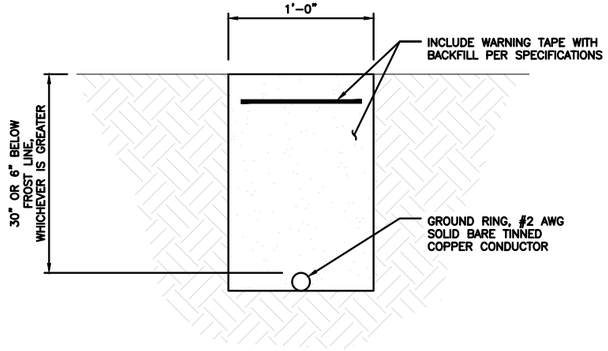
OUTDOOR CABINET GROUNDING | NO SCALE | 3



TRANSITIONING GROUND DETAIL | NO SCALE | 4



TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE | NO SCALE | 5



TYPICAL GROUND RING TRENCH | NO SCALE | 6

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STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
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A&E PROJECT NUMBER
2039-Z5555C

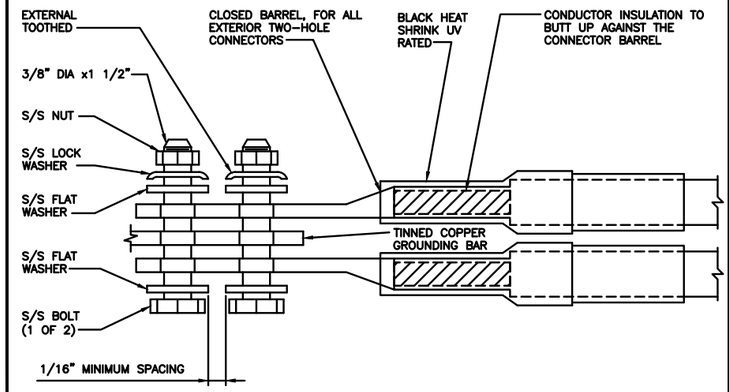
DISH Wireless L.L.C.
PROJECT INFORMATION
BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
GROUNDING DETAILS

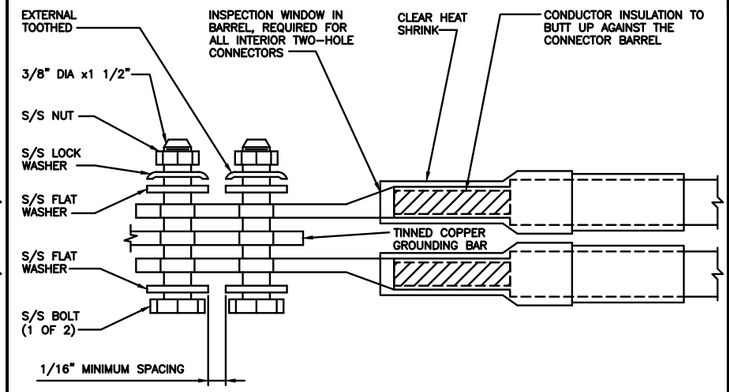
SHEET NUMBER
G-2

1. EXOTHERMIC WELD (2) TWO, #2 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR, ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. ALL EXTERIOR GROUNDING HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18–8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI–OXIDANT COMPOUND BEFORE MATING.
3. FOR GROUND BOND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI–OXIDANT COMPOUND BEFORE MATING.
4. DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUNDING BUS.
5. NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE.
6. ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED.
8. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).

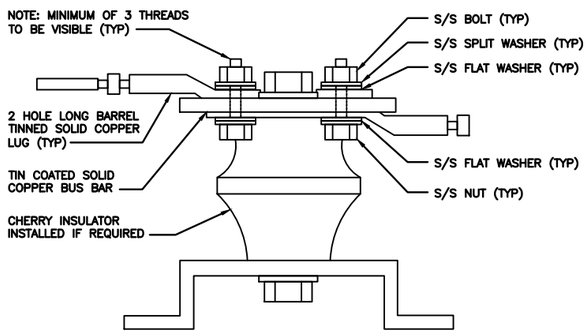
TYPICAL GROUNDING NOTES | NO SCALE | 1



TYPICAL EXTERIOR TWO HOLE LUG | NO SCALE | 2



TYPICAL INTERIOR TWO HOLE LUG | NO SCALE | 3



LUG DETAIL | NO SCALE | 4

NOT USED | NO SCALE | 5

NOT USED | NO SCALE | 6

NOT USED | NO SCALE | 7

NOT USED | NO SCALE | 8

NOT USED | NO SCALE | 9

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SHEET TITLE
GROUNDING DETAILS

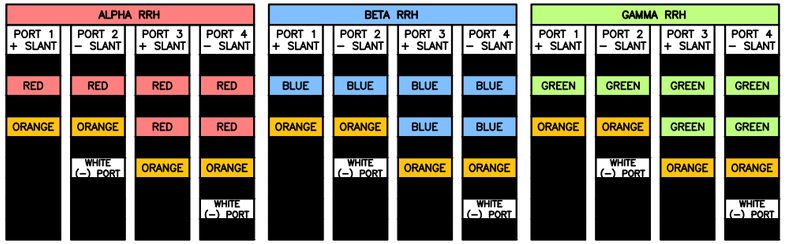
SHEET NUMBER
G-3

RF JUMPER COLOR CODING

3/4" TAPE WIDTHS WITH 3/4" SPACING

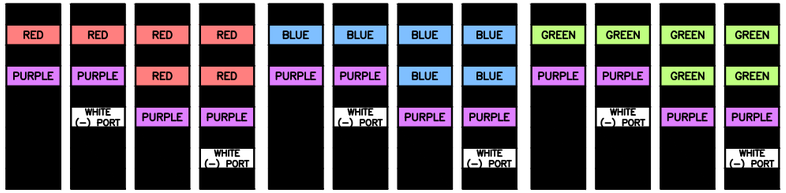
LOW-BAND RRH –
(600MHz N71 BASEBAND) +
(850MHz N26 BAND) +
(700MHz N29 BAND) – OPTIONAL PER MARKET

ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BANDS)



MID-BAND RRH –
(AWS BANDS N66+N70)

ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BANDS)

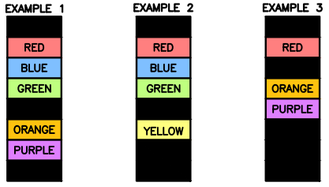


HYBRID/DISCREET CABLES

INCLUDE SECTOR BANDS BEING SUPPORTED
ALONG WITH FREQUENCY BANDS

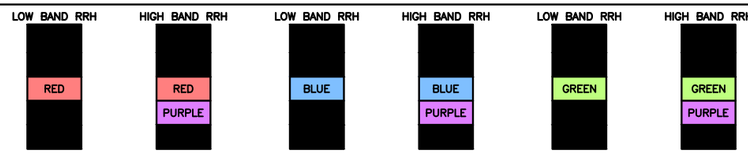
EXAMPLE 1 – HYBRID, OR DISCREET, SUPPORTS
ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS

EXAMPLE 2 – HYBRID, OR DISCREET, SUPPORTS
CBRS ONLY, ALL SECTORS



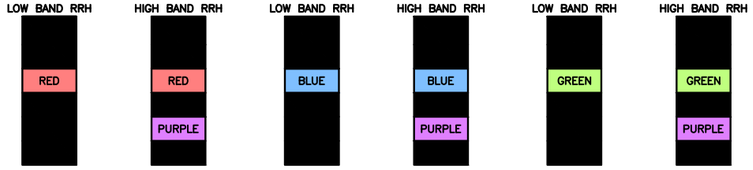
FIBER JUMPERS TO RRHs

LOW-BAND RRH FIBER CABLES HAVE SECTOR
STRIPE ONLY

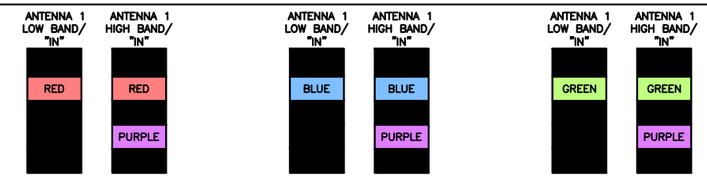


POWER CABLES TO RRHs

LOW-BAND RRH POWER CABLES HAVE SECTOR
STRIPE ONLY



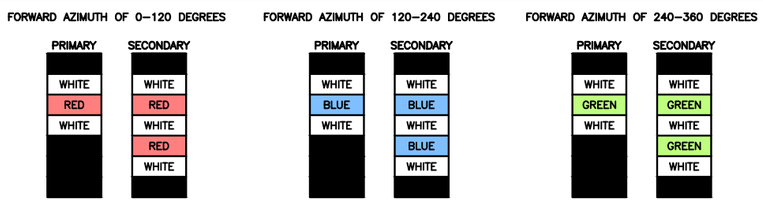
RET MOTORS AT ANTENNAS



MICROWAVE RADIO LINKS

LINKS WILL HAVE A 1.5–2 INCH WHITE WRAP WITH
THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE.
ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH
ADDITIONAL MW RADIO.

MICROWAVE CABLES WILL REQUIRE P-TOUCH
LABELS INSIDE THE CABINET TO IDENTIFY THE
LOCAL AND REMOTE SITE ID'S



RF CABLE COLOR CODES	NO SCALE	1

LOW BANDS (N71+N26)
OPTIONAL – (N29)
ORANGE

AWS
(N66+N70+H-BLOCK)
PURPLE

CBRS TECH
(3 GHz)
YELLOW

NEGATIVE SLANT PORT
ON ANT/RRH
WHITE

ALPHA SECTOR
RED

BETA SECTOR
BLUE

GAMMA SECTOR
GREEN

COLOR IDENTIFIER	NO SCALE	2

NOT USED	NO SCALE	3

NOT USED	NO SCALE	4

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240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE
RF
CABLE COLOR CODES

SHEET NUMBER
RF-1

LEGEND

EXOTHERMIC CONNECTION

MECHANICAL CONNECTION

BUSS BAR INSULATOR

CHEMICAL ELECTROLYTIC GROUNDING SYSTEM

TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM — T

EXOTHERMIC WITH INSPECTION SLEEVE

GROUNDING BAR

GROUND ROD

TEST GROUND ROD WITH INSPECTION SLEEVE — T

SINGLE POLE SWITCH — $

DUPLEX RECEPTACLE

DUPLEX GFCI RECEPTACLE — GFCI

FLUORESCENT LIGHTING FIXTURE (2) TWO LAMPS 48–T8 — F

SMOKE DETECTION (DC) — SD

EMERGENCY LIGHTING (DC)

SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW LED–1–25A400/51K–SR4–120–PE–DDBTXD

CHAIN LINK FENCE — X — X — X — X

WOOD/WROUGHT IRON FENCE

WALL STRUCTURE

LEASE AREA

PROPERTY LINE (PL)

SETBACKS

ICE BRIDGE

CABLE TRAY

WATER LINE — W — W — W — W — W

UNDERGROUND POWER — UGP — UGP — UGP — UGP — UGP

UNDERGROUND TELCO — UGT — UGT — UGT — UGT — UGT

OVERHEAD POWER — OHP — OHP — OHP — OHP

OVERHEAD TELCO — OHT — OHT — OHT — OHT

UNDERGROUND TELCO/POWER — UGT/P — UGT/P — UGT/P — UGT/P

ABOVE GROUND POWER — AGP — AGP — AGP — AGP — AGP

ABOVE GROUND TELCO — AGT — AGT — AGT — AGT — AGT

ABOVE GROUND TELCO/POWER — AGT/P — AGT/P — AGT/P — AGT/P

WORKPOINT — W.P.

SECTION REFERENCE — XX / X–X

DETAIL REFERENCE — XX / X–X

ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
AC	ALTERNATING CURRENT
ADDL	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGL	ABOVE GROUND LEVEL
AIC	AMPERAGE INTERRUPTION CAPACITY
ALUM	ALUMINUM
ALT	ALTERNATE
ANT	ANTENNA
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BTC	BARE TINNED COPPER CONDUCTOR
BOF	BOTTOM OF FOOTING
CAB	CABINET
CANT	CANTILEVERED
CHG	CHARGING
CLG	CEILING
CLR	CLEAR
COL	COLUMN
COMM	COMMON
CONC	CONCRETE
CONSTR	CONSTRUCTION
DBL	DOUBLE
DC	DIRECT CURRENT
DEPT	DEPARTMENT
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DWG	DRAWING
DWL	DOWEL
EA	EACH
EC	ELECTRICAL CONDUCTOR
EL.	ELEVATION
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
ENG	ENGINEER
EQ	EQUAL
EXP	EXPANSION
EXT	EXTERIOR
EW	EACH WAY
FAB	FABRICATION
FF	FINISH FLOOR
FG	FINISH GRADE
FIF	FACILITY INTERFACE FRAME
FIN	FINISH(ED)
FLR	FLOOR
FDN	FOUNDATION
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FS	FINISH SURFACE
FT	FOOT
FTG	FOOTING
GA	GAUGE
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GLB	GLUE LAMINATED BEAM
GLV	GALVANIZED
GPS	GLOBAL POSITIONING SYSTEM
GND	GROUND
GSM	GLOBAL SYSTEM FOR MOBILE
HDG	HOT DIPPED GALVANIZED
HDR	HEADER
HGR	HANGER
HVAC	HEAT/VENTILATION/AIR CONDITIONING
HT	HEIGHT
IGR	INTERIOR GROUND RING
IN	INCH
INT	INTERIOR
LB(S)	POUND(S)
LF	LINEAR FEET
LTE	LONG TERM EVOLUTION
MAS	MASONRY
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MGB	MASTER GROUND BAR
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NEC	NATIONAL ELECTRIC CODE
NM	NEWTON METERS
NO.	NUMBER
#	NUMBER
NTS	NOT TO SCALE
OC	ON–CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OPNG	OPENING
P/C	PRECAST CONCRETE
PCS	PERSONAL COMMUNICATION SERVICES
PCU	PRIMARY CONTROL UNIT
PRC	PRIMARY RADIO CABINET
PP	POLARIZING PRESERVING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PWR	POWER CABINET
QTY	QUANTITY
RAD	RADIUS
RECT	RECTIFIER
REF	REFERENCE
REINF	REINFORCEMENT
REQ'D	REQUIRED
RET	REMOTE ELECTRIC TILT
RF	RADIO FREQUENCY
RMC	RIGID METALLIC CONDUIT
RRH	REMOTE RADIO HEAD
RRU	REMOTE RADIO UNIT
RWY	RACEWAY
SCH	SCHEDULE
SHT	SHEET
SIAD	SMART INTEGRATED ACCESS DEVICE
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
TEMP	TEMPORARY
THK	THICKNESS
TMA	TOWER MOUNTED AMPLIFIER
TN	TOE NAIL
TOA	TOP OF ANTENNA
TOC	TOP OF CURB
TOF	TOP OF FOUNDATION
TOP	TOP OF PLATE (PARAPET)
TOS	TOP OF STEEL
TOW	TOP OF WALL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UMTS	UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM
UPS	UNITERRUPTIBLE POWER SYSTEM (DC POWER PLANT)
VIF	VERIFIED IN FIELD
W	WIDE
W/	WITH
WD	WOOD
WP	WEATHERPROOF
WT	WEIGHT

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BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE

LEGEND AND ABBREVIATIONS

SHEET NUMBER

GN-1

⚠ CAUTION

Transmitting Antenna(s)

Radio frequency fields beyond this point MAY *EXCEED* the FCC Occupational exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

Call the Dish NOC at 1-866.624.6874 prior to working beyond this point.

Site ID: BOBDL00057A

dish

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dish

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Site ID: BOBDL00057A

dish

INFORMATION

This is an access point to an area with transmitting antennas.

Obey all signs and barriers beyond this point.
Call the DISH NOC at 1-866-624-6874

Site ID: BOBDL00057A

RF SIGNAGE

dish wireless.

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BERLIN, CT 06037

SHEET TITLE

LEGEND AND ABBREVIATIONS

SHEET NUMBER

GN-2

SITE ACTIVITY REQUIREMENTS:

1. NOTICE TO PROCEED – NO WORK SHALL COMMENCE PRIOR TO CONTRACTOR RECEIVING A WRITTEN NOTICE TO PROCEED (NTP) AND THE ISSUANCE OF A PURCHASE ORDER. PRIOR TO ACCESSING/ENTERING THE SITE YOU MUST CONTACT THE DISH Wireless L.L.C. AND TOWER OWNER NOC & THE DISH Wireless L.L.C. AND TOWER OWNER CONSTRUCTION MANAGER.

2. "LOOK UP" – DISH Wireless L.L.C. AND TOWER OWNER SAFETY CLIMB REQUIREMENT:

THE INTEGRITY OF THE SAFETY CLIMB AND ALL COMPONENTS OF THE CLIMBING FACILITY SHALL BE CONSIDERED DURING ALL STAGES OF DESIGN, INSTALLATION, AND INSPECTION. TOWER MODIFICATION, MOUNT REINFORCEMENTS, AND/OR EQUIPMENT INSTALLATIONS SHALL NOT COMPROMISE THE INTEGRITY OR FUNCTIONAL USE OF THE SAFETY CLIMB OR ANY COMPONENTS OF THE CLIMBING FACILITY ON THE STRUCTURE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO: PINCHING OF THE WIRE ROPE, BENDING OF THE WIRE ROPE FROM ITS SUPPORTS, DIRECT CONTACT OR CLOSE PROXIMITY TO THE WIRE ROPE WHICH MAY CAUSE FRICTIONAL WEAR, IMPACT TO THE ANCHORAGE POINTS IN ANY WAY, OR TO IMPEDE/BLOCK ITS INTENDED USE. ANY COMPROMISED SAFETY CLIMB, INCLUDING EXISTING CONDITIONS MUST BE TAGGED OUT AND REPORTED TO YOUR DISH Wireless L.L.C. AND DISH Wireless L.L.C. AND TOWER OWNER POC OR CALL THE NOC TO GENERATE A SAFETY CLIMB MAINTENANCE AND CONTRACTOR NOTICE TICKET.

3. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED JURISDICTIONAL PERMITS SHALL BE OBTAINED. THIS INCLUDES, BUT IS NOT LIMITED TO, BUILDING, ELECTRICAL, MECHANICAL, FIRE, FLOOD ZONE, ENVIRONMENTAL, AND ZONING. AFTER ONSITE ACTIVITIES AND CONSTRUCTION ARE COMPLETED, ALL REQUIRED PERMITS SHALL BE SATISFIED AND CLOSED OUT ACCORDING TO LOCAL JURISDICTIONAL REQUIREMENTS.

4. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN, AND SHALL MEET ANSI/ASSE A10.48 (LATEST EDITION); FEDERAL, STATE, AND LOCAL REGULATIONS; AND ANY APPLICABLE INDUSTRY CONSENSUS STANDARDS RELATED TO THE CONSTRUCTION ACTIVITIES BEING PERFORMED. ALL RIGGING PLANS SHALL ADHERE TO ANSI/ASSE A10.48 (LATEST EDITION) AND DISH Wireless L.L.C. AND TOWER OWNER STANDARDS, INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION, TO CERTIFY THE SUPPORTING STRUCTURE(S) IN ACCORDANCE WITH ANSI/TIA–322 (LATEST EDITION).

5. ALL SITE WORK TO COMPLY WITH DISH Wireless L.L.C. AND TOWER OWNER INSTALLATION STANDARDS FOR CONSTRUCTION ACTIVITIES ON DISH Wireless L.L.C. AND TOWER OWNER TOWER SITE AND LATEST VERSION OF ANSI/TIA–1019–A–2012 "STANDARD FOR INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS."

6. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY DISH Wireless L.L.C. AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

8. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

9. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.

10. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION E) CONSTRUCTION SAFETY PROCEDURES.

11. ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.

12. CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATING WASTE MATERIAL, DEBRIS, AND TRASH AT THE COMPLETION OF THE WORK. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

13. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF DISH Wireless L.L.C. AND TOWER OWNER, AND/OR LOCAL UTILITIES.

14. THE CONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE REQUIRED BY LOCAL JURISDICTION AND SIGNAGE REQUIRED ON INDIVIDUAL PIECES OF EQUIPMENT, ROOMS, AND SHELTERS.

15. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.

16. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.

17. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND/OR PROJECT SPECIFICATIONS.

18. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

19. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

20. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS AND RADIOS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

21. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

22. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

GENERAL NOTES:

1.FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:

CONTRACTOR:GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION

CARRIER:DISH Wireless L.L.C.

TOWER OWNER:TOWER OWNER

2. THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE ENGINEERS IN THIS OR SIMILAR LOCALITIES. IT IS ASSUMED THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKPEOPLE WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

3. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, FORMWORK, SHORING, ETC. SITE VISITS BY THE ENGINEER OR HIS REPRESENTATIVE WILL NOT INCLUDE INSPECTION OF THESE ITEMS AND IS FOR STRUCTURAL OBSERVATION OF THE FINISHED STRUCTURE ONLY.

4. NOTES AND DETAILS IN THE CONSTRUCTION DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES, AND SPECIFICATIONS, THE GREATER, MORE STRICT REQUIREMENTS, SHALL GOVERN. IF FURTHER CLARIFICATION IS REQUIRED CONTACT THE ENGINEER OF RECORD.

5. SUBSTANTIAL EFFORT HAS BEEN MADE TO PROVIDE ACCURATE DIMENSIONS AND MEASUREMENTS ON THE DRAWINGS TO ASSIST IN THE FABRICATION AND/OR PLACEMENT OF CONSTRUCTION ELEMENTS BUT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE DIMENSIONS, MEASUREMENTS, AND/OR CLEARANCES SHOWN IN THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION OR CUTTING OF ANY NEW OR EXISTING CONSTRUCTION ELEMENTS. IF IT IS DETERMINED THAT THERE ARE DISCREPANCIES AND/OR CONFLICTS WITH THE CONSTRUCTION DRAWINGS THE ENGINEER OF RECORD IS TO BE NOTIFIED AS SOON AS POSSIBLE.

6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CARRIER POC AND TOWER OWNER.

7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.

8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

9. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.

10. IF THE SPECIFIED EQUIPMENT CAN NOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CARRIER AND TOWER OWNER PRIOR TO PROCEEDING WITH ANY SUCH CHANGE OF INSTALLATION.

11. CONTRACTOR IS TO PERFORM A SITE INVESTIGATION, BEFORE SUBMITTING BIDS, TO DETERMINE THE BEST ROUTING OF ALL CONDUITS FOR POWER, AND TELCO AND FOR GROUNDING CABLES AS SHOWN IN THE POWER, TELCO, AND GROUNDING PLAN DRAWINGS.

12. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF DISH Wireless L.L.C. AND TOWER OWNER

13. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

14. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.

dish wireless.

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STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
A	09/03/2021	ISSUED FOR REVIEW
B	12/09/2021	ISSUED FOR REVIEW
0	01/05/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER

2039–Z5555C

DISH Wireless L.L.C.
PROJECT INFORMATION

BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-3

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.

2. UNLESS NOTED OTHERWISE, SOIL BEARING PRESSURE USED FOR DESIGN OF SLABS AND FOUNDATIONS IS ASSUMED TO BE 1000 psf.

3. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 3000 psi AT 28 DAYS, UNLESS NOTED OTHERWISE. NO MORE THAN 90 MINUTES SHALL ELAPSE FROM BATCH TIME TO TIME OF PLACEMENT UNLESS APPROVED BY THE ENGINEER OF RECORD. TEMPERATURE OF CONCRETE SHALL NOT EXCEED 90°f AT TIME OF PLACEMENT.

4. CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL CONTAIN AIR ENTRAINING ADMIXTURES. AMOUNT OF AIR ENTRAINMENT TO BE BASED ON SIZE OF AGGREGATE AND F3 CLASS EXPOSURE (VERY SEVERE). CEMENT USED TO BE TYPE II PORTLAND CEMENT WITH A MAXIMUM WATER-TO-CEMENT RATIO (W/C) OF 0.45.

5. ALL STEEL REINFORCING SHALL CONFORM TO ASTM A615. ALL WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. ALL SPLICES SHALL BE CLASS "B" TENSION SPLICES, UNLESS NOTED OTHERWISE. ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS, UNLESS NOTED OTHERWISE. YIELD STRENGTH (Fy) OF STANDARD DEFORMED BARS ARE AS FOLLOWS:

#4 BARS AND SMALLER 40 ksi

#5 BARS AND LARGER 60 ksi

6. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 BARS AND LARGER 2"
- #5 BARS AND SMALLER 1-1/2"
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
- SLAB AND WALLS 3/4"
- BEAMS AND COLUMNS 1-1/2"

7. A TOOLED EDGE OR A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNLESS NOTED OTHERWISE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

ELECTRICAL INSTALLATION NOTES:

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.

2. CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.

3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.

4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.

4.1. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.

4.2. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING THAT SHALL BE GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 22,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.24 NEC OR THE MOST CURRENT ADOPTED CODE PRE THE GOVERNING JURISDICTION.

5. EACH END OF EVERY POWER PHASE CONDUCTOR, GROUNDING CONDUCTOR, AND TELCO CONDUCTOR OR CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2" PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA.

6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH LAMICOID TAGS SHOWING THEIR RATED VOLTAGE, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (i.e. PANEL BOARD AND CIRCUIT ID'S).

7. PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.

8. TIE WRAPS ARE NOT ALLOWED.

9. ALL POWER AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE COPPER CONDUCTOR (#14 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE COPPER CONDUCTOR (#6 OR LARGER) WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

11. POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.

12. POWER AND CONTROL WIRING FOR USE IN CABLE TRAY SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 OR LARGER), WITH TYPE THHW, THWN, THWN-2, XHHW, XHHW-2, THW, THW-2, RHW, OR RHW-2 INSULATION UNLESS OTHERWISE SPECIFIED.

13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRE NUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRE NUTS SHALL BE RATED FOR OPERATION NOT LESS THAN 75° C (90° C IF AVAILABLE).

14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.

15. ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

16. ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.

17. SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.

18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.

19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.

20. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.

21. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).

22. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).

23. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES (i.e. POWDER-ACTUATED) FOR ATTACHING HANGERS TO STRUCTURE WILL NOT BE PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CHANGES IN DIRECTION TO ROUTE AROUND OBSTACLES SHALL BE MADE WITH CONDUIT OUTLET BODIES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. PARALLEL AND PERPENDICULAR TO STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED FLUSH TO FINISH GRADE TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.

24. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL. SHALL MEET OR EXCEED UL 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS.

25. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

26. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

27. THE CONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CARRIER AND/OR DISH Wireless L.L.C. AND TOWER OWNER BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.

28. THE CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.

29. INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.".

30. ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.

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STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

CONSTRUCTION DOCUMENTS

SUBMITTALS

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A	09/03/2021	ISSUED FOR REVIEW
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0	01/05/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER

2039-Z5555C

DISH Wireless L.L.C.
PROJECT INFORMATION

BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-4

GROUNDING NOTES:

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.

3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT AND PROVIDE TESTING RESULTS.

4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.

6. EACH CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 STRANDED COPPER OR LARGER FOR INDOOR BTS; #2 BARE SOLID TINNED COPPER FOR OUTDOOR BTS.

7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED BACK TO BACK CONNECTIONS ON OPPOSITE SIDE OF THE GROUND BUS ARE PERMITTED.

8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.

9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.

10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.

11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.

12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR AND EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.

13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.

14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.

15. APPROVED ANTIOXIDANT COATINGS (i.e. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.

16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.

17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.

18. BOND ALL METALLIC OBJECTS WITHIN 6 ft OF MAIN GROUND RING WITH (1) #2 BARE SOLID TINNED COPPER GROUND CONDUCTOR.

19. GROUND CONDUCTORS USED FOR THE FACILITY GROUNDING AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (i.e., NONMETALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

20. ALL GROUNDS THAT TRANSITION FROM BELOW GRADE TO ABOVE GRADE MUST BE #2 BARE SOLID TINNED COPPER IN 3/4" NON-METALLIC, FLEXIBLE CONDUIT FROM 24" BELOW GRADE TO WITHIN 3" TO 6" OF CAD-WELD TERMINATION POINT. THE EXPOSED END OF THE CONDUIT MUST BE SEALED WITH SILICONE CAULK. (ADD TRANSITIONING GROUND STANDARD DETAIL AS WELL).

21. BUILDINGS WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). DO NOT ATTACH GROUNDING TO FIRE SPRINKLER SYSTEM PIPES.

dish wireless.

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LITTLETON, CO 80120

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STATE OF CONNECTICUT
SHUHEI SAKANOUE
34916
LICENSED PROFESSIONAL ENGINEER
1/5/2022

DRAWN BY:	CHECKED BY:	APPROVED BY:
RCD	SS	CJW

RFDS REV #: N/A

CONSTRUCTION DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
A	09/03/2021	ISSUED FOR REVIEW
B	12/09/2021	ISSUED FOR REVIEW
0	01/05/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER

2039-Z5555C

DISH Wireless L.L.C.
PROJECT INFORMATION

BOBDL00057A
240 KENSINGTON ROAD
BERLIN, CT 06037

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-5

Exhibit D

Structural Analysis Report

Date: **August 24, 2021**

MORRISON HERSHFIELD

Morrison Hershfield
1455 Lincoln Parkway, Suite 500
Atlanta, GA 30346
(770) 379-8500

Subject:	**Structural Analysis Report**	
Carrier Designation:	***DISH Network* Co-Locate**	
	Site Number:	BOBDL00057A
	Site Name:	CT-CCI-T-826217
Crown Castle Designation:	**BU Number:**	826217
	Site Name:	Newington_1
	JDE Job Number:	650046
	Work Order Number:	1987184
	Order Number:	556634 Rev. 1
Engineering Firm Designation:	**Morrison Hershfield Project Number:** CN7-585R1 / 2101398	
Site Data:	**240 Kensington Road, Berlin, Hartford County, CT 06037** **Latitude *41° 37' 34.3"*, Longitude *-72° 46' 32.33"*** **191.667 Foot – PiRod Monopole Tower**	

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

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

LC7: Proposed Equipment Configuration **Sufficient Capacity**

This analysis utilizes an ultimate 3-second gust wind speed of 125 mph as required by the 2018 Connecticut State Building. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

STATE OF CONNECTICUT
G. LANCE COOKE
No. 28133
LICENSED
PROFESSIONAL ENGINEER

G. Lance Cooke, P.E. (CT License No. PEN.0028133)
Senior Engineer

Digitally signed by G. Lance Cooke
Date: 2021.08.24 08:27:44-07'00'

TABLE OF CONTENTS

1) INTRODUCTION

This tower is a 191.667 ft Monopole tower designed by PiRod Manufactures Inc.

The tower was modified multiple times in the past to accommodate additional loading. All the modifications have been considered in this analysis per their respective post modification inspection reports.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	125 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	2 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
171.0	171.0	3	jma wireless	MX08FRO665-21 w/ Mount Pipe	1	1-3/4
		3	fujitsu	TA08025-B604		
		3	fujitsu	TA08025-B605		
		1	raycap	RDIDC-9181-PF-48		
		1	tower mounts	Commscope MC-PK8-DSH		

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
192.0	196.0	1	kathrein	OGB4-900D	1	7/8
	192.0	1	-	Side Arm Mount [SO 701-1]		
191.0	196.0	1	andrew	DB589-A	1	5/16
	191.0	1	-	Side Arm Mount [SO 701-1]		
	190.0	1	motorola	WB2623 w/ Mount Pipe		
181.0	181.0	3	commscope	ATBT-BOTTOM-24V	3	1-5/8
		3	ericsson	AIR -32 B2A/B66AA w/ Mount Pipe		
		3	ericsson	AIR6449 B41_T-MOBILE w/ Mount Pipe		
		3	rfs/celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	ericsson	RADIO 4415 B25_TMO		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		1	-	Platform Mount [LP 405-1_HR-1]		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
160.0	160.0	1	andrew	LNX-6514DS-A1M w/ Mount Pipe	14	1-5/8
		3	antel	BXA-171085-12BF-2 w/ Mount Pipe		
		2	commscope	LNX-8513DS-A1M w/ Mount Pipe		
		6	commscope	NNHH-65B-R4 w/ Mount Pipe		
		2	rfs celwave	DB-T1-6Z-8AB-0Z		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
		1	-	Platform Mount [LP 303-1]		
158.0	158.0	1	decibel	DB205-A	2	7/8
		1	sinclair	SRL-224NM-4		
		2	-	Side Arm Mount [SO 702-1]		
151.0	151.0	3	andrew	SBNH-1D6565C w/ Mount Pipe	12	1-1/4
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		3	cci antennas	TPA-65R-LCUUUU-H8 w/ Mount Pipe		
		3	ericsson	RRUS 32		
		3	ericsson	RRUS 32 B2		
		3	kaelus	DBC0062F3V52-1		
		3	cci antennas	DTMABP7819VG12A		
		1	raycap	DC6-48-60-18-8F		
		1	-	Miscellaneous [NA 510-1]		
		1	-	Platform Mount [LP 403-1_KCKR]		
150.0	152.0	2	ericsson	RRUS 11	-	-
		1	raycap	DC6-48-60-18-8F		
	150.0	2	ericsson	RRUS 12		
		1	-	Pipe Mount [PM 601-3]		
		1	-	Side Arm Mount [SO 102-3]		
132.0	132.0	1	sinclair	SRL-235-2	1	7/8
		1	-	Side Arm Mount [SO 104-3]		
		1	-	Side Arm Mount [SO 702-1]		
124.0	124.0	1	decibel	PCS 1900 TMA RX	-	-
		1	-	Side Arm Mount [SO 104-3]		
116.0	120.0	1	andrew	VHLP2-18	6 3 1 1	5/16 1-5/8 1/2 2C
	118.0	3	alcatel lucent	PCS 1900MHZ 4X45W-65MHZ		
		3	decibel	844G65VTZAS w/ Mount Pipe		
		3	commscope	NNVV-65B-R4		
		6	decibel	844G65VTZAS		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
116.0	118.0	3	argus technologies	LLPX310R-V4	-	-
		3	nokia	AHCC		
	116.0	3	5amsung telecommunications	WIMAX DAP HEAD		
		1	dragonwave	HORIZON DUO		
		6	-	Dual Mount Bracket		
		1	-	Platform Mount [LP 405-1_HR-1]		
90.0	99.0	1	decibel	DB205-A	2 1 1	1/2 7/8 5/16
	90.0	1	andrew	KP2F-34		
		1	mti wireless edge	MT-485002		
		1	-	Side Arm Mount [SO 702-3]		
70.0	70.0	1	sinclair	SRL-235-2	2	7/8
		1	-	Side Arm Mount [SO 102-3]		
		1	-	Side Arm Mount [SO 701-1]		
33.0	33.0	1	decibel	DB909XVTE-M	2	1/2
		1	-	Side Arm Mount [SO 102-3]		
		1	-	Side Arm Mount [SO 701-1]		

3) ANALYSIS PROCEDURE

Table 3 – Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	3438510	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	3463552	CCISITES
4-TOWER MANUFACTURER DRAWINGS	3438498	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	3678661	CCISITES
4-POST-MODIFICATION INSPECTION	5493013	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	5753424	CCISITES
4-POST-MODIFICATION INSPECTION	5947973	CCISITES
4-TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	4003976	CCISITES

3.1) Analysis Method

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

tnxTower was used to determine the loads on the modified structure. Additional calculations were performed to determine the stresses in the pole and in the reinforcing elements. These calculations are presented in Appendix C.

3.2) Assumptions

1) Tower and structures were maintained in accordance with the TIA-222 Standard.
2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

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

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L1	191.667 - 186.667	Pole	TP18x18x0.375	Pole	1.2%	Pass
L2	186.667 - 181.567	Pole	TP24x24x0.375	Pole	1.5%	Pass
L3	181.567 - 176.567	Pole	TP24x24x0.375	Pole	5.5%	Pass
L4	176.567 - 171.567	Pole	TP24x24x0.375	Pole	9.8%	Pass
L5	171.567 - 166.567	Pole	TP24x24x0.375	Pole	16.9%	Pass
L6	166.567 - 161.567	Pole	TP24x24x0.375	Pole	24.2%	Pass
L7	161.567 - 156.567	Pole	TP24x24x0.375	Pole	34.2%	Pass
L8	156.567 - 151.567	Pole	TP24x24x0.375	Pole	45.3%	Pass
L9	151.567 - 146.567	Pole	TP24x24x0.375	Pole	60.9%	Pass
L10	146.567 - 141.567	Pole	TP24x24x0.375	Pole	77.0%	Pass
L11	141.567 - 141.417	Pole	TP24x24x0.375	Pole	77.5%	Pass
L12	141.417 - 136.417	Pole	TP36x36x0.375	Pole	44.3%	Pass
L13	136.417 - 131.417	Pole	TP36x36x0.375	Pole	52.3%	Pass
L14	131.417 - 126.417	Pole	TP36x36x0.375	Pole	60.5%	Pass
L15	126.417 - 121.417	Pole	TP36x36x0.375	Pole	69.0%	Pass
L16	121.417 - 121.167	Pole	TP36x36x0.375	Pole	69.5%	Pass
L17	121.167 - 116.167	Pole	TP42x42x0.375	Pole	58.7%	Pass
L18	116.167 - 111.167	Pole	TP42x42x0.375	Pole	67.2%	Pass
L19	111.167 - 110.042	Pole	TP42x42x0.375	Pole	69.0%	Pass
L20	110.042 - 109.792	Pole + Reinf.	TP42x42x0.4875	Reinf. 13 Tension Rupture	53.7%	Pass
L21	109.792 - 105.083	Pole + Reinf.	TP42x42x0.4875	Reinf. 13 Tension Rupture	59.9%	Pass
L22	105.083 - 104.833	Pole + Reinf.	TP42x42x0.5625	Reinf. 6 Tension Rupture	54.7%	Pass
L23	104.833 - 100.917	Pole + Reinf.	TP42x42x0.5625	Reinf. 6 Tension Rupture	59.5%	Pass
L24	100.917 - 100.667	Pole	TP48x48x0.375	Pole	66.2%	Pass
L25	100.667 - 95.833	Pole	TP48x48x0.375	Pole	73.1%	Pass
L26	95.833 - 95.583	Pole + Reinf.	TP48x48x0.475	Pole	58.2%	Pass
L27	95.583 - 90.583	Pole + Reinf.	TP48x48x0.475	Pole	64.1%	Pass
L28	90.583 - 89.917	Pole + Reinf.	TP48x48x0.475	Pole	64.9%	Pass
L29	89.917 - 89.667	Pole + Reinf.	TP48x48x0.575	Pole	54.1%	Pass
L30	89.667 - 84.667	Pole + Reinf.	TP48x48x0.575	Pole	59.3%	Pass
L31	84.667 - 80.833	Pole + Reinf.	TP48x48x0.575	Pole	63.4%	Pass
L32	80.833 - 80.333	Pole + Reinf.	TP54x54x0.55	Pole	53.3%	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
L33	80.333 - 80.083	Pole + Reinf.	TP54x54x0.4875	Pole	60.2%	Pass
L34	80.083 - 75.083	Pole + Reinf.	TP54x54x0.4875	Pole	65.4%	Pass
L35	75.083 - 70.083	Pole + Reinf.	TP54x54x0.4875	Pole	70.8%	Pass
L36	70.083 - 69.5	Pole + Reinf.	TP54x54x0.4875	Pole	71.5%	Pass
L37	69.5 - 69.25	Pole + Reinf.	TP54x54x0.5875	Pole	59.3%	Pass
L38	69.25 - 64.25	Pole + Reinf.	TP54x54x0.5875	Pole	64.1%	Pass
L39	64.25 - 60.583	Pole + Reinf.	TP54x54x0.5875	Pole	67.8%	Pass
L40	60.583 - 60.333	Pole + Reinf.	TP60x60x0.5125	Pole	63.6%	Pass
L41	60.333 - 55.333	Pole + Reinf.	TP60x60x0.5125	Pole	68.3%	Pass
L42	55.333 - 52.167	Pole + Reinf.	TP60x60x0.5125	Pole	71.3%	Pass
L43	52.167 - 51.917	Pole + Reinf.	TP60x60x0.625	Pole	59.7%	Pass
L44	51.917 - 46.917	Pole + Reinf.	TP60x60x0.625	Pole	63.8%	Pass
L45	46.917 - 41.917	Pole + Reinf.	TP60x60x0.625	Pole	68.1%	Pass
L46	41.917 - 40.233	Pole + Reinf.	TP60x60x0.6	Pole	70.1%	Pass
L47	40.233 - 39.983	Pole + Reinf.	TP60x60x0.6	Pole	70.3%	Pass
L48	39.983 - 34.983	Pole + Reinf.	TP60x60x0.6	Pole	74.7%	Pass
L49	34.983 - 29.983	Pole + Reinf.	TP60x60x0.6	Pole	79.2%	Pass
L50	29.983 - 28	Pole + Reinf.	TP60x60x0.6	Pole	81.1%	Pass
L51	28 - 27.75	Pole + Reinf.	TP60x60x0.725	Pole	68.2%	Pass
L52	27.75 - 22.75	Pole + Reinf.	TP60x60x0.725	Pole	72.1%	Pass
L53	22.75 - 20.083	Pole + Reinf.	TP60x60x0.725	Pole	74.3%	Pass
L54	20.083 - 19.833	Pole	TP60x60x0.625	Pole	82.9%	Pass
L55	19.833 - 17	Pole	TP60x60x0.625	Pole	85.5%	Pass
L56	17 - 16.75	Pole + Reinf.	TP60x60x0.725	Pole	74.0%	Pass
L57	16.75 - 11.65	Pole + Reinf.	TP60x60x0.75	Pole	76.3%	Pass
L58	11.65 - 11.417	Pole + Reinf.	TP60x60x0.75	Pole	76.5%	Pass
L59	11.417 - 9.396	Pole + Reinf.	TP60x60x0.75	Pole	78.0%	Pass
L60	9.396 - 9.146	Pole + Reinf.	TP60x60x0.8	Reinf. 7 Tension Rupture	77.6%	Pass
L61	9.146 - 4.833	Pole + Reinf.	TP60x60x0.8	Reinf. 7 Tension Rupture	81.0%	Pass
L62	4.833 - 4.583	Pole + Reinf.	TP60x60x0.75	Pole	82.8%	Pass
L63	4.583 - 0	Pole + Reinf.	TP60x60x0.75	Pole	86.5%	Pass
					Summary	
				Pole	86.5%	Pass
				Reinforcement	84.2%	Pass
				Overall	86.5%	Pass

Table 5 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1,2	Flange Connection	181.583	2.0	Pass
1,2	Flange Connection	141.417	50.4	Pass
1,2	Flange Connection	121.167	39.8	Pass
1,2	Flange Connection	100.917	38.6	Pass
1,2	Flange Connection	80.833	39.5	Pass
1,2	Flange Connection	60.583	25.6	Pass
1,2	Flange Connection	40.333	19.0	Pass
1,2	Flange Connection	20.083	24.3	Pass
1	Anchor Rods	0	55.9	Pass
1,2	Base Plate		55.9	Pass
1	Base Foundation (Structure)	0	94.0	Pass
1	Base Foundation (Soil Interaction)		89.6	Pass

Structure Rating (max from all components) =	94%*

Notes:
1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.
2) The base and flange plates have been considered to have the same capacity as their respective bolts.
3) *Rating per TIA-222-H, Section 15.5.

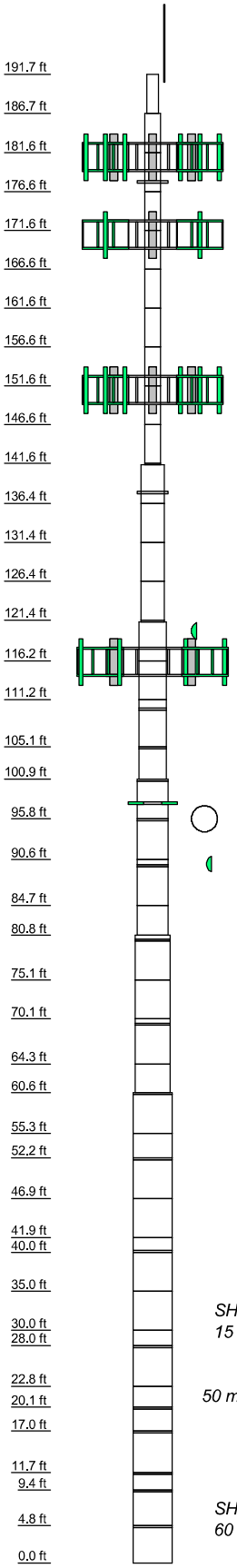
4.1) Recommendations

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

APPENDIX A

TNXTOWER OUTPUT

Section	Size	Length (ft)	Grade	Weight (K)
1	P60.375x0.375	5.00	A53-B-42	0.4
2	P57.5x0.375	5.10		0.5
3	P55.375x0.375	5.00		0.5
4	P53.25x0.375	5.00		0.5
5	P51.25x0.375	5.00		0.5
6	P49.25x0.375	5.00		0.5
7	P47.25x0.375	5.00		0.5
8	P45.25x0.375	5.00		0.5
9	P43.25x0.375	5.00		0.5
10	P41.25x0.375	5.00		0.5
11	P39.25x0.375	5.00		0.7
12	P37.25x0.375	5.00		0.7
13	P36x0.375	5.00		0.7
14	P36x0.375	5.00		0.7
15	P36x0.375	5.00		0.7
16	P36x0.375	5.00		0.8
17	P36x0.375	5.00		0.8
18	P36x0.375	5.00		0.8
19	P36x0.375	5.00		1.0
21	P36x0.375	5.00		1.0
22	P36x0.375	5.00		1.0
23	P36x0.375	5.00		1.0
24	P36x0.375	5.00		1.0
25	P36x0.375	5.00		1.0
26	P36x0.375	5.00		1.2
27	P36x0.375	5.00		1.2
28	P36x0.375	5.00		1.2
29	P36x0.375	5.00		1.2
30	P36x0.375	5.00		1.4
31	P36x0.375	5.00		1.4
32	P36x0.375	5.00		1.4
34	P36x0.375	5.00		1.4
35	P36x0.375	5.00		1.4
36	P36x0.375	5.00		1.7
38	P36x0.375	5.00		1.7
39	P36x0.375	5.00		1.7
40	P36x0.375	5.00		1.6
41	P36x0.375	5.00		1.6
42	P36x0.375	5.00		1.6
44	P36x0.375	5.00		2.0
45	P36x0.375	5.00		2.0
46	P36x0.375	5.00		2.0
48	P36x0.375	5.00		1.9
49	P36x0.375	5.00		1.9
50	P36x0.375	5.00		1.8
52	P36x0.375	5.00		2.3
53	P36x0.375	5.00		2.3
54	P36x0.375	5.00		2.3
55	P36x0.375	5.00		2.3
57	P36x0.375	5.00		2.5
58	P36x0.375	5.00		2.5
59	P36x0.375	5.00		2.5
61	P36x0.375	5.00		2.5
62	P36x0.375	4.30		2.3
63	P36x0.375	4.58		2.3
				48.0



MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Hartford County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 125 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 2.00 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. CCI POLE RATING: 86.5%

ALL REACTIONS ARE FACTORED

AXIAL 203 K

SHEAR 15 K *MOMENT 1868 kip-ft*

TORQUE 2 kip-ft
50 mph WIND - 2.0000 in ICE

AXIAL 113 K

SHEAR 60 K *MOMENT 6399 kip-ft*

TORQUE 7 kip-ft
REACTIONS - 125 mph WIND

Morrison Hershfield
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Job: CN7-585R1 / 2101398			
Project: 826217 / Newington_1			
Client: Crown Castle USA	Drawn by: RBA	App'd:	
Code: TIA-222-H	Date: 08/24/21	Scale: NTS	
Path: C:\Users\RAllard\Desktop\Live Jobs\CN7-585 - 826217 - Newington_1\CN7-585R1 BU 826217 WO 1987184.eri		Dwg No. E-1	

Tower Input Data

The tower is a monopole.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in Hartford County, Connecticut.
Tower base elevation above sea level: 133.00 ft.
Basic wind speed of 125 mph.
Risk Category II.
Exposure Category B.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.00 ft.
Nominal ice thickness of 2.0000 in.
Ice thickness is considered to increase with height.
Ice density of 56 pcf.
A wind speed of 50 mph is used in combination with ice.
Temperature drop of 50 °F.
Deflections calculated using a wind speed of 60 mph.
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in pole design is 1.
Tower analysis based on target reliabilities in accordance with Annex S.
Load Modification Factors used: $K_{es}(F_w) = 0.95$, $K_{es}(t_i) = 0.85$.
Maximum demand-capacity ratio is: 1.05.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

	Consider Moments - Legs		Distribute Leg Loads As Uniform		Use ASCE 10 X-Brace Ly Rules
	Consider Moments - Horizontals		Assume Legs Pinned		Calculate Redundant Bracing Forces
	Consider Moments - Diagonals	√	Assume Rigid Index Plate		Ignore Redundant Members in FEA
	Use Moment Magnification	√	Use Clear Spans For Wind Area		SR Leg Bolts Resist Compression
√	Use Code Stress Ratios		Use Clear Spans For KL/r		All Leg Panels Have Same Allowable
√	Use Code Safety Factors - Guys		Retension Guys To Initial Tension		Offset Girt At Foundation
	Escalate Ice	√	Bypass Mast Stability Checks	√	Consider Feed Line Torque
	Always Use Max Kz	√	Use Azimuth Dish Coefficients		Include Angle Block Shear Check
	Use Special Wind Profile	√	Project Wind Area of Appurt.		Use TIA-222-H Bracing Resist. Exemption
	Include Bolts In Member Capacity		Autocalc Torque Arm Areas		Use TIA-222-H Tension Splice Exemption
	Leg Bolts Are At Top Of Section		Add IBC .6D+W Combination		Poles
	Secondary Horizontal Braces Leg		Sort Capacity Reports By Component	√	Include Shear-Torsion Interaction
	Use Diamond Inner Bracing (4 Sided)		Triangulate Diamond Inner Bracing		Always Use Sub-Critical Flow
	SR Members Have Cut Ends		Treat Feed Line Bundles As Cylinder		Use Top Mounted Sockets
	SR Members Are Concentric		Ignore KL/ry For 60 Deg. Angle Legs		Pole Without Linear Attachments
					Pole With Shroud Or No Appurtenances
					Outside and Inside Corner Radii Are Known

Pole Section Geometry

Section	*Elevation*	*Section Length*	*Pole Size*	*Pole Grade*	*Socket Length*
	ft	*ft*			*ft*
L1	191.67-186.67	5.00	P18x0.375	A53-B-42 (42 ksi)	
L2	186.67-181.57	5.10	P24x0.375	A53-B-42 (42 ksi)	
L3	181.57-176.57	5.00	P24x0.375	A53-B-42 (42 ksi)	
L4	176.57-171.57	5.00	P24x0.375	A53-B-42	

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
				(42 ksi)	
L5	171.57-166.57	5.00	P24x0.375	A53-B-42 (42 ksi)	
L6	166.57-161.57	5.00	P24x0.375	A53-B-42 (42 ksi)	
L7	161.57-156.57	5.00	P24x0.375	A53-B-42 (42 ksi)	
L8	156.57-151.57	5.00	P24x0.375	A53-B-42 (42 ksi)	
L9	151.57-146.57	5.00	P24x0.375	A53-B-42 (42 ksi)	
L10	146.57-141.57	5.00	P24x0.375	A53-B-42 (42 ksi)	
L11	141.57-141.42	0.15	P24x0.375	A53-B-42 (42 ksi)	
L12	141.42-136.42	5.00	P36x0.375	A53-B-42 (42 ksi)	
L13	136.42-131.42	5.00	P36x0.375	A53-B-42 (42 ksi)	
L14	131.42-126.42	5.00	P36x0.375	A53-B-42 (42 ksi)	
L15	126.42-121.42	5.00	P36x0.375	A53-B-42 (42 ksi)	
L16	121.42-121.17	0.25	P36x0.375	A53-B-42 (42 ksi)	
L17	121.17-116.17	5.00	P42x0.375	A53-B-42 (42 ksi)	
L18	116.17-111.17	5.00	P42x0.375	A53-B-42 (42 ksi)	
L19	111.17-110.04	1.13	P42x0.375	A53-B-42 (42 ksi)	
L20	110.04-109.79	0.25	P42x0.4875	A53-B-42 (42 ksi)	
L21	109.79-105.08	4.71	P42x0.4875	A53-B-42 (42 ksi)	
L22	105.08-104.83	0.25	P42x0.5625	A53-B-42 (42 ksi)	
L23	104.83-100.92	3.92	P42x0.5625	A53-B-42 (42 ksi)	
L24	100.92-100.67	0.25	P48x0.375	A53-B-42 (42 ksi)	
L25	100.67-95.83	4.83	P48x0.375	A53-B-42 (42 ksi)	
L26	95.83-95.58	0.25	P48x0.475	A53-B-42 (42 ksi)	
L27	95.58-90.58	5.00	P48x0.475	A53-B-42 (42 ksi)	
L28	90.58-89.92	0.67	P48x0.475	A53-B-42 (42 ksi)	
L29	89.92-89.67	0.25	P48x0.575	A53-B-42 (42 ksi)	
L30	89.67-84.67	5.00	P48x0.575	A53-B-42 (42 ksi)	
L31	84.67-80.83	3.83	P48x0.575	A53-B-42 (42 ksi)	
L32	80.83-80.33	0.50	P54x0.55	A53-B-42 (42 ksi)	
L33	80.33-80.08	0.25	P54x0.4875	A53-B-42 (42 ksi)	
L34	80.08-75.08	5.00	P54x0.4875	A53-B-42 (42 ksi)	
L35	75.08-70.08	5.00	P54x0.4875	A53-B-42 (42 ksi)	
L36	70.08-69.50	0.58	P54x0.4875	A53-B-42 (42 ksi)	
L37	69.50-69.25	0.25	P54x0.5875	A53-B-42 (42 ksi)	
L38	69.25-64.25	5.00	P54x0.5875	A53-B-42 (42 ksi)	

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L39	64.25-60.58	3.67	P54x0.5875	A53-B-42 (42 ksi)	
L40	60.58-60.33	0.25	P60x0.5125	A53-B-42 (42 ksi)	
L41	60.33-55.33	5.00	P60x0.5125	A53-B-42 (42 ksi)	
L42	55.33-52.17	3.17	P60x0.5125	A53-B-42 (42 ksi)	
L43	52.17-51.92	0.25	P60x0.625	A53-B-42 (42 ksi)	
L44	51.92-46.92	5.00	P60x0.625	A53-B-42 (42 ksi)	
L45	46.92-41.92	5.00	P60x0.625	A53-B-42 (42 ksi)	
L46	41.92-40.23	1.68	P60x0.6	A53-B-42 (42 ksi)	
L47	40.23-39.98	0.25	P60x0.6	A53-B-42 (42 ksi)	
L48	39.98-34.98	5.00	P60x0.6	A53-B-42 (42 ksi)	
L49	34.98-29.98	5.00	P60x0.6	A53-B-42 (42 ksi)	
L50	29.98-28.00	1.98	P60x0.6	A53-B-42 (42 ksi)	
L51	28.00-27.75	0.25	P60x0.725	A53-B-42 (42 ksi)	
L52	27.75-22.75	5.00	P60x0.725	A53-B-42 (42 ksi)	
L53	22.75-20.08	2.67	P60x0.725	A53-B-42 (42 ksi)	
L54	20.08-19.83	0.25	P60x0.625	A53-B-42 (42 ksi)	
L55	19.83-17.00	2.83	P60x0.625	A53-B-42 (42 ksi)	
L56	17.00-16.75	0.25	P60x0.725	A53-B-42 (42 ksi)	
L57	16.75-11.65	5.10	P60x0.75	A53-B-42 (42 ksi)	
L58	11.65-11.42	0.23	P60x0.75	A53-B-42 (42 ksi)	
L59	11.42-9.40	2.02	P60x0.75	A53-B-42 (42 ksi)	
L60	9.40-9.15	0.25	P60x0.8	A53-B-42 (42 ksi)	
L61	9.15-4.83	4.31	P60x0.8	A53-B-42 (42 ksi)	
L62	4.83-4.58	0.25	P60x0.75	A53-B-42 (42 ksi)	
L63	4.58-0.00	4.58	P60x0.75	A53-B-42 (42 ksi)	

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 191.67-186.67				1	1	1			
L2 186.67-181.57				1	1	1			
L3 181.57-176.57				1	1	1			
L4 176.57-171.57				1	1	1			
L5 171.57-166.57				1	1	1			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L6 166.57-161.57				1	1	1			
L7 161.57-156.57				1	1	1			
L8 156.57-151.57				1	1	1			
L9 151.57-146.57				1	1	1			
L10 146.57-141.57				1	1	1			
L11 141.57-141.42				1	1	1			
L12 141.42-136.42				1	1	1			
L13 136.42-131.42				1	1	1			
L14 131.42-126.42				1	1	1			
L15 126.42-121.42				1	1	1			
L16 121.42-121.17				1	1	1			
L17 121.17-116.17				1	1	1			
L18 116.17-111.17				1	1	1			
L19 111.17-110.04				1	1	1			
L20 110.04-109.79				1	1	0.983655			
L21 109.79-105.08				1	1	0.983655			
L22 105.08-104.83				1	1	0.976951			
L23 104.83-100.92				1	1	0.976951			
L24 100.92-100.67				1	1	1			
L25 100.67-95.83				1	1	1			
L26 95.83-95.58				1	1	0.981492			
L27 95.58-90.58				1	1	0.981492			
L28 90.58-89.92				1	1	0.981492			
L29 89.92-89.67				1	1	0.97009			
L30 89.67-84.67				1	1	0.97009			
L31 84.67-80.83				1	1	0.97009			
L32 80.83-80.33				1	1	0.976401			
L33 80.33-80.08				1	1	0.990478			
L34 80.08-75.08				1	1	0.990478			
L35 75.08-70.08				1	1	0.990478			
L36 70.08-69.50				1	1	0.990478			
L37 69.50-69.25				1	1	1.00601			
L38 69.25-64.25				1	1	1.00601			

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L39 64.25-60.58				1	1	1.00601			
L40 60.58-60.33				1	1	0.987891			
L41 60.33-55.33				1	1	0.987891			
L42 55.33-52.17				1	1	0.987891			
L43 52.17-51.92				1	1	1.01747			
L44 51.92-46.92				1	1	1.01747			
L45 46.92-41.92				1	1	1.01747			
L46 41.92-40.23				1	1	0.995499			
L47 40.23-39.98				1	1	0.995499			
L48 39.98-34.98				1	1	0.995499			
L49 34.98-29.98				1	1	0.995499			
L50 29.98-28.00				1	1	0.995499			
L51 28.00-27.75				1	1	1.00337			
L52 27.75-22.75				1	1	1.00337			
L53 22.75-20.08				1	1	1.00337			
L54 20.08-19.83				1	1	1			
L55 19.83-17.00				1	1	1			
L56 17.00-16.75				1	1	1.04129			
L57 16.75-11.65				1	1	1.02849			
L58 11.65-11.42				1	1	1.02849			
L59 11.42-9.40				1	1	1.02849			
L60 9.40-9.15				1	1	1.00535			
L61 9.15-4.83				1	1	1.00535			
L62 4.83-4.58				1	1	1.04998			
L63 4.58-0.00				1	1	1.04998			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
* Reinforcement Plates*										
CCI 4" x 0.75" Plate	A	No	Surface Af (CaAa)	10.88 - 0.00	1	1	0.400 0.450	4.0000	9.5000	0.00
CCI 4" x 0.75" Plate	B	No	Surface Af (CaAa)	10.88 - 0.00	1	1	-0.250 -0.200	4.0000	9.5000	0.00
CCI 4" x 0.75" Plate	C	No	Surface Af (CaAa)	13.17 - 3.17	1	1	0.250 0.300	4.0000	9.5000	0.00
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	39.75 - 20.75	1	1	0.400 0.500	6.0000	14.0000	0.00

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	39.75 - 20.75	1	1	0.400 0.500	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	39.75 - 20.75	1	1	0.400 0.500	6.0000	14.0000	0.00
*										
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	59.92 - 40.83	1	1	-0.450 -0.400	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	59.92 - 40.83	1	1	-0.450 -0.400	6.5000	15.5000	0.00
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	59.92 - 40.83	1	1	-0.400 -0.350	6.5000	15.5000	0.00
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	80.17 - 61.17	1	1	-0.450 -0.400	6.0000	14.0000	0.00
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	80.17 - 61.17	1	1	-0.350 -0.300	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	80.17 - 61.17	1	1	-0.450 -0.400	6.0000	14.0000	0.00
*										
CCI 4" x 0.75" Plate	A	No	Surface Af (CaAa)	106.58 - 101.58	1	1	-0.500 -0.450	4.0000	9.5000	0.00
CCI 4" x 0.75" Plate	B	No	Surface Af (CaAa)	106.58 - 101.58	1	1	-0.500 -0.450	4.0000	9.5000	0.00
CCI 4" x 0.75" Plate	C	No	Surface Af (CaAa)	106.58 - 101.58	1	1	-0.500 -0.450	4.0000	9.5000	0.00
*										
1" x 2" Plate	A	No	Surface Af (CaAa)	50.42 - 40.58	1	1	-0.450 -0.400	1.0000	6.0000	6.81
1" x 2" Plate	B	No	Surface Af (CaAa)	50.42 - 40.58	1	1	-0.350 -0.300	1.0000	6.0000	6.81
1" x 2" Plate	B	No	Surface Af (CaAa)	50.42 - 40.58	1	1	0.200 0.250	1.0000	6.0000	6.81
1" x 2" Plate	C	No	Surface Af (CaAa)	50.42 - 40.58	1	1	-0.350 -0.300	1.0000	6.0000	6.81
*										
1" x 2" Plate	A	No	Surface Af (CaAa)	66.17 - 61.08	1	1	-0.350 -0.300	1.0000	6.0000	6.81
1" x 2" Plate	B	No	Surface Af (CaAa)	66.17 - 61.08	1	1	-0.450 -0.400	1.0000	6.0000	6.81
1" x 2" Plate	B	No	Surface Af (CaAa)	66.17 - 61.08	1	1	0.300 0.350	1.0000	6.0000	6.81
1" x 2" Plate	C	No	Surface Af (CaAa)	66.17 - 61.08	1	1	-0.450 -0.400	1.0000	6.0000	6.81
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	19.00 - 0.00	1	1	0.300 0.350	6.0000	14.0000	0.00
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	19.00 - 0.00	1	1	0.400 0.450	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	19.00 - 0.00	1	1	0.450 0.500	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	19.00 - 0.00	1	1	-0.500 -0.450	6.0000	14.0000	0.00
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	30.00 - 17.00	1	1	-0.150 -0.100	6.0000	14.0000	0.00
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	30.00 - 17.00	1	1	-0.450 -0.400	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	30.00 - 17.00	1	1	0.350 0.400	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	30.00 - 17.00	1	1	-0.500 -0.450	6.0000	14.0000	0.00
*										
CCI 6" x 1" Plate	A	No	Surface Af (CaAa)	50.17 - 37.17	1	1	0.250 0.300	6.0000	14.0000	0.00
CCI 6" x 1" Plate	B	No	Surface Af (CaAa)	50.17 - 37.17	1	1	0.100 0.150	6.0000	14.0000	0.00
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	50.17 - 37.17	1	1	-0.400 -0.350	6.0000	14.0000	0.00

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
CCI 6" x 1" Plate	C	No	Surface Af (CaAa)	50.17 - 37.17	1	1	0.450 0.500	6.0000	14.0000	0.00
*										
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	71.00 - 61.00	1	1	-0.250 -0.200	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	71.00 - 61.00	1	1	-0.450 -0.400	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	71.00 - 61.00	1	1	0.400 0.450	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	C	No	Surface Af (CaAa)	71.00 - 61.00	1	1	0.350 0.400	4.5000	11.0000	0.00
*										
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	97.33 - 81.33	1	1	-0.500 -0.450	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	97.33 - 81.33	1	1	-0.500 -0.450	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	C	No	Surface Af (CaAa)	97.33 - 81.33	1	1	-0.500 -0.450	4.5000	11.0000	0.00
*										
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	111.54 - 101.54	1	1	-0.350 -0.300	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	111.54 - 101.54	1	1	-0.350 -0.300	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	111.54 - 101.54	1	1	-0.350 -0.300	4.5000	11.0000	0.00
*										
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	91.42 - 81.42	1	1	-0.150 -0.100	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	91.42 - 81.42	1	1	-0.150 -0.100	4.5000	11.0000	0.00
CCI 4.5" x 1" Plate	C	No	Surface Af (CaAa)	91.42 - 81.42	1	1	-0.150 -0.100	4.5000	11.0000	0.00
*										
* BS*										
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	27.50 - 12.67	1	1	0.400 0.450	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	27.50 - 12.67	1	1	-0.250 -0.200	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	27.50 - 12.67	1	1	0.450 0.500	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	27.50 - 12.67	1	1	-0.250 -0.200	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	27.50 - 12.67	1	1	0.350 0.400	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	27.50 - 12.67	1	1	-0.250 -0.200	6.5000	15.5000	27.65
*										
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	47.83 - 32.83	1	1	0.400 0.450	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	47.83 - 32.83	1	1	-0.400 -0.350	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	47.83 - 32.83	1	1	-0.400 -0.350	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	47.83 - 32.83	1	1	-0.250 -0.200	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	47.83 - 32.83	1	1	-0.400 0.350	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	C	No	Surface Af (CaAa)	47.83 - 32.83	1	1	-0.250 -0.200	6.5000	15.5000	27.65
*										
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	60.08 - 55.25	1	1	0.200 0.250	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	60.08 - 55.25	1	1	-0.400 -0.350	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	60.08 - 55.25	1	1	0.150 0.200	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	60.08 - 55.25	1	1	-0.350 -0.300	8.5000	19.5000	36.16

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
CCI 8.5" x 1.25" Plate	C	No	Surface Af (CaAa)	60.08 - 55.25	1	1	0.100 0.150	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate *	C	No	Surface Af (CaAa)	60.08 - 55.25	1	1	-0.500 -0.450	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	61.08 - 60.08	1	1	0.200 0.250	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	61.08 - 60.08	1	1	-0.400 -0.350	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	61.08 - 60.08	1	1	0.150 0.200	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	61.08 - 60.08	1	1	-0.350 -0.300	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	C	No	Surface Af (CaAa)	61.08 - 60.08	1	1	0.100 0.150	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate *	C	No	Surface Af (CaAa)	61.08 - 60.08	1	1	-0.500 -0.450	8.5000	19.5000	36.16
CCI 8.5" x 4.25" Plate	A	No	Surface Af (CaAa)	68.42 - 61.08	1	1	0.200 0.250	8.5000	25.5000	122.94
CCI 8.5" x 4.25" Plate	A	No	Surface Af (CaAa)	68.42 - 61.08	1	1	-0.400 -0.350	8.5000	25.5000	122.94
CCI 8.5" x 4.25" Plate	B	No	Surface Af (CaAa)	68.42 - 61.08	1	1	0.150 0.200	8.5000	25.5000	122.94
CCI 8.5" x 4.25" Plate	B	No	Surface Af (CaAa)	68.42 - 61.08	1	1	-0.350 -0.300	8.5000	25.5000	122.94
CCI 8.5" x 4.25" Plate	C	No	Surface Af (CaAa)	68.42 - 61.08	1	1	0.100 0.150	8.5000	25.5000	122.94
CCI 8.5" x 4.25" Plate *	C	No	Surface Af (CaAa)	68.42 - 61.08	1	1	-0.500 -0.450	8.5000	25.5000	122.94
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	73.42 - 68.42	1	1	0.200 0.250	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	A	No	Surface Af (CaAa)	73.42 - 68.42	1	1	-0.400 -0.350	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	73.42 - 68.42	1	1	0.150 0.200	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	B	No	Surface Af (CaAa)	73.42 - 68.42	1	1	-0.350 -0.300	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate	C	No	Surface Af (CaAa)	73.42 - 68.42	1	1	0.100 0.150	8.5000	19.5000	36.16
CCI 8.5" x 1.25" Plate *	C	No	Surface Af (CaAa)	73.42 - 68.42	1	1	-0.500 -0.450	8.5000	19.5000	36.16
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	80.33 - 76.50	1	1	0.050 0.100	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	80.33 - 76.50	1	1	0.000 0.050	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate *	C	No	Surface Af (CaAa)	80.33 - 76.50	1	1	0.150 0.200	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	80.50 - 80.33	1	1	0.050 0.100	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	80.50 - 80.33	1	1	0.000 0.050	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate *	C	No	Surface Af (CaAa)	80.50 - 80.33	1	1	0.150 0.200	6.5000	15.5000	27.65
CCI 6.5" x 4.25" Plate	A	No	Surface Af (CaAa)	85.83 - 80.50	1	1	0.050 0.100	6.5000	21.5000	94.01
CCI 6.5" x 4.25" Plate	B	No	Surface Af (CaAa)	85.83 - 80.50	1	1	0.000 0.050	6.5000	21.5000	94.01
CCI 6.5" x 4.25" Plate *	C	No	Surface Af (CaAa)	85.83 - 80.50	1	1	0.150 0.200	6.5000	21.5000	94.01
CCI 6.5" x 1.25" Plate	A	No	Surface Af (CaAa)	89.75 - 85.83	1	1	0.050 0.100	6.5000	15.5000	27.65

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
CCI 6.5" x 1.25" Plate	B	No	Surface Af (CaAa)	89.75 - 85.83	1	1	0.000 0.050	6.5000	15.5000	27.65
CCI 6.5" x 1.25" Plate *	C	No	Surface Af (CaAa)	89.75 - 85.83	1	1	0.150 0.200	6.5000	15.5000	27.65
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	100.42 - 97.92	1	1	-0.150 -0.100	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	100.42 - 97.92	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	100.42 - 97.92	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	101.42 - 100.42	1	1	-0.150 -0.100	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	101.42 - 100.42	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	101.42 - 100.42	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 4" Plate	A	No	Surface Af (CaAa)	104.42 - 101.42	1	1	-0.150 -0.100	4.5000	17.0000	61.26
CCI 4.5" x 4" Plate	B	No	Surface Af (CaAa)	104.42 - 101.42	1	1	-0.100 -0.050	4.5000	17.0000	61.26
CCI 4.5" x 4" Plate *	C	No	Surface Af (CaAa)	104.42 - 101.42	1	1	-0.100 -0.050	4.5000	17.0000	61.26
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	107.17 - 104.42	1	1	-0.150 -0.100	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	107.17 - 104.42	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	107.17 - 104.42	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	120.67 - 117.92	1	1	-0.150 -0.100	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	120.67 - 117.92	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	120.67 - 117.92	1	1	-0.200 -0.150	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	121.67 - 120.67	1	1	-0.150 -0.100	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	121.67 - 120.67	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	121.67 - 120.67	1	1	-0.200 -0.150	4.5000	11.0000	15.34
CCI 4.5" x 4" Plate	A	No	Surface Af (CaAa)	124.42 - 121.67	1	1	-0.150 -0.100	4.5000	17.0000	61.26
CCI 4.5" x 4" Plate	B	No	Surface Af (CaAa)	124.42 - 121.67	1	1	-0.100 -0.050	4.5000	17.0000	61.26
CCI 4.5" x 4" Plate *	C	No	Surface Af (CaAa)	124.42 - 121.67	1	1	-0.200 -0.150	4.5000	17.0000	61.26
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	127.17 - 124.42	1	1	-0.150 -0.100	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	127.17 - 124.42	1	1	-0.100 -0.050	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	127.17 - 124.42	1	1	-0.200 -0.150	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	61.46 - 58.00	1	1	-0.250 -0.200	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	61.46 - 58.00	1	1	-0.450 -0.400	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	61.46 - 58.00	1	1	0.400 0.450	4.5000	11.0000	15.34

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	61.46 - 58.00	1	1	0.350 0.400	4.5000	11.0000	15.34
CCI 4.5" x 3" Plate	A	No	Surface Af (CaAa)	62.96 - 61.55	1	1	-0.250 -0.200	4.5000	15.0000	45.94
CCI 4.5" x 3" Plate	B	No	Surface Af (CaAa)	62.96 - 61.55	1	1	-0.450 -0.400	4.5000	15.0000	45.94
CCI 4.5" x 3" Plate	B	No	Surface Af (CaAa)	62.96 - 61.55	1	1	0.400 0.450	4.5000	15.0000	45.94
CCI 4.5" x 3" Plate *	C	No	Surface Af (CaAa)	62.96 - 61.55	1	1	0.350 0.400	4.5000	15.0000	45.94
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	81.71 - 78.33	1	1	-0.500 -0.450	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	81.71 - 78.33	1	1	-0.500 -0.450	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	81.71 - 78.33	1	1	-0.500 -0.450	4.5000	11.0000	15.34
CCI 4.5" x 3" Plate	A	No	Surface Af (CaAa)	83.21 - 81.71	1	1	-0.500 -0.450	4.5000	15.0000	45.94
CCI 4.5" x 3" Plate	B	No	Surface Af (CaAa)	83.21 - 81.71	1	1	-0.500 -0.450	4.5000	15.0000	45.94
CCI 4.5" x 3" Plate *	C	No	Surface Af (CaAa)	83.21 - 81.71	1	1	-0.500 -0.450	4.5000	15.0000	45.94
CCI 4.5" x 1" Plate	A	No	Surface Af (CaAa)	101.79 - 98.42	1	1	0.300 0.350	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate	B	No	Surface Af (CaAa)	101.79 - 98.42	1	1	0.300 0.350	4.5000	11.0000	15.34
CCI 4.5" x 1" Plate *	C	No	Surface Af (CaAa)	101.79 - 98.42	1	1	0.300 0.350	4.5000	11.0000	15.34
CCI 4.5" x 3" Plate	A	No	Surface Af (CaAa)	103.29 - 101.79	1	1	0.300 0.350	4.5000	15.0000	45.94
CCI 4.5" x 3" Plate	B	No	Surface Af (CaAa)	103.29 - 101.79	1	1	0.300 0.350	4.5000	15.0000	45.94
CCI 4.5" x 3" Plate ****	C	No	Surface Af (CaAa)	103.29 - 101.79	1	1	0.300 0.350	4.5000	15.0000	45.94
CU12PSM6P4XXX(1-3/4) ****	C	No	Surface Ar (CaAa)	171.00 - 0.00	1	1	0.450 0.450	1.7500		2.72
HB158-1-08U8-S8J18(1-5/8)	B	No	Surface Ar (CaAa)	160.00 - 4.00	2	2	0.000 0.040	1.9800		1.30
AL7-50(1-5/8) ***	B	No	Surface Ar (CaAa)	160.00 - 4.00	12	12	-0.350 -0.100	1.9600		0.52
LDF7-50A(1-5/8)	B	No	Surface Ar (CaAa)	116.00 - 4.00	12	3	-0.200 -0.100	1.9800		0.82
Banjo ****	B	No	Surface Af (CaAa)	116.00 - 4.00	1	1	-0.200 -0.100	1.0000	4.0000	8.40
Safety Line 3/8	C	No	Surface Ar (CaAa)	191.67 - 4.00	1	1	0.000 0.010	0.3750		0.22
Step Pegs ****	C	No	Surface Ar (CaAa)	191.67 - 4.00	1	1	-0.050 0.050	1.0000		8.40

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
*									
****									
LDF5-50A(7/8)	B	No	No	Inside Pole	191.67 - 5.00	1	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
***									
ATCB-B01-001(5/16)	B	No	No	Inside Pole	191.00 - 5.00	1	No Ice	0.00	0.07
							1/2" Ice	0.00	0.07
							1" Ice	0.00	0.07
							2" Ice	0.00	0.07
****									
HCS 6X12 4AWG(1-5/8)	C	No	No	Inside Pole	184.00 - 5.00	2	No Ice	0.00	2.40
							1/2" Ice	0.00	2.40
							1" Ice	0.00	2.40
							2" Ice	0.00	2.40
****									
HB158-21U6S24-xxM_TMO(1-5/8)	C	No	No	Inside Pole	184.00 - 5.00	1	No Ice	0.00	2.50
							1/2" Ice	0.00	2.50
							1" Ice	0.00	2.50
							2" Ice	0.00	2.50
****									
LDF5-50A(7/8)	B	No	No	Inside Pole	158.00 - 4.00	2	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
****									
LDF6-50A(1-1/4)	C	No	No	Inside Pole	151.00 - 4.00	12	No Ice	0.00	0.60
							1/2" Ice	0.00	0.60
							1" Ice	0.00	0.60
							2" Ice	0.00	0.60
****									
LDF5-50A(7/8)	B	No	No	Inside Pole	132.00 - 4.00	1	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
****									
2" Rigid Conduit	B	No	No	Inside Pole	116.00 - 4.00	1	No Ice	0.00	2.80
							1/2" Ice	0.00	2.80
							1" Ice	0.00	2.80
							2" Ice	0.00	2.80
9207(5/16)	B	No	No	Inside Pole	116.00 - 4.00	6	No Ice	0.00	0.06
							1/2" Ice	0.00	0.06
							1" Ice	0.00	0.06
							2" Ice	0.00	0.06
LDF4-50A(1/2)	B	No	No	Inside Pole	116.00 - 4.00	1	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
****									
HB158-21U6M48-30F(1-5/8)	B	No	No	Inside Pole	116.00 - 4.00	3	No Ice	0.00	2.39
							1/2" Ice	0.00	2.39
							1" Ice	0.00	2.39
							2" Ice	0.00	2.39
****									
ATCB-B01-001(5/16)	B	No	No	Inside Pole	90.00 - 4.00	1	No Ice	0.00	0.07
							1/2" Ice	0.00	0.07
							1" Ice	0.00	0.07
							2" Ice	0.00	0.07
LDF4-50A(1/2)	B	No	No	Inside Pole	90.00 - 4.00	2	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
LDF5-50A(7/8)	B	No	No	Inside Pole	90.00 - 4.00	1	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
****									

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C_AA_A ft^2/ft	Weight plf
LDF5-50A(7/8)	B	No	No	Inside Pole	70.00 - 4.00	2	No Ice	0.00	0.33
							1/2" Ice	0.00	0.33
							1" Ice	0.00	0.33
							2" Ice	0.00	0.33
****									
LDF4-50A(1/2)	B	No	No	Inside Pole	33.00 - 4.00	2	No Ice	0.00	0.15
							1/2" Ice	0.00	0.15
							1" Ice	0.00	0.15
							2" Ice	0.00	0.15
****									

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	191.67-186.67	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.688	0.000	0.04
L2	186.67-181.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.701	0.000	0.06
L3	181.57-176.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.688	0.000	0.08
L4	176.57-171.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.688	0.000	0.08
L5	171.57-166.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	1.463	0.000	0.09
L6	166.57-161.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	1.563	0.000	0.09
L7	161.57-156.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	9.434	0.000	0.03
		C	0.000	0.000	1.563	0.000	0.09
L8	156.57-151.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	13.740	0.000	0.05
		C	0.000	0.000	1.563	0.000	0.09
L9	151.57-146.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	13.740	0.000	0.05
		C	0.000	0.000	1.563	0.000	0.13
L10	146.57-141.57	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	13.740	0.000	0.05
		C	0.000	0.000	1.563	0.000	0.13
L11	141.57-141.42	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.412	0.000	0.00
		C	0.000	0.000	0.047	0.000	0.00
L12	141.42-136.42	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	13.740	0.000	0.05
		C	0.000	0.000	1.563	0.000	0.13
L13	136.42-131.42	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	13.740	0.000	0.05
		C	0.000	0.000	1.563	0.000	0.13
L14	131.42-126.42	A	0.000	0.000	0.395	0.000	0.01
		B	0.000	0.000	14.135	0.000	0.06
		C	0.000	0.000	1.958	0.000	0.14
L15	126.42-121.42	A	0.000	0.000	2.541	0.000	0.20
		B	0.000	0.000	16.281	0.000	0.25
		C	0.000	0.000	4.104	0.000	0.33
L16	121.42-121.17	A	0.000	0.000	0.113	0.000	0.00
		B	0.000	0.000	0.800	0.000	0.01
		C	0.000	0.000	0.191	0.000	0.01
L17	121.17-116.17	A	0.000	0.000	1.675	0.000	0.05

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	15.415	0.000	0.10
		C	0.000	0.000	3.238	0.000	0.18
L18	116.17-111.17	A	0.000	0.000	0.844	0.000	0.00
		B	0.000	0.000	17.416	0.000	0.19
		C	0.000	0.000	1.563	0.000	0.13
L19	111.17-110.04	A	0.000	0.000	2.531	0.000	0.00
		B	0.000	0.000	3.947	0.000	0.04
		C	0.000	0.000	0.352	0.000	0.03
L20	110.04-109.79	A	0.000	0.000	0.563	0.000	0.00
		B	0.000	0.000	0.877	0.000	0.01
		C	0.000	0.000	0.078	0.000	0.01
L21	109.79-105.08	A	0.000	0.000	12.523	0.000	0.03
		B	0.000	0.000	18.450	0.000	0.22
		C	0.000	0.000	3.399	0.000	0.15
L22	105.08-104.83	A	0.000	0.000	0.832	0.000	0.00
		B	0.000	0.000	1.147	0.000	0.01
		C	0.000	0.000	0.348	0.000	0.01
L23	104.83-100.92	A	0.000	0.000	12.345	0.000	0.28
		B	0.000	0.000	18.680	0.000	0.43
		C	0.000	0.000	6.164	0.000	0.38
L24	100.92-100.67	A	0.000	0.000	0.250	0.000	0.01
		B	0.000	0.000	1.127	0.000	0.02
		C	0.000	0.000	0.328	0.000	0.01
L25	100.67-95.83	A	0.000	0.000	3.761	0.000	0.08
		B	0.000	0.000	20.722	0.000	0.27
		C	0.000	0.000	5.272	0.000	0.20
L26	95.83-95.58	A	0.000	0.000	0.188	0.000	0.00
		B	0.000	0.000	1.065	0.000	0.01
		C	0.000	0.000	0.266	0.000	0.01
L27	95.58-90.58	A	0.000	0.000	4.375	0.000	0.00
		B	0.000	0.000	21.919	0.000	0.19
		C	0.000	0.000	5.938	0.000	0.13
L28	90.58-89.92	A	0.000	0.000	0.999	0.000	0.00
		B	0.000	0.000	3.336	0.000	0.03
		C	0.000	0.000	1.207	0.000	0.02
L29	89.92-89.67	A	0.000	0.000	0.438	0.000	0.00
		B	0.000	0.000	1.315	0.000	0.01
		C	0.000	0.000	0.516	0.000	0.01
L30	89.67-84.67	A	0.000	0.000	11.325	0.000	0.22
		B	0.000	0.000	28.868	0.000	0.41
		C	0.000	0.000	12.887	0.000	0.34
L31	84.67-80.83	A	0.000	0.000	9.104	0.000	0.44
		B	0.000	0.000	22.557	0.000	0.59
		C	0.000	0.000	10.302	0.000	0.54
L32	80.83-80.33	A	0.000	0.000	0.642	0.000	0.04
		B	0.000	0.000	2.397	0.000	0.06
		C	0.000	0.000	0.798	0.000	0.06
L33	80.33-80.08	A	0.000	0.000	0.410	0.000	0.01
		B	0.000	0.000	1.287	0.000	0.02
		C	0.000	0.000	0.488	0.000	0.02
L34	80.08-75.08	A	0.000	0.000	8.671	0.000	0.13
		B	0.000	0.000	26.214	0.000	0.32
		C	0.000	0.000	10.233	0.000	0.26
L35	75.08-70.08	A	0.000	0.000	12.297	0.000	0.24
		B	0.000	0.000	30.528	0.000	0.44
		C	0.000	0.000	13.859	0.000	0.37
L36	70.08-69.50	A	0.000	0.000	2.176	0.000	0.04
		B	0.000	0.000	4.659	0.000	0.07
		C	0.000	0.000	2.358	0.000	0.06
L37	69.50-69.25	A	0.000	0.000	0.933	0.000	0.02
		B	0.000	0.000	1.998	0.000	0.03
		C	0.000	0.000	1.011	0.000	0.02
L38	69.25-64.25	A	0.000	0.000	19.430	0.000	1.10
		B	0.000	0.000	41.043	0.000	1.31
		C	0.000	0.000	20.993	0.000	1.23
L39	64.25-60.58	A	0.000	0.000	14.648	0.000	0.91
		B	0.000	0.000	31.610	0.000	1.16
		C	0.000	0.000	15.794	0.000	1.01
L40	60.58-60.33	A	0.000	0.000	0.563	0.000	0.02

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	1.577	0.000	0.04
		C	0.000	0.000	0.641	0.000	0.03
L41	60.33-55.33	A	0.000	0.000	16.020	0.000	0.40
		B	0.000	0.000	34.847	0.000	0.63
		C	0.000	0.000	17.583	0.000	0.53
L42	55.33-52.17	A	0.000	0.000	3.593	0.000	0.01
		B	0.000	0.000	14.702	0.000	0.13
		C	0.000	0.000	4.583	0.000	0.09
L43	52.17-51.92	A	0.000	0.000	0.271	0.000	0.00
		B	0.000	0.000	1.148	0.000	0.01
		C	0.000	0.000	0.349	0.000	0.01
L44	51.92-46.92	A	0.000	0.000	11.228	0.000	0.07
		B	0.000	0.000	29.355	0.000	0.30
		C	0.000	0.000	16.041	0.000	0.20
L45	46.92-41.92	A	0.000	0.000	22.083	0.000	0.31
		B	0.000	0.000	40.460	0.000	0.55
		C	0.000	0.000	28.646	0.000	0.44
L46	41.92-40.23	A	0.000	0.000	6.729	0.000	0.10
		B	0.000	0.000	12.860	0.000	0.18
		C	0.000	0.000	8.940	0.000	0.15
L47	40.23-39.98	A	0.000	0.000	0.792	0.000	0.01
		B	0.000	0.000	1.669	0.000	0.02
		C	0.000	0.000	1.120	0.000	0.02
L48	39.98-34.98	A	0.000	0.000	18.416	0.000	0.28
		B	0.000	0.000	35.960	0.000	0.48
		C	0.000	0.000	22.795	0.000	0.41
L49	34.98-29.98	A	0.000	0.000	9.682	0.000	0.12
		B	0.000	0.000	27.225	0.000	0.32
		C	0.000	0.000	11.261	0.000	0.25
L50	29.98-28.00	A	0.000	0.000	3.966	0.000	0.00
		B	0.000	0.000	10.924	0.000	0.08
		C	0.000	0.000	6.569	0.000	0.05
L51	28.00-27.75	A	0.000	0.000	0.500	0.000	0.00
		B	0.000	0.000	1.377	0.000	0.01
		C	0.000	0.000	0.828	0.000	0.01
L52	27.75-22.75	A	0.000	0.000	20.292	0.000	0.26
		B	0.000	0.000	37.835	0.000	0.47
		C	0.000	0.000	26.854	0.000	0.39
L53	22.75-20.08	A	0.000	0.000	10.445	0.000	0.15
		B	0.000	0.000	19.803	0.000	0.26
		C	0.000	0.000	13.946	0.000	0.22
L54	20.08-19.83	A	0.000	0.000	0.792	0.000	0.01
		B	0.000	0.000	1.669	0.000	0.02
		C	0.000	0.000	1.120	0.000	0.02
L55	19.83-17.00	A	0.000	0.000	10.971	0.000	0.16
		B	0.000	0.000	20.911	0.000	0.27
		C	0.000	0.000	16.689	0.000	0.23
L56	17.00-16.75	A	0.000	0.000	0.792	0.000	0.01
		B	0.000	0.000	1.669	0.000	0.02
		C	0.000	0.000	1.120	0.000	0.02
L57	16.75-11.65	A	0.000	0.000	13.940	0.000	0.23
		B	0.000	0.000	31.834	0.000	0.43
		C	0.000	0.000	21.645	0.000	0.36
L58	11.65-11.42	A	0.000	0.000	0.233	0.000	0.00
		B	0.000	0.000	1.051	0.000	0.01
		C	0.000	0.000	0.694	0.000	0.01
L59	11.42-9.40	A	0.000	0.000	3.007	0.000	0.00
		B	0.000	0.000	10.098	0.000	0.08
		C	0.000	0.000	6.021	0.000	0.05
L60	9.40-9.15	A	0.000	0.000	0.417	0.000	0.00
		B	0.000	0.000	1.294	0.000	0.01
		C	0.000	0.000	0.745	0.000	0.01
L61	9.15-4.83	A	0.000	0.000	7.188	0.000	0.00
		B	0.000	0.000	22.321	0.000	0.18
		C	0.000	0.000	12.849	0.000	0.11
L62	4.83-4.58	A	0.000	0.000	0.417	0.000	0.00
		B	0.000	0.000	1.294	0.000	0.01
		C	0.000	0.000	0.745	0.000	0.00
L63	4.58-0.00	A	0.000	0.000	7.638	0.000	0.00

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
		B	0.000	0.000	9.684	0.000	0.02
		C	0.000	0.000	10.992	0.000	0.02

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L1	191.67-186.67	A	2.024	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.736	0.000	0.11
L2	186.67-181.57	A	2.019	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.820	0.000	0.13
L3	181.57-176.57	A	2.013	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.714	0.000	0.15
L4	176.57-171.57	A	2.008	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	4.703	0.000	0.15
L5	171.57-166.57	A	2.002	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	7.241	0.000	0.20
L6	166.57-161.57	A	1.996	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	7.550	0.000	0.20
L7	161.57-156.57	A	1.990	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	15.207	0.000	0.24
		C		0.000	0.000	7.531	0.000	0.20
L8	156.57-151.57	A	1.983	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	22.133	0.000	0.35
		C		0.000	0.000	7.512	0.000	0.20
L9	151.57-146.57	A	1.977	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	22.117	0.000	0.35
		C		0.000	0.000	7.493	0.000	0.23
L10	146.57-141.57	A	1.970	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	22.100	0.000	0.34
		C		0.000	0.000	7.472	0.000	0.24
L11	141.57-141.42	A	1.966	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.663	0.000	0.01
		C		0.000	0.000	0.224	0.000	0.01
L12	141.42-136.42	A	1.963	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	22.082	0.000	0.34
		C		0.000	0.000	7.451	0.000	0.24
L13	136.42-131.42	A	1.956	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	22.064	0.000	0.34
		C		0.000	0.000	7.429	0.000	0.24
L14	131.42-126.42	A	1.948	0.000	0.000	0.548	0.000	0.02
		B		0.000	0.000	22.594	0.000	0.36
		C		0.000	0.000	7.955	0.000	0.26
L15	126.42-121.42	A	1.940	0.000	0.000	3.589	0.000	0.28
		B		0.000	0.000	25.615	0.000	0.63
		C		0.000	0.000	10.973	0.000	0.52
L16	121.42-121.17	A	1.936	0.000	0.000	0.169	0.000	0.01
		B		0.000	0.000	1.270	0.000	0.02
		C		0.000	0.000	0.538	0.000	0.02
L17	121.17-116.17	A	1.932	0.000	0.000	2.344	0.000	0.09
		B		0.000	0.000	24.349	0.000	0.43
		C		0.000	0.000	9.703	0.000	0.33
L18	116.17-111.17	A	1.924	0.000	0.000	1.082	0.000	0.02
		B		0.000	0.000	30.563	0.000	0.76
		C		0.000	0.000	7.334	0.000	0.23
L19	111.17-110.04	A	1.919	0.000	0.000	3.245	0.000	0.05
		B		0.000	0.000	6.938	0.000	0.17
		C		0.000	0.000	1.647	0.000	0.05
L20	110.04-109.79	A	1.917	0.000	0.000	0.721	0.000	0.01
		B		0.000	0.000	1.541	0.000	0.04
		C		0.000	0.000	0.366	0.000	0.01

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L21	109.79-105.08	A	1.913	0.000	0.000	16.226	0.000	0.27
		B		0.000	0.000	31.666	0.000	0.81
		C		0.000	0.000	9.528	0.000	0.30
L22	105.08-104.83	A	1.909	0.000	0.000	1.091	0.000	0.02
		B		0.000	0.000	1.910	0.000	0.05
		C		0.000	0.000	0.735	0.000	0.02
L23	104.83-100.92	A	1.905	0.000	0.000	16.390	0.000	0.56
		B		0.000	0.000	31.009	0.000	1.03
		C		0.000	0.000	12.610	0.000	0.60
L24	100.92-100.67	A	1.901	0.000	0.000	0.355	0.000	0.01
		B		0.000	0.000	1.893	0.000	0.05
		C		0.000	0.000	0.719	0.000	0.03
L25	100.67-95.83	A	1.896	0.000	0.000	5.320	0.000	0.16
		B		0.000	0.000	35.027	0.000	0.91
		C		0.000	0.000	12.330	0.000	0.39
L26	95.83-95.58	A	1.891	0.000	0.000	0.279	0.000	0.00
		B		0.000	0.000	1.814	0.000	0.04
		C		0.000	0.000	0.641	0.000	0.01
L27	95.58-90.58	A	1.886	0.000	0.000	6.378	0.000	0.08
		B		0.000	0.000	37.056	0.000	0.84
		C		0.000	0.000	13.597	0.000	0.31
L28	90.58-89.92	A	1.880	0.000	0.000	1.380	0.000	0.02
		B		0.000	0.000	5.463	0.000	0.12
		C		0.000	0.000	2.340	0.000	0.05
L29	89.92-89.67	A	1.879	0.000	0.000	0.597	0.000	0.01
		B		0.000	0.000	2.130	0.000	0.05
		C		0.000	0.000	0.957	0.000	0.02
L30	89.67-84.67	A	1.873	0.000	0.000	15.169	0.000	0.43
		B		0.000	0.000	45.789	0.000	1.20
		C		0.000	0.000	22.352	0.000	0.66
L31	84.67-80.83	A	1.864	0.000	0.000	12.252	0.000	0.64
		B		0.000	0.000	35.696	0.000	1.23
		C		0.000	0.000	17.738	0.000	0.82
L32	80.83-80.33	A	1.859	0.000	0.000	0.846	0.000	0.06
		B		0.000	0.000	3.901	0.000	0.14
		C		0.000	0.000	1.560	0.000	0.08
L33	80.33-80.08	A	1.858	0.000	0.000	0.538	0.000	0.02
		B		0.000	0.000	2.066	0.000	0.06
		C		0.000	0.000	0.895	0.000	0.03
L34	80.08-75.08	A	1.852	0.000	0.000	11.514	0.000	0.28
		B		0.000	0.000	42.031	0.000	1.04
		C		0.000	0.000	18.632	0.000	0.51
L35	75.08-70.08	A	1.839	0.000	0.000	15.554	0.000	0.45
		B		0.000	0.000	46.886	0.000	1.22
		C		0.000	0.000	22.635	0.000	0.68
L36	70.08-69.50	A	1.832	0.000	0.000	2.725	0.000	0.08
		B		0.000	0.000	6.828	0.000	0.18
		C		0.000	0.000	3.548	0.000	0.11
L37	69.50-69.25	A	1.831	0.000	0.000	1.168	0.000	0.03
		B		0.000	0.000	2.927	0.000	0.08
		C		0.000	0.000	1.521	0.000	0.05
L38	69.25-64.25	A	1.824	0.000	0.000	24.690	0.000	1.48
		B		0.000	0.000	60.612	0.000	2.32
		C		0.000	0.000	31.725	0.000	1.70
L39	64.25-60.58	A	1.812	0.000	0.000	19.088	0.000	1.23
		B		0.000	0.000	47.282	0.000	1.98
		C		0.000	0.000	24.220	0.000	1.39
L40	60.58-60.33	A	1.806	0.000	0.000	0.716	0.000	0.03
		B		0.000	0.000	2.417	0.000	0.08
		C		0.000	0.000	1.065	0.000	0.05
L41	60.33-55.33	A	1.798	0.000	0.000	19.934	0.000	0.68
		B		0.000	0.000	51.928	0.000	1.49
		C		0.000	0.000	26.891	0.000	0.90
L42	55.33-52.17	A	1.785	0.000	0.000	4.709	0.000	0.06
		B		0.000	0.000	23.831	0.000	0.53
		C		0.000	0.000	9.089	0.000	0.20
L43	52.17-51.92	A	1.779	0.000	0.000	0.356	0.000	0.00
		B		0.000	0.000	1.865	0.000	0.04
		C		0.000	0.000	0.701	0.000	0.01

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
L44	51.92-46.92	A	1.770	0.000	0.000	15.119	0.000	0.26
		B		0.000	0.000	46.979	0.000	1.05
		C		0.000	0.000	25.875	0.000	0.52
L45	46.92-41.92	A	1.751	0.000	0.000	28.580	0.000	0.65
		B		0.000	0.000	61.080	0.000	1.46
		C		0.000	0.000	41.361	0.000	0.94
L46	41.92-40.23	A	1.738	0.000	0.000	8.589	0.000	0.20
		B		0.000	0.000	19.339	0.000	0.47
		C		0.000	0.000	12.878	0.000	0.30
L47	40.23-39.98	A	1.733	0.000	0.000	0.950	0.000	0.02
		B		0.000	0.000	2.447	0.000	0.06
		C		0.000	0.000	1.585	0.000	0.04
L48	39.98-34.98	A	1.722	0.000	0.000	22.761	0.000	0.53
		B		0.000	0.000	52.661	0.000	1.25
		C		0.000	0.000	32.840	0.000	0.78
L49	34.98-29.98	A	1.697	0.000	0.000	12.296	0.000	0.25
		B		0.000	0.000	42.080	0.000	0.97
		C		0.000	0.000	18.971	0.000	0.46
L50	29.98-28.00	A	1.678	0.000	0.000	4.993	0.000	0.05
		B		0.000	0.000	16.769	0.000	0.34
		C		0.000	0.000	9.960	0.000	0.16
L51	28.00-27.75	A	1.672	0.000	0.000	0.629	0.000	0.01
		B		0.000	0.000	2.112	0.000	0.04
		C		0.000	0.000	1.254	0.000	0.02
L52	27.75-22.75	A	1.655	0.000	0.000	24.816	0.000	0.53
		B		0.000	0.000	54.399	0.000	1.23
		C		0.000	0.000	37.260	0.000	0.80
L53	22.75-20.08	A	1.628	0.000	0.000	12.664	0.000	0.28
		B		0.000	0.000	28.375	0.000	0.65
		C		0.000	0.000	19.251	0.000	0.43
L54	20.08-19.83	A	1.617	0.000	0.000	0.938	0.000	0.02
		B		0.000	0.000	2.408	0.000	0.06
		C		0.000	0.000	1.553	0.000	0.04
L55	19.83-17.00	A	1.604	0.000	0.000	13.258	0.000	0.29
		B		0.000	0.000	29.881	0.000	0.69
		C		0.000	0.000	22.847	0.000	0.47
L56	17.00-16.75	A	1.590	0.000	0.000	0.971	0.000	0.02
		B		0.000	0.000	2.435	0.000	0.06
		C		0.000	0.000	1.617	0.000	0.04
L57	16.75-11.65	A	1.563	0.000	0.000	17.146	0.000	0.39
		B		0.000	0.000	46.871	0.000	1.09
		C		0.000	0.000	31.544	0.000	0.68
L58	11.65-11.42	A	1.530	0.000	0.000	0.304	0.000	0.00
		B		0.000	0.000	1.655	0.000	0.03
		C		0.000	0.000	1.099	0.000	0.02
L59	11.42-9.40	A	1.515	0.000	0.000	3.963	0.000	0.04
		B		0.000	0.000	15.650	0.000	0.31
		C		0.000	0.000	9.496	0.000	0.15
L60	9.40-9.15	A	1.497	0.000	0.000	0.549	0.000	0.01
		B		0.000	0.000	1.991	0.000	0.04
		C		0.000	0.000	1.170	0.000	0.02
L61	9.15-4.83	A	1.456	0.000	0.000	9.421	0.000	0.08
		B		0.000	0.000	34.121	0.000	0.65
		C		0.000	0.000	19.985	0.000	0.30
L62	4.83-4.58	A	1.399	0.000	0.000	0.542	0.000	0.00
		B		0.000	0.000	1.960	0.000	0.04
		C		0.000	0.000	1.143	0.000	0.02
L63	4.58-0.00	A	1.302	0.000	0.000	9.800	0.000	0.08
		B		0.000	0.000	13.054	0.000	0.15
		C		0.000	0.000	15.136	0.000	0.15

Feed Line Center of Pressure

Section	Elevation	CP_X	CP_Z	CP_X Ice	CP_Z Ice
	ft	in	in	in	in
L1	191.67-186.67	-0.0035	1.2477	-0.0135	2.8109
L2	186.67-181.57	-0.0036	1.2763	-0.0150	3.1143
L3	181.57-176.57	-0.0036	1.2763	-0.0150	3.1097
L4	176.57-171.57	-0.0036	1.2763	-0.0150	3.1050
L5	171.57-166.57	-1.0859	1.9302	-1.2637	3.6366
L6	166.57-161.57	-1.2083	2.0042	-1.4008	3.6912
L7	161.57-156.57	3.7416	-4.7612	2.2118	-1.6645
L8	156.57-151.57	4.5437	-5.8574	2.9075	-2.6974
L9	151.57-146.57	4.5437	-5.8574	2.9093	-2.7019
L10	146.57-141.57	4.5437	-5.8574	2.9111	-2.7066
L11	141.57-141.42	4.5437	-5.8574	2.9120	-2.7091
L12	141.42-136.42	5.8220	-7.4991	3.8076	-3.5216
L13	136.42-131.42	5.8220	-7.4991	3.8096	-3.5278
L14	131.42-126.42	5.6467	-7.1374	3.7620	-3.4267
L15	126.42-121.42	4.9327	-5.6394	3.5398	-2.9292
L16	121.42-121.17	5.0000	-5.8037	3.5472	-2.9640
L17	121.17-116.17	5.7041	-6.7914	4.0053	-3.4489
L18	116.17-111.17	6.8989	-8.9907	5.0286	-5.3719
L19	111.17-110.04	0.3017	-2.4008	1.3334	-1.9882
L20	110.04-109.79	0.3017	-2.4008	1.3334	-1.9886
L21	109.79-105.08	0.2394	-1.9809	1.1985	-1.7401
L22	105.08-104.83	0.1478	-1.2955	1.0190	-1.4268
L23	104.83-100.92	0.6355	-1.7045	1.3876	-1.7409
L24	100.92-100.67	4.3727	-5.4327	4.5332	-4.6840
L25	100.67-95.83	5.9687	-7.4827	4.7935	-5.0101
L26	95.83-95.58	6.0643	-7.7244	4.8043	-5.1069
L27	95.58-90.58	5.8070	-7.3967	4.6820	-4.9788
L28	90.58-89.92	3.9040	-4.9726	4.1437	-4.4084
L29	89.92-89.67	3.4741	-4.8312	3.7939	-4.3255
L30	89.67-84.67	2.7353	-4.5909	3.1688	-4.1807
L31	84.67-80.83	2.6319	-4.4749	3.0648	-4.0909
L32	80.83-80.33	3.6424	-6.0868	4.1409	-5.4718
L33	80.33-80.08	3.6290	-5.6396	4.1226	-5.1326
L34	80.08-75.08	4.2895	-5.4567	4.6705	-4.9739
L35	75.08-70.08	4.3028	-4.6750	4.6581	-4.4207
L36	70.08-69.50	1.8926	-3.3691	2.4547	-3.3288
L37	69.50-69.25	1.8926	-3.3691	2.4546	-3.3291
L38	69.25-64.25	1.9426	-3.2547	2.5029	-3.1764
L39	64.25-60.58	1.2376	-2.9253	1.7995	-2.7944
L40	60.58-60.33	2.4659	-4.6613	3.0227	-4.4466
L41	60.33-55.33	3.1701	-4.0708	3.6291	-3.9758
L42	55.33-52.17	5.9874	-7.2406	5.0952	-5.1705
L43	52.17-51.92	6.0241	-7.3186	5.1091	-5.2008
L44	51.92-46.92	4.9610	-5.6441	5.4240	-4.9627
L45	46.92-41.92	4.5764	-5.1953	5.0342	-4.6632
L46	41.92-40.23	4.8317	-5.6445	5.2583	-5.1210
L47	40.23-39.98	5.3345	-6.7923	5.6381	-6.4467
L48	39.98-34.98	4.4693	-5.6808	4.8083	-5.4298
L49	34.98-29.98	4.5249	-5.7735	4.9498	-5.4206
L50	29.98-28.00	0.8806	-6.8863	1.9351	-6.3700
L51	28.00-27.75	0.8806	-6.8863	1.9342	-6.3730
L52	27.75-22.75	0.5099	-4.4781	1.3546	-4.4176
L53	22.75-20.08	0.5134	-4.5417	1.3727	-4.4927
L54	20.08-19.83	0.5735	-5.0732	1.5242	-4.9976
L55	19.83-17.00	1.2882	-4.8715	2.1024	-4.8243
L56	17.00-16.75	4.1678	-4.0440	4.6676	-4.1107
L57	16.75-11.65	4.1394	-4.2367	4.6322	-4.2636
L58	11.65-11.42	4.7630	-5.8141	5.1593	-5.4823
L59	11.42-9.40	5.2685	-7.5437	5.6042	-7.1086
L60	9.40-9.15	5.4382	-8.1245	5.7552	-7.6653
L61	9.15-4.83	5.4382	-8.1245	5.7569	-7.6884
L62	4.83-4.58	5.4382	-8.1245	5.7593	-7.7200
L63	4.58-0.00	3.4162	-5.2404	3.4601	-5.4606

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

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L1	220	Safety Line 3/8	186.67 - 191.67	1.0000	1.0000
L1	221	Step Pegs	186.67 - 191.67	1.0000	1.0000
L2	220	Safety Line 3/8	181.57 - 186.67	1.0000	1.0000
L2	221	Step Pegs	181.57 - 186.67	1.0000	1.0000
L3	220	Safety Line 3/8	176.57 - 181.57	1.0000	1.0000
L3	221	Step Pegs	176.57 - 181.57	1.0000	1.0000
L4	220	Safety Line 3/8	171.57 - 176.57	1.0000	1.0000
L4	221	Step Pegs	171.57 - 176.57	1.0000	1.0000
L5	191	CU12PSM6P4XXX(1-3/4)	166.57 - 171.00	1.0000	1.0000
L5	220	Safety Line 3/8	166.57 - 171.57	1.0000	1.0000
L5	221	Step Pegs	166.57 - 171.57	1.0000	1.0000
L6	191	CU12PSM6P4XXX(1-3/4)	161.57 - 166.57	1.0000	1.0000
L6	220	Safety Line 3/8	161.57 - 166.57	1.0000	1.0000
L6	221	Step Pegs	161.57 - 166.57	1.0000	1.0000
L7	191	CU12PSM6P4XXX(1-3/4)	156.57 - 161.57	1.0000	1.0000
L7	193	HB158-1-08U8-S8J18(1-5/8)	156.57 - 160.00	1.0000	1.0000
L7	194	AL7-50(1-5/8)	156.57 - 160.00	1.0000	1.0000
L7	220	Safety Line 3/8	156.57 - 161.57	1.0000	1.0000
L7	221	Step Pegs	156.57 - 161.57	1.0000	1.0000
L8	191	CU12PSM6P4XXX(1-3/4)	151.57 - 156.57	1.0000	1.0000
L8	193	HB158-1-08U8-S8J18(1-5/8)	151.57 - 156.57	1.0000	1.0000
L8	194	AL7-50(1-5/8)	151.57 - 156.57	1.0000	1.0000
L8	220	Safety Line 3/8	151.57 - 156.57	1.0000	1.0000
L8	221	Step Pegs	151.57 - 156.57	1.0000	1.0000
L9	191	CU12PSM6P4XXX(1-3/4)	146.57 - 151.57	1.0000	1.0000
L9	193	HB158-1-08U8-S8J18(1-5/8)	146.57 - 151.57	1.0000	1.0000
L9	194	AL7-50(1-5/8)	146.57 - 151.57	1.0000	1.0000
L9	220	Safety Line 3/8	146.57 - 151.57	1.0000	1.0000
L9	221	Step Pegs	146.57 - 151.57	1.0000	1.0000
L10	191	CU12PSM6P4XXX(1-3/4)	141.57 - 146.57	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L10	193	HB158-1-08U8-S8J18(1-5/8)	141.57 - 146.57	1.0000	1.0000
L10	194	AL7-50(1-5/8)	141.57 - 146.57	1.0000	1.0000
L10	220	Safety Line 3/8	141.57 - 146.57	1.0000	1.0000
L10	221	Step Pegs	141.57 - 146.57	1.0000	1.0000
L11	191	CU12PSM6P4XXX(1-3/4)	141.42 - 141.57	1.0000	1.0000
L11	193	HB158-1-08U8-S8J18(1-5/8)	141.42 - 141.57	1.0000	1.0000
L11	194	AL7-50(1-5/8)	141.42 - 141.57	1.0000	1.0000
L11	220	Safety Line 3/8	141.42 - 141.57	1.0000	1.0000
L11	221	Step Pegs	141.42 - 141.57	1.0000	1.0000
L12	191	CU12PSM6P4XXX(1-3/4)	136.42 - 141.42	1.0000	1.0000
L12	193	HB158-1-08U8-S8J18(1-5/8)	136.42 - 141.42	1.0000	1.0000
L12	194	AL7-50(1-5/8)	136.42 - 141.42	1.0000	1.0000
L12	220	Safety Line 3/8	136.42 - 141.42	1.0000	1.0000
L12	221	Step Pegs	136.42 - 141.42	1.0000	1.0000
L13	191	CU12PSM6P4XXX(1-3/4)	131.42 - 136.42	1.0000	1.0000
L13	193	HB158-1-08U8-S8J18(1-5/8)	131.42 - 136.42	1.0000	1.0000
L13	194	AL7-50(1-5/8)	131.42 - 136.42	1.0000	1.0000
L13	220	Safety Line 3/8	131.42 - 136.42	1.0000	1.0000
L13	221	Step Pegs	131.42 - 136.42	1.0000	1.0000
L14	151	CCI 4.5" x 1" Plate	126.42 - 127.17	1.0000	1.0000
L14	152	CCI 4.5" x 1" Plate	126.42 - 127.17	1.0000	1.0000
L14	153	CCI 4.5" x 1" Plate	126.42 - 127.17	1.0000	1.0000
L14	191	CU12PSM6P4XXX(1-3/4)	126.42 - 131.42	1.0000	1.0000
L14	193	HB158-1-08U8-S8J18(1-5/8)	126.42 - 131.42	1.0000	1.0000
L14	194	AL7-50(1-5/8)	126.42 - 131.42	1.0000	1.0000
L14	220	Safety Line 3/8	126.42 - 131.42	1.0000	1.0000
L14	221	Step Pegs	126.42 - 131.42	1.0000	1.0000
L15	143	CCI 4.5" x 1" Plate	121.42 - 121.67	1.0000	1.0000
L15	144	CCI 4.5" x 1" Plate	121.42 - 121.67	1.0000	1.0000
L15	145	CCI 4.5" x 1" Plate	121.42 - 121.67	1.0000	1.0000
L15	147	CCI 4.5" x 4" Plate	121.67 - 124.42	1.0000	1.0000
L15	148	CCI 4.5" x 4" Plate	121.67 - 124.42	1.0000	1.0000
L15	149	CCI 4.5" x 4" Plate	121.67 - 124.42	1.0000	1.0000
L15	151	CCI 4.5" x 1" Plate	124.42 - 126.42	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L15	152	CCI 4.5" x 1" Plate	124.42 - 126.42	1.0000	1.0000
L15	153	CCI 4.5" x 1" Plate	124.42 - 126.42	1.0000	1.0000
L15	191	CU12PSM6P4XXX(1-3/4)	121.42 - 126.42	1.0000	1.0000
L15	193	HB158-1-08U8-S8J18(1-5/8)	121.42 - 126.42	1.0000	1.0000
L15	194	AL7-50(1-5/8)	121.42 - 126.42	1.0000	1.0000
L15	220	Safety Line 3/8	121.42 - 126.42	1.0000	1.0000
L15	221	Step Pegs	121.42 - 126.42	1.0000	1.0000
L16	143	CCI 4.5" x 1" Plate	121.17 - 121.42	1.0000	1.0000
L16	144	CCI 4.5" x 1" Plate	121.17 - 121.42	1.0000	1.0000
L16	145	CCI 4.5" x 1" Plate	121.17 - 121.42	1.0000	1.0000
L16	191	CU12PSM6P4XXX(1-3/4)	121.17 - 121.42	1.0000	1.0000
L16	193	HB158-1-08U8-S8J18(1-5/8)	121.17 - 121.42	1.0000	1.0000
L16	194	AL7-50(1-5/8)	121.17 - 121.42	1.0000	1.0000
L16	220	Safety Line 3/8	121.17 - 121.42	1.0000	1.0000
L16	221	Step Pegs	121.17 - 121.42	1.0000	1.0000
L17	139	CCI 4.5" x 1" Plate	117.92 - 120.67	1.0000	1.0000
L17	140	CCI 4.5" x 1" Plate	117.92 - 120.67	1.0000	1.0000
L17	141	CCI 4.5" x 1" Plate	117.92 - 120.67	1.0000	1.0000
L17	143	CCI 4.5" x 1" Plate	120.67 - 121.17	1.0000	1.0000
L17	144	CCI 4.5" x 1" Plate	120.67 - 121.17	1.0000	1.0000
L17	145	CCI 4.5" x 1" Plate	120.67 - 121.17	1.0000	1.0000
L17	191	CU12PSM6P4XXX(1-3/4)	116.17 - 121.17	1.0000	1.0000
L17	193	HB158-1-08U8-S8J18(1-5/8)	116.17 - 121.17	1.0000	1.0000
L17	194	AL7-50(1-5/8)	116.17 - 121.17	1.0000	1.0000
L17	220	Safety Line 3/8	116.17 - 121.17	1.0000	1.0000
L17	221	Step Pegs	116.17 - 121.17	1.0000	1.0000
L18	56	CCI 4.5" x 1" Plate	111.17 - 111.54	1.0000	1.0000
L18	57	CCI 4.5" x 1" Plate	111.17 - 111.54	1.0000	1.0000
L18	58	CCI 4.5" x 1" Plate	111.17 - 111.54	1.0000	1.0000
L18	191	CU12PSM6P4XXX(1-3/4)	111.17 - 116.17	1.0000	1.0000
L18	193	HB158-1-08U8-S8J18(1-5/8)	111.17 - 116.17	1.0000	1.0000
L18	194	AL7-50(1-5/8)	111.17 - 116.17	1.0000	1.0000
L18	202	LDF7-50A(1-5/8)	111.17 - 116.00	1.0000	1.0000
L18	203	Banjo	111.17 - 116.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L18	220	Safety Line 3/8	111.17 - 116.17	1.0000	1.0000
L18	221	Step Pegs	111.17 - 116.17	1.0000	1.0000
L19	56	CCI 4.5" x 1" Plate	110.04 - 111.17	1.0000	1.0000
L19	57	CCI 4.5" x 1" Plate	110.04 - 111.17	1.0000	1.0000
L19	58	CCI 4.5" x 1" Plate	110.04 - 111.17	1.0000	1.0000
L19	191	CU12PSM6P4XXX(1-3/4)	110.04 - 111.17	1.0000	1.0000
L19	193	HB158-1-08U8-S8J18(1-5/8)	110.04 - 111.17	1.0000	1.0000
L19	194	AL7-50(1-5/8)	110.04 - 111.17	1.0000	1.0000
L19	202	LDF7-50A(1-5/8)	110.04 - 111.17	1.0000	1.0000
L19	203	Banjo	110.04 - 111.17	1.0000	1.0000
L19	220	Safety Line 3/8	110.04 - 111.17	1.0000	1.0000
L19	221	Step Pegs	110.04 - 111.17	1.0000	1.0000
L20	56	CCI 4.5" x 1" Plate	109.79 - 110.04	1.0000	1.0000
L20	57	CCI 4.5" x 1" Plate	109.79 - 110.04	1.0000	1.0000
L20	58	CCI 4.5" x 1" Plate	109.79 - 110.04	1.0000	1.0000
L20	191	CU12PSM6P4XXX(1-3/4)	109.79 - 110.04	1.0000	1.0000
L20	193	HB158-1-08U8-S8J18(1-5/8)	109.79 - 110.04	1.0000	1.0000
L20	194	AL7-50(1-5/8)	109.79 - 110.04	1.0000	1.0000
L20	202	LDF7-50A(1-5/8)	109.79 - 110.04	1.0000	1.0000
L20	203	Banjo	109.79 - 110.04	1.0000	1.0000
L20	220	Safety Line 3/8	109.79 - 110.04	1.0000	1.0000
L20	221	Step Pegs	109.79 - 110.04	1.0000	1.0000
L21	18	CCI 4" x 0.75" Plate	105.08 - 106.58	1.0000	1.0000
L21	19	CCI 4" x 0.75" Plate	105.08 - 106.58	1.0000	1.0000
L21	20	CCI 4" x 0.75" Plate	105.08 - 106.58	1.0000	1.0000
L21	56	CCI 4.5" x 1" Plate	105.08 - 109.79	1.0000	1.0000
L21	57	CCI 4.5" x 1" Plate	105.08 - 109.79	1.0000	1.0000
L21	58	CCI 4.5" x 1" Plate	105.08 - 109.79	1.0000	1.0000
L21	135	CCI 4.5" x 1" Plate	105.08 - 107.17	1.0000	1.0000
L21	136	CCI 4.5" x 1" Plate	105.08 - 107.17	1.0000	1.0000
L21	137	CCI 4.5" x 1" Plate	105.08 - 107.17	1.0000	1.0000
L21	191	CU12PSM6P4XXX(1-3/4)	105.08 - 109.79	1.0000	1.0000
L21	193	HB158-1-08U8-S8J18(1-5/8)	105.08 - 109.79	1.0000	1.0000
L21	194	AL7-50(1-5/8)	105.08 - 109.79	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L21	202	LDF7-50A(1-5/8)	105.08 - 109.79	1.0000	1.0000
L21	203	Banjo	105.08 - 109.79	1.0000	1.0000
L21	220	Safety Line 3/8	105.08 - 109.79	1.0000	1.0000
L21	221	Step Pegs	105.08 - 109.79	1.0000	1.0000
L22	18	CCI 4" x 0.75" Plate	104.83 - 105.08	1.0000	1.0000
L22	19	CCI 4" x 0.75" Plate	104.83 - 105.08	1.0000	1.0000
L22	20	CCI 4" x 0.75" Plate	104.83 - 105.08	1.0000	1.0000
L22	56	CCI 4.5" x 1" Plate	104.83 - 105.08	1.0000	1.0000
L22	57	CCI 4.5" x 1" Plate	104.83 - 105.08	1.0000	1.0000
L22	58	CCI 4.5" x 1" Plate	104.83 - 105.08	1.0000	1.0000
L22	135	CCI 4.5" x 1" Plate	104.83 - 105.08	1.0000	1.0000
L22	136	CCI 4.5" x 1" Plate	104.83 - 105.08	1.0000	1.0000
L22	137	CCI 4.5" x 1" Plate	104.83 - 105.08	1.0000	1.0000
L22	191	CU12PSM6P4XXX(1-3/4)	104.83 - 105.08	1.0000	1.0000
L22	193	HB158-1-08U8-S8J18(1-5/8)	104.83 - 105.08	1.0000	1.0000
L22	194	AL7-50(1-5/8)	104.83 - 105.08	1.0000	1.0000
L22	202	LDF7-50A(1-5/8)	104.83 - 105.08	1.0000	1.0000
L22	203	Banjo	104.83 - 105.08	1.0000	1.0000
L22	220	Safety Line 3/8	104.83 - 105.08	1.0000	1.0000
L22	221	Step Pegs	104.83 - 105.08	1.0000	1.0000
L23	18	CCI 4" x 0.75" Plate	101.58 - 104.83	1.0000	1.0000
L23	19	CCI 4" x 0.75" Plate	101.58 - 104.83	1.0000	1.0000
L23	20	CCI 4" x 0.75" Plate	101.58 - 104.83	1.0000	1.0000
L23	56	CCI 4.5" x 1" Plate	101.54 - 104.83	1.0000	1.0000
L23	57	CCI 4.5" x 1" Plate	101.54 - 104.83	1.0000	1.0000
L23	58	CCI 4.5" x 1" Plate	101.54 - 104.83	1.0000	1.0000
L23	127	CCI 4.5" x 1" Plate	100.92 - 101.42	1.0000	1.0000
L23	128	CCI 4.5" x 1" Plate	100.92 - 101.42	1.0000	1.0000
L23	129	CCI 4.5" x 1" Plate	100.92 - 101.42	1.0000	1.0000
L23	131	CCI 4.5" x 4" Plate	101.42 - 104.42	1.0000	1.0000
L23	132	CCI 4.5" x 4" Plate	101.42 - 104.42	1.0000	1.0000
L23	133	CCI 4.5" x 4" Plate	101.42 - 104.42	1.0000	1.0000
L23	135	CCI 4.5" x 1" Plate	104.42 - 104.83	1.0000	1.0000
L23	136	CCI 4.5" x 1" Plate	104.42 - 104.83	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L23	137	CCI 4.5" x 1" Plate	104.42 - 104.83	1.0000	1.0000
L23	173	CCI 4.5" x 1" Plate	100.92 - 101.79	1.0000	1.0000
L23	174	CCI 4.5" x 1" Plate	100.92 - 101.79	1.0000	1.0000
L23	175	CCI 4.5" x 1" Plate	100.92 - 101.79	1.0000	1.0000
L23	177	CCI 4.5" x 3" Plate	101.79 - 103.29	1.0000	1.0000
L23	178	CCI 4.5" x 3" Plate	101.79 - 103.29	1.0000	1.0000
L23	179	CCI 4.5" x 3" Plate	101.79 - 103.29	1.0000	1.0000
L23	191	CU12PSM6P4XXX(1-3/4)	100.92 - 104.83	1.0000	1.0000
L23	193	HB158-1-08U8-S8J18(1-5/8)	100.92 - 104.83	1.0000	1.0000
L23	194	AL7-50(1-5/8)	100.92 - 104.83	1.0000	1.0000
L23	202	LDF7-50A(1-5/8)	100.92 - 104.83	1.0000	1.0000
L23	203	Banjo	100.92 - 104.83	1.0000	1.0000
L23	220	Safety Line 3/8	100.92 - 104.83	1.0000	1.0000
L23	221	Step Pegs	100.92 - 104.83	1.0000	1.0000
L24	127	CCI 4.5" x 1" Plate	100.67 - 100.92	1.0000	1.0000
L24	128	CCI 4.5" x 1" Plate	100.67 - 100.92	1.0000	1.0000
L24	129	CCI 4.5" x 1" Plate	100.67 - 100.92	1.0000	1.0000
L24	173	CCI 4.5" x 1" Plate	100.67 - 100.92	1.0000	1.0000
L24	174	CCI 4.5" x 1" Plate	100.67 - 100.92	1.0000	1.0000
L24	175	CCI 4.5" x 1" Plate	100.67 - 100.92	1.0000	1.0000
L24	191	CU12PSM6P4XXX(1-3/4)	100.67 - 100.92	1.0000	1.0000
L24	193	HB158-1-08U8-S8J18(1-5/8)	100.67 - 100.92	1.0000	1.0000
L24	194	AL7-50(1-5/8)	100.67 - 100.92	1.0000	1.0000
L24	202	LDF7-50A(1-5/8)	100.67 - 100.92	1.0000	1.0000
L24	203	Banjo	100.67 - 100.92	1.0000	1.0000
L24	220	Safety Line 3/8	100.67 - 100.92	1.0000	1.0000
L24	221	Step Pegs	100.67 - 100.92	1.0000	1.0000
L25	52	CCI 4.5" x 1" Plate	95.83 - 97.33	1.0000	1.0000
L25	53	CCI 4.5" x 1" Plate	95.83 - 97.33	1.0000	1.0000
L25	54	CCI 4.5" x 1" Plate	95.83 - 97.33	1.0000	1.0000
L25	123	CCI 4.5" x 1" Plate	97.92 - 100.42	1.0000	1.0000
L25	124	CCI 4.5" x 1" Plate	97.92 - 100.42	1.0000	1.0000
L25	125	CCI 4.5" x 1" Plate	97.92 - 100.42	1.0000	1.0000
L25	127	CCI 4.5" x 1" Plate	100.42 - 100.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L25	128	CCI 4.5" x 1" Plate	100.42 - 100.67	1.0000	1.0000
L25	129	CCI 4.5" x 1" Plate	100.42 - 100.67	1.0000	1.0000
L25	173	CCI 4.5" x 1" Plate	98.42 - 100.67	1.0000	1.0000
L25	174	CCI 4.5" x 1" Plate	98.42 - 100.67	1.0000	1.0000
L25	175	CCI 4.5" x 1" Plate	98.42 - 100.67	1.0000	1.0000
L25	191	CU12PSM6P4XXX(1-3/4)	95.83 - 100.67	1.0000	1.0000
L25	193	HB158-1-08U8-S8J18(1-5/8)	95.83 - 100.67	1.0000	1.0000
L25	194	AL7-50(1-5/8)	95.83 - 100.67	1.0000	1.0000
L25	202	LDF7-50A(1-5/8)	95.83 - 100.67	1.0000	1.0000
L25	203	Banjo	95.83 - 100.67	1.0000	1.0000
L25	220	Safety Line 3/8	95.83 - 100.67	1.0000	1.0000
L25	221	Step Pegs	95.83 - 100.67	1.0000	1.0000
L26	52	CCI 4.5" x 1" Plate	95.58 - 95.83	1.0000	1.0000
L26	53	CCI 4.5" x 1" Plate	95.58 - 95.83	1.0000	1.0000
L26	54	CCI 4.5" x 1" Plate	95.58 - 95.83	1.0000	1.0000
L26	191	CU12PSM6P4XXX(1-3/4)	95.58 - 95.83	1.0000	1.0000
L26	193	HB158-1-08U8-S8J18(1-5/8)	95.58 - 95.83	1.0000	1.0000
L26	194	AL7-50(1-5/8)	95.58 - 95.83	1.0000	1.0000
L26	202	LDF7-50A(1-5/8)	95.58 - 95.83	1.0000	1.0000
L26	203	Banjo	95.58 - 95.83	1.0000	1.0000
L26	220	Safety Line 3/8	95.58 - 95.83	1.0000	1.0000
L26	221	Step Pegs	95.58 - 95.83	1.0000	1.0000
L27	52	CCI 4.5" x 1" Plate	90.58 - 95.58	1.0000	1.0000
L27	53	CCI 4.5" x 1" Plate	90.58 - 95.58	1.0000	1.0000
L27	54	CCI 4.5" x 1" Plate	90.58 - 95.58	1.0000	1.0000
L27	60	CCI 4.5" x 1" Plate	90.58 - 91.42	1.0000	1.0000
L27	61	CCI 4.5" x 1" Plate	90.58 - 91.42	1.0000	1.0000
L27	62	CCI 4.5" x 1" Plate	90.58 - 91.42	1.0000	1.0000
L27	191	CU12PSM6P4XXX(1-3/4)	90.58 - 95.58	1.0000	1.0000
L27	193	HB158-1-08U8-S8J18(1-5/8)	90.58 - 95.58	1.0000	1.0000
L27	194	AL7-50(1-5/8)	90.58 - 95.58	1.0000	1.0000
L27	202	LDF7-50A(1-5/8)	90.58 - 95.58	1.0000	1.0000
L27	203	Banjo	90.58 - 95.58	1.0000	1.0000
L27	220	Safety Line 3/8	90.58 - 95.58	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L27	221	Step Pegs	90.58 - 95.58	1.0000	1.0000
L28	52	CCI 4.5" x 1" Plate	89.92 - 90.58	1.0000	1.0000
L28	53	CCI 4.5" x 1" Plate	89.92 - 90.58	1.0000	1.0000
L28	54	CCI 4.5" x 1" Plate	89.92 - 90.58	1.0000	1.0000
L28	60	CCI 4.5" x 1" Plate	89.92 - 90.58	1.0000	1.0000
L28	61	CCI 4.5" x 1" Plate	89.92 - 90.58	1.0000	1.0000
L28	62	CCI 4.5" x 1" Plate	89.92 - 90.58	1.0000	1.0000
L28	191	CU12PSM6P4XXX(1-3/4)	89.92 - 90.58	1.0000	1.0000
L28	193	HB158-1-08U8-S8J18(1-5/8)	89.92 - 90.58	1.0000	1.0000
L28	194	AL7-50(1-5/8)	89.92 - 90.58	1.0000	1.0000
L28	202	LDF7-50A(1-5/8)	89.92 - 90.58	1.0000	1.0000
L28	203	Banjo	89.92 - 90.58	1.0000	1.0000
L28	220	Safety Line 3/8	89.92 - 90.58	1.0000	1.0000
L28	221	Step Pegs	89.92 - 90.58	1.0000	1.0000
L29	52	CCI 4.5" x 1" Plate	89.67 - 89.92	1.0000	1.0000
L29	53	CCI 4.5" x 1" Plate	89.67 - 89.92	1.0000	1.0000
L29	54	CCI 4.5" x 1" Plate	89.67 - 89.92	1.0000	1.0000
L29	60	CCI 4.5" x 1" Plate	89.67 - 89.92	1.0000	1.0000
L29	61	CCI 4.5" x 1" Plate	89.67 - 89.92	1.0000	1.0000
L29	62	CCI 4.5" x 1" Plate	89.67 - 89.92	1.0000	1.0000
L29	119	CCI 6.5" x 1.25" Plate	89.67 - 89.75	1.0000	1.0000
L29	120	CCI 6.5" x 1.25" Plate	89.67 - 89.75	1.0000	1.0000
L29	121	CCI 6.5" x 1.25" Plate	89.67 - 89.75	1.0000	1.0000
L29	191	CU12PSM6P4XXX(1-3/4)	89.67 - 89.92	1.0000	1.0000
L29	193	HB158-1-08U8-S8J18(1-5/8)	89.67 - 89.92	1.0000	1.0000
L29	194	AL7-50(1-5/8)	89.67 - 89.92	1.0000	1.0000
L29	202	LDF7-50A(1-5/8)	89.67 - 89.92	1.0000	1.0000
L29	203	Banjo	89.67 - 89.92	1.0000	1.0000
L29	220	Safety Line 3/8	89.67 - 89.92	1.0000	1.0000
L29	221	Step Pegs	89.67 - 89.92	1.0000	1.0000
L30	52	CCI 4.5" x 1" Plate	84.67 - 89.67	1.0000	1.0000
L30	53	CCI 4.5" x 1" Plate	84.67 - 89.67	1.0000	1.0000
L30	54	CCI 4.5" x 1" Plate	84.67 - 89.67	1.0000	1.0000
L30	60	CCI 4.5" x 1" Plate	84.67 - 89.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L30	61	CCI 4.5" x 1" Plate	84.67 - 89.67	1.0000	1.0000
L30	62	CCI 4.5" x 1" Plate	84.67 - 89.67	1.0000	1.0000
L30	115	CCI 6.5" x 4.25" Plate	84.67 - 85.83	1.0000	1.0000
L30	116	CCI 6.5" x 4.25" Plate	84.67 - 85.83	1.0000	1.0000
L30	117	CCI 6.5" x 4.25" Plate	84.67 - 85.83	1.0000	1.0000
L30	119	CCI 6.5" x 1.25" Plate	85.83 - 89.67	1.0000	1.0000
L30	120	CCI 6.5" x 1.25" Plate	85.83 - 89.67	1.0000	1.0000
L30	121	CCI 6.5" x 1.25" Plate	85.83 - 89.67	1.0000	1.0000
L30	191	CU12PSM6P4XXX(1-3/4)	84.67 - 89.67	1.0000	1.0000
L30	193	HB158-1-08U8-S8J18(1-5/8)	84.67 - 89.67	1.0000	1.0000
L30	194	AL7-50(1-5/8)	84.67 - 89.67	1.0000	1.0000
L30	202	LDF7-50A(1-5/8)	84.67 - 89.67	1.0000	1.0000
L30	203	Banjo	84.67 - 89.67	1.0000	1.0000
L30	220	Safety Line 3/8	84.67 - 89.67	1.0000	1.0000
L30	221	Step Pegs	84.67 - 89.67	1.0000	1.0000
L31	52	CCI 4.5" x 1" Plate	81.33 - 84.67	1.0000	1.0000
L31	53	CCI 4.5" x 1" Plate	81.33 - 84.67	1.0000	1.0000
L31	54	CCI 4.5" x 1" Plate	81.33 - 84.67	1.0000	1.0000
L31	60	CCI 4.5" x 1" Plate	81.42 - 84.67	1.0000	1.0000
L31	61	CCI 4.5" x 1" Plate	81.42 - 84.67	1.0000	1.0000
L31	62	CCI 4.5" x 1" Plate	81.42 - 84.67	1.0000	1.0000
L31	115	CCI 6.5" x 4.25" Plate	80.83 - 84.67	1.0000	1.0000
L31	116	CCI 6.5" x 4.25" Plate	80.83 - 84.67	1.0000	1.0000
L31	117	CCI 6.5" x 4.25" Plate	80.83 - 84.67	1.0000	1.0000
L31	165	CCI 4.5" x 1" Plate	80.83 - 81.71	1.0000	1.0000
L31	166	CCI 4.5" x 1" Plate	80.83 - 81.71	1.0000	1.0000
L31	167	CCI 4.5" x 1" Plate	80.83 - 81.71	1.0000	1.0000
L31	169	CCI 4.5" x 3" Plate	81.71 - 83.20	1.0000	1.0000
L31	170	CCI 4.5" x 3" Plate	81.71 - 83.20	1.0000	1.0000
L31	171	CCI 4.5" x 3" Plate	81.71 - 83.20	1.0000	1.0000
L31	191	CU12PSM6P4XXX(1-3/4)	80.83 - 84.67	1.0000	1.0000
L31	193	HB158-1-08U8-S8J18(1-5/8)	80.83 - 84.67	1.0000	1.0000
L31	194	AL7-50(1-5/8)	80.83 - 84.67	1.0000	1.0000
L31	202	LDF7-50A(1-5/8)	80.83 - 84.67	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L31	203	Banjo	80.83 - 84.67	1.0000	1.0000
L31	220	Safety Line 3/8	80.83 - 84.67	1.0000	1.0000
L31	221	Step Pegs	80.83 - 84.67	1.0000	1.0000
L32	111	CCI 6.5" x 1.25" Plate	80.33 - 80.50	1.0000	1.0000
L32	112	CCI 6.5" x 1.25" Plate	80.33 - 80.50	1.0000	1.0000
L32	113	CCI 6.5" x 1.25" Plate	80.33 - 80.50	1.0000	1.0000
L32	115	CCI 6.5" x 4.25" Plate	80.50 - 80.83	1.0000	1.0000
L32	116	CCI 6.5" x 4.25" Plate	80.50 - 80.83	1.0000	1.0000
L32	117	CCI 6.5" x 4.25" Plate	80.50 - 80.83	1.0000	1.0000
L32	165	CCI 4.5" x 1" Plate	80.33 - 80.83	1.0000	1.0000
L32	166	CCI 4.5" x 1" Plate	80.33 - 80.83	1.0000	1.0000
L32	167	CCI 4.5" x 1" Plate	80.33 - 80.83	1.0000	1.0000
L32	191	CU12PSM6P4XXX(1-3/4)	80.33 - 80.83	1.0000	1.0000
L32	193	HB158-1-08U8-S8J18(1-5/8)	80.33 - 80.83	1.0000	1.0000
L32	194	AL7-50(1-5/8)	80.33 - 80.83	1.0000	1.0000
L32	202	LDF7-50A(1-5/8)	80.33 - 80.83	1.0000	1.0000
L32	203	Banjo	80.33 - 80.83	1.0000	1.0000
L32	220	Safety Line 3/8	80.33 - 80.83	1.0000	1.0000
L32	221	Step Pegs	80.33 - 80.83	1.0000	1.0000
L33	14	CCI 6" x 1" Plate	80.08 - 80.17	1.0000	1.0000
L33	15	CCI 6" x 1" Plate	80.08 - 80.17	1.0000	1.0000
L33	16	CCI 6" x 1" Plate	80.08 - 80.17	1.0000	1.0000
L33	107	CCI 6.5" x 1.25" Plate	80.08 - 80.33	1.0000	1.0000
L33	108	CCI 6.5" x 1.25" Plate	80.08 - 80.33	1.0000	1.0000
L33	109	CCI 6.5" x 1.25" Plate	80.08 - 80.33	1.0000	1.0000
L33	165	CCI 4.5" x 1" Plate	80.08 - 80.33	1.0000	1.0000
L33	166	CCI 4.5" x 1" Plate	80.08 - 80.33	1.0000	1.0000
L33	167	CCI 4.5" x 1" Plate	80.08 - 80.33	1.0000	1.0000
L33	191	CU12PSM6P4XXX(1-3/4)	80.08 - 80.33	1.0000	1.0000
L33	193	HB158-1-08U8-S8J18(1-5/8)	80.08 - 80.33	1.0000	1.0000
L33	194	AL7-50(1-5/8)	80.08 - 80.33	1.0000	1.0000
L33	202	LDF7-50A(1-5/8)	80.08 - 80.33	1.0000	1.0000
L33	203	Banjo	80.08 - 80.33	1.0000	1.0000
L33	220	Safety Line 3/8	80.08 - 80.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L33	221	Step Pegs	80.08 - 80.33	1.0000	1.0000
L34	14	CCI 6" x 1" Plate	75.08 - 80.08	1.0000	1.0000
L34	15	CCI 6" x 1" Plate	75.08 - 80.08	1.0000	1.0000
L34	16	CCI 6" x 1" Plate	75.08 - 80.08	1.0000	1.0000
L34	107	CCI 6.5" x 1.25" Plate	76.50 - 80.08	1.0000	1.0000
L34	108	CCI 6.5" x 1.25" Plate	76.50 - 80.08	1.0000	1.0000
L34	109	CCI 6.5" x 1.25" Plate	76.50 - 80.08	1.0000	1.0000
L34	165	CCI 4.5" x 1" Plate	78.33 - 80.08	1.0000	1.0000
L34	166	CCI 4.5" x 1" Plate	78.33 - 80.08	1.0000	1.0000
L34	167	CCI 4.5" x 1" Plate	78.33 - 80.08	1.0000	1.0000
L34	191	CU12PSM6P4XXX(1-3/4)	75.08 - 80.08	1.0000	1.0000
L34	193	HB158-1-08U8-S8J18(1-5/8)	75.08 - 80.08	1.0000	1.0000
L34	194	AL7-50(1-5/8)	75.08 - 80.08	1.0000	1.0000
L34	202	LDF7-50A(1-5/8)	75.08 - 80.08	1.0000	1.0000
L34	203	Banjo	75.08 - 80.08	1.0000	1.0000
L34	220	Safety Line 3/8	75.08 - 80.08	1.0000	1.0000
L34	221	Step Pegs	75.08 - 80.08	1.0000	1.0000
L35	14	CCI 6" x 1" Plate	70.08 - 75.08	1.0000	1.0000
L35	15	CCI 6" x 1" Plate	70.08 - 75.08	1.0000	1.0000
L35	16	CCI 6" x 1" Plate	70.08 - 75.08	1.0000	1.0000
L35	47	CCI 4.5" x 1" Plate	70.08 - 71.00	1.0000	1.0000
L35	48	CCI 4.5" x 1" Plate	70.08 - 71.00	1.0000	1.0000
L35	49	CCI 4.5" x 1" Plate	70.08 - 71.00	1.0000	1.0000
L35	50	CCI 4.5" x 1" Plate	70.08 - 71.00	1.0000	1.0000
L35	100	CCI 8.5" x 1.25" Plate	70.08 - 73.42	1.0000	1.0000
L35	101	CCI 8.5" x 1.25" Plate	70.08 - 73.42	1.0000	1.0000
L35	102	CCI 8.5" x 1.25" Plate	70.08 - 73.42	1.0000	1.0000
L35	103	CCI 8.5" x 1.25" Plate	70.08 - 73.42	1.0000	1.0000
L35	104	CCI 8.5" x 1.25" Plate	70.08 - 73.42	1.0000	1.0000
L35	105	CCI 8.5" x 1.25" Plate	70.08 - 73.42	1.0000	1.0000
L35	191	CU12PSM6P4XXX(1-3/4)	70.08 - 75.08	1.0000	1.0000
L35	193	HB158-1-08U8-S8J18(1-5/8)	70.08 - 75.08	1.0000	1.0000
L35	194	AL7-50(1-5/8)	70.08 - 75.08	1.0000	1.0000
L35	202	LDF7-50A(1-5/8)	70.08 - 75.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L35	203	Banjo	70.08 - 75.08	1.0000	1.0000
L35	220	Safety Line 3/8	70.08 - 75.08	1.0000	1.0000
L35	221	Step Pegs	70.08 - 75.08	1.0000	1.0000
L36	14	CCI 6" x 1" Plate	69.50 - 70.08	1.0000	1.0000
L36	15	CCI 6" x 1" Plate	69.50 - 70.08	1.0000	1.0000
L36	16	CCI 6" x 1" Plate	69.50 - 70.08	1.0000	1.0000
L36	47	CCI 4.5" x 1" Plate	69.50 - 70.08	1.0000	1.0000
L36	48	CCI 4.5" x 1" Plate	69.50 - 70.08	1.0000	1.0000
L36	49	CCI 4.5" x 1" Plate	69.50 - 70.08	1.0000	1.0000
L36	50	CCI 4.5" x 1" Plate	69.50 - 70.08	1.0000	1.0000
L36	100	CCI 8.5" x 1.25" Plate	69.50 - 70.08	1.0000	1.0000
L36	101	CCI 8.5" x 1.25" Plate	69.50 - 70.08	1.0000	1.0000
L36	102	CCI 8.5" x 1.25" Plate	69.50 - 70.08	1.0000	1.0000
L36	103	CCI 8.5" x 1.25" Plate	69.50 - 70.08	1.0000	1.0000
L36	104	CCI 8.5" x 1.25" Plate	69.50 - 70.08	1.0000	1.0000
L36	105	CCI 8.5" x 1.25" Plate	69.50 - 70.08	1.0000	1.0000
L36	191	CU12PSM6P4XXX(1-3/4)	69.50 - 70.08	1.0000	1.0000
L36	193	HB158-1-08U8-S8J18(1-5/8)	69.50 - 70.08	1.0000	1.0000
L36	194	AL7-50(1-5/8)	69.50 - 70.08	1.0000	1.0000
L36	202	LDF7-50A(1-5/8)	69.50 - 70.08	1.0000	1.0000
L36	203	Banjo	69.50 - 70.08	1.0000	1.0000
L36	220	Safety Line 3/8	69.50 - 70.08	1.0000	1.0000
L36	221	Step Pegs	69.50 - 70.08	1.0000	1.0000
L37	14	CCI 6" x 1" Plate	69.25 - 69.50	1.0000	1.0000
L37	15	CCI 6" x 1" Plate	69.25 - 69.50	1.0000	1.0000
L37	16	CCI 6" x 1" Plate	69.25 - 69.50	1.0000	1.0000
L37	47	CCI 4.5" x 1" Plate	69.25 - 69.50	1.0000	1.0000
L37	48	CCI 4.5" x 1" Plate	69.25 - 69.50	1.0000	1.0000
L37	49	CCI 4.5" x 1" Plate	69.25 - 69.50	1.0000	1.0000
L37	50	CCI 4.5" x 1" Plate	69.25 - 69.50	1.0000	1.0000
L37	100	CCI 8.5" x 1.25" Plate	69.25 - 69.50	1.0000	1.0000
L37	101	CCI 8.5" x 1.25" Plate	69.25 - 69.50	1.0000	1.0000
L37	102	CCI 8.5" x 1.25" Plate	69.25 - 69.50	1.0000	1.0000
L37	103	CCI 8.5" x 1.25" Plate	69.25 - 69.50	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L37	104	CCI 8.5" x 1.25" Plate	69.25 - 69.50	1.0000	1.0000
L37	105	CCI 8.5" x 1.25" Plate	69.25 - 69.50	1.0000	1.0000
L37	191	CU12PSM6P4XXX(1-3/4)	69.25 - 69.50	1.0000	1.0000
L37	193	HB158-1-08U8-S8J18(1-5/8)	69.25 - 69.50	1.0000	1.0000
L37	194	AL7-50(1-5/8)	69.25 - 69.50	1.0000	1.0000
L37	202	LDF7-50A(1-5/8)	69.25 - 69.50	1.0000	1.0000
L37	203	Banjo	69.25 - 69.50	1.0000	1.0000
L37	220	Safety Line 3/8	69.25 - 69.50	1.0000	1.0000
L37	221	Step Pegs	69.25 - 69.50	1.0000	1.0000
L38	14	CCI 6" x 1" Plate	64.25 - 69.25	1.0000	1.0000
L38	15	CCI 6" x 1" Plate	64.25 - 69.25	1.0000	1.0000
L38	16	CCI 6" x 1" Plate	64.25 - 69.25	1.0000	1.0000
L38	27	1" x 2" Plate	64.25 - 66.17	1.0000	1.0000
L38	28	1" x 2" Plate	64.25 - 66.17	1.0000	1.0000
L38	29	1" x 2" Plate	64.25 - 66.17	1.0000	1.0000
L38	30	1" x 2" Plate	64.25 - 66.17	1.0000	1.0000
L38	47	CCI 4.5" x 1" Plate	64.25 - 69.25	1.0000	1.0000
L38	48	CCI 4.5" x 1" Plate	64.25 - 69.25	1.0000	1.0000
L38	49	CCI 4.5" x 1" Plate	64.25 - 69.25	1.0000	1.0000
L38	50	CCI 4.5" x 1" Plate	64.25 - 69.25	1.0000	1.0000
L38	93	CCI 8.5" x 4.25" Plate	64.25 - 68.42	1.0000	1.0000
L38	94	CCI 8.5" x 4.25" Plate	64.25 - 68.42	1.0000	1.0000
L38	95	CCI 8.5" x 4.25" Plate	64.25 - 68.42	1.0000	1.0000
L38	96	CCI 8.5" x 4.25" Plate	64.25 - 68.42	1.0000	1.0000
L38	97	CCI 8.5" x 4.25" Plate	64.25 - 68.42	1.0000	1.0000
L38	98	CCI 8.5" x 4.25" Plate	64.25 - 68.42	1.0000	1.0000
L38	100	CCI 8.5" x 1.25" Plate	68.42 - 69.25	1.0000	1.0000
L38	101	CCI 8.5" x 1.25" Plate	68.42 - 69.25	1.0000	1.0000
L38	102	CCI 8.5" x 1.25" Plate	68.42 - 69.25	1.0000	1.0000
L38	103	CCI 8.5" x 1.25" Plate	68.42 - 69.25	1.0000	1.0000
L38	104	CCI 8.5" x 1.25" Plate	68.42 - 69.25	1.0000	1.0000
L38	105	CCI 8.5" x 1.25" Plate	68.42 - 69.25	1.0000	1.0000
L38	191	CU12PSM6P4XXX(1-3/4)	64.25 - 69.25	1.0000	1.0000
L38	193	HB158-1-08U8-S8J18(1-5/8)	64.25 - 69.25	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L38	194	AL7-50(1-5/8)	64.25 - 69.25	1.0000	1.0000
L38	202	LDF7-50A(1-5/8)	64.25 - 69.25	1.0000	1.0000
L38	203	Banjo	64.25 - 69.25	1.0000	1.0000
L38	220	Safety Line 3/8	64.25 - 69.25	1.0000	1.0000
L38	221	Step Pegs	64.25 - 69.25	1.0000	1.0000
L39	14	CCI 6" x 1" Plate	61.17 - 64.25	1.0000	1.0000
L39	15	CCI 6" x 1" Plate	61.17 - 64.25	1.0000	1.0000
L39	16	CCI 6" x 1" Plate	61.17 - 64.25	1.0000	1.0000
L39	27	1" x 2" Plate	61.08 - 64.25	1.0000	1.0000
L39	28	1" x 2" Plate	61.08 - 64.25	1.0000	1.0000
L39	29	1" x 2" Plate	61.08 - 64.25	1.0000	1.0000
L39	30	1" x 2" Plate	61.08 - 64.25	1.0000	1.0000
L39	47	CCI 4.5" x 1" Plate	61.00 - 64.25	1.0000	1.0000
L39	48	CCI 4.5" x 1" Plate	61.00 - 64.25	1.0000	1.0000
L39	49	CCI 4.5" x 1" Plate	61.00 - 64.25	1.0000	1.0000
L39	50	CCI 4.5" x 1" Plate	61.00 - 64.25	1.0000	1.0000
L39	86	CCI 8.5" x 1.25" Plate	60.58 - 61.08	1.0000	1.0000
L39	87	CCI 8.5" x 1.25" Plate	60.58 - 61.08	1.0000	1.0000
L39	88	CCI 8.5" x 1.25" Plate	60.58 - 61.08	1.0000	1.0000
L39	89	CCI 8.5" x 1.25" Plate	60.58 - 61.08	1.0000	1.0000
L39	90	CCI 8.5" x 1.25" Plate	60.58 - 61.08	1.0000	1.0000
L39	91	CCI 8.5" x 1.25" Plate	60.58 - 61.08	1.0000	1.0000
L39	93	CCI 8.5" x 4.25" Plate	61.08 - 64.25	1.0000	1.0000
L39	94	CCI 8.5" x 4.25" Plate	61.08 - 64.25	1.0000	1.0000
L39	95	CCI 8.5" x 4.25" Plate	61.08 - 64.25	1.0000	1.0000
L39	96	CCI 8.5" x 4.25" Plate	61.08 - 64.25	1.0000	1.0000
L39	97	CCI 8.5" x 4.25" Plate	61.08 - 64.25	1.0000	1.0000
L39	98	CCI 8.5" x 4.25" Plate	61.08 - 64.25	1.0000	1.0000
L39	155	CCI 4.5" x 1" Plate	60.58 - 61.46	1.0000	1.0000
L39	156	CCI 4.5" x 1" Plate	60.58 - 61.46	1.0000	1.0000
L39	157	CCI 4.5" x 1" Plate	60.58 - 61.46	1.0000	1.0000
L39	158	CCI 4.5" x 1" Plate	60.58 - 61.46	1.0000	1.0000
L39	160	CCI 4.5" x 3" Plate	61.55 - 62.96	1.0000	1.0000
L39	161	CCI 4.5" x 3" Plate	61.55 - 62.96	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L39	162	CCI 4.5" x 3" Plate	61.55 - 62.96	1.0000	1.0000
L39	163	CCI 4.5" x 3" Plate	61.55 - 62.96	1.0000	1.0000
L39	191	CU12PSM6P4XXX(1-3/4)	60.58 - 64.25	1.0000	1.0000
L39	193	HB158-1-08U8-S8J18(1-5/8)	60.58 - 64.25	1.0000	1.0000
L39	194	AL7-50(1-5/8)	60.58 - 64.25	1.0000	1.0000
L39	202	LDF7-50A(1-5/8)	60.58 - 64.25	1.0000	1.0000
L39	203	Banjo	60.58 - 64.25	1.0000	1.0000
L39	220	Safety Line 3/8	60.58 - 64.25	1.0000	1.0000
L39	221	Step Pegs	60.58 - 64.25	1.0000	1.0000
L40	86	CCI 8.5" x 1.25" Plate	60.33 - 60.58	1.0000	1.0000
L40	87	CCI 8.5" x 1.25" Plate	60.33 - 60.58	1.0000	1.0000
L40	88	CCI 8.5" x 1.25" Plate	60.33 - 60.58	1.0000	1.0000
L40	89	CCI 8.5" x 1.25" Plate	60.33 - 60.58	1.0000	1.0000
L40	90	CCI 8.5" x 1.25" Plate	60.33 - 60.58	1.0000	1.0000
L40	91	CCI 8.5" x 1.25" Plate	60.33 - 60.58	1.0000	1.0000
L40	155	CCI 4.5" x 1" Plate	60.33 - 60.58	1.0000	1.0000
L40	156	CCI 4.5" x 1" Plate	60.33 - 60.58	1.0000	1.0000
L40	157	CCI 4.5" x 1" Plate	60.33 - 60.58	1.0000	1.0000
L40	158	CCI 4.5" x 1" Plate	60.33 - 60.58	1.0000	1.0000
L40	191	CU12PSM6P4XXX(1-3/4)	60.33 - 60.58	1.0000	1.0000
L40	193	HB158-1-08U8-S8J18(1-5/8)	60.33 - 60.58	1.0000	1.0000
L40	194	AL7-50(1-5/8)	60.33 - 60.58	1.0000	1.0000
L40	202	LDF7-50A(1-5/8)	60.33 - 60.58	1.0000	1.0000
L40	203	Banjo	60.33 - 60.58	1.0000	1.0000
L40	220	Safety Line 3/8	60.33 - 60.58	1.0000	1.0000
L40	221	Step Pegs	60.33 - 60.58	1.0000	1.0000
L41	10	CCI 6.5" x 1.25" Plate	55.33 - 59.92	1.0000	1.0000
L41	11	CCI 6.5" x 1.25" Plate	55.33 - 59.92	1.0000	1.0000
L41	12	CCI 6.5" x 1.25" Plate	55.33 - 59.92	1.0000	1.0000
L41	79	CCI 8.5" x 1.25" Plate	55.33 - 60.08	1.0000	1.0000
L41	80	CCI 8.5" x 1.25" Plate	55.33 - 60.08	1.0000	1.0000
L41	81	CCI 8.5" x 1.25" Plate	55.33 - 60.08	1.0000	1.0000
L41	82	CCI 8.5" x 1.25" Plate	55.33 - 60.08	1.0000	1.0000
L41	83	CCI 8.5" x 1.25" Plate	55.33 - 60.08	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L41	84	CCI 8.5" x 1.25" Plate	55.33 - 60.08	1.0000	1.0000
L41	86	CCI 8.5" x 1.25" Plate	60.08 - 60.33	1.0000	1.0000
L41	87	CCI 8.5" x 1.25" Plate	60.08 - 60.33	1.0000	1.0000
L41	88	CCI 8.5" x 1.25" Plate	60.08 - 60.33	1.0000	1.0000
L41	89	CCI 8.5" x 1.25" Plate	60.08 - 60.33	1.0000	1.0000
L41	90	CCI 8.5" x 1.25" Plate	60.08 - 60.33	1.0000	1.0000
L41	91	CCI 8.5" x 1.25" Plate	60.08 - 60.33	1.0000	1.0000
L41	155	CCI 4.5" x 1" Plate	58.00 - 60.33	1.0000	1.0000
L41	156	CCI 4.5" x 1" Plate	58.00 - 60.33	1.0000	1.0000
L41	157	CCI 4.5" x 1" Plate	58.00 - 60.33	1.0000	1.0000
L41	158	CCI 4.5" x 1" Plate	58.00 - 60.33	1.0000	1.0000
L41	191	CU12PSM6P4XXX(1-3/4)	55.33 - 60.33	1.0000	1.0000
L41	193	HB158-1-08U8-S8J18(1-5/8)	55.33 - 60.33	1.0000	1.0000
L41	194	AL7-50(1-5/8)	55.33 - 60.33	1.0000	1.0000
L41	202	LDF7-50A(1-5/8)	55.33 - 60.33	1.0000	1.0000
L41	203	Banjo	55.33 - 60.33	1.0000	1.0000
L41	220	Safety Line 3/8	55.33 - 60.33	1.0000	1.0000
L41	221	Step Pegs	55.33 - 60.33	1.0000	1.0000
L42	10	CCI 6.5" x 1.25" Plate	52.17 - 55.33	1.0000	1.0000
L42	11	CCI 6.5" x 1.25" Plate	52.17 - 55.33	1.0000	1.0000
L42	12	CCI 6.5" x 1.25" Plate	52.17 - 55.33	1.0000	1.0000
L42	79	CCI 8.5" x 1.25" Plate	55.25 - 55.33	1.0000	1.0000
L42	80	CCI 8.5" x 1.25" Plate	55.25 - 55.33	1.0000	1.0000
L42	81	CCI 8.5" x 1.25" Plate	55.25 - 55.33	1.0000	1.0000
L42	82	CCI 8.5" x 1.25" Plate	55.25 - 55.33	1.0000	1.0000
L42	83	CCI 8.5" x 1.25" Plate	55.25 - 55.33	1.0000	1.0000
L42	84	CCI 8.5" x 1.25" Plate	55.25 - 55.33	1.0000	1.0000
L42	191	CU12PSM6P4XXX(1-3/4)	52.17 - 55.33	1.0000	1.0000
L42	193	HB158-1-08U8-S8J18(1-5/8)	52.17 - 55.33	1.0000	1.0000
L42	194	AL7-50(1-5/8)	52.17 - 55.33	1.0000	1.0000
L42	202	LDF7-50A(1-5/8)	52.17 - 55.33	1.0000	1.0000
L42	203	Banjo	52.17 - 55.33	1.0000	1.0000
L42	220	Safety Line 3/8	52.17 - 55.33	1.0000	1.0000
L42	221	Step Pegs	52.17 - 55.33	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L43	10	CCI 6.5" x 1.25" Plate	51.92 - 52.17	1.0000	1.0000
L43	11	CCI 6.5" x 1.25" Plate	51.92 - 52.17	1.0000	1.0000
L43	12	CCI 6.5" x 1.25" Plate	51.92 - 52.17	1.0000	1.0000
L43	191	CU12PSM6P4XXX(1-3/4)	51.92 - 52.17	1.0000	1.0000
L43	193	HB158-1-08U8-S8J18(1-5/8)	51.92 - 52.17	1.0000	1.0000
L43	194	AL7-50(1-5/8)	51.92 - 52.17	1.0000	1.0000
L43	202	LDF7-50A(1-5/8)	51.92 - 52.17	1.0000	1.0000
L43	203	Banjo	51.92 - 52.17	1.0000	1.0000
L43	220	Safety Line 3/8	51.92 - 52.17	1.0000	1.0000
L43	221	Step Pegs	51.92 - 52.17	1.0000	1.0000
L44	10	CCI 6.5" x 1.25" Plate	46.92 - 51.92	1.0000	1.0000
L44	11	CCI 6.5" x 1.25" Plate	46.92 - 51.92	1.0000	1.0000
L44	12	CCI 6.5" x 1.25" Plate	46.92 - 51.92	1.0000	1.0000
L44	22	1" x 2" Plate	46.92 - 50.42	1.0000	1.0000
L44	23	1" x 2" Plate	46.92 - 50.42	1.0000	1.0000
L44	24	1" x 2" Plate	46.92 - 50.42	1.0000	1.0000
L44	25	1" x 2" Plate	46.92 - 50.42	1.0000	1.0000
L44	42	CCI 6" x 1" Plate	46.92 - 50.17	1.0000	1.0000
L44	43	CCI 6" x 1" Plate	46.92 - 50.17	1.0000	1.0000
L44	44	CCI 6" x 1" Plate	46.92 - 50.17	1.0000	1.0000
L44	45	CCI 6" x 1" Plate	46.92 - 50.17	1.0000	1.0000
L44	72	CCI 6.5" x 1.25" Plate	46.92 - 47.83	1.0000	1.0000
L44	73	CCI 6.5" x 1.25" Plate	46.92 - 47.83	1.0000	1.0000
L44	74	CCI 6.5" x 1.25" Plate	46.92 - 47.83	1.0000	1.0000
L44	75	CCI 6.5" x 1.25" Plate	46.92 - 47.83	1.0000	1.0000
L44	76	CCI 6.5" x 1.25" Plate	46.92 - 47.83	1.0000	1.0000
L44	77	CCI 6.5" x 1.25" Plate	46.92 - 47.83	1.0000	1.0000
L44	191	CU12PSM6P4XXX(1-3/4)	46.92 - 51.92	1.0000	1.0000
L44	193	HB158-1-08U8-S8J18(1-5/8)	46.92 - 51.92	1.0000	1.0000
L44	194	AL7-50(1-5/8)	46.92 - 51.92	1.0000	1.0000
L44	202	LDF7-50A(1-5/8)	46.92 - 51.92	1.0000	1.0000
L44	203	Banjo	46.92 - 51.92	1.0000	1.0000
L44	220	Safety Line 3/8	46.92 - 51.92	1.0000	1.0000
L44	221	Step Pegs	46.92 - 51.92	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L45	10	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	11	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	12	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	22	1" x 2" Plate	41.92 - 46.92	1.0000	1.0000
L45	23	1" x 2" Plate	41.92 - 46.92	1.0000	1.0000
L45	24	1" x 2" Plate	41.92 - 46.92	1.0000	1.0000
L45	25	1" x 2" Plate	41.92 - 46.92	1.0000	1.0000
L45	42	CCI 6" x 1" Plate	41.92 - 46.92	1.0000	1.0000
L45	43	CCI 6" x 1" Plate	41.92 - 46.92	1.0000	1.0000
L45	44	CCI 6" x 1" Plate	41.92 - 46.92	1.0000	1.0000
L45	45	CCI 6" x 1" Plate	41.92 - 46.92	1.0000	1.0000
L45	72	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	73	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	74	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	75	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	76	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	77	CCI 6.5" x 1.25" Plate	41.92 - 46.92	1.0000	1.0000
L45	191	CU12PSM6P4XXX(1-3/4)	41.92 - 46.92	1.0000	1.0000
L45	193	HB158-1-08U8-S8J18(1-5/8)	41.92 - 46.92	1.0000	1.0000
L45	194	AL7-50(1-5/8)	41.92 - 46.92	1.0000	1.0000
L45	202	LDF7-50A(1-5/8)	41.92 - 46.92	1.0000	1.0000
L45	203	Banjo	41.92 - 46.92	1.0000	1.0000
L45	220	Safety Line 3/8	41.92 - 46.92	1.0000	1.0000
L45	221	Step Pegs	41.92 - 46.92	1.0000	1.0000
L46	10	CCI 6.5" x 1.25" Plate	40.83 - 41.92	1.0000	1.0000
L46	11	CCI 6.5" x 1.25" Plate	40.83 - 41.92	1.0000	1.0000
L46	12	CCI 6.5" x 1.25" Plate	40.83 - 41.92	1.0000	1.0000
L46	22	1" x 2" Plate	40.58 - 41.92	1.0000	1.0000
L46	23	1" x 2" Plate	40.58 - 41.92	1.0000	1.0000
L46	24	1" x 2" Plate	40.58 - 41.92	1.0000	1.0000
L46	25	1" x 2" Plate	40.58 - 41.92	1.0000	1.0000
L46	42	CCI 6" x 1" Plate	40.23 - 41.92	1.0000	1.0000
L46	43	CCI 6" x 1" Plate	40.23 - 41.92	1.0000	1.0000
L46	44	CCI 6" x 1" Plate	40.23 - 41.92	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L46	45	CCI 6" x 1" Plate	40.23 - 41.92	1.0000	1.0000
L46	72	CCI 6.5" x 1.25" Plate	40.23 - 41.92	1.0000	1.0000
L46	73	CCI 6.5" x 1.25" Plate	40.23 - 41.92	1.0000	1.0000
L46	74	CCI 6.5" x 1.25" Plate	40.23 - 41.92	1.0000	1.0000
L46	75	CCI 6.5" x 1.25" Plate	40.23 - 41.92	1.0000	1.0000
L46	76	CCI 6.5" x 1.25" Plate	40.23 - 41.92	1.0000	1.0000
L46	77	CCI 6.5" x 1.25" Plate	40.23 - 41.92	1.0000	1.0000
L46	191	CU12PSM6P4XXX(1-3/4)	40.23 - 41.92	1.0000	1.0000
L46	193	HB158-1-08U8-S8J18(1-5/8)	40.23 - 41.92	1.0000	1.0000
L46	194	AL7-50(1-5/8)	40.23 - 41.92	1.0000	1.0000
L46	202	LDF7-50A(1-5/8)	40.23 - 41.92	1.0000	1.0000
L46	203	Banjo	40.23 - 41.92	1.0000	1.0000
L46	220	Safety Line 3/8	40.23 - 41.92	1.0000	1.0000
L46	221	Step Pegs	40.23 - 41.92	1.0000	1.0000
L47	42	CCI 6" x 1" Plate	39.98 - 40.23	1.0000	1.0000
L47	43	CCI 6" x 1" Plate	39.98 - 40.23	1.0000	1.0000
L47	44	CCI 6" x 1" Plate	39.98 - 40.23	1.0000	1.0000
L47	45	CCI 6" x 1" Plate	39.98 - 40.23	1.0000	1.0000
L47	72	CCI 6.5" x 1.25" Plate	39.98 - 40.23	1.0000	1.0000
L47	73	CCI 6.5" x 1.25" Plate	39.98 - 40.23	1.0000	1.0000
L47	74	CCI 6.5" x 1.25" Plate	39.98 - 40.23	1.0000	1.0000
L47	75	CCI 6.5" x 1.25" Plate	39.98 - 40.23	1.0000	1.0000
L47	76	CCI 6.5" x 1.25" Plate	39.98 - 40.23	1.0000	1.0000
L47	77	CCI 6.5" x 1.25" Plate	39.98 - 40.23	1.0000	1.0000
L47	191	CU12PSM6P4XXX(1-3/4)	39.98 - 40.23	1.0000	1.0000
L47	193	HB158-1-08U8-S8J18(1-5/8)	39.98 - 40.23	1.0000	1.0000
L47	194	AL7-50(1-5/8)	39.98 - 40.23	1.0000	1.0000
L47	202	LDF7-50A(1-5/8)	39.98 - 40.23	1.0000	1.0000
L47	203	Banjo	39.98 - 40.23	1.0000	1.0000
L47	220	Safety Line 3/8	39.98 - 40.23	1.0000	1.0000
L47	221	Step Pegs	39.98 - 40.23	1.0000	1.0000
L48	6	CCI 6" x 1" Plate	34.98 - 39.75	1.0000	1.0000
L48	7	CCI 6" x 1" Plate	34.98 - 39.75	1.0000	1.0000
L48	8	CCI 6" x 1" Plate	34.98 - 39.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L48	42	CCI 6" x 1" Plate	37.17 - 39.98	1.0000	1.0000
L48	43	CCI 6" x 1" Plate	37.17 - 39.98	1.0000	1.0000
L48	44	CCI 6" x 1" Plate	37.17 - 39.98	1.0000	1.0000
L48	45	CCI 6" x 1" Plate	37.17 - 39.98	1.0000	1.0000
L48	72	CCI 6.5" x 1.25" Plate	34.98 - 39.98	1.0000	1.0000
L48	73	CCI 6.5" x 1.25" Plate	34.98 - 39.98	1.0000	1.0000
L48	74	CCI 6.5" x 1.25" Plate	34.98 - 39.98	1.0000	1.0000
L48	75	CCI 6.5" x 1.25" Plate	34.98 - 39.98	1.0000	1.0000
L48	76	CCI 6.5" x 1.25" Plate	34.98 - 39.98	1.0000	1.0000
L48	77	CCI 6.5" x 1.25" Plate	34.98 - 39.98	1.0000	1.0000
L48	191	CU12PSM6P4XXX(1-3/4)	34.98 - 39.98	1.0000	1.0000
L48	193	HB158-1-08U8-S8J18(1-5/8)	34.98 - 39.98	1.0000	1.0000
L48	194	AL7-50(1-5/8)	34.98 - 39.98	1.0000	1.0000
L48	202	LDF7-50A(1-5/8)	34.98 - 39.98	1.0000	1.0000
L48	203	Banjo	34.98 - 39.98	1.0000	1.0000
L48	220	Safety Line 3/8	34.98 - 39.98	1.0000	1.0000
L48	221	Step Pegs	34.98 - 39.98	1.0000	1.0000
L49	6	CCI 6" x 1" Plate	29.98 - 34.98	1.0000	1.0000
L49	7	CCI 6" x 1" Plate	29.98 - 34.98	1.0000	1.0000
L49	8	CCI 6" x 1" Plate	29.98 - 34.98	1.0000	1.0000
L49	37	CCI 6" x 1" Plate	29.98 - 30.00	1.0000	1.0000
L49	38	CCI 6" x 1" Plate	29.98 - 30.00	1.0000	1.0000
L49	39	CCI 6" x 1" Plate	29.98 - 30.00	1.0000	1.0000
L49	40	CCI 6" x 1" Plate	29.98 - 30.00	1.0000	1.0000
L49	72	CCI 6.5" x 1.25" Plate	32.83 - 34.98	1.0000	1.0000
L49	73	CCI 6.5" x 1.25" Plate	32.83 - 34.98	1.0000	1.0000
L49	74	CCI 6.5" x 1.25" Plate	32.83 - 34.98	1.0000	1.0000
L49	75	CCI 6.5" x 1.25" Plate	32.83 - 34.98	1.0000	1.0000
L49	76	CCI 6.5" x 1.25" Plate	32.83 - 34.98	1.0000	1.0000
L49	77	CCI 6.5" x 1.25" Plate	32.83 - 34.98	1.0000	1.0000
L49	191	CU12PSM6P4XXX(1-3/4)	29.98 - 34.98	1.0000	1.0000
L49	193	HB158-1-08U8-S8J18(1-5/8)	29.98 - 34.98	1.0000	1.0000
L49	194	AL7-50(1-5/8)	29.98 - 34.98	1.0000	1.0000
L49	202	LDF7-50A(1-5/8)	29.98 - 34.98	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L49	203	Banjo	29.98 - 34.98	1.0000	1.0000
L49	220	Safety Line 3/8	29.98 - 34.98	1.0000	1.0000
L49	221	Step Pegs	29.98 - 34.98	1.0000	1.0000
L50	6	CCI 6" x 1" Plate	28.00 - 29.98	1.0000	1.0000
L50	7	CCI 6" x 1" Plate	28.00 - 29.98	1.0000	1.0000
L50	8	CCI 6" x 1" Plate	28.00 - 29.98	1.0000	1.0000
L50	37	CCI 6" x 1" Plate	28.00 - 29.98	1.0000	1.0000
L50	38	CCI 6" x 1" Plate	28.00 - 29.98	1.0000	1.0000
L50	39	CCI 6" x 1" Plate	28.00 - 29.98	1.0000	1.0000
L50	40	CCI 6" x 1" Plate	28.00 - 29.98	1.0000	1.0000
L50	191	CU12PSM6P4XXX(1-3/4)	28.00 - 29.98	1.0000	1.0000
L50	193	HB158-1-08U8-S8J18(1-5/8)	28.00 - 29.98	1.0000	1.0000
L50	194	AL7-50(1-5/8)	28.00 - 29.98	1.0000	1.0000
L50	202	LDF7-50A(1-5/8)	28.00 - 29.98	1.0000	1.0000
L50	203	Banjo	28.00 - 29.98	1.0000	1.0000
L50	220	Safety Line 3/8	28.00 - 29.98	1.0000	1.0000
L50	221	Step Pegs	28.00 - 29.98	1.0000	1.0000
L51	6	CCI 6" x 1" Plate	27.75 - 28.00	1.0000	1.0000
L51	7	CCI 6" x 1" Plate	27.75 - 28.00	1.0000	1.0000
L51	8	CCI 6" x 1" Plate	27.75 - 28.00	1.0000	1.0000
L51	37	CCI 6" x 1" Plate	27.75 - 28.00	1.0000	1.0000
L51	38	CCI 6" x 1" Plate	27.75 - 28.00	1.0000	1.0000
L51	39	CCI 6" x 1" Plate	27.75 - 28.00	1.0000	1.0000
L51	40	CCI 6" x 1" Plate	27.75 - 28.00	1.0000	1.0000
L51	191	CU12PSM6P4XXX(1-3/4)	27.75 - 28.00	1.0000	1.0000
L51	193	HB158-1-08U8-S8J18(1-5/8)	27.75 - 28.00	1.0000	1.0000
L51	194	AL7-50(1-5/8)	27.75 - 28.00	1.0000	1.0000
L51	202	LDF7-50A(1-5/8)	27.75 - 28.00	1.0000	1.0000
L51	203	Banjo	27.75 - 28.00	1.0000	1.0000
L51	220	Safety Line 3/8	27.75 - 28.00	1.0000	1.0000
L51	221	Step Pegs	27.75 - 28.00	1.0000	1.0000
L52	6	CCI 6" x 1" Plate	22.75 - 27.75	1.0000	1.0000
L52	7	CCI 6" x 1" Plate	22.75 - 27.75	1.0000	1.0000
L52	8	CCI 6" x 1" Plate	22.75 - 27.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L52	37	CCI 6" x 1" Plate	22.75 - 27.75	1.0000	1.0000
L52	38	CCI 6" x 1" Plate	22.75 - 27.75	1.0000	1.0000
L52	39	CCI 6" x 1" Plate	22.75 - 27.75	1.0000	1.0000
L52	40	CCI 6" x 1" Plate	22.75 - 27.75	1.0000	1.0000
L52	65	CCI 6.5" x 1.25" Plate	22.75 - 27.50	1.0000	1.0000
L52	66	CCI 6.5" x 1.25" Plate	22.75 - 27.50	1.0000	1.0000
L52	67	CCI 6.5" x 1.25" Plate	22.75 - 27.50	1.0000	1.0000
L52	68	CCI 6.5" x 1.25" Plate	22.75 - 27.50	1.0000	1.0000
L52	69	CCI 6.5" x 1.25" Plate	22.75 - 27.50	1.0000	1.0000
L52	70	CCI 6.5" x 1.25" Plate	22.75 - 27.50	1.0000	1.0000
L52	191	CU12PSM6P4XXX(1-3/4)	22.75 - 27.75	1.0000	1.0000
L52	193	HB158-1-08U8-S8J18(1-5/8)	22.75 - 27.75	1.0000	1.0000
L52	194	AL7-50(1-5/8)	22.75 - 27.75	1.0000	1.0000
L52	202	LDF7-50A(1-5/8)	22.75 - 27.75	1.0000	1.0000
L52	203	Banjo	22.75 - 27.75	1.0000	1.0000
L52	220	Safety Line 3/8	22.75 - 27.75	1.0000	1.0000
L52	221	Step Pegs	22.75 - 27.75	1.0000	1.0000
L53	6	CCI 6" x 1" Plate	20.75 - 22.75	1.0000	1.0000
L53	7	CCI 6" x 1" Plate	20.75 - 22.75	1.0000	1.0000
L53	8	CCI 6" x 1" Plate	20.75 - 22.75	1.0000	1.0000
L53	37	CCI 6" x 1" Plate	20.08 - 22.75	1.0000	1.0000
L53	38	CCI 6" x 1" Plate	20.08 - 22.75	1.0000	1.0000
L53	39	CCI 6" x 1" Plate	20.08 - 22.75	1.0000	1.0000
L53	40	CCI 6" x 1" Plate	20.08 - 22.75	1.0000	1.0000
L53	65	CCI 6.5" x 1.25" Plate	20.08 - 22.75	1.0000	1.0000
L53	66	CCI 6.5" x 1.25" Plate	20.08 - 22.75	1.0000	1.0000
L53	67	CCI 6.5" x 1.25" Plate	20.08 - 22.75	1.0000	1.0000
L53	68	CCI 6.5" x 1.25" Plate	20.08 - 22.75	1.0000	1.0000
L53	69	CCI 6.5" x 1.25" Plate	20.08 - 22.75	1.0000	1.0000
L53	70	CCI 6.5" x 1.25" Plate	20.08 - 22.75	1.0000	1.0000
L53	191	CU12PSM6P4XXX(1-3/4)	20.08 - 22.75	1.0000	1.0000
L53	193	HB158-1-08U8-S8J18(1-5/8)	20.08 - 22.75	1.0000	1.0000
L53	194	AL7-50(1-5/8)	20.08 - 22.75	1.0000	1.0000
L53	202	LDF7-50A(1-5/8)	20.08 - 22.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L53	203	Banjo	20.08 - 22.75	1.0000	1.0000
L53	220	Safety Line 3/8	20.08 - 22.75	1.0000	1.0000
L53	221	Step Pegs	20.08 - 22.75	1.0000	1.0000
L54	37	CCI 6" x 1" Plate	19.83 - 20.08	1.0000	1.0000
L54	38	CCI 6" x 1" Plate	19.83 - 20.08	1.0000	1.0000
L54	39	CCI 6" x 1" Plate	19.83 - 20.08	1.0000	1.0000
L54	40	CCI 6" x 1" Plate	19.83 - 20.08	1.0000	1.0000
L54	65	CCI 6.5" x 1.25" Plate	19.83 - 20.08	1.0000	1.0000
L54	66	CCI 6.5" x 1.25" Plate	19.83 - 20.08	1.0000	1.0000
L54	67	CCI 6.5" x 1.25" Plate	19.83 - 20.08	1.0000	1.0000
L54	68	CCI 6.5" x 1.25" Plate	19.83 - 20.08	1.0000	1.0000
L54	69	CCI 6.5" x 1.25" Plate	19.83 - 20.08	1.0000	1.0000
L54	70	CCI 6.5" x 1.25" Plate	19.83 - 20.08	1.0000	1.0000
L54	191	CU12PSM6P4XXX(1-3/4)	19.83 - 20.08	1.0000	1.0000
L54	193	HB158-1-08U8-S8J18(1-5/8)	19.83 - 20.08	1.0000	1.0000
L54	194	AL7-50(1-5/8)	19.83 - 20.08	1.0000	1.0000
L54	202	LDF7-50A(1-5/8)	19.83 - 20.08	1.0000	1.0000
L54	203	Banjo	19.83 - 20.08	1.0000	1.0000
L54	220	Safety Line 3/8	19.83 - 20.08	1.0000	1.0000
L54	221	Step Pegs	19.83 - 20.08	1.0000	1.0000
L55	32	CCI 6" x 1" Plate	17.00 - 19.00	1.0000	1.0000
L55	33	CCI 6" x 1" Plate	17.00 - 19.00	1.0000	1.0000
L55	34	CCI 6" x 1" Plate	17.00 - 19.00	1.0000	1.0000
L55	35	CCI 6" x 1" Plate	17.00 - 19.00	1.0000	1.0000
L55	37	CCI 6" x 1" Plate	17.00 - 19.83	1.0000	1.0000
L55	38	CCI 6" x 1" Plate	17.00 - 19.83	1.0000	1.0000
L55	39	CCI 6" x 1" Plate	17.00 - 19.83	1.0000	1.0000
L55	40	CCI 6" x 1" Plate	17.00 - 19.83	1.0000	1.0000
L55	65	CCI 6.5" x 1.25" Plate	17.00 - 19.83	1.0000	1.0000
L55	66	CCI 6.5" x 1.25" Plate	17.00 - 19.83	1.0000	1.0000
L55	67	CCI 6.5" x 1.25" Plate	17.00 - 19.83	1.0000	1.0000
L55	68	CCI 6.5" x 1.25" Plate	17.00 - 19.83	1.0000	1.0000
L55	69	CCI 6.5" x 1.25" Plate	17.00 - 19.83	1.0000	1.0000
L55	70	CCI 6.5" x 1.25" Plate	17.00 - 19.83	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L55	191	CU12PSM6P4XXX(1-3/4)	17.00 - 19.83	1.0000	1.0000
L55	193	HB158-1-08U8-S8J18(1-5/8)	17.00 - 19.83	1.0000	1.0000
L55	194	AL7-50(1-5/8)	17.00 - 19.83	1.0000	1.0000
L55	202	LDF7-50A(1-5/8)	17.00 - 19.83	1.0000	1.0000
L55	203	Banjo	17.00 - 19.83	1.0000	1.0000
L55	220	Safety Line 3/8	17.00 - 19.83	1.0000	1.0000
L55	221	Step Pegs	17.00 - 19.83	1.0000	1.0000
L56	32	CCI 6" x 1" Plate	16.75 - 17.00	1.0000	1.0000
L56	33	CCI 6" x 1" Plate	16.75 - 17.00	1.0000	1.0000
L56	34	CCI 6" x 1" Plate	16.75 - 17.00	1.0000	1.0000
L56	35	CCI 6" x 1" Plate	16.75 - 17.00	1.0000	1.0000
L56	65	CCI 6.5" x 1.25" Plate	16.75 - 17.00	1.0000	1.0000
L56	66	CCI 6.5" x 1.25" Plate	16.75 - 17.00	1.0000	1.0000
L56	67	CCI 6.5" x 1.25" Plate	16.75 - 17.00	1.0000	1.0000
L56	68	CCI 6.5" x 1.25" Plate	16.75 - 17.00	1.0000	1.0000
L56	69	CCI 6.5" x 1.25" Plate	16.75 - 17.00	1.0000	1.0000
L56	70	CCI 6.5" x 1.25" Plate	16.75 - 17.00	1.0000	1.0000
L56	191	CU12PSM6P4XXX(1-3/4)	16.75 - 17.00	1.0000	1.0000
L56	193	HB158-1-08U8-S8J18(1-5/8)	16.75 - 17.00	1.0000	1.0000
L56	194	AL7-50(1-5/8)	16.75 - 17.00	1.0000	1.0000
L56	202	LDF7-50A(1-5/8)	16.75 - 17.00	1.0000	1.0000
L56	203	Banjo	16.75 - 17.00	1.0000	1.0000
L56	220	Safety Line 3/8	16.75 - 17.00	1.0000	1.0000
L56	221	Step Pegs	16.75 - 17.00	1.0000	1.0000
L57	4	CCI 4" x 0.75" Plate	11.65 - 13.17	1.0000	1.0000
L57	32	CCI 6" x 1" Plate	11.65 - 16.75	1.0000	1.0000
L57	33	CCI 6" x 1" Plate	11.65 - 16.75	1.0000	1.0000
L57	34	CCI 6" x 1" Plate	11.65 - 16.75	1.0000	1.0000
L57	35	CCI 6" x 1" Plate	11.65 - 16.75	1.0000	1.0000
L57	65	CCI 6.5" x 1.25" Plate	12.67 - 16.75	1.0000	1.0000
L57	66	CCI 6.5" x 1.25" Plate	12.67 - 16.75	1.0000	1.0000
L57	67	CCI 6.5" x 1.25" Plate	12.67 - 16.75	1.0000	1.0000
L57	68	CCI 6.5" x 1.25" Plate	12.67 - 16.75	1.0000	1.0000
L57	69	CCI 6.5" x 1.25" Plate	12.67 - 16.75	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L57	70	CCI 6.5" x 1.25" Plate	12.67 - 16.75	1.0000	1.0000
L57	191	CU12PSM6P4XXX(1-3/4)	11.65 - 16.75	1.0000	1.0000
L57	193	HB158-1-08U8-S8J18(1-5/8)	11.65 - 16.75	1.0000	1.0000
L57	194	AL7-50(1-5/8)	11.65 - 16.75	1.0000	1.0000
L57	202	LDF7-50A(1-5/8)	11.65 - 16.75	1.0000	1.0000
L57	203	Banjo	11.65 - 16.75	1.0000	1.0000
L57	220	Safety Line 3/8	11.65 - 16.75	1.0000	1.0000
L57	221	Step Pegs	11.65 - 16.75	1.0000	1.0000
L58	4	CCI 4" x 0.75" Plate	11.42 - 11.65	1.0000	1.0000
L58	32	CCI 6" x 1" Plate	11.42 - 11.65	1.0000	1.0000
L58	33	CCI 6" x 1" Plate	11.42 - 11.65	1.0000	1.0000
L58	34	CCI 6" x 1" Plate	11.42 - 11.65	1.0000	1.0000
L58	35	CCI 6" x 1" Plate	11.42 - 11.65	1.0000	1.0000
L58	191	CU12PSM6P4XXX(1-3/4)	11.42 - 11.65	1.0000	1.0000
L58	193	HB158-1-08U8-S8J18(1-5/8)	11.42 - 11.65	1.0000	1.0000
L58	194	AL7-50(1-5/8)	11.42 - 11.65	1.0000	1.0000
L58	202	LDF7-50A(1-5/8)	11.42 - 11.65	1.0000	1.0000
L58	203	Banjo	11.42 - 11.65	1.0000	1.0000
L58	220	Safety Line 3/8	11.42 - 11.65	1.0000	1.0000
L58	221	Step Pegs	11.42 - 11.65	1.0000	1.0000
L59	2	CCI 4" x 0.75" Plate	9.40 - 10.88	1.0000	1.0000
L59	3	CCI 4" x 0.75" Plate	9.40 - 10.88	1.0000	1.0000
L59	4	CCI 4" x 0.75" Plate	9.40 - 11.42	1.0000	1.0000
L59	32	CCI 6" x 1" Plate	9.40 - 11.42	1.0000	1.0000
L59	33	CCI 6" x 1" Plate	9.40 - 11.42	1.0000	1.0000
L59	34	CCI 6" x 1" Plate	9.40 - 11.42	1.0000	1.0000
L59	35	CCI 6" x 1" Plate	9.40 - 11.42	1.0000	1.0000
L59	191	CU12PSM6P4XXX(1-3/4)	9.40 - 11.42	1.0000	1.0000
L59	193	HB158-1-08U8-S8J18(1-5/8)	9.40 - 11.42	1.0000	1.0000
L59	194	AL7-50(1-5/8)	9.40 - 11.42	1.0000	1.0000
L59	202	LDF7-50A(1-5/8)	9.40 - 11.42	1.0000	1.0000
L59	203	Banjo	9.40 - 11.42	1.0000	1.0000
L59	220	Safety Line 3/8	9.40 - 11.42	1.0000	1.0000
L59	221	Step Pegs	9.40 - 11.42	1.0000	1.0000
L60	2	CCI 4" x 0.75" Plate	9.15 - 9.40	1.0000	1.0000
L60	3	CCI 4" x 0.75" Plate	9.15 - 9.40	1.0000	1.0000
L60	4	CCI 4" x 0.75" Plate	9.15 - 9.40	1.0000	1.0000
L60	32	CCI 6" x 1" Plate	9.15 - 9.40	1.0000	1.0000
L60	33	CCI 6" x 1" Plate	9.15 - 9.40	1.0000	1.0000
L60	34	CCI 6" x 1" Plate	9.15 - 9.40	1.0000	1.0000
L60	35	CCI 6" x 1" Plate	9.15 - 9.40	1.0000	1.0000
L60	191	CU12PSM6P4XXX(1-3/4)	9.15 - 9.40	1.0000	1.0000
L60	193	HB158-1-08U8-S8J18(1-5/8)	9.15 - 9.40	1.0000	1.0000
L60	194	AL7-50(1-5/8)	9.15 - 9.40	1.0000	1.0000
L60	202	LDF7-50A(1-5/8)	9.15 - 9.40	1.0000	1.0000
L60	203	Banjo	9.15 - 9.40	1.0000	1.0000
L60	220	Safety Line 3/8	9.15 - 9.40	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
L60	221	Step Pegs	9.15 - 9.40	1.0000	1.0000
L61	2	CCI 4" x 0.75" Plate	4.83 - 9.15	1.0000	1.0000
L61	3	CCI 4" x 0.75" Plate	4.83 - 9.15	1.0000	1.0000
L61	4	CCI 4" x 0.75" Plate	4.83 - 9.15	1.0000	1.0000
L61	32	CCI 6" x 1" Plate	4.83 - 9.15	1.0000	1.0000
L61	33	CCI 6" x 1" Plate	4.83 - 9.15	1.0000	1.0000
L61	34	CCI 6" x 1" Plate	4.83 - 9.15	1.0000	1.0000
L61	35	CCI 6" x 1" Plate	4.83 - 9.15	1.0000	1.0000
L61	191	CU12PSM6P4XXX(1-3/4)	4.83 - 9.15	1.0000	1.0000
L61	193	HB158-1-08U8-S8J18(1-5/8)	4.83 - 9.15	1.0000	1.0000
L61	194	AL7-50(1-5/8)	4.83 - 9.15	1.0000	1.0000
L61	202	LDF7-50A(1-5/8)	4.83 - 9.15	1.0000	1.0000
L61	203	Banjo	4.83 - 9.15	1.0000	1.0000
L61	220	Safety Line 3/8	4.83 - 9.15	1.0000	1.0000
L61	221	Step Pegs	4.83 - 9.15	1.0000	1.0000
L62	2	CCI 4" x 0.75" Plate	4.58 - 4.83	1.0000	1.0000
L62	3	CCI 4" x 0.75" Plate	4.58 - 4.83	1.0000	1.0000
L62	4	CCI 4" x 0.75" Plate	4.58 - 4.83	1.0000	1.0000
L62	32	CCI 6" x 1" Plate	4.58 - 4.83	1.0000	1.0000
L62	33	CCI 6" x 1" Plate	4.58 - 4.83	1.0000	1.0000
L62	34	CCI 6" x 1" Plate	4.58 - 4.83	1.0000	1.0000
L62	35	CCI 6" x 1" Plate	4.58 - 4.83	1.0000	1.0000
L62	191	CU12PSM6P4XXX(1-3/4)	4.58 - 4.83	1.0000	1.0000
L62	193	HB158-1-08U8-S8J18(1-5/8)	4.58 - 4.83	1.0000	1.0000
L62	194	AL7-50(1-5/8)	4.58 - 4.83	1.0000	1.0000
L62	202	LDF7-50A(1-5/8)	4.58 - 4.83	1.0000	1.0000
L62	203	Banjo	4.58 - 4.83	1.0000	1.0000
L62	220	Safety Line 3/8	4.58 - 4.83	1.0000	1.0000
L62	221	Step Pegs	4.58 - 4.83	1.0000	1.0000
L63	2	CCI 4" x 0.75" Plate	0.00 - 4.58	1.0000	1.0000
L63	3	CCI 4" x 0.75" Plate	0.00 - 4.58	1.0000	1.0000
L63	4	CCI 4" x 0.75" Plate	3.17 - 4.58	1.0000	1.0000
L63	32	CCI 6" x 1" Plate	0.00 - 4.58	1.0000	1.0000
L63	33	CCI 6" x 1" Plate	0.00 - 4.58	1.0000	1.0000
L63	34	CCI 6" x 1" Plate	0.00 - 4.58	1.0000	1.0000
L63	35	CCI 6" x 1" Plate	0.00 - 4.58	1.0000	1.0000
L63	191	CU12PSM6P4XXX(1-3/4)	0.00 - 4.58	1.0000	1.0000
L63	193	HB158-1-08U8-S8J18(1-5/8)	4.00 - 4.58	1.0000	1.0000
L63	194	AL7-50(1-5/8)	4.00 - 4.58	1.0000	1.0000
L63	202	LDF7-50A(1-5/8)	4.00 - 4.58	1.0000	1.0000
L63	203	Banjo	4.00 - 4.58	1.0000	1.0000
L63	220	Safety Line 3/8	4.00 - 4.58	1.0000	1.0000
L63	221	Step Pegs	4.00 - 4.58	1.0000	1.0000

Effective Width of Flat Linear Attachments / Feed Lines

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L14	151	CCI 4.5" x 1" Plate	126.42 - 127.17	Auto	1.0000
L14	152	CCI 4.5" x 1" Plate	126.42 - 127.17	Auto	1.0000
L14	153	CCI 4.5" x 1" Plate	126.42 - 127.17	Auto	1.0000
L15	143	CCI 4.5" x 1" Plate	121.42 - 121.67	Auto	1.0000
L15	144	CCI 4.5" x 1" Plate	121.42 - 121.67	Auto	1.0000
L15	145	CCI 4.5" x 1" Plate	121.42 - 121.67	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L15	147	CCI 4.5" x 4" Plate	121.67 - 124.42	Auto	1.0000
L15	148	CCI 4.5" x 4" Plate	121.67 - 124.42	Auto	1.0000
L15	149	CCI 4.5" x 4" Plate	121.67 - 124.42	Auto	1.0000
L15	151	CCI 4.5" x 1" Plate	124.42 - 126.42	Auto	1.0000
L15	152	CCI 4.5" x 1" Plate	124.42 - 126.42	Auto	1.0000
L15	153	CCI 4.5" x 1" Plate	124.42 - 126.42	Auto	1.0000
L16	143	CCI 4.5" x 1" Plate	121.17 - 121.42	Auto	1.0000
L16	144	CCI 4.5" x 1" Plate	121.17 - 121.42	Auto	1.0000
L16	145	CCI 4.5" x 1" Plate	121.17 - 121.42	Auto	1.0000
L17	139	CCI 4.5" x 1" Plate	117.92 - 120.67	Auto	1.0000
L17	140	CCI 4.5" x 1" Plate	117.92 - 120.67	Auto	1.0000
L17	141	CCI 4.5" x 1" Plate	117.92 - 120.67	Auto	1.0000
L17	143	CCI 4.5" x 1" Plate	120.67 - 121.17	Auto	1.0000
L17	144	CCI 4.5" x 1" Plate	120.67 - 121.17	Auto	1.0000
L17	145	CCI 4.5" x 1" Plate	120.67 - 121.17	Auto	1.0000
L18	56	CCI 4.5" x 1" Plate	111.17 - 111.54	Auto	1.0000
L18	57	CCI 4.5" x 1" Plate	111.17 - 111.54	Auto	1.0000
L18	58	CCI 4.5" x 1" Plate	111.17 - 111.54	Auto	1.0000
L18	203	Banjo	111.17 - 116.00	Manual	1.0000
L19	56	CCI 4.5" x 1" Plate	110.04 - 111.17	Auto	1.0000
L19	57	CCI 4.5" x 1" Plate	110.04 - 111.17	Auto	1.0000
L19	58	CCI 4.5" x 1" Plate	110.04 - 111.17	Auto	1.0000
L19	203	Banjo	110.04 - 111.17	Manual	1.0000
L20	56	CCI 4.5" x 1" Plate	109.79 - 110.04	Auto	1.0000
L20	57	CCI 4.5" x 1" Plate	109.79 - 110.04	Auto	1.0000
L20	58	CCI 4.5" x 1" Plate	109.79 - 110.04	Auto	1.0000
L20	203	Banjo	109.79 - 110.04	Manual	1.0000
L21	18	CCI 4" x 0.75" Plate	105.08 - 106.58	Auto	1.0000
L21	19	CCI 4" x 0.75" Plate	105.08 - 106.58	Auto	1.0000
L21	20	CCI 4" x 0.75" Plate	105.08 - 106.58	Auto	1.0000
L21	56	CCI 4.5" x 1" Plate	105.08 - 109.79	Auto	1.0000
L21	57	CCI 4.5" x 1" Plate	105.08 - 109.79	Auto	1.0000
L21	58	CCI 4.5" x 1" Plate	105.08 - 109.79	Auto	1.0000
L21	135	CCI 4.5" x 1" Plate	105.08 - 107.17	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L21	136	CCI 4.5" x 1" Plate	105.08 - 107.17	Auto	1.0000
L21	137	CCI 4.5" x 1" Plate	105.08 - 107.17	Auto	1.0000
L21	203	Banjo	105.08 - 109.79	Manual	1.0000
L22	18	CCI 4" x 0.75" Plate	104.83 - 105.08	Auto	1.0000
L22	19	CCI 4" x 0.75" Plate	104.83 - 105.08	Auto	1.0000
L22	20	CCI 4" x 0.75" Plate	104.83 - 105.08	Auto	1.0000
L22	56	CCI 4.5" x 1" Plate	104.83 - 105.08	Auto	1.0000
L22	57	CCI 4.5" x 1" Plate	104.83 - 105.08	Auto	1.0000
L22	58	CCI 4.5" x 1" Plate	104.83 - 105.08	Auto	1.0000
L22	135	CCI 4.5" x 1" Plate	104.83 - 105.08	Auto	1.0000
L22	136	CCI 4.5" x 1" Plate	104.83 - 105.08	Auto	1.0000
L22	137	CCI 4.5" x 1" Plate	104.83 - 105.08	Auto	1.0000
L22	203	Banjo	104.83 - 105.08	Manual	1.0000
L23	18	CCI 4" x 0.75" Plate	101.58 - 104.83	Auto	1.0000
L23	19	CCI 4" x 0.75" Plate	101.58 - 104.83	Auto	1.0000
L23	20	CCI 4" x 0.75" Plate	101.58 - 104.83	Auto	1.0000
L23	56	CCI 4.5" x 1" Plate	101.54 - 104.83	Auto	1.0000
L23	57	CCI 4.5" x 1" Plate	101.54 - 104.83	Auto	1.0000
L23	58	CCI 4.5" x 1" Plate	101.54 - 104.83	Auto	1.0000
L23	127	CCI 4.5" x 1" Plate	100.92 - 101.42	Auto	1.0000
L23	128	CCI 4.5" x 1" Plate	100.92 - 101.42	Auto	1.0000
L23	129	CCI 4.5" x 1" Plate	100.92 - 101.42	Auto	1.0000
L23	131	CCI 4.5" x 4" Plate	101.42 - 104.42	Auto	1.0000
L23	132	CCI 4.5" x 4" Plate	101.42 - 104.42	Auto	1.0000
L23	133	CCI 4.5" x 4" Plate	101.42 - 104.42	Auto	1.0000
L23	135	CCI 4.5" x 1" Plate	104.42 - 104.83	Auto	1.0000
L23	136	CCI 4.5" x 1" Plate	104.42 - 104.83	Auto	1.0000
L23	137	CCI 4.5" x 1" Plate	104.42 - 104.83	Auto	1.0000
L23	173	CCI 4.5" x 1" Plate	100.92 - 101.79	Auto	1.0000
L23	174	CCI 4.5" x 1" Plate	100.92 - 101.79	Auto	1.0000
L23	175	CCI 4.5" x 1" Plate	100.92 - 101.79	Auto	1.0000
L23	177	CCI 4.5" x 3" Plate	101.79 - 103.29	Auto	1.0000
L23	178	CCI 4.5" x 3" Plate	101.79 - 103.29	Auto	1.0000
L23	179	CCI 4.5" x 3" Plate	101.79 - 103.29	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L23	203	Banjo	100.92 - 104.83	Manual	1.0000
L24	127	CCI 4.5" x 1" Plate	100.67 - 100.92	Auto	1.0000
L24	128	CCI 4.5" x 1" Plate	100.67 - 100.92	Auto	1.0000
L24	129	CCI 4.5" x 1" Plate	100.67 - 100.92	Auto	1.0000
L24	173	CCI 4.5" x 1" Plate	100.67 - 100.92	Auto	1.0000
L24	174	CCI 4.5" x 1" Plate	100.67 - 100.92	Auto	1.0000
L24	175	CCI 4.5" x 1" Plate	100.67 - 100.92	Auto	1.0000
L24	203	Banjo	100.67 - 100.92	Manual	1.0000
L25	52	CCI 4.5" x 1" Plate	95.83 - 97.33	Auto	1.0000
L25	53	CCI 4.5" x 1" Plate	95.83 - 97.33	Auto	1.0000
L25	54	CCI 4.5" x 1" Plate	95.83 - 97.33	Auto	1.0000
L25	123	CCI 4.5" x 1" Plate	97.92 - 100.42	Auto	1.0000
L25	124	CCI 4.5" x 1" Plate	97.92 - 100.42	Auto	1.0000
L25	125	CCI 4.5" x 1" Plate	97.92 - 100.42	Auto	1.0000
L25	127	CCI 4.5" x 1" Plate	100.42 - 100.67	Auto	1.0000
L25	128	CCI 4.5" x 1" Plate	100.42 - 100.67	Auto	1.0000
L25	129	CCI 4.5" x 1" Plate	100.42 - 100.67	Auto	1.0000
L25	173	CCI 4.5" x 1" Plate	98.42 - 100.67	Auto	1.0000
L25	174	CCI 4.5" x 1" Plate	98.42 - 100.67	Auto	1.0000
L25	175	CCI 4.5" x 1" Plate	98.42 - 100.67	Auto	1.0000
L25	203	Banjo	95.83 - 100.67	Manual	1.0000
L26	52	CCI 4.5" x 1" Plate	95.58 - 95.83	Auto	1.0000
L26	53	CCI 4.5" x 1" Plate	95.58 - 95.83	Auto	1.0000
L26	54	CCI 4.5" x 1" Plate	95.58 - 95.83	Auto	1.0000
L26	203	Banjo	95.58 - 95.83	Manual	1.0000
L27	52	CCI 4.5" x 1" Plate	90.58 - 95.58	Auto	1.0000
L27	53	CCI 4.5" x 1" Plate	90.58 - 95.58	Auto	1.0000
L27	54	CCI 4.5" x 1" Plate	90.58 - 95.58	Auto	1.0000
L27	60	CCI 4.5" x 1" Plate	90.58 - 91.42	Auto	1.0000
L27	61	CCI 4.5" x 1" Plate	90.58 - 91.42	Auto	1.0000
L27	62	CCI 4.5" x 1" Plate	90.58 - 91.42	Auto	1.0000
L27	203	Banjo	90.58 - 95.58	Manual	1.0000
L28	52	CCI 4.5" x 1" Plate	89.92 - 90.58	Auto	1.0000
L28	53	CCI 4.5" x 1" Plate	89.92 - 90.58	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L28	54	CCI 4.5" x 1" Plate	89.92 - 90.58	Auto	1.0000
L28	60	CCI 4.5" x 1" Plate	89.92 - 90.58	Auto	1.0000
L28	61	CCI 4.5" x 1" Plate	89.92 - 90.58	Auto	1.0000
L28	62	CCI 4.5" x 1" Plate	89.92 - 90.58	Auto	1.0000
L28	203	Banjo	89.92 - 90.58	Manual	1.0000
L29	52	CCI 4.5" x 1" Plate	89.67 - 89.92	Auto	1.0000
L29	53	CCI 4.5" x 1" Plate	89.67 - 89.92	Auto	1.0000
L29	54	CCI 4.5" x 1" Plate	89.67 - 89.92	Auto	1.0000
L29	60	CCI 4.5" x 1" Plate	89.67 - 89.92	Auto	1.0000
L29	61	CCI 4.5" x 1" Plate	89.67 - 89.92	Auto	1.0000
L29	62	CCI 4.5" x 1" Plate	89.67 - 89.92	Auto	1.0000
L29	119	CCI 6.5" x 1.25" Plate	89.67 - 89.75	Auto	1.0000
L29	120	CCI 6.5" x 1.25" Plate	89.67 - 89.75	Auto	1.0000
L29	121	CCI 6.5" x 1.25" Plate	89.67 - 89.75	Auto	1.0000
L29	203	Banjo	89.67 - 89.92	Manual	1.0000
L30	52	CCI 4.5" x 1" Plate	84.67 - 89.67	Auto	1.0000
L30	53	CCI 4.5" x 1" Plate	84.67 - 89.67	Auto	1.0000
L30	54	CCI 4.5" x 1" Plate	84.67 - 89.67	Auto	1.0000
L30	60	CCI 4.5" x 1" Plate	84.67 - 89.67	Auto	1.0000
L30	61	CCI 4.5" x 1" Plate	84.67 - 89.67	Auto	1.0000
L30	62	CCI 4.5" x 1" Plate	84.67 - 89.67	Auto	1.0000
L30	115	CCI 6.5" x 4.25" Plate	84.67 - 85.83	Auto	1.0000
L30	116	CCI 6.5" x 4.25" Plate	84.67 - 85.83	Auto	1.0000
L30	117	CCI 6.5" x 4.25" Plate	84.67 - 85.83	Auto	1.0000
L30	119	CCI 6.5" x 1.25" Plate	85.83 - 89.67	Auto	1.0000
L30	120	CCI 6.5" x 1.25" Plate	85.83 - 89.67	Auto	1.0000
L30	121	CCI 6.5" x 1.25" Plate	85.83 - 89.67	Auto	1.0000
L30	203	Banjo	84.67 - 89.67	Manual	1.0000
L31	52	CCI 4.5" x 1" Plate	81.33 - 84.67	Auto	1.0000
L31	53	CCI 4.5" x 1" Plate	81.33 - 84.67	Auto	1.0000
L31	54	CCI 4.5" x 1" Plate	81.33 - 84.67	Auto	1.0000
L31	60	CCI 4.5" x 1" Plate	81.42 - 84.67	Auto	1.0000
L31	61	CCI 4.5" x 1" Plate	81.42 - 84.67	Auto	1.0000
L31	62	CCI 4.5" x 1" Plate	81.42 - 84.67	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L31	115	CCI 6.5" x 4.25" Plate	80.83 - 84.67	Auto	1.0000
L31	116	CCI 6.5" x 4.25" Plate	80.83 - 84.67	Auto	1.0000
L31	117	CCI 6.5" x 4.25" Plate	80.83 - 84.67	Auto	1.0000
L31	165	CCI 4.5" x 1" Plate	80.83 - 81.71	Auto	1.0000
L31	166	CCI 4.5" x 1" Plate	80.83 - 81.71	Auto	1.0000
L31	167	CCI 4.5" x 1" Plate	80.83 - 81.71	Auto	1.0000
L31	169	CCI 4.5" x 3" Plate	81.71 - 83.20	Auto	1.0000
L31	170	CCI 4.5" x 3" Plate	81.71 - 83.20	Auto	1.0000
L31	171	CCI 4.5" x 3" Plate	81.71 - 83.20	Auto	1.0000
L31	203	Banjo	80.83 - 84.67	Manual	1.0000
L32	111	CCI 6.5" x 1.25" Plate	80.33 - 80.50	Auto	1.0000
L32	112	CCI 6.5" x 1.25" Plate	80.33 - 80.50	Auto	1.0000
L32	113	CCI 6.5" x 1.25" Plate	80.33 - 80.50	Auto	1.0000
L32	115	CCI 6.5" x 4.25" Plate	80.50 - 80.83	Auto	1.0000
L32	116	CCI 6.5" x 4.25" Plate	80.50 - 80.83	Auto	1.0000
L32	117	CCI 6.5" x 4.25" Plate	80.50 - 80.83	Auto	1.0000
L32	165	CCI 4.5" x 1" Plate	80.33 - 80.83	Auto	1.0000
L32	166	CCI 4.5" x 1" Plate	80.33 - 80.83	Auto	1.0000
L32	167	CCI 4.5" x 1" Plate	80.33 - 80.83	Auto	1.0000
L32	203	Banjo	80.33 - 80.83	Manual	1.0000
L33	14	CCI 6" x 1" Plate	80.08 - 80.17	Auto	1.0000
L33	15	CCI 6" x 1" Plate	80.08 - 80.17	Auto	1.0000
L33	16	CCI 6" x 1" Plate	80.08 - 80.17	Auto	1.0000
L33	107	CCI 6.5" x 1.25" Plate	80.08 - 80.33	Auto	1.0000
L33	108	CCI 6.5" x 1.25" Plate	80.08 - 80.33	Auto	1.0000
L33	109	CCI 6.5" x 1.25" Plate	80.08 - 80.33	Auto	1.0000
L33	165	CCI 4.5" x 1" Plate	80.08 - 80.33	Auto	1.0000
L33	166	CCI 4.5" x 1" Plate	80.08 - 80.33	Auto	1.0000
L33	167	CCI 4.5" x 1" Plate	80.08 - 80.33	Auto	1.0000
L33	203	Banjo	80.08 - 80.33	Manual	1.0000
L34	14	CCI 6" x 1" Plate	75.08 - 80.08	Auto	1.0000
L34	15	CCI 6" x 1" Plate	75.08 - 80.08	Auto	1.0000
L34	16	CCI 6" x 1" Plate	75.08 - 80.08	Auto	1.0000
L34	107	CCI 6.5" x 1.25" Plate	76.50 - 80.08	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L34	108	CCI 6.5" x 1.25" Plate	76.50 - 80.08	Auto	1.0000
L34	109	CCI 6.5" x 1.25" Plate	76.50 - 80.08	Auto	1.0000
L34	165	CCI 4.5" x 1" Plate	78.33 - 80.08	Auto	1.0000
L34	166	CCI 4.5" x 1" Plate	78.33 - 80.08	Auto	1.0000
L34	167	CCI 4.5" x 1" Plate	78.33 - 80.08	Auto	1.0000
L34	203	Banjo	75.08 - 80.08	Manual	1.0000
L35	14	CCI 6" x 1" Plate	70.08 - 75.08	Auto	1.0000
L35	15	CCI 6" x 1" Plate	70.08 - 75.08	Auto	1.0000
L35	16	CCI 6" x 1" Plate	70.08 - 75.08	Auto	1.0000
L35	47	CCI 4.5" x 1" Plate	70.08 - 71.00	Auto	1.0000
L35	48	CCI 4.5" x 1" Plate	70.08 - 71.00	Auto	1.0000
L35	49	CCI 4.5" x 1" Plate	70.08 - 71.00	Auto	1.0000
L35	50	CCI 4.5" x 1" Plate	70.08 - 71.00	Auto	1.0000
L35	100	CCI 8.5" x 1.25" Plate	70.08 - 73.42	Auto	1.0000
L35	101	CCI 8.5" x 1.25" Plate	70.08 - 73.42	Auto	1.0000
L35	102	CCI 8.5" x 1.25" Plate	70.08 - 73.42	Auto	1.0000
L35	103	CCI 8.5" x 1.25" Plate	70.08 - 73.42	Auto	1.0000
L35	104	CCI 8.5" x 1.25" Plate	70.08 - 73.42	Auto	1.0000
L35	105	CCI 8.5" x 1.25" Plate	70.08 - 73.42	Auto	1.0000
L35	203	Banjo	70.08 - 75.08	Manual	1.0000
L36	14	CCI 6" x 1" Plate	69.50 - 70.08	Auto	1.0000
L36	15	CCI 6" x 1" Plate	69.50 - 70.08	Auto	1.0000
L36	16	CCI 6" x 1" Plate	69.50 - 70.08	Auto	1.0000
L36	47	CCI 4.5" x 1" Plate	69.50 - 70.08	Auto	1.0000
L36	48	CCI 4.5" x 1" Plate	69.50 - 70.08	Auto	1.0000
L36	49	CCI 4.5" x 1" Plate	69.50 - 70.08	Auto	1.0000
L36	50	CCI 4.5" x 1" Plate	69.50 - 70.08	Auto	1.0000
L36	100	CCI 8.5" x 1.25" Plate	69.50 - 70.08	Auto	1.0000
L36	101	CCI 8.5" x 1.25" Plate	69.50 - 70.08	Auto	1.0000
L36	102	CCI 8.5" x 1.25" Plate	69.50 - 70.08	Auto	1.0000
L36	103	CCI 8.5" x 1.25" Plate	69.50 - 70.08	Auto	1.0000
L36	104	CCI 8.5" x 1.25" Plate	69.50 - 70.08	Auto	1.0000
L36	105	CCI 8.5" x 1.25" Plate	69.50 - 70.08	Auto	1.0000
L36	203	Banjo	69.50 - 70.08	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L37	14	CCI 6" x 1" Plate	69.25 - 69.50	Auto	1.0000
L37	15	CCI 6" x 1" Plate	69.25 - 69.50	Auto	1.0000
L37	16	CCI 6" x 1" Plate	69.25 - 69.50	Auto	1.0000
L37	47	CCI 4.5" x 1" Plate	69.25 - 69.50	Auto	1.0000
L37	48	CCI 4.5" x 1" Plate	69.25 - 69.50	Auto	1.0000
L37	49	CCI 4.5" x 1" Plate	69.25 - 69.50	Auto	1.0000
L37	50	CCI 4.5" x 1" Plate	69.25 - 69.50	Auto	1.0000
L37	100	CCI 8.5" x 1.25" Plate	69.25 - 69.50	Auto	1.0000
L37	101	CCI 8.5" x 1.25" Plate	69.25 - 69.50	Auto	1.0000
L37	102	CCI 8.5" x 1.25" Plate	69.25 - 69.50	Auto	1.0000
L37	103	CCI 8.5" x 1.25" Plate	69.25 - 69.50	Auto	1.0000
L37	104	CCI 8.5" x 1.25" Plate	69.25 - 69.50	Auto	1.0000
L37	105	CCI 8.5" x 1.25" Plate	69.25 - 69.50	Auto	1.0000
L37	203	Banjo	69.25 - 69.50	Manual	1.0000
L38	14	CCI 6" x 1" Plate	64.25 - 69.25	Auto	1.0000
L38	15	CCI 6" x 1" Plate	64.25 - 69.25	Auto	1.0000
L38	16	CCI 6" x 1" Plate	64.25 - 69.25	Auto	1.0000
L38	27	1" x 2" Plate	64.25 - 66.17	Auto	1.0000
L38	28	1" x 2" Plate	64.25 - 66.17	Auto	1.0000
L38	29	1" x 2" Plate	64.25 - 66.17	Auto	1.0000
L38	30	1" x 2" Plate	64.25 - 66.17	Auto	1.0000
L38	47	CCI 4.5" x 1" Plate	64.25 - 69.25	Auto	1.0000
L38	48	CCI 4.5" x 1" Plate	64.25 - 69.25	Auto	1.0000
L38	49	CCI 4.5" x 1" Plate	64.25 - 69.25	Auto	1.0000
L38	50	CCI 4.5" x 1" Plate	64.25 - 69.25	Auto	1.0000
L38	93	CCI 8.5" x 4.25" Plate	64.25 - 68.42	Auto	1.0000
L38	94	CCI 8.5" x 4.25" Plate	64.25 - 68.42	Auto	1.0000
L38	95	CCI 8.5" x 4.25" Plate	64.25 - 68.42	Auto	1.0000
L38	96	CCI 8.5" x 4.25" Plate	64.25 - 68.42	Auto	1.0000
L38	97	CCI 8.5" x 4.25" Plate	64.25 - 68.42	Auto	1.0000
L38	98	CCI 8.5" x 4.25" Plate	64.25 - 68.42	Auto	1.0000
L38	100	CCI 8.5" x 1.25" Plate	68.42 - 69.25	Auto	1.0000
L38	101	CCI 8.5" x 1.25" Plate	68.42 - 69.25	Auto	1.0000
L38	102	CCI 8.5" x 1.25" Plate	68.42 - 69.25	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L38	103	CCI 8.5" x 1.25" Plate	68.42 - 69.25	Auto	1.0000
L38	104	CCI 8.5" x 1.25" Plate	68.42 - 69.25	Auto	1.0000
L38	105	CCI 8.5" x 1.25" Plate	68.42 - 69.25	Auto	1.0000
L38	203	Banjo	64.25 - 69.25	Manual	1.0000
L39	14	CCI 6" x 1" Plate	61.17 - 64.25	Auto	1.0000
L39	15	CCI 6" x 1" Plate	61.17 - 64.25	Auto	1.0000
L39	16	CCI 6" x 1" Plate	61.17 - 64.25	Auto	1.0000
L39	27	1" x 2" Plate	61.08 - 64.25	Auto	1.0000
L39	28	1" x 2" Plate	61.08 - 64.25	Auto	1.0000
L39	29	1" x 2" Plate	61.08 - 64.25	Auto	1.0000
L39	30	1" x 2" Plate	61.08 - 64.25	Auto	1.0000
L39	47	CCI 4.5" x 1" Plate	61.00 - 64.25	Auto	1.0000
L39	48	CCI 4.5" x 1" Plate	61.00 - 64.25	Auto	1.0000
L39	49	CCI 4.5" x 1" Plate	61.00 - 64.25	Auto	1.0000
L39	50	CCI 4.5" x 1" Plate	61.00 - 64.25	Auto	1.0000
L39	86	CCI 8.5" x 1.25" Plate	60.58 - 61.08	Auto	1.0000
L39	87	CCI 8.5" x 1.25" Plate	60.58 - 61.08	Auto	1.0000
L39	88	CCI 8.5" x 1.25" Plate	60.58 - 61.08	Auto	1.0000
L39	89	CCI 8.5" x 1.25" Plate	60.58 - 61.08	Auto	1.0000
L39	90	CCI 8.5" x 1.25" Plate	60.58 - 61.08	Auto	1.0000
L39	91	CCI 8.5" x 1.25" Plate	60.58 - 61.08	Auto	1.0000
L39	93	CCI 8.5" x 4.25" Plate	61.08 - 64.25	Auto	1.0000
L39	94	CCI 8.5" x 4.25" Plate	61.08 - 64.25	Auto	1.0000
L39	95	CCI 8.5" x 4.25" Plate	61.08 - 64.25	Auto	1.0000
L39	96	CCI 8.5" x 4.25" Plate	61.08 - 64.25	Auto	1.0000
L39	97	CCI 8.5" x 4.25" Plate	61.08 - 64.25	Auto	1.0000
L39	98	CCI 8.5" x 4.25" Plate	61.08 - 64.25	Auto	1.0000
L39	155	CCI 4.5" x 1" Plate	60.58 - 61.46	Auto	1.0000
L39	156	CCI 4.5" x 1" Plate	60.58 - 61.46	Auto	1.0000
L39	157	CCI 4.5" x 1" Plate	60.58 - 61.46	Auto	1.0000
L39	158	CCI 4.5" x 1" Plate	60.58 - 61.46	Auto	1.0000
L39	160	CCI 4.5" x 3" Plate	61.55 - 62.96	Auto	1.0000
L39	161	CCI 4.5" x 3" Plate	61.55 - 62.96	Auto	1.0000
L39	162	CCI 4.5" x 3" Plate	61.55 - 62.96	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L39	163	CCI 4.5" x 3" Plate	61.55 - 62.96	Auto	1.0000
L39	203	Banjo	60.58 - 64.25	Manual	1.0000
L40	86	CCI 8.5" x 1.25" Plate	60.33 - 60.58	Auto	1.0000
L40	87	CCI 8.5" x 1.25" Plate	60.33 - 60.58	Auto	1.0000
L40	88	CCI 8.5" x 1.25" Plate	60.33 - 60.58	Auto	1.0000
L40	89	CCI 8.5" x 1.25" Plate	60.33 - 60.58	Auto	1.0000
L40	90	CCI 8.5" x 1.25" Plate	60.33 - 60.58	Auto	1.0000
L40	91	CCI 8.5" x 1.25" Plate	60.33 - 60.58	Auto	1.0000
L40	155	CCI 4.5" x 1" Plate	60.33 - 60.58	Auto	1.0000
L40	156	CCI 4.5" x 1" Plate	60.33 - 60.58	Auto	1.0000
L40	157	CCI 4.5" x 1" Plate	60.33 - 60.58	Auto	1.0000
L40	158	CCI 4.5" x 1" Plate	60.33 - 60.58	Auto	1.0000
L40	203	Banjo	60.33 - 60.58	Manual	1.0000
L41	10	CCI 6.5" x 1.25" Plate	55.33 - 59.92	Auto	1.0000
L41	11	CCI 6.5" x 1.25" Plate	55.33 - 59.92	Auto	1.0000
L41	12	CCI 6.5" x 1.25" Plate	55.33 - 59.92	Auto	1.0000
L41	79	CCI 8.5" x 1.25" Plate	55.33 - 60.08	Auto	1.0000
L41	80	CCI 8.5" x 1.25" Plate	55.33 - 60.08	Auto	1.0000
L41	81	CCI 8.5" x 1.25" Plate	55.33 - 60.08	Auto	1.0000
L41	82	CCI 8.5" x 1.25" Plate	55.33 - 60.08	Auto	1.0000
L41	83	CCI 8.5" x 1.25" Plate	55.33 - 60.08	Auto	1.0000
L41	84	CCI 8.5" x 1.25" Plate	55.33 - 60.08	Auto	1.0000
L41	86	CCI 8.5" x 1.25" Plate	60.08 - 60.33	Auto	1.0000
L41	87	CCI 8.5" x 1.25" Plate	60.08 - 60.33	Auto	1.0000
L41	88	CCI 8.5" x 1.25" Plate	60.08 - 60.33	Auto	1.0000
L41	89	CCI 8.5" x 1.25" Plate	60.08 - 60.33	Auto	1.0000
L41	90	CCI 8.5" x 1.25" Plate	60.08 - 60.33	Auto	1.0000
L41	91	CCI 8.5" x 1.25" Plate	60.08 - 60.33	Auto	1.0000
L41	155	CCI 4.5" x 1" Plate	58.00 - 60.33	Auto	1.0000
L41	156	CCI 4.5" x 1" Plate	58.00 - 60.33	Auto	1.0000
L41	157	CCI 4.5" x 1" Plate	58.00 - 60.33	Auto	1.0000
L41	158	CCI 4.5" x 1" Plate	58.00 - 60.33	Auto	1.0000
L41	203	Banjo	55.33 - 60.33	Manual	1.0000
L42	10	CCI 6.5" x 1.25" Plate	52.17 - 55.33	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L42	11	CCI 6.5" x 1.25" Plate	52.17 - 55.33	Auto	1.0000
L42	12	CCI 6.5" x 1.25" Plate	52.17 - 55.33	Auto	1.0000
L42	79	CCI 8.5" x 1.25" Plate	55.25 - 55.33	Auto	1.0000
L42	80	CCI 8.5" x 1.25" Plate	55.25 - 55.33	Auto	1.0000
L42	81	CCI 8.5" x 1.25" Plate	55.25 - 55.33	Auto	1.0000
L42	82	CCI 8.5" x 1.25" Plate	55.25 - 55.33	Auto	1.0000
L42	83	CCI 8.5" x 1.25" Plate	55.25 - 55.33	Auto	1.0000
L42	84	CCI 8.5" x 1.25" Plate	55.25 - 55.33	Auto	1.0000
L42	203	Banjo	52.17 - 55.33	Manual	1.0000
L43	10	CCI 6.5" x 1.25" Plate	51.92 - 52.17	Auto	1.0000
L43	11	CCI 6.5" x 1.25" Plate	51.92 - 52.17	Auto	1.0000
L43	12	CCI 6.5" x 1.25" Plate	51.92 - 52.17	Auto	1.0000
L43	203	Banjo	51.92 - 52.17	Manual	1.0000
L44	10	CCI 6.5" x 1.25" Plate	46.92 - 51.92	Auto	1.0000
L44	11	CCI 6.5" x 1.25" Plate	46.92 - 51.92	Auto	1.0000
L44	12	CCI 6.5" x 1.25" Plate	46.92 - 51.92	Auto	1.0000
L44	22	1" x 2" Plate	46.92 - 50.42	Auto	1.0000
L44	23	1" x 2" Plate	46.92 - 50.42	Auto	1.0000
L44	24	1" x 2" Plate	46.92 - 50.42	Auto	1.0000
L44	25	1" x 2" Plate	46.92 - 50.42	Auto	1.0000
L44	42	CCI 6" x 1" Plate	46.92 - 50.17	Auto	1.0000
L44	43	CCI 6" x 1" Plate	46.92 - 50.17	Auto	1.0000
L44	44	CCI 6" x 1" Plate	46.92 - 50.17	Auto	1.0000
L44	45	CCI 6" x 1" Plate	46.92 - 50.17	Auto	1.0000
L44	72	CCI 6.5" x 1.25" Plate	46.92 - 47.83	Auto	1.0000
L44	73	CCI 6.5" x 1.25" Plate	46.92 - 47.83	Auto	1.0000
L44	74	CCI 6.5" x 1.25" Plate	46.92 - 47.83	Auto	1.0000
L44	75	CCI 6.5" x 1.25" Plate	46.92 - 47.83	Auto	1.0000
L44	76	CCI 6.5" x 1.25" Plate	46.92 - 47.83	Auto	1.0000
L44	77	CCI 6.5" x 1.25" Plate	46.92 - 47.83	Auto	1.0000
L44	203	Banjo	46.92 - 51.92	Manual	1.0000
L45	10	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000
L45	11	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000
L45	12	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L45	22	1" x 2" Plate	41.92 - 46.92	Auto	1.0000
L45	23	1" x 2" Plate	41.92 - 46.92	Auto	1.0000
L45	24	1" x 2" Plate	41.92 - 46.92	Auto	1.0000
L45	25	1" x 2" Plate	41.92 - 46.92	Auto	1.0000
L45	42	CCI 6" x 1" Plate	41.92 - 46.92	Auto	1.0000
L45	43	CCI 6" x 1" Plate	41.92 - 46.92	Auto	1.0000
L45	44	CCI 6" x 1" Plate	41.92 - 46.92	Auto	1.0000
L45	45	CCI 6" x 1" Plate	41.92 - 46.92	Auto	1.0000
L45	72	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000
L45	73	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000
L45	74	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000
L45	75	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000
L45	76	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000
L45	77	CCI 6.5" x 1.25" Plate	41.92 - 46.92	Auto	1.0000
L45	203	Banjo	41.92 - 46.92	Manual	1.0000
L46	10	CCI 6.5" x 1.25" Plate	40.83 - 41.92	Auto	1.0000
L46	11	CCI 6.5" x 1.25" Plate	40.83 - 41.92	Auto	1.0000
L46	12	CCI 6.5" x 1.25" Plate	40.83 - 41.92	Auto	1.0000
L46	22	1" x 2" Plate	40.58 - 41.92	Auto	1.0000
L46	23	1" x 2" Plate	40.58 - 41.92	Auto	1.0000
L46	24	1" x 2" Plate	40.58 - 41.92	Auto	1.0000
L46	25	1" x 2" Plate	40.58 - 41.92	Auto	1.0000
L46	42	CCI 6" x 1" Plate	40.23 - 41.92	Auto	1.0000
L46	43	CCI 6" x 1" Plate	40.23 - 41.92	Auto	1.0000
L46	44	CCI 6" x 1" Plate	40.23 - 41.92	Auto	1.0000
L46	45	CCI 6" x 1" Plate	40.23 - 41.92	Auto	1.0000
L46	72	CCI 6.5" x 1.25" Plate	40.23 - 41.92	Auto	1.0000
L46	73	CCI 6.5" x 1.25" Plate	40.23 - 41.92	Auto	1.0000
L46	74	CCI 6.5" x 1.25" Plate	40.23 - 41.92	Auto	1.0000
L46	75	CCI 6.5" x 1.25" Plate	40.23 - 41.92	Auto	1.0000
L46	76	CCI 6.5" x 1.25" Plate	40.23 - 41.92	Auto	1.0000
L46	77	CCI 6.5" x 1.25" Plate	40.23 - 41.92	Auto	1.0000
L46	203	Banjo	40.23 - 41.92	Manual	1.0000
L47	42	CCI 6" x 1" Plate	39.98 - 40.23	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L47	43	CCI 6" x 1" Plate	39.98 - 40.23	Auto	1.0000
L47	44	CCI 6" x 1" Plate	39.98 - 40.23	Auto	1.0000
L47	45	CCI 6" x 1" Plate	39.98 - 40.23	Auto	1.0000
L47	72	CCI 6.5" x 1.25" Plate	39.98 - 40.23	Auto	1.0000
L47	73	CCI 6.5" x 1.25" Plate	39.98 - 40.23	Auto	1.0000
L47	74	CCI 6.5" x 1.25" Plate	39.98 - 40.23	Auto	1.0000
L47	75	CCI 6.5" x 1.25" Plate	39.98 - 40.23	Auto	1.0000
L47	76	CCI 6.5" x 1.25" Plate	39.98 - 40.23	Auto	1.0000
L47	77	CCI 6.5" x 1.25" Plate	39.98 - 40.23	Auto	1.0000
L47	203	Banjo	39.98 - 40.23	Manual	1.0000
L48	6	CCI 6" x 1" Plate	34.98 - 39.75	Auto	1.0000
L48	7	CCI 6" x 1" Plate	34.98 - 39.75	Auto	1.0000
L48	8	CCI 6" x 1" Plate	34.98 - 39.75	Auto	1.0000
L48	42	CCI 6" x 1" Plate	37.17 - 39.98	Auto	1.0000
L48	43	CCI 6" x 1" Plate	37.17 - 39.98	Auto	1.0000
L48	44	CCI 6" x 1" Plate	37.17 - 39.98	Auto	1.0000
L48	45	CCI 6" x 1" Plate	37.17 - 39.98	Auto	1.0000
L48	72	CCI 6.5" x 1.25" Plate	34.98 - 39.98	Auto	1.0000
L48	73	CCI 6.5" x 1.25" Plate	34.98 - 39.98	Auto	1.0000
L48	74	CCI 6.5" x 1.25" Plate	34.98 - 39.98	Auto	1.0000
L48	75	CCI 6.5" x 1.25" Plate	34.98 - 39.98	Auto	1.0000
L48	76	CCI 6.5" x 1.25" Plate	34.98 - 39.98	Auto	1.0000
L48	77	CCI 6.5" x 1.25" Plate	34.98 - 39.98	Auto	1.0000
L48	203	Banjo	34.98 - 39.98	Manual	1.0000
L49	6	CCI 6" x 1" Plate	29.98 - 34.98	Auto	1.0000
L49	7	CCI 6" x 1" Plate	29.98 - 34.98	Auto	1.0000
L49	8	CCI 6" x 1" Plate	29.98 - 34.98	Auto	1.0000
L49	37	CCI 6" x 1" Plate	29.98 - 30.00	Auto	1.0000
L49	38	CCI 6" x 1" Plate	29.98 - 30.00	Auto	1.0000
L49	39	CCI 6" x 1" Plate	29.98 - 30.00	Auto	1.0000
L49	40	CCI 6" x 1" Plate	29.98 - 30.00	Auto	1.0000
L49	72	CCI 6.5" x 1.25" Plate	32.83 - 34.98	Auto	1.0000
L49	73	CCI 6.5" x 1.25" Plate	32.83 - 34.98	Auto	1.0000
L49	74	CCI 6.5" x 1.25" Plate	32.83 - 34.98	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L49	75	CCI 6.5" x 1.25" Plate	32.83 - 34.98	Auto	1.0000
L49	76	CCI 6.5" x 1.25" Plate	32.83 - 34.98	Auto	1.0000
L49	77	CCI 6.5" x 1.25" Plate	32.83 - 34.98	Auto	1.0000
L49	203	Banjo	29.98 - 34.98	Manual	1.0000
L50	6	CCI 6" x 1" Plate	28.00 - 29.98	Auto	1.0000
L50	7	CCI 6" x 1" Plate	28.00 - 29.98	Auto	1.0000
L50	8	CCI 6" x 1" Plate	28.00 - 29.98	Auto	1.0000
L50	37	CCI 6" x 1" Plate	28.00 - 29.98	Auto	1.0000
L50	38	CCI 6" x 1" Plate	28.00 - 29.98	Auto	1.0000
L50	39	CCI 6" x 1" Plate	28.00 - 29.98	Auto	1.0000
L50	40	CCI 6" x 1" Plate	28.00 - 29.98	Auto	1.0000
L50	203	Banjo	28.00 - 29.98	Manual	1.0000
L51	6	CCI 6" x 1" Plate	27.75 - 28.00	Auto	1.0000
L51	7	CCI 6" x 1" Plate	27.75 - 28.00	Auto	1.0000
L51	8	CCI 6" x 1" Plate	27.75 - 28.00	Auto	1.0000
L51	37	CCI 6" x 1" Plate	27.75 - 28.00	Auto	1.0000
L51	38	CCI 6" x 1" Plate	27.75 - 28.00	Auto	1.0000
L51	39	CCI 6" x 1" Plate	27.75 - 28.00	Auto	1.0000
L51	40	CCI 6" x 1" Plate	27.75 - 28.00	Auto	1.0000
L51	203	Banjo	27.75 - 28.00	Manual	1.0000
L52	6	CCI 6" x 1" Plate	22.75 - 27.75	Auto	1.0000
L52	7	CCI 6" x 1" Plate	22.75 - 27.75	Auto	1.0000
L52	8	CCI 6" x 1" Plate	22.75 - 27.75	Auto	1.0000
L52	37	CCI 6" x 1" Plate	22.75 - 27.75	Auto	1.0000
L52	38	CCI 6" x 1" Plate	22.75 - 27.75	Auto	1.0000
L52	39	CCI 6" x 1" Plate	22.75 - 27.75	Auto	1.0000
L52	40	CCI 6" x 1" Plate	22.75 - 27.75	Auto	1.0000
L52	65	CCI 6.5" x 1.25" Plate	22.75 - 27.50	Auto	1.0000
L52	66	CCI 6.5" x 1.25" Plate	22.75 - 27.50	Auto	1.0000
L52	67	CCI 6.5" x 1.25" Plate	22.75 - 27.50	Auto	1.0000
L52	68	CCI 6.5" x 1.25" Plate	22.75 - 27.50	Auto	1.0000
L52	69	CCI 6.5" x 1.25" Plate	22.75 - 27.50	Auto	1.0000
L52	70	CCI 6.5" x 1.25" Plate	22.75 - 27.50	Auto	1.0000
L52	203	Banjo	22.75 - 27.75	Manual	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L53	6	CCI 6" x 1" Plate	20.75 - 22.75	Auto	1.0000
L53	7	CCI 6" x 1" Plate	20.75 - 22.75	Auto	1.0000
L53	8	CCI 6" x 1" Plate	20.75 - 22.75	Auto	1.0000
L53	37	CCI 6" x 1" Plate	20.08 - 22.75	Auto	1.0000
L53	38	CCI 6" x 1" Plate	20.08 - 22.75	Auto	1.0000
L53	39	CCI 6" x 1" Plate	20.08 - 22.75	Auto	1.0000
L53	40	CCI 6" x 1" Plate	20.08 - 22.75	Auto	1.0000
L53	65	CCI 6.5" x 1.25" Plate	20.08 - 22.75	Auto	1.0000
L53	66	CCI 6.5" x 1.25" Plate	20.08 - 22.75	Auto	1.0000
L53	67	CCI 6.5" x 1.25" Plate	20.08 - 22.75	Auto	1.0000
L53	68	CCI 6.5" x 1.25" Plate	20.08 - 22.75	Auto	1.0000
L53	69	CCI 6.5" x 1.25" Plate	20.08 - 22.75	Auto	1.0000
L53	70	CCI 6.5" x 1.25" Plate	20.08 - 22.75	Auto	1.0000
L53	203	Banjo	20.08 - 22.75	Manual	1.0000
L54	37	CCI 6" x 1" Plate	19.83 - 20.08	Auto	1.0000
L54	38	CCI 6" x 1" Plate	19.83 - 20.08	Auto	1.0000
L54	39	CCI 6" x 1" Plate	19.83 - 20.08	Auto	1.0000
L54	40	CCI 6" x 1" Plate	19.83 - 20.08	Auto	1.0000
L54	65	CCI 6.5" x 1.25" Plate	19.83 - 20.08	Auto	1.0000
L54	66	CCI 6.5" x 1.25" Plate	19.83 - 20.08	Auto	1.0000
L54	67	CCI 6.5" x 1.25" Plate	19.83 - 20.08	Auto	1.0000
L54	68	CCI 6.5" x 1.25" Plate	19.83 - 20.08	Auto	1.0000
L54	69	CCI 6.5" x 1.25" Plate	19.83 - 20.08	Auto	1.0000
L54	70	CCI 6.5" x 1.25" Plate	19.83 - 20.08	Auto	1.0000
L54	203	Banjo	19.83 - 20.08	Manual	1.0000
L55	32	CCI 6" x 1" Plate	17.00 - 19.00	Auto	1.0000
L55	33	CCI 6" x 1" Plate	17.00 - 19.00	Auto	1.0000
L55	34	CCI 6" x 1" Plate	17.00 - 19.00	Auto	1.0000
L55	35	CCI 6" x 1" Plate	17.00 - 19.00	Auto	1.0000
L55	37	CCI 6" x 1" Plate	17.00 - 19.83	Auto	1.0000
L55	38	CCI 6" x 1" Plate	17.00 - 19.83	Auto	1.0000
L55	39	CCI 6" x 1" Plate	17.00 - 19.83	Auto	1.0000
L55	40	CCI 6" x 1" Plate	17.00 - 19.83	Auto	1.0000
L55	65	CCI 6.5" x 1.25" Plate	17.00 - 19.83	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L55	66	CCI 6.5" x 1.25" Plate	17.00 - 19.83	Auto	1.0000
L55	67	CCI 6.5" x 1.25" Plate	17.00 - 19.83	Auto	1.0000
L55	68	CCI 6.5" x 1.25" Plate	17.00 - 19.83	Auto	1.0000
L55	69	CCI 6.5" x 1.25" Plate	17.00 - 19.83	Auto	1.0000
L55	70	CCI 6.5" x 1.25" Plate	17.00 - 19.83	Auto	1.0000
L55	203	Banjo	17.00 - 19.83	Manual	1.0000
L56	32	CCI 6" x 1" Plate	16.75 - 17.00	Auto	1.0000
L56	33	CCI 6" x 1" Plate	16.75 - 17.00	Auto	1.0000
L56	34	CCI 6" x 1" Plate	16.75 - 17.00	Auto	1.0000
L56	35	CCI 6" x 1" Plate	16.75 - 17.00	Auto	1.0000
L56	65	CCI 6.5" x 1.25" Plate	16.75 - 17.00	Auto	1.0000
L56	66	CCI 6.5" x 1.25" Plate	16.75 - 17.00	Auto	1.0000
L56	67	CCI 6.5" x 1.25" Plate	16.75 - 17.00	Auto	1.0000
L56	68	CCI 6.5" x 1.25" Plate	16.75 - 17.00	Auto	1.0000
L56	69	CCI 6.5" x 1.25" Plate	16.75 - 17.00	Auto	1.0000
L56	70	CCI 6.5" x 1.25" Plate	16.75 - 17.00	Auto	1.0000
L56	203	Banjo	16.75 - 17.00	Manual	1.0000
L57	4	CCI 4" x 0.75" Plate	11.65 - 13.17	Auto	1.0000
L57	32	CCI 6" x 1" Plate	11.65 - 16.75	Auto	1.0000
L57	33	CCI 6" x 1" Plate	11.65 - 16.75	Auto	1.0000
L57	34	CCI 6" x 1" Plate	11.65 - 16.75	Auto	1.0000
L57	35	CCI 6" x 1" Plate	11.65 - 16.75	Auto	1.0000
L57	65	CCI 6.5" x 1.25" Plate	12.67 - 16.75	Auto	1.0000
L57	66	CCI 6.5" x 1.25" Plate	12.67 - 16.75	Auto	1.0000
L57	67	CCI 6.5" x 1.25" Plate	12.67 - 16.75	Auto	1.0000
L57	68	CCI 6.5" x 1.25" Plate	12.67 - 16.75	Auto	1.0000
L57	69	CCI 6.5" x 1.25" Plate	12.67 - 16.75	Auto	1.0000
L57	70	CCI 6.5" x 1.25" Plate	12.67 - 16.75	Auto	1.0000
L57	203	Banjo	11.65 - 16.75	Manual	1.0000
L58	4	CCI 4" x 0.75" Plate	11.42 - 11.65	Auto	1.0000
L58	32	CCI 6" x 1" Plate	11.42 - 11.65	Auto	1.0000
L58	33	CCI 6" x 1" Plate	11.42 - 11.65	Auto	1.0000
L58	34	CCI 6" x 1" Plate	11.42 - 11.65	Auto	1.0000
L58	35	CCI 6" x 1" Plate	11.42 - 11.65	Auto	1.0000

Tower Section	Attachment Record No.	Description	Attachment Segment Elev.	Ratio Calculation Method	Effective Width Ratio
L58	203	Banjo	11.42 - 11.65	Manual	1.0000
L59	2	CCI 4" x 0.75" Plate	9.40 - 10.88	Auto	1.0000
L59	3	CCI 4" x 0.75" Plate	9.40 - 10.88	Auto	1.0000
L59	4	CCI 4" x 0.75" Plate	9.40 - 11.42	Auto	1.0000
L59	32	CCI 6" x 1" Plate	9.40 - 11.42	Auto	1.0000
L59	33	CCI 6" x 1" Plate	9.40 - 11.42	Auto	1.0000
L59	34	CCI 6" x 1" Plate	9.40 - 11.42	Auto	1.0000
L59	35	CCI 6" x 1" Plate	9.40 - 11.42	Auto	1.0000
L59	203	Banjo	9.40 - 11.42	Manual	1.0000
L60	2	CCI 4" x 0.75" Plate	9.15 - 9.40	Auto	1.0000
L60	3	CCI 4" x 0.75" Plate	9.15 - 9.40	Auto	1.0000
L60	4	CCI 4" x 0.75" Plate	9.15 - 9.40	Auto	1.0000
L60	32	CCI 6" x 1" Plate	9.15 - 9.40	Auto	1.0000
L60	33	CCI 6" x 1" Plate	9.15 - 9.40	Auto	1.0000
L60	34	CCI 6" x 1" Plate	9.15 - 9.40	Auto	1.0000
L60	35	CCI 6" x 1" Plate	9.15 - 9.40	Auto	1.0000
L60	203	Banjo	9.15 - 9.40	Manual	1.0000
L61	2	CCI 4" x 0.75" Plate	4.83 - 9.15	Auto	1.0000
L61	3	CCI 4" x 0.75" Plate	4.83 - 9.15	Auto	1.0000
L61	4	CCI 4" x 0.75" Plate	4.83 - 9.15	Auto	1.0000
L61	32	CCI 6" x 1" Plate	4.83 - 9.15	Auto	1.0000
L61	33	CCI 6" x 1" Plate	4.83 - 9.15	Auto	1.0000
L61	34	CCI 6" x 1" Plate	4.83 - 9.15	Auto	1.0000
L61	35	CCI 6" x 1" Plate	4.83 - 9.15	Auto	1.0000
L61	203	Banjo	4.83 - 9.15	Manual	1.0000
L62	2	CCI 4" x 0.75" Plate	4.58 - 4.83	Auto	1.0000
L62	3	CCI 4" x 0.75" Plate	4.58 - 4.83	Auto	1.0000
L62	4	CCI 4" x 0.75" Plate	4.58 - 4.83	Auto	1.0000
L62	32	CCI 6" x 1" Plate	4.58 - 4.83	Auto	1.0000
L62	33	CCI 6" x 1" Plate	4.58 - 4.83	Auto	1.0000
L62	34	CCI 6" x 1" Plate	4.58 - 4.83	Auto	1.0000
L62	35	CCI 6" x 1" Plate	4.58 - 4.83	Auto	1.0000
L62	203	Banjo	4.58 - 4.83	Manual	1.0000
L63	2	CCI 4" x 0.75" Plate	0.00 - 4.58	Auto	1.0000
L63	3	CCI 4" x 0.75" Plate	0.00 - 4.58	Auto	1.0000
L63	4	CCI 4" x 0.75" Plate	3.17 - 4.58	Auto	1.0000
L63	32	CCI 6" x 1" Plate	0.00 - 4.58	Auto	1.0000
L63	33	CCI 6" x 1" Plate	0.00 - 4.58	Auto	1.0000
L63	34	CCI 6" x 1" Plate	0.00 - 4.58	Auto	1.0000
L63	35	CCI 6" x 1" Plate	0.00 - 4.58	Auto	1.0000
L63	203	Banjo	4.00 - 4.58	Manual	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Lightning Rod 5/8" x 4' on 4' Pole	B	From Leg	1.00 0.00 4.00	0.0000	191.67	No Ice 1/2" Ice 1" Ice 2" Ice	1.36 2.13 2.70 3.77	1.36 2.13 2.70 3.77	0.07 0.09 0.11 0.17
*									
4' ICE SHIELDS	A	From Leg	0.50 0.00 0.00	0.0000	178.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.40 1.88 2.38 3.39	0.47 0.64 0.82 1.21	0.03 0.10 0.17 0.33
4' ICE SHIELDS	A	From Leg	0.50 0.00	0.0000	138.00	No Ice	1.40 1.88	0.47 0.64	0.03 0.10

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	2.38	0.82	0.17
						1" Ice	3.39	1.21	0.33
						2" Ice			
4' ICE SHIELDS	A	From Leg	0.50	0.0000	98.00	No Ice	1.40	0.47	0.03
			0.00			1/2" Ice	1.88	0.64	0.10
			0.00			1" Ice	2.38	0.82	0.17
						2" Ice	3.39	1.21	0.33
4' ICE SHIELDS	B	From Leg	0.50	0.0000	98.00	No Ice	1.40	0.47	0.03
			0.00			1/2" Ice	1.88	0.64	0.10
			0.00			1" Ice	2.38	0.82	0.17
						2" Ice	3.39	1.21	0.33
4' ICE SHIELDS	C	From Leg	0.50	0.0000	98.00	No Ice	1.40	0.47	0.03
			0.00			1/2" Ice	1.88	0.64	0.10
			0.00			1" Ice	2.38	0.82	0.17
						2" Ice	3.39	1.21	0.33
RA									
OGB4-900D	C	From Leg	3.00	0.0000	192.00	No Ice	0.79	0.79	0.01
			0.00			1/2" Ice	1.03	1.03	0.02
			4.00			1" Ice	1.28	1.28	0.03
						2" Ice	1.81	1.81	0.05
Side Arm Mount [SO 701-1]	C	From Leg	1.50	0.0000	192.00	No Ice	0.85	1.67	0.07
			0.00			1/2" Ice	1.14	2.34	0.08
			0.00			1" Ice	1.43	3.01	0.09
						2" Ice	2.01	4.35	0.12
***									
DB589-A	B	From Leg	3.00	0.0000	191.00	No Ice	2.76	2.76	0.01
			0.00			1/2" Ice	4.17	4.17	0.03
			5.00			1" Ice	5.59	5.59	0.06
						2" Ice	8.49	8.49	0.15
WB2623 w/ Mount Pipe	B	From Leg	3.00	0.0000	191.00	No Ice	1.93	0.87	0.02
			0.00			1/2" Ice	2.16	1.11	0.04
			-1.00			1" Ice	2.40	1.37	0.06
						2" Ice	2.91	1.94	0.11
Side Arm Mount [SO 701-1]	B	From Leg	1.50	0.0000	191.00	No Ice	0.85	1.67	0.07
			0.00			1/2" Ice	1.14	2.34	0.08
			0.00			1" Ice	1.43	3.01	0.09
						2" Ice	2.01	4.35	0.12
***									
AIR -32 B2A/B66AA w/ Mount Pipe	A	From Leg	4.00	0.0000	181.00	No Ice	3.76	3.15	0.19
			0.00			1/2" Ice	4.12	3.49	0.25
			0.00			1" Ice	4.48	3.84	0.32
						2" Ice	5.24	4.58	0.48
AIR -32 B2A/B66AA w/ Mount Pipe	B	From Leg	4.00	0.0000	181.00	No Ice	3.76	3.15	0.19
			0.00			1/2" Ice	4.12	3.49	0.25
			0.00			1" Ice	4.48	3.84	0.32
						2" Ice	5.24	4.58	0.48
AIR -32 B2A/B66AA w/ Mount Pipe	C	From Leg	4.00	0.0000	181.00	No Ice	3.76	3.15	0.19
			0.00			1/2" Ice	4.12	3.49	0.25
			0.00			1" Ice	4.48	3.84	0.32
						2" Ice	5.24	4.58	0.48
APXVAARR24_43-U-NA20 w/ Mount Pipe	A	From Leg	4.00	0.0000	181.00	No Ice	14.69	6.87	0.19
			0.00			1/2" Ice	15.46	7.55	0.31
			0.00			1" Ice	16.23	8.25	0.46

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	17.82	9.67	0.79
						2" Ice			
APXVAARR24_43-U-NA20 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
APXVAARR24_43-U-NA20 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 15.46 16.23 17.82	6.87 7.55 8.25 9.67	0.19 0.31 0.46 0.79
ATBT-BOTTOM-24V	A	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.15 0.20 0.32	0.06 0.10 0.15 0.26	0.00 0.00 0.01 0.01
ATBT-BOTTOM-24V	B	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.15 0.20 0.32	0.06 0.10 0.15 0.26	0.00 0.00 0.01 0.01
ATBT-BOTTOM-24V	C	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.10 0.15 0.20 0.32	0.06 0.10 0.15 0.26	0.00 0.00 0.01 0.01
Platform Mount [LP 405-1_HR-1]	C	None		0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	25.33 33.79 42.16 58.77	25.33 33.79 42.16 58.77	2.06 2.63 3.36 5.25
***									
AIR6449 B41_T-MOBILE w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
AIR6449 B41_T-MOBILE w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.19 5.59 6.02 6.90	2.71 3.04 3.38 4.12	0.13 0.17 0.23 0.35
RADIO 4415 B25_TMO	A	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.86 2.03 2.20 2.58	0.87 1.00 1.13 1.43	0.05 0.06 0.08 0.12
RADIO 4415 B25_TMO	B	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.86 2.03 2.20 2.58	0.87 1.00 1.13 1.43	0.05 0.06 0.08 0.12
RADIO 4415 B25_TMO	C	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.86 2.03 2.20 2.58	0.87 1.00 1.13 1.43	0.05 0.06 0.08 0.12
RADIO 4449 B71 B85A_T-MOBILE	A	From Leg	4.00 0.00	0.0000	181.00	No Ice	1.97 2.15	1.59 1.75	0.07 0.09

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	2.33	1.92	0.12
						1" Ice	2.72	2.28	0.17
						2" Ice			
RADIO 4449 B71 B85A_T-MOBILE	B	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
RADIO 4449 B71 B85A_T-MOBILE	C	From Leg	4.00 0.00 0.00	0.0000	181.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.97 2.15 2.33 2.72	1.59 1.75 1.92 2.28	0.07 0.09 0.12 0.17
***									
MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.01 8.52 9.04 10.11	4.23 4.69 5.16 6.12	0.11 0.19 0.29 0.52
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.01 8.52 9.04 10.11	4.23 4.69 5.16 6.12	0.11 0.19 0.29 0.52
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	8.01 8.52 9.04 10.11	4.23 4.69 5.16 6.12	0.11 0.19 0.29 0.52
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
TA08025-B604	B	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
TA08025-B604	C	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	0.98 1.11 1.25 1.55	0.06 0.08 0.10 0.15
TA08025-B605	A	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	1.13 1.27 1.41 1.72	0.08 0.09 0.11 0.16
TA08025-B605	B	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	1.13 1.27 1.41 1.72	0.08 0.09 0.11 0.16
TA08025-B605	C	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.96 2.14 2.32 2.71	1.13 1.27 1.41 1.72	0.08 0.09 0.11 0.16
RDIDC-9181-PF-48	A	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.01 2.19 2.37 2.76	1.17 1.31 1.46 1.78	0.02 0.04 0.06 0.11

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
Commscope MC-PK8-DSH	C	None		0.0000	171.00	No Ice 1/2" Ice 1" Ice 2" Ice	34.24 62.95 91.66 149.08	34.24 62.95 91.66 149.08	1.75 2.10 2.45 3.15
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(2) NNHH-65B-R4 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.55 8.04 8.53 9.56	4.23 4.67 5.12 6.05	0.11 0.20 0.30 0.53
(2) NNHH-65B-R4 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.55 8.04 8.53 9.56	4.23 4.67 5.12 6.05	0.11 0.20 0.30 0.53
(2) NNHH-65B-R4 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.55 8.04 8.53 9.56	4.23 4.67 5.12 6.05	0.11 0.20 0.30 0.53
BXA-171085-12BF-2 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.97 5.52 6.04 7.09	5.23 6.39 7.26 9.05	0.04 0.09 0.14 0.27
BXA-171085-12BF-2 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.97 5.52 6.04 7.09	5.23 6.39 7.26 9.05	0.04 0.09 0.14 0.27
BXA-171085-12BF-2 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.97 5.52 6.04 7.09	5.23 6.39 7.26 9.05	0.04 0.09 0.14 0.27
LNX-8513DS-A1M w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.71	3.30 3.68 4.06 4.87	0.07 0.13 0.20 0.38
LNX-6514DS-A1M w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.09 4.49 4.89 5.71	3.30 3.68 4.06 4.87	0.06 0.13 0.20 0.38
LNX-8513DS-A1M w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice	4.09 4.49 4.89 5.71	3.30 3.68 4.06 4.87	0.07 0.13 0.20 0.38

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						2" Ice			
RFV01U-D1A	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
RFV01U-D1A	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
RFV01U-D1A	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.25 1.39 1.54 1.86	0.08 0.10 0.12 0.18
RFV01U-D2A	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
RFV01U-D2A	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
RFV01U-D2A	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.88 2.05 2.22 2.60	1.01 1.14 1.28 1.59	0.07 0.09 0.11 0.15
DB-T1-6Z-8AB-0Z	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.80 5.07 5.35 5.93	2.00 2.19 2.39 2.81	0.04 0.08 0.12 0.21
DB-T1-6Z-8AB-0Z	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	4.80 5.07 5.35 5.93	2.00 2.19 2.39 2.81	0.04 0.08 0.12 0.21
Platform Mount [LP 303-1]	C	None		0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	14.69 18.01 21.34 28.08	14.69 18.01 21.34 28.08	1.25 1.57 1.94 2.85
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SRL-224NM-4	B	From Leg	6.00 0.00 0.00	0.0000	158.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.60 4.68 6.76 10.92	2.60 4.68 6.76 10.92	0.04 0.05 0.06 0.08
DB205-A	C	From Leg	6.00 0.00 0.00	0.0000	158.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.20 2.16 3.12 5.04	1.20 2.16 3.12 5.04	0.04 0.05 0.06 0.08
Side Arm Mount [SO 702-1]	B	From Leg	3.00 0.00 0.00	0.0000	158.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.62 0.74 0.89 1.25	1.49 2.07 2.54 3.55	0.03 0.04 0.06 0.12
Side Arm Mount [SO 702-1]	C	From Leg	3.00 0.00 0.00	0.0000	158.00	No Ice 1/2" Ice	0.62 0.74 0.89	1.49 2.07 2.54	0.03 0.04 0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice 2" Ice	1.25	3.55	0.12
4' x 2" Pipe Mount	B	From Leg	6.00 0.00 0.00	0.0000	158.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.79 1.03 1.28 1.81	0.79 1.03 1.28 1.81	0.03 0.04 0.04 0.07
4' x 2" Pipe Mount	C	From Leg	6.00 0.00 0.00	0.0000	158.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.79 1.03 1.28 1.81	0.79 1.03 1.28 1.81	0.03 0.04 0.04 0.07
***									
SBNH-1D6565C w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.56 6.07 6.59 7.65	4.47 4.97 5.47 6.52	0.08 0.17 0.26 0.50
SBNH-1D6565C w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.56 6.07 6.59 7.65	4.47 4.97 5.47 6.52	0.08 0.17 0.26 0.50
SBNH-1D6565C w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.56 6.07 6.59 7.65	4.47 4.97 5.47 6.52	0.08 0.17 0.26 0.50
7770.00 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
7770.00 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.75 6.18 6.61 7.49	4.25 5.01 5.71 7.16	0.06 0.10 0.16 0.29
TPA-65R-LCUUUU-H8 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.85 12.77 13.71 15.64	8.99 9.88 10.79 12.66	0.11 0.21 0.32 0.58
TPA-65R-LCUUUU-H8 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.85 12.77 13.71 15.64	8.99 9.88 10.79 12.66	0.11 0.21 0.32 0.58
TPA-65R-LCUUUU-H8 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	11.85 12.77 13.71 15.64	8.99 9.88 10.79 12.66	0.11 0.21 0.32 0.58
DTMABP7819VG12A	A	From Leg	4.00 0.00 0.00	0.0000	151.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.98 1.10 1.23 1.52	0.34 0.42 0.51 0.71	0.02 0.03 0.04 0.06
DTMABP7819VG12A	B	From Leg	4.00 0.00	0.0000	151.00	No Ice	0.98 1.10	0.34 0.42	0.02 0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	1.23	0.51	0.04
						1" Ice	1.52	0.71	0.06
						2" Ice			
DTMABP7819VG12A	C	From Leg	4.00	0.0000	151.00	No Ice	0.98	0.34	0.02
			0.00			1/2" Ice	1.10	0.42	0.03
			0.00			1" Ice	1.23	0.51	0.04
						2" Ice	1.52	0.71	0.06
RRUS 32	A	From Leg	4.00	0.0000	151.00	No Ice	2.86	1.78	0.06
			0.00			1/2" Ice	3.08	1.97	0.08
			0.00			1" Ice	3.32	2.17	0.10
						2" Ice	3.81	2.58	0.16
RRUS 32	B	From Leg	4.00	0.0000	151.00	No Ice	2.86	1.78	0.06
			0.00			1/2" Ice	3.08	1.97	0.08
			0.00			1" Ice	3.32	2.17	0.10
						2" Ice	3.81	2.58	0.16
RRUS 32	C	From Leg	4.00	0.0000	151.00	No Ice	2.86	1.78	0.06
			0.00			1/2" Ice	3.08	1.97	0.08
			0.00			1" Ice	3.32	2.17	0.10
						2" Ice	3.81	2.58	0.16
RRUS 32 B2	A	From Leg	4.00	0.0000	151.00	No Ice	2.73	1.67	0.05
			0.00			1/2" Ice	2.95	1.86	0.07
			0.00			1" Ice	3.18	2.05	0.10
						2" Ice	3.66	2.46	0.16
RRUS 32 B2	B	From Leg	4.00	0.0000	151.00	No Ice	2.73	1.67	0.05
			0.00			1/2" Ice	2.95	1.86	0.07
			0.00			1" Ice	3.18	2.05	0.10
						2" Ice	3.66	2.46	0.16
RRUS 32 B2	C	From Leg	4.00	0.0000	151.00	No Ice	2.73	1.67	0.05
			0.00			1/2" Ice	2.95	1.86	0.07
			0.00			1" Ice	3.18	2.05	0.10
						2" Ice	3.66	2.46	0.16
DBC0062F3V52-1	A	From Leg	4.00	0.0000	151.00	No Ice	0.71	0.22	0.01
			0.00			1/2" Ice	0.82	0.29	0.02
			0.00			1" Ice	0.93	0.37	0.02
						2" Ice	1.18	0.54	0.04
DBC0062F3V52-1	B	From Leg	4.00	0.0000	151.00	No Ice	0.71	0.22	0.01
			0.00			1/2" Ice	0.82	0.29	0.02
			0.00			1" Ice	0.93	0.37	0.02
						2" Ice	1.18	0.54	0.04
DBC0062F3V52-1	C	From Leg	4.00	0.0000	151.00	No Ice	0.71	0.22	0.01
			0.00			1/2" Ice	0.82	0.29	0.02
			0.00			1" Ice	0.93	0.37	0.02
						2" Ice	1.18	0.54	0.04
DC6-48-60-18-8F	C	From Leg	4.00	0.0000	151.00	No Ice	0.92	0.92	0.02
			0.00			1/2" Ice	1.46	1.46	0.04
			0.00			1" Ice	1.64	1.64	0.06
						2" Ice	2.04	2.04	0.11
Platform Mount [LP 403-1_KCKR]	C	None		0.0000	151.00	No Ice	30.16	30.16	1.77
						1/2" Ice	37.53	37.53	2.32
						1" Ice	45.13	45.13	2.97
						2" Ice	61.01	61.01	4.61
Miscellaneous [NA 510-1]	C	None		0.0000	151.00	No Ice	6.36	6.36	0.26

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1/2" Ice	8.52	8.52	0.34
						1" Ice	10.62	10.62	0.46
						2" Ice	14.64	14.64	0.77
***									
RRUS 11	B	From Leg	4.00 0.00 2.00	0.0000	150.00	No Ice	2.78	1.19	0.05
						1/2" Ice	2.99	1.33	0.07
						1" Ice	3.21	1.49	0.09
						2" Ice	3.66	1.83	0.15
RRUS 11	C	From Leg	4.00 0.00 2.00	0.0000	150.00	No Ice	2.78	1.19	0.05
						1/2" Ice	2.99	1.33	0.07
						1" Ice	3.21	1.49	0.09
						2" Ice	3.66	1.83	0.15
RRUS 12	B	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice	3.15	1.29	0.06
						1/2" Ice	3.36	1.44	0.08
						1" Ice	3.59	1.60	0.11
						2" Ice	4.07	1.95	0.17
RRUS 12	C	From Leg	4.00 0.00 0.00	0.0000	150.00	No Ice	3.15	1.29	0.06
						1/2" Ice	3.36	1.44	0.08
						1" Ice	3.59	1.60	0.11
						2" Ice	4.07	1.95	0.17
DC6-48-60-18-8F	C	From Leg	4.00 0.00 2.00	0.0000	150.00	No Ice	0.92	0.92	0.02
						1/2" Ice	1.46	1.46	0.04
						1" Ice	1.64	1.64	0.06
						2" Ice	2.04	2.04	0.11
Side Arm Mount [SO 102-3]	C	None		0.0000	150.00	No Ice	3.60	3.60	0.07
						1/2" Ice	4.18	4.18	0.11
						1" Ice	4.75	4.75	0.14
						2" Ice	5.90	5.90	0.20
Pipe Mount [PM 601-3]	C	None		0.0000	150.00	No Ice	3.17	3.17	0.20
						1/2" Ice	3.79	3.79	0.23
						1" Ice	4.42	4.42	0.28
						2" Ice	5.76	5.76	0.40
***									
SRL-235-2	B	From Leg	6.00 0.00 0.00	0.0000	132.00	No Ice	7.00	7.00	0.08
						1/2" Ice	9.04	9.04	0.13
						1" Ice	11.09	11.09	0.19
						2" Ice	15.25	15.25	0.35
Side Arm Mount [SO 702-1]	B	From Leg	3.00 0.00 0.00	0.0000	132.00	No Ice	0.62	1.49	0.03
						1/2" Ice	0.74	2.07	0.04
						1" Ice	0.89	2.54	0.06
						2" Ice	1.25	3.55	0.12
Side Arm Mount [SO 104-3]	C	None		0.0000	132.00	No Ice	2.62	2.62	0.29
						1/2" Ice	3.30	3.30	0.41
						1" Ice	3.98	3.98	0.53
						2" Ice	5.35	5.35	0.77
4' x 2" Pipe Mount	B	From Leg	6.00 0.00 0.00	0.0000	132.00	No Ice	0.79	0.79	0.03
						1/2" Ice	1.03	1.03	0.04
						1" Ice	1.28	1.28	0.04
						2" Ice	1.81	1.81	0.07
***									
PCS 1900 TMA RX	A	From Leg	2.00 0.00 0.00	0.0000	124.00	No Ice	0.54	0.53	0.02
						1/2" Ice	0.64	0.63	0.02
						1" Ice	0.75	0.73	0.03

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice	0.98	0.97	0.05
						2" Ice			
Side Arm Mount [SO 104-3]	A	None		0.0000	124.00	No Ice	2.62	2.62	0.29
						1/2" Ice	3.30	3.30	0.41
						1" Ice	3.98	3.98	0.53
						2" Ice	5.35	5.35	0.77
2' x 2" Pipe Mount	A	From Leg	2.00 0.00 0.00	0.0000	124.00	No Ice	0.02	0.02	0.01
						1/2" Ice	0.05	0.05	0.01
						1" Ice	0.09	0.09	0.01
						2" Ice	0.19	0.19	0.01
***									
844G65VTZAS w/ Mount Pipe	A	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice	5.49	4.98	0.03
						1/2" Ice	5.88	5.60	0.09
						1" Ice	6.27	6.23	0.14
						2" Ice	7.09	7.53	0.28
844G65VTZAS w/ Mount Pipe	B	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice	5.49	4.98	0.03
						1/2" Ice	5.88	5.60	0.09
						1" Ice	6.27	6.23	0.14
						2" Ice	7.09	7.53	0.28
844G65VTZAS w/ Mount Pipe	C	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice	5.49	4.98	0.03
						1/2" Ice	5.88	5.60	0.09
						1" Ice	6.27	6.23	0.14
						2" Ice	7.09	7.53	0.28
(2) 844G65VTZAS	A	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice	5.25	3.80	0.02
						1/2" Ice	5.58	4.10	0.05
						1" Ice	5.91	4.42	0.10
						2" Ice	6.60	5.07	0.20
(2) 844G65VTZAS	B	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice	5.25	3.80	0.02
						1/2" Ice	5.58	4.10	0.05
						1" Ice	5.91	4.42	0.10
						2" Ice	6.60	5.07	0.20
(2) 844G65VTZAS	C	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice	5.25	3.80	0.02
						1/2" Ice	5.58	4.10	0.05
						1" Ice	5.91	4.42	0.10
						2" Ice	6.60	5.07	0.20
Dual Mount Bracket	A	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice	1.66	1.66	0.03
						1/2" Ice	2.39	2.39	0.04
						1" Ice	2.83	2.83	0.06
						2" Ice	3.71	3.71	0.10
Dual Mount Bracket	B	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice	1.66	1.66	0.03
						1/2" Ice	2.39	2.39	0.04
						1" Ice	2.83	2.83	0.06
						2" Ice	3.71	3.71	0.10
Dual Mount Bracket	C	From Leg	4.00 0.00 0.00	0.0000	116.00	No Ice	1.66	1.66	0.03
						1/2" Ice	2.39	2.39	0.04
						1" Ice	2.83	2.83	0.06
						2" Ice	3.71	3.71	0.10
***									
LLPX310R-V4	A	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice	3.87	1.49	0.04
						1/2" Ice	4.30	1.86	0.07
						1" Ice	4.74	2.24	0.10
						2" Ice	5.68	3.06	0.17
LLPX310R-V4	B	From Leg	4.00	0.0000	116.00	No Ice	3.87	1.49	0.04

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
			0.00			1/2" Ice	4.30	1.86	0.07
			2.00			1" Ice	4.74	2.24	0.10
						2" Ice	5.68	3.06	0.17
LLPX310R-V4	C	From Leg	4.00	0.0000	116.00	No Ice	3.87	1.49	0.04
			0.00			1/2" Ice	4.30	1.86	0.07
			2.00			1" Ice	4.74	2.24	0.10
						2" Ice	5.68	3.06	0.17
WIMAX DAP HEAD	A	From Leg	4.00	0.0000	116.00	No Ice	1.55	0.68	0.03
			0.00			1/2" Ice	1.70	0.80	0.04
			0.00			1" Ice	1.87	0.92	0.06
						2" Ice	2.22	1.19	0.09
WIMAX DAP HEAD	B	From Leg	4.00	0.0000	116.00	No Ice	1.55	0.68	0.03
			0.00			1/2" Ice	1.70	0.80	0.04
			0.00			1" Ice	1.87	0.92	0.06
						2" Ice	2.22	1.19	0.09
WIMAX DAP HEAD	C	From Leg	4.00	0.0000	116.00	No Ice	1.55	0.68	0.03
			0.00			1/2" Ice	1.70	0.80	0.04
			0.00			1" Ice	1.87	0.92	0.06
						2" Ice	2.22	1.19	0.09
HORIZON DUO	A	From Leg	4.00	0.0000	116.00	No Ice	0.17	0.24	0.01
			0.00			1/2" Ice	0.25	0.34	0.02
			0.00			1" Ice	0.34	0.46	0.03
						2" Ice	0.53	0.70	0.06
Platform Mount [LP 405-1_HR-1]	C	None		0.0000	116.00	No Ice	25.33	25.33	2.06
						1/2" Ice	33.79	33.79	2.63
						1" Ice	42.16	42.16	3.36
						2" Ice	58.77	58.77	5.25
Dual Mount Bracket	A	From Leg	4.00	0.0000	116.00	No Ice	1.66	1.66	0.03
			0.00			1/2" Ice	2.39	2.39	0.04
			0.00			1" Ice	2.83	2.83	0.06
						2" Ice	3.71	3.71	0.10
Dual Mount Bracket	B	From Leg	4.00	0.0000	116.00	No Ice	1.66	1.66	0.03
			0.00			1/2" Ice	2.39	2.39	0.04
			0.00			1" Ice	2.83	2.83	0.06
						2" Ice	3.71	3.71	0.10
Dual Mount Bracket	C	From Leg	4.00	0.0000	116.00	No Ice	1.66	1.66	0.03
			0.00			1/2" Ice	2.39	2.39	0.04
			0.00			1" Ice	2.83	2.83	0.06
						2" Ice	3.71	3.71	0.10
***									
NNVV-65B-R4	A	From Leg	4.00	0.0000	116.00	No Ice	7.62	3.01	0.08
			0.00			1/2" Ice	8.12	3.45	0.15
			2.00			1" Ice	8.63	3.90	0.23
						2" Ice	9.68	4.82	0.41
NNVV-65B-R4	B	From Leg	4.00	0.0000	116.00	No Ice	7.62	3.01	0.08
			0.00			1/2" Ice	8.12	3.45	0.15
			2.00			1" Ice	8.63	3.90	0.23
						2" Ice	9.68	4.82	0.41
NNVV-65B-R4	C	From Leg	4.00	0.0000	116.00	No Ice	7.62	3.01	0.08
			0.00			1/2" Ice	8.12	3.45	0.15
			2.00			1" Ice	8.63	3.90	0.23
						2" Ice	9.68	4.82	0.41

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
AHCC	A	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.63 1.79 1.96 2.32	1.14 1.28 1.43 1.75	0.05 0.06 0.08 0.12
AHCC	B	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.63 1.79 1.96 2.32	1.14 1.28 1.43 1.75	0.05 0.06 0.08 0.12
AHCC	C	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.63 1.79 1.96 2.32	1.14 1.28 1.43 1.75	0.05 0.06 0.08 0.12
PCS 1900MHZ 4X45W-65MHZ	A	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
(2) PCS 1900MHZ 4X45W-65MHZ	B	From Leg	4.00 0.00 2.00	0.0000	116.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.32 2.53 2.74 3.19	2.24 2.44 2.65 3.09	0.06 0.08 0.11 0.17
****									
DB205-A	C	From Leg	6.00 0.00 9.00	0.0000	90.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.20 2.16 3.12 5.04	1.20 2.16 3.12 5.04	0.04 0.05 0.06 0.08
MT-485002	C	From Leg	6.00 0.00 0.00	0.0000	90.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.20 1.34 1.48 1.79	0.13 0.21 0.29 0.47	0.00 0.01 0.02 0.04
Side Arm Mount [SO 702-3]	C	None		0.0000	90.00	No Ice 1/2" Ice 1" Ice 2" Ice	2.53 3.37 4.12 5.76	2.53 3.37 4.12 5.76	0.08 0.13 0.19 0.36
5' x 2" Pipe Mount	C	From Leg	6.00 0.00 0.00	0.0000	90.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.19 1.50 1.81 2.46	1.19 1.50 1.81 2.46	0.02 0.03 0.04 0.08
***									
SRL-235-2	C	From Leg	3.00 0.00 0.00	0.0000	70.00	No Ice 1/2" Ice 1" Ice 2" Ice	7.00 9.04 11.09 15.25	7.00 9.04 11.09 15.25	0.08 0.13 0.19 0.35
Side Arm Mount [SO 701-1]	C	From Leg	1.50 0.00 0.00	0.0000	70.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	0.07 0.08 0.09 0.12
Side Arm Mount [SO 102-3]	C	None		0.0000	70.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.60 4.18 4.75 5.90	3.60 4.18 4.75 5.90	0.07 0.11 0.14 0.20
6' x 2" Mount Pipe	C	From Leg	3.00 0.00 0.00	0.0000	70.00	No Ice 1/2" Ice	1.43 1.92 2.29	1.43 1.92 2.29	0.02 0.03 0.05

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
						1" Ice 2" Ice	3.06	3.06	0.09
***									
DB909XVTE-M	B	From Leg	3.00 0.00 0.00	0.0000	33.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.89 2.62 2.95 3.64	1.89 2.62 2.95 3.64	0.02 0.05 0.07 0.14
Side Arm Mount [SO 701-1]	B	From Leg	1.50 0.00 0.00	0.0000	33.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.85 1.14 1.43 2.01	1.67 2.34 3.01 4.35	0.07 0.08 0.09 0.12
Side Arm Mount [SO 102-3]	B	None		0.0000	33.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.60 4.18 4.75 5.90	3.60 4.18 4.75 5.90	0.07 0.11 0.14 0.20
6' x 2" Mount Pipe	B	From Leg	3.00 0.00 0.00	0.0000	33.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.43 1.92 2.29 3.06	1.43 1.92 2.29 3.06	0.02 0.03 0.05 0.09
****									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
VHLP2-18	B	Paraboloid w/o Radome	From Leg	4.00 0.00 4.00	0.0000		116.00	2.17	No Ice 1/2" Ice 1" Ice 2" Ice	3.72 4.01 4.30 4.88	0.03 0.05 0.07 0.11
*											
KP2F-34	B	Grid	From Leg	6.00 0.00 0.00	5.0000		90.00	2.00	No Ice 1/2" Ice 1" Ice 2" Ice	3.14 3.41 3.68 4.28	0.01 0.02 0.04 0.07

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice

Comb. No.	Description
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	191.667 - 186.667	Pole	Max Tension	36	0.00	-0.00	0.00
			Max. Compression	26	-1.58	-1.00	-1.19
			Max. Mx	8	-0.71	-3.79	-0.42
			Max. My	14	-0.71	-0.25	-4.08
			Max. Vy	8	0.68	-3.79	-0.42
			Max. Vx	14	0.69	-0.25	-4.08
			Max. Torque	6			-0.81
L2	186.667 - 181.567	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-2.64	-1.01	-1.32
			Max. Mx	8	-1.34	-8.10	-0.59
			Max. My	14	-1.34	-0.36	-8.50
			Max. Vy	8	1.01	-8.10	-0.59
			Max. Vx	14	1.02	-0.36	-8.50
			Max. Torque	6			-0.81
L3	181.567 - 176.567	Pole	Max Tension	1	0.00	0.00	0.00

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	26	-15.95	-1.05	-0.96
			Max. Mx	8	-6.47	-31.31	-0.71
			Max. My	14	-6.47	-0.48	-31.83
			Max. Vy	8	5.26	-31.31	-0.71
			Max. Vx	14	5.32	-0.48	-31.83
			Max. Torque	6			-0.81
L4	176.567 - 171.567	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-17.01	-1.11	-1.12
			Max. Mx	8	-7.12	-58.44	-0.89
			Max. My	14	-7.12	-0.60	-59.29
			Max. Vy	8	5.59	-58.44	-0.89
			Max. Vx	14	5.64	-0.60	-59.29
			Max. Torque	6			-0.78
L5	171.567 - 166.567	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-25.14	-1.18	-0.79
			Max. Mx	8	-10.78	-101.57	-1.00
			Max. My	14	-10.78	-0.73	-102.77
			Max. Vy	8	9.15	-101.57	-1.00
			Max. Vx	14	9.24	-0.73	-102.77
			Max. Torque	6			-0.78
L6	166.567 - 161.567	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-26.25	-1.26	-1.03
			Max. Mx	8	-11.45	-148.07	-1.21
			Max. My	14	-11.45	-0.86	-149.77
			Max. Vy	8	9.45	-148.07	-1.21
			Max. Vx	14	9.54	-0.86	-149.77
			Max. Torque	17			0.65
L7	161.567 - 156.567	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-38.10	-1.55	-3.92
			Max. Mx	8	-15.43	-209.26	-2.23
			Max. My	14	-15.43	-0.98	-212.04
			Max. Vy	8	13.77	-209.26	-2.23
			Max. Vx	14	13.78	-0.98	-212.04
			Max. Torque	7			-1.98
L8	156.567 - 151.567	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39.56	-1.99	-4.00
			Max. Mx	8	-16.19	-278.80	-2.42
			Max. My	14	-16.19	-1.17	-281.65
			Max. Vy	8	14.04	-278.80	-2.42
			Max. Vx	14	14.05	-1.17	-281.65
			Max. Torque	7			-1.98
L9	151.567 - 146.567	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-53.90	-1.52	-6.32
			Max. Mx	8	-21.18	-372.87	-3.35
			Max. My	14	-21.19	-1.17	-376.24
			Max. Vy	8	19.64	-372.87	-3.35
			Max. Vx	14	19.53	-1.17	-376.24
			Max. Torque	9			-2.37
L10	146.567 - 141.567	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.40	-2.00	-6.39
			Max. Mx	8	-22.05	-471.58	-3.54
			Max. My	14	-22.06	-1.37	-474.39
			Max. Vy	8	19.84	-471.58	-3.54
			Max. Vx	14	19.73	-1.37	-474.39
			Max. Torque	9			-2.37
L11	141.567 - 141.417	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-55.44	-2.01	-6.39
			Max. Mx	8	-22.08	-474.55	-3.54
			Max. My	14	-22.10	-1.37	-477.35
			Max. Vy	20	-19.83	474.22	-1.24
			Max. Vx	14	19.72	-1.37	-477.35

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Torque	9			-2.37
L12	141.417 - 136.417	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-57.70	-2.64	-5.78
			Max. Mx	8	-23.20	-574.81	-3.68
			Max. My	14	-23.21	-1.59	-577.05
			Max. Vy	8	20.26	-574.81	-3.68
			Max. Vx	14	20.19	-1.59	-577.05
			Max. Torque	9			-2.37
L13	136.417 - 131.417	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-61.00	-6.57	-7.74
			Max. Mx	8	-24.78	-678.39	-4.36
			Max. My	14	-24.79	-2.65	-679.86
			Max. Vy	8	21.15	-678.39	-4.36
			Max. Vx	14	21.09	-2.65	-679.86
			Max. Torque	19			4.67
L14	131.417 - 126.417	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-63.00	-7.21	-7.79
			Max. Mx	8	-25.93	-785.10	-4.49
			Max. My	14	-25.94	-2.79	-786.29
			Max. Vy	8	21.52	-785.10	-4.49
			Max. Vx	14	21.46	-2.79	-786.29
			Max. Torque	19			4.67
L15	126.417 - 121.417	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66.77	-7.90	-7.63
			Max. Mx	8	-28.15	-894.12	-4.53
			Max. My	14	-28.15	-2.97	-895.84
			Max. Vy	20	-22.43	892.07	-1.58
			Max. Vx	14	22.37	-2.97	-895.84
			Max. Torque	19			4.67
L16	121.417 - 121.167	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66.89	-7.94	-7.63
			Max. Mx	8	-28.23	-899.63	-4.53
			Max. My	14	-28.22	-2.98	-901.44
			Max. Vy	20	-22.44	897.67	-1.59
			Max. Vx	14	22.39	-2.98	-901.44
			Max. Torque	19			4.60
L17	121.167 - 116.167	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69.45	-9.22	-8.01
			Max. Mx	8	-29.68	-1011.80	-4.78
			Max. My	14	-29.68	-3.40	-1014.99
			Max. Vy	20	-23.08	1011.46	-1.27
			Max. Vx	14	22.92	-3.40	-1014.99
			Max. Torque	7			-5.05
L18	116.167 - 111.167	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-83.24	-12.42	-7.21
			Max. Mx	8	-34.79	-1152.51	-4.77
			Max. My	14	-34.80	-4.55	-1155.77
			Max. Vy	20	-27.78	1152.49	-0.48
			Max. Vx	14	27.51	-4.55	-1155.77
			Max. Torque	7			-5.38
L19	111.167 - 110.042	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-83.87	-12.65	-7.11
			Max. Mx	20	-35.10	1183.73	-0.31
			Max. My	14	-35.12	-4.66	-1186.75
			Max. Vy	20	-27.89	1183.73	-0.31
			Max. Vx	14	27.61	-4.66	-1186.75
			Max. Torque	7			-5.38
L20	110.042 - 109.792	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-84.02	-12.70	-7.09
			Max. Mx	20	-35.19	1190.69	-0.28

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	14	-35.21	-4.68	-1193.65
			Max. Vy	20	-27.91	1190.69	-0.28
			Max. Vx	14	27.62	-4.68	-1193.65
			Max. Torque	7			-5.38
L21	109.792 - 105.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-87.17	-13.65	-6.69
			Max. Mx	20	-36.90	1323.02	0.40
			Max. My	14	-36.93	-5.12	-1324.65
			Max. Vy	20	-28.41	1323.02	0.40
			Max. Vx	14	28.05	-5.12	-1324.65
			Max. Torque	7			-5.38
L22	105.083 - 104.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-87.36	-13.70	-6.67
			Max. Mx	20	-37.02	1330.12	0.43
			Max. My	14	-37.05	-5.14	-1331.66
			Max. Vy	20	-28.46	1330.12	0.43
			Max. Vx	14	28.09	-5.14	-1331.66
			Max. Torque	7			-5.37
L23	104.833 - 100.917	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-91.31	-14.51	-6.36
			Max. Mx	20	-39.48	1443.24	0.97
			Max. My	14	-39.51	-5.48	-1443.37
			Max. Vy	8	29.44	-1442.85	-4.89
			Max. Vx	14	28.99	-5.48	-1443.37
			Max. Torque	7			-5.37
L24	100.917 - 100.667	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-91.50	-14.59	-6.34
			Max. Mx	20	-39.59	1450.58	1.00
			Max. My	14	-39.62	-5.51	-1450.62
			Max. Vy	8	29.48	-1450.23	-4.89
			Max. Vx	14	29.03	-5.51	-1450.62
			Max. Torque	7			-5.37
L25	100.667 - 95.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-95.69	-16.12	-5.85
			Max. Mx	8	-41.49	-1594.51	-4.93
			Max. My	14	-41.53	-5.99	-1592.12
			Max. Vy	8	30.12	-1594.51	-4.93
			Max. Vx	12	30.00	-863.04	-1488.18
			Max. Torque	7			-5.37
L26	95.833 - 95.583	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-95.85	-16.20	-5.82
			Max. Mx	8	-41.59	-1602.06	-4.93
			Max. My	14	-41.63	-6.01	-1599.51
			Max. Vy	8	30.14	-1602.06	-4.93
			Max. Vx	12	30.05	-867.39	-1495.68
			Max. Torque	7			-5.37
L27	95.583 - 90.583	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-99.14	-17.78	-5.30
			Max. Mx	8	-43.44	-1754.42	-4.96
			Max. My	14	-43.48	-6.51	-1748.42
			Max. Vy	8	30.69	-1754.42	-4.96
			Max. Vx	12	31.23	-956.32	-1648.81
			Max. Torque	7			-5.37
L28	90.583 - 89.917	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-100.23	-17.08	-6.33
			Max. Mx	8	-43.86	-1774.89	-5.26
			Max. My	14	-43.89	-6.12	-1769.20
			Max. Vy	20	-31.08	1774.75	2.28
			Max. Vx	12	31.61	-968.20	-1670.33
			Max. Torque	7			-5.63

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L29	89.917 - 89.667	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-100.43	-17.16	-6.30
			Max. Mx	8	-43.97	-1782.67	-5.26
			Max. My	14	-44.01	-6.14	-1776.80
			Max. Vy	20	-31.13	1782.51	2.31
			Max. Vx	12	31.67	-972.79	-1678.24
			Max. Torque	7			-5.63
L30	89.667 - 84.667	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-105.19	-18.55	-5.72
			Max. Mx	8	-46.85	-1941.27	-5.20
			Max. My	14	-46.90	-6.48	-1931.31
			Max. Vy	20	-32.32	1940.93	3.03
			Max. Vx	12	32.95	-1066.45	-1839.67
			Max. Torque	7			-5.63
L31	84.667 - 80.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-109.93	-19.49	-5.23
			Max. Mx	8	-50.07	-2066.97	-5.11
			Max. My	14	-50.12	-6.62	-2053.13
			Max. Vy	20	-33.33	2066.73	3.62
			Max. Vx	12	34.01	-1140.74	-1967.88
			Max. Torque	7			-5.63
L32	80.833 - 80.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-110.49	-19.64	-5.16
			Max. Mx	8	-50.46	-2083.65	-5.10
			Max. My	14	-50.50	-6.64	-2069.24
			Max. Vy	20	-33.42	2083.40	3.70
			Max. Vx	12	34.14	-1150.61	-1984.90
			Max. Torque	7			-5.63
L33	80.333 - 80.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-110.72	-19.72	-5.13
			Max. Mx	8	-50.60	-2092.01	-5.10
			Max. My	14	-50.65	-6.66	-2077.32
			Max. Vy	20	-33.48	2091.75	3.74
			Max. Vx	12	34.21	-1155.56	-1993.44
			Max. Torque	7			-5.63
L34	80.083 - 75.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-114.99	-21.34	-4.55
			Max. Mx	8	-53.13	-2261.92	-5.05
			Max. My	14	-53.18	-7.09	-2241.46
			Max. Vy	20	-34.47	2261.30	4.45
			Max. Vx	12	35.46	-1256.59	-2167.47
			Max. Torque	7			-5.63
L35	75.083 - 70.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-119.83	-23.23	-4.00
			Max. Mx	8	-56.09	-2436.92	-5.03
			Max. My	14	-56.13	-7.72	-2410.55
			Max. Vy	20	-35.48	2435.66	5.13
			Max. Vx	12	36.69	-1361.40	-2347.73
			Max. Torque	7			-5.63
L36	70.083 - 69.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-121.25	-21.10	-5.30
			Max. Mx	20	-56.76	2457.34	4.78
			Max. My	14	-56.81	-7.05	-2431.29
			Max. Vy	20	-36.07	2457.34	4.78
			Max. Vx	12	37.27	-1373.23	-2369.80
			Max. Torque	7			-5.63
L37	69.5 - 69.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-121.55	-21.20	-5.27
			Max. Mx	20	-56.95	2466.34	4.82
			Max. My	14	-57.00	-7.08	-2440.03
			Max. Vy	20	-36.12	2466.34	4.82

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Vx	12	37.33	-1378.65	-2379.12
			Max. Torque	7			-5.63
L38	69.25 - 64.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-130.43	-23.67	-4.69
			Max. Mx	8	-63.37	-2650.90	-5.50
			Max. My	14	-63.41	-8.27	-2618.36
			Max. Vy	20	-37.61	2649.67	5.57
			Max. Vx	12	38.81	-1489.74	-2569.36
			Max. Torque	7			-5.63
L39	64.25 - 60.583	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-137.57	-25.55	-4.23
			Max. Mx	8	-68.58	-2791.12	-5.49
			Max. My	14	-68.62	-9.19	-2753.61
			Max. Vy	20	-38.73	2788.85	6.16
			Max. Vx	12	39.91	-1573.96	-2713.56
			Max. Torque	7			-5.63
L40	60.583 - 60.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-137.88	-25.66	-4.19
			Max. Mx	8	-68.79	-2800.80	-5.49
			Max. My	14	-68.83	-9.23	-2762.97
			Max. Vy	20	-38.78	2798.51	6.20
			Max. Vx	12	39.96	-1579.76	-2723.53
			Max. Torque	7			-5.63
L41	60.333 - 55.333	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-143.88	-27.74	-3.54
			Max. Mx	8	-72.63	-2997.13	-5.51
			Max. My	14	-72.67	-10.03	-2952.99
			Max. Vy	20	-39.85	2994.47	6.97
			Max. Vx	12	41.24	-1697.76	-2926.42
			Max. Torque	7			-5.63
L42	55.333 - 52.167	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-146.36	-28.87	-3.15
			Max. Mx	8	-74.17	-3123.45	-5.52
			Max. My	14	-74.20	-10.41	-3075.39
			Max. Vy	20	-40.15	3120.84	7.45
			Max. Vx	12	41.95	-1774.15	-3058.02
			Max. Torque	7			-5.63
L43	52.167 - 51.917	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-146.58	-28.96	-3.11
			Max. Mx	8	-74.32	-3133.46	-5.52
			Max. My	14	-74.35	-10.44	-3085.09
			Max. Vy	20	-40.17	3130.86	7.49
			Max. Vx	12	42.00	-1780.24	-3068.51
			Max. Torque	7			-5.63
L44	51.917 - 46.917	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-151.61	-30.89	-2.46
			Max. Mx	8	-77.47	-3336.19	-5.47
			Max. My	14	-77.50	-11.09	-3281.41
			Max. Vy	22	-41.16	3110.77	1795.93
			Max. Vx	12	43.18	-1903.83	-3281.26
			Max. Torque	7			-5.63
L45	46.917 - 41.917	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-158.00	-32.85	-1.30
			Max. Mx	8	-81.50	-3543.64	-5.03
			Max. My	12	-81.21	-2030.93	-3499.68
			Max. Vy	22	-42.37	3319.11	1916.91
			Max. Vx	12	44.42	-2030.93	-3499.68
			Max. Torque	7			-5.63
L46	41.917 - 40.233	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-160.04	-33.49	-0.91

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	8	-82.79	-3614.56	-4.88
			Max. My	12	-82.51	-2074.52	-3574.61
			Max. Vy	22	-42.77	3390.63	1958.43
			Max. Vx	12	44.83	-2074.52	-3574.61
			Max. Torque	7			-5.63
L47	40.233 - 39.983	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-160.32	-33.58	-0.85
			Max. Mx	8	-82.99	-3625.13	-4.86
			Max. My	12	-82.71	-2081.02	-3585.79
			Max. Vy	22	-42.80	3401.30	1964.62
			Max. Vx	12	44.86	-2081.02	-3585.79
			Max. Torque	7			-5.63
L48	39.983 - 34.983	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-166.04	-35.30	0.37
			Max. Mx	8	-86.71	-3838.74	-4.41
			Max. My	12	-86.46	-2212.62	-3812.18
			Max. Vy	22	-43.86	3617.57	2090.11
			Max. Vx	12	45.93	-2212.62	-3812.18
			Max. Torque	7			-5.63
L49	34.983 - 29.983	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-171.30	-38.40	0.45
			Max. Mx	8	-90.10	-4057.47	-4.48
			Max. My	12	-89.87	-2347.88	-4044.67
			Max. Vy	22	-44.94	3838.73	2218.18
			Max. Vx	12	47.05	-2347.88	-4044.67
			Max. Torque	7			-6.25
L50	29.983 - 28	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-173.03	-39.04	0.66
			Max. Mx	8	-91.19	-4145.19	-4.47
			Max. My	12	-90.97	-2402.14	-4138.25
			Max. Vy	22	-45.28	3927.99	2269.78
			Max. Vx	12	47.42	-2402.14	-4138.25
			Max. Torque	7			-6.25
L51	28 - 27.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-173.27	-39.12	0.69
			Max. Mx	8	-91.37	-4156.29	-4.47
			Max. My	12	-91.15	-2409.01	-4150.09
			Max. Vy	22	-45.30	3939.29	2276.31
			Max. Vx	12	47.43	-2409.01	-4150.09
			Max. Torque	7			-6.25
L52	27.75 - 22.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-179.44	-40.72	1.16
			Max. Mx	8	-95.54	-4380.40	-4.47
			Max. My	12	-95.35	-2547.91	-4389.60
			Max. Vy	22	-46.24	4167.66	2408.35
			Max. Vx	12	48.41	-2547.91	-4389.60
			Max. Torque	7			-6.25
L53	22.75 - 20.083	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-182.73	-41.57	1.40
			Max. Mx	8	-97.80	-4501.53	-4.47
			Max. My	12	-97.63	-2623.13	-4519.31
			Max. Vy	22	-46.74	4291.37	2479.87
			Max. Vx	12	48.92	-2623.13	-4519.31
			Max. Torque	7			-6.25
L54	20.083 - 19.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-183.01	-41.65	1.43
			Max. Mx	8	-98.00	-4512.94	-4.47
			Max. My	12	-97.83	-2630.22	-4531.54
			Max. Vy	22	-46.76	4303.03	2486.61
			Max. Vx	12	48.95	-2630.22	-4531.54
			Max. Torque	7			-6.25
L55	19.833 - 17	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-186.28	-42.59	1.61

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	8	-100.18	-4642.88	-4.47
			Max. My	12	-100.03	-2711.02	-4670.88
			Max. Vy	22	-47.29	4435.96	2563.46
			Max. Vx	12	49.48	-2711.02	-4670.88
			Max. Torque	7			-6.25
L56	17 - 16.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-186.58	-42.68	1.63
			Max. Mx	8	-100.41	-4654.40	-4.47
			Max. My	12	-100.27	-2718.19	-4683.25
			Max. Vy	22	-47.31	4447.76	2570.28
			Max. Vx	12	49.50	-2718.19	-4683.25
			Max. Torque	7			-6.25
L57	16.75 - 11.65	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-192.54	-44.39	1.96
			Max. Mx	20	-104.70	4891.89	14.36
			Max. My	12	-104.59	-2865.81	-4937.87
			Max. Vy	22	-48.21	4690.85	2710.81
			Max. Vx	12	50.40	-2865.81	-4937.87
			Max. Torque	13			6.36
L58	11.65 - 11.417	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-192.76	-44.46	1.98
			Max. Mx	20	-104.86	4902.83	14.40
			Max. My	12	-104.76	-2872.61	-4949.60
			Max. Vy	22	-48.23	4702.06	2717.29
			Max. Vx	12	50.42	-2872.61	-4949.60
			Max. Torque	13			6.37
L59	11.417 - 9.396	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-194.69	-45.08	2.16
			Max. Mx	20	-106.24	4998.04	14.68
			Max. My	12	-106.15	-2931.84	-5051.78
			Max. Vy	22	-48.57	4799.71	2773.74
			Max. Vx	12	50.76	-2931.84	-5051.78
			Max. Torque	13			6.53
L60	9.396 - 9.146	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-194.93	-45.16	2.19
			Max. Mx	20	-106.42	5009.86	14.71
			Max. My	12	-106.34	-2939.19	-5064.47
			Max. Vy	22	-48.60	4811.84	2780.75
			Max. Vx	12	50.78	-2939.19	-5064.47
			Max. Torque	13			6.55
L61	9.146 - 4.833	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-199.12	-46.46	2.63
			Max. Mx	20	-109.47	5214.96	15.32
			Max. My	12	-109.42	-3066.96	-5284.93
			Max. Vy	22	-49.31	5022.60	2902.59
			Max. Vx	12	51.50	-3066.96	-5284.93
			Max. Torque	13			6.89
L62	4.833 - 4.583	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-199.36	-46.54	2.66
			Max. Mx	20	-109.65	5226.92	15.35
			Max. My	12	-109.60	-3074.42	-5297.80
			Max. Vy	22	-49.33	5034.91	2909.70
			Max. Vx	12	51.52	-3074.42	-5297.80
			Max. Torque	13			6.91
L63	4.583 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-202.93	-46.78	2.66
			Max. Mx	20	-112.53	5447.85	15.89
			Max. My	12	-112.53	-3211.50	-5534.94
			Max. Vy	22	-49.81	5261.97	3040.69
			Max. Vx	12	51.99	-3211.50	-5534.94
			Max. Torque	13			6.91

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	202.93	-0.00	-0.00
	Max. H_x	22	112.54	49.78	28.72
	Max. H_z	24	112.54	30.04	51.76
	Max. M_x	24	5515.99	30.04	51.76
	Max. M_z	8	5443.74	-47.77	-0.01
	Max. Torsion	13	6.91	-30.03	-51.96
	Min. Vert	17	84.41	22.97	-39.77
	Min. H_x	10	112.54	-49.48	-28.54
	Min. H_z	12	112.54	-30.03	-51.96
	Min. M_x	12	-5534.94	-30.03	-51.96
	Min. M_z	20	-5447.85	48.49	0.12
	Min. Torsion	25	-6.51	30.04	51.76

Tower Mast Reaction Summary

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	93.79	0.00	0.00	1.04	-8.95	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	112.54	-0.20	-46.76	-5284.72	16.07	2.66
0.9 Dead+1.0 Wind 0 deg - No Ice	84.41	-0.20	-46.76	-5229.02	18.65	2.67
1.2 Dead+1.0 Wind 30 deg - No Ice	112.54	22.97	-39.73	-4608.28	-2675.31	4.97
0.9 Dead+1.0 Wind 30 deg - No Ice	84.41	22.97	-39.73	-4559.68	-2644.16	4.98
1.2 Dead+1.0 Wind 60 deg - No Ice	112.54	39.78	-22.91	-2659.66	-4635.07	6.23
0.9 Dead+1.0 Wind 60 deg - No Ice	84.41	39.78	-22.91	-2631.76	-4583.08	6.24
1.2 Dead+1.0 Wind 90 deg - No Ice	112.54	47.77	0.01	4.48	-5443.74	5.23
0.9 Dead+1.0 Wind 90 deg - No Ice	84.41	47.77	0.01	4.04	-5383.65	5.24
1.2 Dead+1.0 Wind 120 deg - No Ice	112.54	49.48	28.54	3019.16	-5241.81	-3.15
0.9 Dead+1.0 Wind 120 deg - No Ice	84.41	49.48	28.54	2988.18	-5185.96	-3.14
1.2 Dead+1.0 Wind 150 deg - No Ice	112.54	30.03	51.96	5534.94	-3211.50	-6.90
0.9 Dead+1.0 Wind 150 deg - No Ice	84.41	30.03	51.96	5478.52	-3176.24	-6.91
1.2 Dead+1.0 Wind 180 deg - No Ice	112.54	0.03	47.10	5333.86	-16.65	-2.92
0.9 Dead+1.0 Wind 180 deg - No Ice	84.41	0.03	47.10	5276.96	-13.72	-2.92
1.2 Dead+1.0 Wind 210 deg - No Ice	112.54	-22.97	39.77	4519.90	2598.98	-4.99
0.9 Dead+1.0 Wind 210 deg - No Ice	84.41	-22.97	39.77	4471.37	2574.04	-5.01
1.2 Dead+1.0 Wind 240 deg - No Ice	112.54	-40.16	22.93	2597.97	4543.97	-5.97
0.9 Dead+1.0 Wind 240 deg - No Ice	84.41	-40.16	22.93	2569.94	4498.38	-5.98
1.2 Dead+1.0 Wind 270 deg - No Ice	112.54	-48.49	-0.12	-15.89	5447.85	-4.84
0.9 Dead+1.0 Wind 270 deg - No Ice	84.41	-48.49	-0.12	-16.09	5393.26	-4.85
1.2 Dead+1.0 Wind 300 deg - No Ice	112.54	-49.78	-28.72	-3040.69	5261.97	3.14

Load Combination	Vertical K	$Shear_x$ K	$Shear_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
0.9 Dead+1.0 Wind 300 deg - No Ice	84.41	-49.78	-28.72	-3010.25	5211.42	3.14
1.2 Dead+1.0 Wind 330 deg - No Ice	112.54	-30.04	-51.76	-5515.99	3196.21	6.51
0.9 Dead+1.0 Wind 330 deg - No Ice	84.41	-30.04	-51.76	-5460.45	3166.56	6.51
1.2 Dead+1.0 Ice+1.0 Temp	202.93	0.00	0.00	-2.66	-46.78	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	202.93	-0.07	-12.31	-1658.65	-38.82	0.85
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	202.93	6.00	-10.44	-1418.99	-860.68	1.78
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	202.93	10.41	-6.02	-820.19	-1459.50	2.28
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	202.93	12.45	-0.00	-2.65	-1713.65	2.03
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	202.93	12.38	7.16	892.50	-1592.00	-0.02
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	202.93	7.41	12.87	1597.62	-967.83	-1.41
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	202.93	0.00	12.29	1651.68	-47.73	-0.96
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	202.93	-6.00	10.43	1412.38	766.25	-1.77
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	202.93	-10.49	5.99	809.88	1371.13	-2.18
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	202.93	-12.51	-0.04	-7.97	1623.66	-1.83
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	202.93	-12.39	-7.17	-899.12	1499.42	0.05
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	202.93	-7.44	-12.84	-1600.34	877.71	1.25
Dead+Wind 0 deg - Service	93.79	-0.04	-10.15	-1138.88	-3.32	0.58
Dead+Wind 30 deg - Service	93.79	4.99	-8.63	-992.99	-583.74	1.09
Dead+Wind 60 deg - Service	93.79	8.64	-4.97	-572.75	-1006.37	1.37
Dead+Wind 90 deg - Service	93.79	10.37	0.00	1.79	-1180.83	1.15
Dead+Wind 120 deg - Service	93.79	10.74	6.20	652.12	-1137.57	-0.67
Dead+Wind 150 deg - Service	93.79	6.52	11.28	1194.90	-699.62	-1.50
Dead+Wind 180 deg - Service	93.79	0.01	10.23	1151.13	-10.37	-0.64
Dead+Wind 210 deg - Service	93.79	-4.99	8.63	975.55	553.69	-1.10
Dead+Wind 240 deg - Service	93.79	-8.72	4.98	561.09	973.14	-1.31
Dead+Wind 270 deg - Service	93.79	-10.53	-0.03	-2.60	1168.16	-1.07
Dead+Wind 300 deg - Service	93.79	-10.81	-6.23	-655.13	1128.36	0.67
Dead+Wind 330 deg - Service	93.79	-6.52	-11.24	-1189.16	682.74	1.41

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
1	0.00	-93.79	0.00	-0.00	93.79	-0.00	0.000%
2	-0.20	-112.54	-46.76	0.20	112.54	46.76	0.000%
3	-0.20	-84.41	-46.76	0.20	84.41	46.76	0.000%
4	22.97	-112.54	-39.73	-22.97	112.54	39.73	0.000%
5	22.97	-84.41	-39.73	-22.97	84.41	39.73	0.000%
6	39.78	-112.54	-22.91	-39.78	112.54	22.91	0.000%
7	39.78	-84.41	-22.91	-39.78	84.41	22.91	0.000%
8	47.77	-112.54	0.01	-47.77	112.54	-0.01	0.000%
9	47.77	-84.41	0.01	-47.77	84.41	-0.01	0.000%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
10	49.48	-112.54	28.54	-49.48	112.54	-28.54	0.000%
11	49.48	-84.41	28.54	-49.48	84.41	-28.54	0.000%
12	30.03	-112.54	51.96	-30.03	112.54	-51.96	0.000%
13	30.03	-84.41	51.96	-30.03	84.41	-51.96	0.000%
14	0.03	-112.54	47.10	-0.03	112.54	-47.10	0.000%
15	0.03	-84.41	47.10	-0.03	84.41	-47.10	0.000%
16	-22.97	-112.54	39.77	22.97	112.54	-39.77	0.000%
17	-22.97	-84.41	39.77	22.97	84.41	-39.77	0.000%
18	-40.16	-112.54	22.93	40.16	112.54	-22.93	0.000%
19	-40.16	-84.41	22.93	40.16	84.41	-22.93	0.000%
20	-48.49	-112.54	-0.12	48.49	112.54	0.12	0.000%
21	-48.49	-84.41	-0.12	48.49	84.41	0.12	0.000%
22	-49.78	-112.54	-28.72	49.78	112.54	28.72	0.000%
23	-49.78	-84.41	-28.72	49.78	84.41	28.72	0.000%
24	-30.04	-112.54	-51.76	30.04	112.54	51.76	0.000%
25	-30.04	-84.41	-51.76	30.04	84.41	51.76	0.000%
26	0.00	-202.93	0.00	-0.00	202.93	-0.00	0.000%
27	-0.07	-202.93	-12.31	0.07	202.93	12.31	0.000%
28	6.00	-202.93	-10.44	-6.00	202.93	10.44	0.000%
29	10.41	-202.93	-6.02	-10.41	202.93	6.02	0.000%
30	12.45	-202.93	-0.00	-12.45	202.93	0.00	0.000%
31	12.38	-202.93	7.16	-12.38	202.93	-7.16	0.000%
32	7.41	-202.93	12.87	-7.41	202.93	-12.87	0.000%
33	0.00	-202.93	12.29	-0.00	202.93	-12.29	0.000%
34	-6.00	-202.93	10.43	6.00	202.93	-10.43	0.000%
35	-10.49	-202.93	5.99	10.49	202.93	-5.99	0.000%
36	-12.51	-202.93	-0.04	12.51	202.93	0.04	0.000%
37	-12.39	-202.93	-7.17	12.39	202.93	7.17	0.000%
38	-7.44	-202.93	-12.84	7.44	202.93	12.84	0.000%
39	-0.04	-93.79	-10.15	0.04	93.79	10.15	0.000%
40	4.99	-93.79	-8.63	-4.99	93.79	8.63	0.000%
41	8.64	-93.79	-4.97	-8.64	93.79	4.97	0.000%
42	10.37	-93.79	0.00	-10.37	93.79	-0.00	0.000%
43	10.74	-93.79	6.20	-10.74	93.79	-6.20	0.000%
44	6.52	-93.79	11.28	-6.52	93.79	-11.28	0.000%
45	0.01	-93.79	10.23	-0.01	93.79	-10.23	0.000%
46	-4.99	-93.79	8.63	4.99	93.79	-8.63	0.000%
47	-8.72	-93.79	4.98	8.72	93.79	-4.98	0.000%
48	-10.53	-93.79	-0.03	10.53	93.79	0.03	0.000%
49	-10.81	-93.79	-6.23	10.81	93.79	6.23	0.000%
50	-6.52	-93.79	-11.24	6.52	93.79	11.24	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000745
2	Yes	5	0.00000001	0.00070003
3	Yes	5	0.00000001	0.00033981
4	Yes	6	0.00000001	0.00047648
5	Yes	6	0.00000001	0.00017425
6	Yes	6	0.00000001	0.00040985
7	Yes	6	0.00000001	0.00014802
8	Yes	6	0.00000001	0.00006474
9	Yes	5	0.00000001	0.00057366
10	Yes	6	0.00000001	0.00051131
11	Yes	6	0.00000001	0.00018157
12	Yes	6	0.00000001	0.00061851
13	Yes	6	0.00000001	0.00021786
14	Yes	5	0.00000001	0.00085372
15	Yes	5	0.00000001	0.00042039
16	Yes	6	0.00000001	0.00039324
17	Yes	6	0.00000001	0.00014272
18	Yes	6	0.00000001	0.00046221
19	Yes	6	0.00000001	0.00016979
20	Yes	5	0.00000001	0.00098577
21	Yes	5	0.00000001	0.00049482
22	Yes	6	0.00000001	0.00052187
23	Yes	6	0.00000001	0.00018575
24	Yes	6	0.00000001	0.00055858
25	Yes	6	0.00000001	0.00019591
26	Yes	5	0.00000001	0.00034400
27	Yes	7	0.00000001	0.00021133
28	Yes	7	0.00000001	0.00023833
29	Yes	7	0.00000001	0.00023737
30	Yes	7	0.00000001	0.00021903
31	Yes	7	0.00000001	0.00025327
32	Yes	7	0.00000001	0.00026143
33	Yes	7	0.00000001	0.00021520
34	Yes	7	0.00000001	0.00023012
35	Yes	7	0.00000001	0.00023068
36	Yes	7	0.00000001	0.00020793
37	Yes	7	0.00000001	0.00023819
38	Yes	7	0.00000001	0.00024616
39	Yes	5	0.00000001	0.00005896
40	Yes	5	0.00000001	0.00013036
41	Yes	5	0.00000001	0.00010632
42	Yes	5	0.00000001	0.00006959
43	Yes	5	0.00000001	0.00012853
44	Yes	5	0.00000001	0.00016528
45	Yes	5	0.00000001	0.00006159
46	Yes	5	0.00000001	0.00010095
47	Yes	5	0.00000001	0.00012885
48	Yes	5	0.00000001	0.00006635
49	Yes	5	0.00000001	0.00012828
50	Yes	5	0.00000001	0.00013387

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	191.667 - 186.667	21.854	44	1.0410	0.0055
L2	186.667 - 181.567	20.765	44	1.0397	0.0051
L3	181.567 - 176.567	19.655	44	1.0384	0.0050
L4	176.567 - 171.567	18.569	44	1.0352	0.0048

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L5	171.567 - 166.567	17.488	44	1.0277	0.0046
L6	166.567 - 161.567	16.418	44	1.0149	0.0045
L7	161.567 - 156.567	15.366	44	0.9947	0.0044
L8	156.567 - 151.567	14.338	44	0.9660	0.0042
L9	151.567 - 146.567	13.346	44	0.9263	0.0038
L10	146.567 - 141.567	12.403	44	0.8732	0.0033
L11	141.567 - 141.417	11.524	44	0.8038	0.0028
L12	141.417 - 136.417	11.498	44	0.8015	0.0028
L13	136.417 - 131.417	10.672	44	0.7762	0.0027
L14	131.417 - 126.417	9.875	44	0.7460	0.0025
L15	126.417 - 121.417	9.112	44	0.7104	0.0023
L16	121.417 - 121.167	8.389	44	0.6695	0.0020
L17	121.167 - 116.167	8.354	44	0.6673	0.0020
L18	116.167 - 111.167	7.670	44	0.6380	0.0018
L19	111.167 - 110.042	7.019	44	0.6047	0.0016
L20	110.042 - 109.792	6.877	44	0.5965	0.0015
L21	109.792 - 105.083	6.846	44	0.5951	0.0015
L22	105.083 - 104.833	6.273	44	0.5668	0.0014
L23	104.833 - 100.917	6.243	44	0.5654	0.0014
L24	100.917 - 100.667	5.789	44	0.5426	0.0013
L25	100.667 - 95.833	5.761	44	0.5411	0.0013
L26	95.833 - 95.583	5.228	44	0.5104	0.0011
L27	95.583 - 90.583	5.201	44	0.5091	0.0011
L28	90.583 - 89.917	4.683	44	0.4812	0.0010
L29	89.917 - 89.667	4.616	44	0.4772	0.0010
L30	89.667 - 84.667	4.591	44	0.4760	0.0010
L31	84.667 - 80.833	4.106	44	0.4500	0.0009
L32	80.833 - 80.333	3.753	44	0.4285	0.0008
L33	80.333 - 80.083	3.708	44	0.4264	0.0008
L34	80.083 - 75.083	3.686	44	0.4252	0.0008
L35	75.083 - 70.083	3.254	44	0.3999	0.0007
L36	70.083 - 69.5	2.849	44	0.3726	0.0007
L37	69.5 - 69.25	2.804	44	0.3693	0.0007
L38	69.25 - 64.25	2.784	44	0.3681	0.0007
L39	64.25 - 60.583	2.412	44	0.3431	0.0006
L40	60.583 - 60.333	2.156	44	0.3235	0.0005
L41	60.333 - 55.333	2.139	44	0.3223	0.0005
L42	55.333 - 52.167	1.814	44	0.2986	0.0005
L43	52.167 - 51.917	1.621	44	0.2827	0.0005
L44	51.917 - 46.917	1.606	44	0.2817	0.0005
L45	46.917 - 41.917	1.323	44	0.2597	0.0004
L46	41.917 - 40.233	1.063	44	0.2362	0.0004
L47	40.233 - 39.983	0.981	44	0.2276	0.0004
L48	39.983 - 34.983	0.969	44	0.2264	0.0004
L49	34.983 - 29.983	0.746	44	0.1997	0.0003
L50	29.983 - 28	0.551	44	0.1715	0.0003
L51	28 - 27.75	0.483	44	0.1598	0.0002
L52	27.75 - 22.75	0.474	44	0.1585	0.0002
L53	22.75 - 20.083	0.322	44	0.1329	0.0002

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L54	20.083 - 19.833	0.251	44	0.1187	0.0002
L55	19.833 - 17	0.245	44	0.1171	0.0002
L56	17 - 16.75	0.181	44	0.0991	0.0001
L57	16.75 - 11.65	0.176	44	0.0977	0.0001
L58	11.65 - 11.417	0.086	44	0.0692	0.0001
L59	11.417 - 9.396	0.083	44	0.0678	0.0001
L60	9.396 - 9.146	0.057	44	0.0561	0.0001
L61	9.146 - 4.833	0.054	44	0.0547	0.0001
L62	4.833 - 4.583	0.015	44	0.0304	0.0000
L63	4.583 - 0	0.014	44	0.0288	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
192.00	OGB4-900D	44	21.854	1.0410	0.0055	213149
191.67	Lightning Rod 5/8" x 4' on 4' Pole	44	21.854	1.0410	0.0055	213149
191.00	DB589-A	44	21.709	1.0408	0.0054	213149
181.00	AIR -32 B2A/B66AA w/ Mount Pipe	44	19.531	1.0382	0.0049	130385
178.00	4' ICE SHIELDS	44	18.880	1.0365	0.0049	69109
171.00	MX08FRO665-21 w/ Mount Pipe	44	17.366	1.0266	0.0046	27069
160.00	(2) NNHH-65B-R4 w/ Mount Pipe	44	15.040	0.9867	0.0043	10600
158.00	SRL-224NM-4	44	14.629	0.9753	0.0043	9224
151.00	SBNH-1D6565C w/ Mount Pipe	44	13.237	0.9210	0.0037	6026
150.00	RRUS 11	44	13.045	0.9112	0.0036	5684
138.00	4' ICE SHIELDS	44	10.931	0.7790	0.0027	9903
132.00	SRL-235-2	44	9.966	0.7503	0.0026	8884
124.00	PCS 1900 TMA RX	44	8.757	0.6915	0.0021	7303
120.00	VHLP2-18	44	8.191	0.6585	0.0019	8660
116.00	844G65VTZAS w/ Mount Pipe	44	7.648	0.6371	0.0018	9127
98.00	4' ICE SHIELDS	44	5.463	0.5237	0.0012	9313
90.00	KP2F-34	44	4.624	0.4777	0.0010	10556
70.00	SRL-235-2	44	2.842	0.3721	0.0007	10803
33.00	DB909XVTE-M	44	0.665	0.1889	0.0003	10191

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	191.667 - 186.667	100.837	12	4.8007	0.0253
L2	186.667 - 181.567	95.822	12	4.7963	0.0237
L3	181.567 - 176.567	90.712	12	4.7915	0.0229
L4	176.567 - 171.567	85.710	12	4.7773	0.0222
L5	171.567 - 166.567	80.733	12	4.7436	0.0215
L6	166.567 - 161.567	75.804	12	4.6844	0.0209
L7	161.567 - 156.567	70.953	12	4.5911	0.0203
L8	156.567 - 151.567	66.219	12	4.4591	0.0192
L9	151.567 - 146.567	61.649	12	4.2764	0.0174
L10	146.567 - 141.567	57.298	12	4.0324	0.0153

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L11	141.567 - 141.417	53.242	12	3.7131	0.0131
L12	141.417 - 136.417	53.125	12	3.7023	0.0130
L13	136.417 - 131.417	49.312	12	3.5859	0.0123
L14	131.417 - 126.417	45.632	12	3.4464	0.0116
L15	126.417 - 121.417	42.110	12	3.2827	0.0104
L16	121.417 - 121.167	38.772	12	3.0942	0.0091
L17	121.167 - 116.167	38.610	12	3.0842	0.0090
L18	116.167 - 111.167	35.453	12	2.9490	0.0082
L19	111.167 - 110.042	32.445	12	2.7952	0.0073
L20	110.042 - 109.792	31.792	12	2.7578	0.0070
L21	109.792 - 105.083	31.648	12	2.7513	0.0070
L22	105.083 - 104.833	28.999	12	2.6204	0.0063
L23	104.833 - 100.917	28.862	12	2.6140	0.0063
L24	100.917 - 100.667	26.762	12	2.5088	0.0058
L25	100.667 - 95.833	26.631	12	2.5019	0.0058
L26	95.833 - 95.583	24.170	12	2.3603	0.0052
L27	95.583 - 90.583	24.047	12	2.3542	0.0052
L28	90.583 - 89.917	21.649	12	2.2251	0.0047
L29	89.917 - 89.667	21.340	12	2.2070	0.0046
L30	89.667 - 84.667	21.225	12	2.2012	0.0046
L31	84.667 - 80.833	18.982	12	2.0812	0.0041
L32	80.833 - 80.333	17.351	12	1.9816	0.0038
L33	80.333 - 80.083	17.144	12	1.9717	0.0038
L34	80.083 - 75.083	17.041	12	1.9662	0.0038
L35	75.083 - 70.083	15.043	12	1.8496	0.0034
L36	70.083 - 69.5	13.172	12	1.7231	0.0031
L37	69.5 - 69.25	12.963	12	1.7077	0.0030
L38	69.25 - 64.25	12.874	12	1.7021	0.0030
L39	64.25 - 60.583	11.151	12	1.5865	0.0027
L40	60.583 - 60.333	9.968	12	1.4959	0.0025
L41	60.333 - 55.333	9.890	12	1.4906	0.0025
L42	55.333 - 52.167	8.386	12	1.3810	0.0022
L43	52.167 - 51.917	7.494	12	1.3074	0.0021
L44	51.917 - 46.917	7.426	12	1.3025	0.0021
L45	46.917 - 41.917	6.115	12	1.2009	0.0019
L46	41.917 - 40.233	4.914	12	1.0924	0.0017
L47	40.233 - 39.983	4.535	12	1.0527	0.0016
L48	39.983 - 34.983	4.480	12	1.0468	0.0016
L49	34.983 - 29.983	3.448	12	0.9236	0.0014
L50	29.983 - 28	2.549	12	0.7928	0.0012
L51	28 - 27.75	2.231	12	0.7387	0.0011
L52	27.75 - 22.75	2.192	12	0.7330	0.0011
L53	22.75 - 20.083	1.486	12	0.6146	0.0009
L54	20.083 - 19.833	1.161	12	0.5487	0.0008
L55	19.833 - 17	1.133	12	0.5414	0.0008
L56	17 - 16.75	0.836	12	0.4580	0.0006
L57	16.75 - 11.65	0.812	12	0.4515	0.0006
L58	11.65 - 11.417	0.400	12	0.3198	0.0004
L59	11.417 - 9.396	0.384	12	0.3136	0.0004
L60	9.396 - 9.146	0.263	12	0.2593	0.0004
L61	9.146 - 4.833	0.250	12	0.2530	0.0003
L62	4.833 - 4.583	0.072	12	0.1404	0.0002
L63	4.583 - 0	0.064	12	0.1333	0.0002

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
192.00	OGB4-900D	12	100.837	4.8007	0.0253	61365
191.67	Lightning Rod 5/8" x 4' on 4' Pole	12	100.837	4.8007	0.0253	61365
191.00	DB589-A	12	100.168	4.8000	0.0250	61365
181.00	AIR -32 B2A/B66AA w/ Mount Pipe	12	90.144	4.7906	0.0229	31272
178.00	4' ICE SHIELDS	12	87.142	4.7831	0.0224	15821
171.00	MX08FRO665-21 w/ Mount Pipe	12	80.171	4.7384	0.0214	6003
160.00	(2) NNHH-65B-R4 w/ Mount Pipe	12	69.455	4.5543	0.0200	2331
158.00	SRL-224NM-4	12	67.561	4.5015	0.0196	2033
151.00	SBNH-1D6565C w/ Mount Pipe	12	61.143	4.2520	0.0171	1327
150.00	RRUS 11	12	60.258	4.2071	0.0167	1252
138.00	4' ICE SHIELDS	12	50.506	3.5987	0.0124	2167
132.00	SRL-235-2	12	46.053	3.4663	0.0118	1944
124.00	PCS 1900 TMA RX	12	40.472	3.1956	0.0097	1596
120.00	VHLP2-18	12	37.861	3.0434	0.0088	1890
116.00	844G65VTZAS w/ Mount Pipe	12	35.350	2.9449	0.0081	1991
98.00	4' ICE SHIELDS	12	25.256	2.4215	0.0054	2025
90.00	KP2F-34	12	21.378	2.2090	0.0046	2292
70.00	SRL-235-2	12	13.142	1.7208	0.0031	2340
33.00	DB909XVTE-M	12	3.075	0.8736	0.0013	2204

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L1	191.667 - 186.667 (1)	P18x0.375	5.00	0.00	0.0	20.764 0	-0.70	784.88	0.001
L2	186.667 - 181.567 (2)	P24x0.375	5.10	0.00	0.0	27.832 5	-1.33	1052.07	0.001
L3	181.567 - 176.567 (3)	P24x0.375	5.00	0.00	0.0	27.832 5	-6.43	1052.07	0.006
L4	176.567 - 171.567 (4)	P24x0.375	5.00	0.00	0.0	27.832 5	-7.08	1052.07	0.007
L5	171.567 - 166.567 (5)	P24x0.375	5.00	0.00	0.0	27.832 5	-10.71	1052.07	0.010
L6	166.567 - 161.567 (6)	P24x0.375	5.00	0.00	0.0	27.832 5	-11.39	1052.07	0.011
L7	161.567 - 156.567 (7)	P24x0.375	5.00	0.00	0.0	27.832 5	-15.33	1052.07	0.015
L8	156.567 - 151.567 (8)	P24x0.375	5.00	0.00	0.0	27.832 5	-16.06	1052.07	0.015
L9	151.567 - 146.567 (9)	P24x0.375	5.00	0.00	0.0	27.832 5	-21.00	1052.07	0.020
L10	146.567 - 141.567 (10)	P24x0.375	5.00	0.00	0.0	27.832 5	-21.85	1052.07	0.021
L11	141.567 - 141.417 (11)	P24x0.375	0.15	0.00	0.0	27.832 5	-21.88	1052.07	0.021
L12	141.417 - 136.417 (12)	P36x0.375	5.00	0.00	0.0	41.969 7	-23.00	1490.10	0.015
L13	136.417 - 131.417 (13)	P36x0.375	5.00	0.00	0.0	41.969 7	-24.57	1490.10	0.016
L14	131.417 - 126.417 (14)	P36x0.375	5.00	0.00	0.0	41.969 7	-25.73	1490.10	0.017
L15	126.417 - 121.417 (15)	P36x0.375	5.00	0.00	0.0	41.969 7	-27.92	1490.10	0.019

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L16	121.417 - 121.167 (16)	P36x0.375	0.25	0.00	0.0	41.969 7	-28.00	1490.10	0.019
L17	121.167 - 116.167 (17)	P42x0.375	5.00	0.00	0.0	49.038 3	-29.45	1668.87	0.018
L18	116.167 - 111.167 (18)	P42x0.375	5.00	0.00	0.0	49.038 3	-34.51	1668.87	0.021
L19	111.167 - 110.042 (19)	P42x0.375	1.13	0.00	0.0	49.038 3	-34.83	1668.87	0.021
L20	110.042 - 109.792 (20)	P42x0.4875	0.25	0.00	0.0	63.577 5	-34.92	2332.13	0.015
L21	109.792 - 105.083 (21)	P42x0.4875	4.71	0.00	0.0	63.577 5	-36.60	2332.13	0.016
L22	105.083 - 104.833 (22)	P42x0.5625	0.25	0.00	0.0	73.226 1	-36.72	2767.95	0.013
L23	104.833 - 100.917 (23)	P42x0.5625	3.92	0.00	0.0	73.226 1	-39.17	2767.95	0.014
L24	100.917 - 100.667 (24)	P48x0.375	0.25	0.00	0.0	56.106 9	-39.29	1847.49	0.021
L25	100.667 - 95.833 (25)	P48x0.375	4.83	0.00	0.0	56.106 9	-41.16	1847.49	0.022
L26	95.833 - 95.583 (26)	P48x0.475	0.25	0.00	0.0	70.919 5	-41.27	2481.39	0.017
L27	95.583 - 90.583 (27)	P48x0.475	5.00	0.00	0.0	70.919 5	-43.09	2481.39	0.017
L28	90.583 - 89.917 (28)	P48x0.475	0.67	0.00	0.0	70.919 5	-43.51	2481.39	0.018
L29	89.917 - 89.667 (29)	P48x0.575	0.25	0.00	0.0	85.669 3	-43.62	3174.02	0.014
L30	89.667 - 84.667 (30)	P48x0.575	5.00	0.00	0.0	85.669 3	-46.51	3174.02	0.015
L31	84.667 - 80.833 (31)	P48x0.575	3.83	0.00	0.0	85.669 3	-49.72	3174.02	0.016
L32	80.833 - 80.333 (32)	P54x0.55	0.50	0.00	0.0	92.355 0	-50.11	3257.83	0.015
L33	80.333 - 80.083 (33)	P54x0.4875	0.25	0.00	0.0	81.955 8	-50.25	2797.17	0.018
L34	80.083 - 75.083 (34)	P54x0.4875	5.00	0.00	0.0	81.955 8	-52.78	2797.17	0.019
L35	75.083 - 70.083 (35)	P54x0.4875	5.00	0.00	0.0	81.955 8	-55.75	2797.17	0.020
L36	70.083 - 69.5 (36)	P54x0.4875	0.58	0.00	0.0	81.955 8	-56.42	2797.17	0.020
L37	69.5 - 69.25 (37)	P54x0.5875	0.25	0.00	0.0	98.582 7	-56.61	3545.23	0.016
L38	69.25 - 64.25 (38)	P54x0.5875	5.00	0.00	0.0	98.582 7	-63.03	3545.23	0.018
L39	64.25 - 60.583 (39)	P54x0.5875	3.67	0.00	0.0	98.582 7	-68.26	3545.23	0.019
L40	60.583 - 60.333 (40)	P60x0.5125	0.25	0.00	0.0	95.778 8	-68.47	3222.89	0.021
L41	60.333 - 55.333 (41)	P60x0.5125	5.00	0.00	0.0	95.778 8	-72.31	3222.89	0.022
L42	55.333 - 52.167 (42)	P60x0.5125	3.17	0.00	0.0	95.778 8	-73.85	3222.89	0.023
L43	52.167 - 51.917 (43)	P60x0.625	0.25	0.00	0.0	116.58 30	-74.00	4139.15	0.018
L44	51.917 - 46.917 (44)	P60x0.625	5.00	0.00	0.0	116.58 30	-77.17	4139.15	0.019
L45	46.917 - 41.917 (45)	P60x0.625	5.00	0.00	0.0	116.58 30	-81.21	4139.15	0.020
L46	41.917 - 40.233 (46)	P60x0.6	1.68	0.00	0.0	111.96 60	-82.51	3929.11	0.021
L47	40.233 - 39.983 (47)	P60x0.6	0.25	0.00	0.0	111.96 60	-82.71	3929.11	0.021
L48	39.983 - 34.983 (48)	P60x0.6	5.00	0.00	0.0	111.96 60	-86.46	3929.11	0.022
L49	34.983 - 29.983 (49)	P60x0.6	5.00	0.00	0.0	111.96 60	-89.87	3929.11	0.023

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
L50	29.983 - 28 (50)	P60x0.6	1.98	0.00	0.0	111.96 60	-90.97	3929.11	0.023
L51	28 - 27.75 (51)	P60x0.725	0.25	0.00	0.0	135.00 80	-91.15	5015.91	0.018
L52	27.75 - 22.75 (52)	P60x0.725	5.00	0.00	0.0	135.00 80	-95.35	5015.91	0.019
L53	22.75 - 20.083 (53)	P60x0.725	2.67	0.00	0.0	135.00 80	-97.63	5015.91	0.019
L54	20.083 - 19.833 (54)	P60x0.625	0.25	0.00	0.0	116.58 30	-97.83	4139.15	0.024
L55	19.833 - 17 (55)	P60x0.625	2.83	0.00	0.0	116.58 30	-100.03	4139.15	0.024
L56	17 - 16.75 (56)	P60x0.725	0.25	0.00	0.0	135.00 80	-100.27	5015.91	0.020
L57	16.75 - 11.65 (57)	P60x0.75	5.10	0.00	0.0	139.60 50	-104.59	5244.23	0.020
L58	11.65 - 11.417 (58)	P60x0.75	0.23	0.00	0.0	139.60 50	-104.76	5244.23	0.020
L59	11.417 - 9.396 (59)	P60x0.75	2.02	0.00	0.0	139.60 50	-106.15	5244.23	0.020
L60	9.396 - 9.146 (60)	P60x0.8	0.25	0.00	0.0	148.78 60	-106.34	5624.10	0.019
L61	9.146 - 4.833 (61)	P60x0.8	4.31	0.00	0.0	148.78 60	-109.42	5624.10	0.019
L62	4.833 - 4.583 (62)	P60x0.75	0.25	0.00	0.0	139.60 50	-109.61	5244.23	0.021
L63	4.583 - 0 (63)	P60x0.75	4.58	0.00	0.0	139.60 50	-112.53	5244.23	0.021

Pole Bending Design Data

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L1	191.667 - 186.667 (1)	P18x0.375	4.19	367.00	0.011	0.00	367.00	0.000
L2	186.667 - 181.567 (2)	P24x0.375	8.72	623.72	0.014	0.00	623.72	0.000
L3	181.567 - 176.567 (3)	P24x0.375	32.31	623.72	0.052	0.00	623.72	0.000
L4	176.567 - 171.567 (4)	P24x0.375	60.01	623.72	0.096	0.00	623.72	0.000
L5	171.567 - 166.567 (5)	P24x0.375	103.83	623.72	0.166	0.00	623.72	0.000
L6	166.567 - 161.567 (6)	P24x0.375	151.19	623.72	0.242	0.00	623.72	0.000
L7	161.567 - 156.567 (7)	P24x0.375	213.99	623.72	0.343	0.00	623.72	0.000
L8	156.567 - 151.567 (8)	P24x0.375	285.48	623.72	0.458	0.00	623.72	0.000
L9	151.567 - 146.567 (9)	P24x0.375	384.02	623.72	0.616	0.00	623.72	0.000
L10	146.567 - 141.567 (10)	P24x0.375	488.37	623.72	0.783	0.00	623.72	0.000
L11	141.567 - 141.417 (11)	P24x0.375	491.54	623.72	0.788	0.00	623.72	0.000
L12	141.417 - 136.417 (12)	P36x0.375	598.61	1338.81	0.447	0.00	1338.81	0.000
L13	136.417 - 131.417 (13)	P36x0.375	709.41	1338.81	0.530	0.00	1338.81	0.000
L14	131.417 - 126.417 (14)	P36x0.375	823.59	1338.81	0.615	0.00	1338.81	0.000
L15	126.417 - 121.417 (15)	P36x0.375	941.57	1338.81	0.703	0.00	1338.81	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L16	121.417 - 121.167 (16)	P36x0.375	947.61	1338.81	0.708	0.00	1338.81	0.000
L17	121.167 - 116.167 (17)	P42x0.375	1070.42	1796.56	0.596	0.00	1796.56	0.000
L18	116.167 - 111.167 (18)	P42x0.375	1223.33	1796.56	0.681	0.00	1796.56	0.000
L19	111.167 - 110.042 (19)	P42x0.375	1257.56	1796.56	0.700	0.00	1796.56	0.000
L20	110.042 - 109.792 (20)	P42x0.4875	1265.21	2395.43	0.528	0.00	2395.43	0.000
L21	109.792 - 105.083 (21)	P42x0.4875	1412.43	2395.43	0.590	0.00	2395.43	0.000
L22	105.083 - 104.833 (22)	P42x0.5625	1420.41	2809.31	0.506	0.00	2809.31	0.000
L23	104.833 - 100.917 (23)	P42x0.5625	1547.93	2809.31	0.551	0.00	2809.31	0.000
L24	100.917 - 100.667 (24)	P48x0.375	1556.23	2321.11	0.670	0.00	2321.11	0.000
L25	100.667 - 95.833 (25)	P48x0.375	1720.33	2321.11	0.741	0.00	2321.11	0.000
L26	95.833 - 95.583 (26)	P48x0.475	1729.00	2999.96	0.576	0.00	2999.96	0.000
L27	95.583 - 90.583 (27)	P48x0.475	1906.08	2999.96	0.635	0.00	2999.96	0.000
L28	90.583 - 89.917 (28)	P48x0.475	1930.65	2999.96	0.644	0.00	2999.96	0.000
L29	89.917 - 89.667 (29)	P48x0.575	1939.79	3702.97	0.524	0.00	3702.97	0.000
L30	89.667 - 84.667 (30)	P48x0.575	2126.43	3702.97	0.574	0.00	3702.97	0.000
L31	84.667 - 80.833 (31)	P48x0.575	2274.61	3702.97	0.614	0.00	3702.97	0.000
L32	80.833 - 80.333 (32)	P54x0.55	2294.28	4408.41	0.520	0.00	4408.41	0.000
L33	80.333 - 80.083 (33)	P54x0.4875	2304.15	3864.47	0.596	0.00	3864.47	0.000
L34	80.083 - 75.083 (34)	P54x0.4875	2505.38	3864.47	0.648	0.00	3864.47	0.000
L35	75.083 - 70.083 (35)	P54x0.4875	2713.90	3864.47	0.702	0.00	3864.47	0.000
L36	70.083 - 69.5 (36)	P54x0.4875	2738.93	3864.47	0.709	0.00	3864.47	0.000
L37	69.5 - 69.25 (37)	P54x0.5875	2749.71	4739.87	0.580	0.00	4739.87	0.000
L38	69.25 - 64.25 (38)	P54x0.5875	2970.01	4739.87	0.627	0.00	4739.87	0.000
L39	64.25 - 60.583 (39)	P54x0.5875	3137.00	4739.87	0.662	0.00	4739.87	0.000
L40	60.583 - 60.333 (40)	P60x0.5125	3148.53	4992.04	0.631	0.00	4992.04	0.000
L41	60.333 - 55.333 (41)	P60x0.5125	3383.24	4992.04	0.678	0.00	4992.04	0.000
L42	55.333 - 52.167 (42)	P60x0.5125	3535.41	4992.04	0.708	0.00	4992.04	0.000
L43	52.167 - 51.917 (43)	P60x0.625	3547.53	6198.18	0.572	0.00	6198.18	0.000
L44	51.917 - 46.917 (44)	P60x0.625	3793.58	6198.18	0.612	0.00	6198.18	0.000
L45	46.917 - 41.917 (45)	P60x0.625	4046.28	6198.18	0.653	0.00	6198.18	0.000
L46	41.917 - 40.233 (46)	P60x0.6	4132.98	5926.84	0.697	0.00	5926.84	0.000
L47	40.233 - 39.983 (47)	P60x0.6	4145.91	5926.84	0.700	0.00	5926.84	0.000
L48	39.983 - 34.983 (48)	P60x0.6	4407.77	5926.84	0.744	0.00	5926.84	0.000
L49	34.983 - 29.983 (49)	P60x0.6	4676.74	5926.84	0.789	0.00	5926.84	0.000

Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{nx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} kip-ft	ϕM_{ny} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L50	29.983 - 28 (50)	P60x0.6	4784.91	5926.84	0.807	0.00	5926.84	0.000
L51	28 - 27.75 (51)	P60x0.725	4798.60	7302.23	0.657	0.00	7302.23	0.000
L52	27.75 - 22.75 (52)	P60x0.725	5075.48	7302.23	0.695	0.00	7302.23	0.000
L53	22.75 - 20.083 (53)	P60x0.725	5225.42	7302.23	0.716	0.00	7302.23	0.000
L54	20.083 - 19.833 (54)	P60x0.625	5239.55	6198.18	0.845	0.00	6198.18	0.000
L55	19.833 - 17 (55)	P60x0.625	5400.63	6198.18	0.871	0.00	6198.18	0.000
L56	17 - 16.75 (56)	P60x0.725	5414.93	7302.23	0.742	0.00	7302.23	0.000
L57	16.75 - 11.65 (57)	P60x0.75	5709.23	7582.87	0.753	0.00	7582.87	0.000
L58	11.65 - 11.417 (58)	P60x0.75	5722.80	7582.87	0.755	0.00	7582.87	0.000
L59	11.417 - 9.396 (59)	P60x0.75	5840.91	7582.87	0.770	0.00	7582.87	0.000
L60	9.396 - 9.146 (60)	P60x0.8	5855.57	8149.65	0.719	0.00	8149.65	0.000
L61	9.146 - 4.833 (61)	P60x0.8	6110.37	8149.65	0.750	0.00	8149.65	0.000
L62	4.833 - 4.583 (62)	P60x0.75	6125.25	7582.87	0.808	0.00	7582.87	0.000
L63	4.583 - 0 (63)	P60x0.75	6399.17	7582.87	0.844	0.00	7582.87	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	191.667 - 186.667 (1)	P18x0.375	0.71	235.46	0.003	0.13	364.87	0.000
L2	186.667 - 181.567 (2)	P24x0.375	1.05	315.62	0.003	0.13	655.57	0.000
L3	181.567 - 176.567 (3)	P24x0.375	5.37	315.62	0.017	0.15	655.57	0.000
L4	176.567 - 171.567 (4)	P24x0.375	5.69	315.62	0.018	0.15	655.57	0.000
L5	171.567 - 166.567 (5)	P24x0.375	9.31	315.62	0.029	0.25	655.57	0.000
L6	166.567 - 161.567 (6)	P24x0.375	9.61	315.62	0.030	0.25	655.57	0.000
L7	161.567 - 156.567 (7)	P24x0.375	13.95	315.62	0.044	0.11	655.57	0.000
L8	156.567 - 151.567 (8)	P24x0.375	14.63	315.62	0.046	0.02	655.57	0.000
L9	151.567 - 146.567 (9)	P24x0.375	20.57	315.62	0.065	0.47	655.57	0.001
L10	146.567 - 141.567 (10)	P24x0.375	21.16	315.62	0.067	0.36	655.57	0.001
L11	141.567 - 141.417 (11)	P24x0.375	21.18	315.62	0.067	0.34	655.57	0.001
L12	141.417 - 136.417 (12)	P36x0.375	21.67	454.19	0.048	0.32	1094.28	0.000
L13	136.417 - 131.417 (13)	P36x0.375	22.61	454.19	0.050	1.04	1094.28	0.001
L14	131.417 - 126.417 (14)	P36x0.375	23.03	454.19	0.051	1.04	1094.28	0.001
L15	126.417 - 121.417 (15)	P36x0.375	24.15	454.19	0.053	1.23	1094.28	0.001
L16	121.417 - 121.167 (16)	P36x0.375	24.17	454.19	0.053	1.23	1094.28	0.001

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L17	121.167 - 116.167 (17)	P42x0.375	24.78	421.13	0.059	1.61	1185.51	0.001
L18	116.167 - 111.167 (18)	P42x0.375	30.28	421.13	0.072	2.87	1185.51	0.002
L19	111.167 - 110.042 (19)	P42x0.375	30.56	421.13	0.073	2.89	1185.51	0.002
L20	110.042 - 109.792 (20)	P42x0.4875	30.63	720.97	0.042	2.89	2272.02	0.001
L21	109.792 - 105.083 (21)	P42x0.4875	31.88	720.97	0.044	2.95	2272.02	0.001
L22	105.083 - 104.833 (22)	P42x0.5625	31.95	830.38	0.038	2.95	3025.18	0.001
L23	104.833 - 100.917 (23)	P42x0.5625	33.16	830.38	0.040	3.03	3025.18	0.001
L24	100.917 - 100.667 (24)	P48x0.375	33.22	394.37	0.084	3.05	1270.22	0.002
L25	100.667 - 95.833 (25)	P48x0.375	34.66	394.37	0.088	3.51	1270.22	0.003
L26	95.833 - 95.583 (26)	P48x0.475	34.73	710.64	0.049	3.53	2284.06	0.002
L27	95.583 - 90.583 (27)	P48x0.475	36.08	710.64	0.051	3.99	2284.06	0.002
L28	90.583 - 89.917 (28)	P48x0.475	36.53	710.64	0.051	3.99	2284.06	0.002
L29	89.917 - 89.667 (29)	P48x0.575	36.60	971.49	0.038	3.50	3667.03	0.001
L30	89.667 - 84.667 (30)	P48x0.575	38.08	971.49	0.039	3.79	3667.03	0.001
L31	84.667 - 80.833 (31)	P48x0.575	39.30	971.49	0.040	4.03	3667.03	0.001
L32	80.833 - 80.333 (32)	P54x0.55	39.45	966.32	0.041	4.08	3493.03	0.001
L33	80.333 - 80.083 (33)	P54x0.4875	39.53	729.66	0.054	4.10	2639.00	0.002
L34	80.083 - 75.083 (34)	P54x0.4875	40.97	729.66	0.056	4.50	2639.00	0.002
L35	75.083 - 70.083 (35)	P54x0.4875	42.39	729.66	0.058	4.83	2639.00	0.002
L36	70.083 - 69.5 (36)	P54x0.4875	43.06	729.66	0.059	4.83	2639.00	0.002
L37	69.5 - 69.25 (37)	P54x0.5875	43.13	1117.93	0.039	3.07	4113.45	0.001
L38	69.25 - 64.25 (38)	P54x0.5875	44.84	1117.93	0.040	3.27	4113.45	0.001
L39	64.25 - 60.583 (39)	P54x0.5875	46.10	1117.93	0.041	3.39	4113.45	0.001
L40	60.583 - 60.333 (40)	P60x0.5125	46.17	838.76	0.055	3.41	3372.33	0.001
L41	60.333 - 55.333 (41)	P60x0.5125	47.65	838.76	0.057	3.65	3372.33	0.001
L42	55.333 - 52.167 (42)	P60x0.5125	48.46	838.76	0.058	3.91	3372.33	0.001
L43	52.167 - 51.917 (43)	P60x0.625	48.52	1308.39	0.037	3.93	5250.55	0.001
L44	51.917 - 46.917 (44)	P60x0.625	49.89	1308.39	0.038	4.32	5250.55	0.001
L45	46.917 - 41.917 (45)	P60x0.625	51.32	1308.39	0.039	4.66	5250.55	0.001
L46	41.917 - 40.233 (46)	P60x0.6	51.78	1194.07	0.043	4.77	4793.81	0.001
L47	40.233 - 39.983 (47)	P60x0.6	51.82	1194.07	0.043	4.79	4793.81	0.001
L48	39.983 - 34.983 (48)	P60x0.6	53.06	1194.07	0.044	5.09	4793.81	0.001
L49	34.983 - 29.983 (49)	P60x0.6	54.35	1194.07	0.046	5.77	4793.81	0.001
L50	29.983 - 28 (50)	P60x0.6	54.77	1194.07	0.046	5.84	4793.81	0.001

Section No.	Elevation ft	Size	Actual V_u K	ϕV_n K	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L51	28 - 27.75 (51)	P60x0.725	54.78	1530.99	0.036	5.85	7317.32	0.001
L52	27.75 - 22.75 (52)	P60x0.725	55.92	1530.99	0.037	5.96	7317.32	0.001
L53	22.75 - 20.083 (53)	P60x0.725	56.51	1530.99	0.037	6.01	7317.32	0.001
L54	20.083 - 19.833 (54)	P60x0.625	56.53	1308.39	0.043	6.02	5250.55	0.001
L55	19.833 - 17 (55)	P60x0.625	57.15	1308.39	0.044	6.10	5250.55	0.001
L56	17 - 16.75 (56)	P60x0.725	57.17	1530.99	0.037	6.11	7317.32	0.001
L57	16.75 - 11.65 (57)	P60x0.75	58.21	1583.12	0.037	6.36	7957.82	0.001
L58	11.65 - 11.417 (58)	P60x0.75	58.23	1583.12	0.037	6.37	7957.82	0.001
L59	11.417 - 9.396 (59)	P60x0.75	58.63	1583.12	0.037	6.52	7957.82	0.001
L60	9.396 - 9.146 (60)	P60x0.8	58.66	1687.23	0.035	6.54	8781.67	0.001
L61	9.146 - 4.833 (61)	P60x0.8	59.48	1687.23	0.035	6.88	8781.67	0.001
L62	4.833 - 4.583 (62)	P60x0.75	59.51	1583.12	0.038	6.90	7957.82	0.001
L63	4.583 - 0 (63)	P60x0.75	60.04	1583.12	0.038	6.90	7957.82	0.001

Pole Interaction Design Data

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	191.667 - 186.667 (1)	0.001	0.011	0.000	0.003	0.000	0.012	1.050	4.8.2
L2	186.667 - 181.567 (2)	0.001	0.014	0.000	0.003	0.000	0.015	1.050	4.8.2
L3	181.567 - 176.567 (3)	0.006	0.052	0.000	0.017	0.000	0.058	1.050	4.8.2
L4	176.567 - 171.567 (4)	0.007	0.096	0.000	0.018	0.000	0.103	1.050	4.8.2
L5	171.567 - 166.567 (5)	0.010	0.166	0.000	0.029	0.000	0.178	1.050	4.8.2
L6	166.567 - 161.567 (6)	0.011	0.242	0.000	0.030	0.000	0.254	1.050	4.8.2
L7	161.567 - 156.567 (7)	0.015	0.343	0.000	0.044	0.000	0.360	1.050	4.8.2
L8	156.567 - 151.567 (8)	0.015	0.458	0.000	0.046	0.000	0.475	1.050	4.8.2
L9	151.567 - 146.567 (9)	0.020	0.616	0.000	0.065	0.001	0.640	1.050	4.8.2
L10	146.567 - 141.567 (10)	0.021	0.783	0.000	0.067	0.001	0.808	1.050	4.8.2
L11	141.567 - 141.417 (11)	0.021	0.788	0.000	0.067	0.001	0.813	1.050	4.8.2
L12	141.417 - 136.417 (12)	0.015	0.447	0.000	0.048	0.000	0.465	1.050	4.8.2
L13	136.417 - 131.417 (13)	0.016	0.530	0.000	0.050	0.001	0.549	1.050	4.8.2
L14	131.417 - 126.417 (14)	0.017	0.615	0.000	0.051	0.001	0.635	1.050	4.8.2
L15	126.417 - 121.417 (15)	0.019	0.703	0.000	0.053	0.001	0.725	1.050	4.8.2
L16	121.417 - 121.167 (16)	0.019	0.708	0.000	0.053	0.001	0.730	1.050	4.8.2

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L17	121.167 - 116.167 (17)	0.018	0.596	0.000	0.059	0.001	0.617	1.050	4.8.2
L18	116.167 - 111.167 (18)	0.021	0.681	0.000	0.072	0.002	0.707	1.050	4.8.2
L19	111.167 - 110.042 (19)	0.021	0.700	0.000	0.073	0.002	0.726	1.050	4.8.2
L20	110.042 - 109.792 (20)	0.015	0.528	0.000	0.042	0.001	0.545	1.050	4.8.2
L21	109.792 - 105.083 (21)	0.016	0.590	0.000	0.044	0.001	0.607	1.050	4.8.2
L22	105.083 - 104.833 (22)	0.013	0.506	0.000	0.038	0.001	0.520	1.050	4.8.2
L23	104.833 - 100.917 (23)	0.014	0.551	0.000	0.040	0.001	0.567	1.050	4.8.2
L24	100.917 - 100.667 (24)	0.021	0.670	0.000	0.084	0.002	0.699	1.050	4.8.2
L25	100.667 - 95.833 (25)	0.022	0.741	0.000	0.088	0.003	0.772	1.050	4.8.2
L26	95.833 - 95.583 (26)	0.017	0.576	0.000	0.049	0.002	0.596	1.050	4.8.2
L27	95.583 - 90.583 (27)	0.017	0.635	0.000	0.051	0.002	0.655	1.050	4.8.2
L28	90.583 - 89.917 (28)	0.018	0.644	0.000	0.051	0.002	0.664	1.050	4.8.2
L29	89.917 - 89.667 (29)	0.014	0.524	0.000	0.038	0.001	0.539	1.050	4.8.2
L30	89.667 - 84.667 (30)	0.015	0.574	0.000	0.039	0.001	0.591	1.050	4.8.2
L31	84.667 - 80.833 (31)	0.016	0.614	0.000	0.040	0.001	0.632	1.050	4.8.2
L32	80.833 - 80.333 (32)	0.015	0.520	0.000	0.041	0.001	0.538	1.050	4.8.2
L33	80.333 - 80.083 (33)	0.018	0.596	0.000	0.054	0.002	0.617	1.050	4.8.2
L34	80.083 - 75.083 (34)	0.019	0.648	0.000	0.056	0.002	0.671	1.050	4.8.2
L35	75.083 - 70.083 (35)	0.020	0.702	0.000	0.058	0.002	0.726	1.050	4.8.2
L36	70.083 - 69.5 (36)	0.020	0.709	0.000	0.059	0.002	0.733	1.050	4.8.2
L37	69.5 - 69.25 (37)	0.016	0.580	0.000	0.039	0.001	0.598	1.050	4.8.2
L38	69.25 - 64.25 (38)	0.018	0.627	0.000	0.040	0.001	0.646	1.050	4.8.2
L39	64.25 - 60.583 (39)	0.019	0.662	0.000	0.041	0.001	0.683	1.050	4.8.2
L40	60.583 - 60.333 (40)	0.021	0.631	0.000	0.055	0.001	0.655	1.050	4.8.2
L41	60.333 - 55.333 (41)	0.022	0.678	0.000	0.057	0.001	0.704	1.050	4.8.2
L42	55.333 - 52.167 (42)	0.023	0.708	0.000	0.058	0.001	0.735	1.050	4.8.2
L43	52.167 - 51.917 (43)	0.018	0.572	0.000	0.037	0.001	0.592	1.050	4.8.2
L44	51.917 - 46.917 (44)	0.019	0.612	0.000	0.038	0.001	0.632	1.050	4.8.2
L45	46.917 - 41.917 (45)	0.020	0.653	0.000	0.039	0.001	0.674	1.050	4.8.2
L46	41.917 - 40.233 (46)	0.021	0.697	0.000	0.043	0.001	0.720	1.050	4.8.2
L47	40.233 - 39.983 (47)	0.021	0.700	0.000	0.043	0.001	0.723	1.050	4.8.2
L48	39.983 - 34.983 (48)	0.022	0.744	0.000	0.044	0.001	0.768	1.050	4.8.2
L49	34.983 - 29.983 (49)	0.023	0.789	0.000	0.046	0.001	0.814	1.050	4.8.2
L50	29.983 - 28 (50)	0.023	0.807	0.000	0.046	0.001	0.833	1.050	4.8.2

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L51	28 - 27.75 (51)	0.018	0.657	0.000	0.036	0.001	0.677	1.050	4.8.2
L52	27.75 - 22.75 (52)	0.019	0.695	0.000	0.037	0.001	0.715	1.050	4.8.2
L53	22.75 - 20.083 (53)	0.019	0.716	0.000	0.037	0.001	0.736	1.050	4.8.2
L54	20.083 - 19.833 (54)	0.024	0.845	0.000	0.043	0.001	0.871	1.050	4.8.2
L55	19.833 - 17 (55)	0.024	0.871	0.000	0.044	0.001	0.898	1.050	4.8.2
L56	17 - 16.75 (56)	0.020	0.742	0.000	0.037	0.001	0.763	1.050	4.8.2
L57	16.75 - 11.65 (57)	0.020	0.753	0.000	0.037	0.001	0.774	1.050	4.8.2
L58	11.65 - 11.417 (58)	0.020	0.755	0.000	0.037	0.001	0.776	1.050	4.8.2
L59	11.417 - 9.396 (59)	0.020	0.770	0.000	0.037	0.001	0.792	1.050	4.8.2
L60	9.396 - 9.146 (60)	0.019	0.719	0.000	0.035	0.001	0.739	1.050	4.8.2
L61	9.146 - 4.833 (61)	0.019	0.750	0.000	0.035	0.001	0.771	1.050	4.8.2
L62	4.833 - 4.583 (62)	0.021	0.808	0.000	0.038	0.001	0.830	1.050	4.8.2
L63	4.583 - 0 (63)	0.021	0.844	0.000	0.038	0.001	0.867	1.050	4.8.2

Section Capacity Table

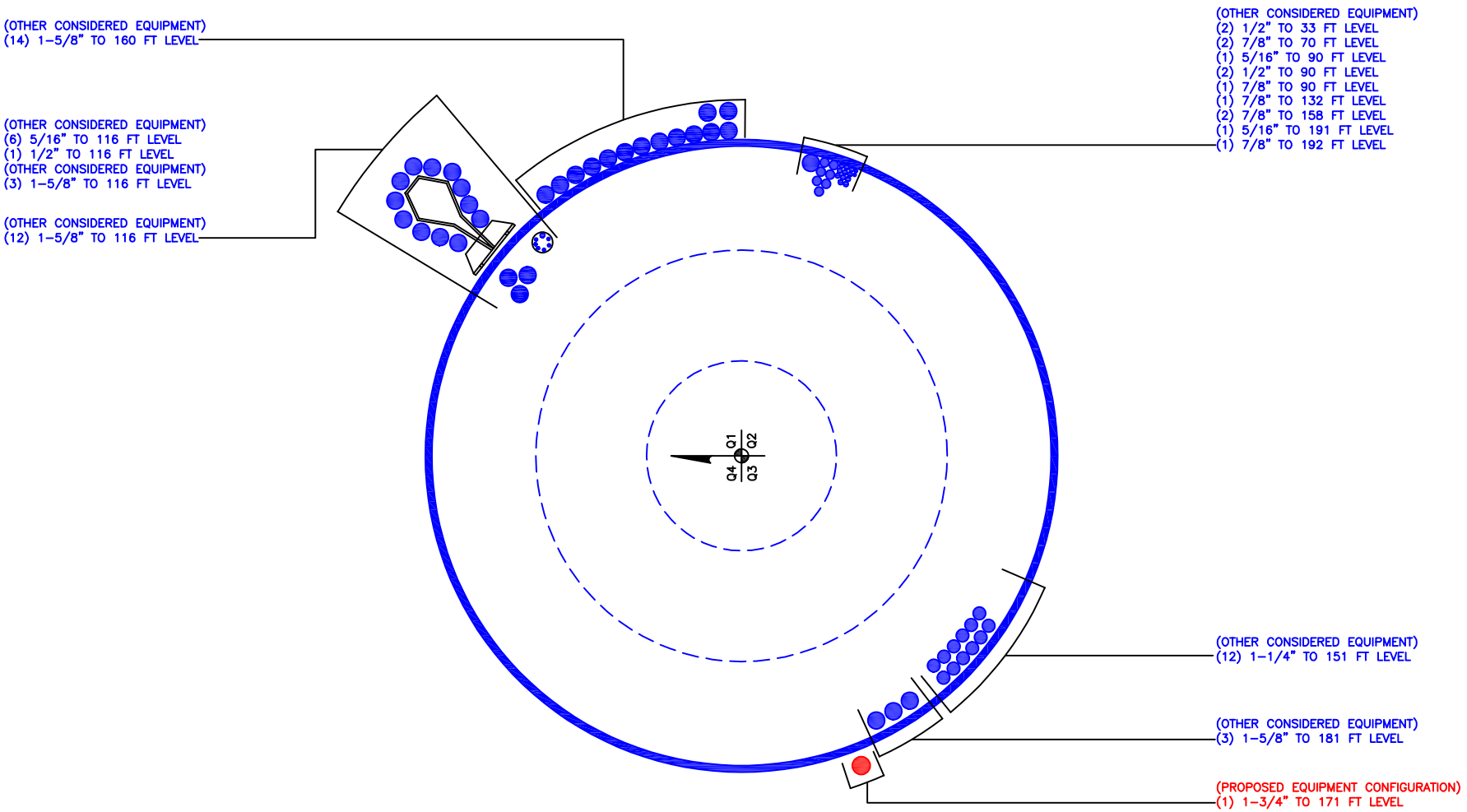
Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L1	191.667 - 186.667	Pole	P18x0.375	1	-0.70	824.12	1.2	Pass
L2	186.667 - 181.567	Pole	P24x0.375	2	-1.33	1104.67	1.5	Pass
L3	181.567 - 176.567	Pole	P24x0.375	3	-6.43	1104.67	5.5	Pass
L4	176.567 - 171.567	Pole	P24x0.375	4	-7.08	1104.67	9.8	Pass
L5	171.567 - 166.567	Pole	P24x0.375	5	-10.71	1104.67	16.9	Pass
L6	166.567 - 161.567	Pole	P24x0.375	6	-11.39	1104.67	24.2	Pass
L7	161.567 - 156.567	Pole	P24x0.375	7	-15.33	1104.67	34.3	Pass
L8	156.567 - 151.567	Pole	P24x0.375	8	-16.06	1104.67	45.3	Pass
L9	151.567 - 146.567	Pole	P24x0.375	9	-21.00	1104.67	61.0	Pass
L10	146.567 - 141.567	Pole	P24x0.375	10	-21.85	1104.67	77.0	Pass
L11	141.567 - 141.417	Pole	P24x0.375	11	-21.88	1104.67	77.5	Pass
L12	141.417 - 136.417	Pole	P36x0.375	12	-23.00	1564.60	44.3	Pass
L13	136.417 - 131.417	Pole	P36x0.375	13	-24.57	1564.60	52.3	Pass
L14	131.417 - 126.417	Pole	P36x0.375	14	-25.73	1564.60	60.5	Pass
L15	126.417 - 121.417	Pole	P36x0.375	15	-27.92	1564.60	69.0	Pass
L16	121.417 - 121.167	Pole	P36x0.375	16	-28.00	1564.60	69.5	Pass
L17	121.167 - 116.167	Pole	P42x0.375	17	-29.45	1752.31	58.8	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
L18	116.167 - 111.167	Pole	P42x0.375	18	-34.51	1752.31	67.3	Pass
L19	111.167 - 110.042	Pole	P42x0.375	19	-34.83	1752.31	69.2	Pass
L20	110.042 - 109.792	Pole	P42x0.4875	20	-34.92	2448.74	51.9	Pass
L21	109.792 - 105.083	Pole	P42x0.4875	21	-36.60	2448.74	57.8	Pass
L22	105.083 - 104.833	Pole	P42x0.5625	22	-36.72	2906.35	49.6	Pass
L23	104.833 - 100.917	Pole	P42x0.5625	23	-39.17	2906.35	54.0	Pass
L24	100.917 - 100.667	Pole	P48x0.375	24	-39.29	1939.86	66.6	Pass
L25	100.667 - 95.833	Pole	P48x0.375	25	-41.16	1939.86	73.5	Pass
L26	95.833 - 95.583	Pole	P48x0.475	26	-41.27	2605.46	56.7	Pass
L27	95.583 - 90.583	Pole	P48x0.475	27	-43.09	2605.46	62.4	Pass
L28	90.583 - 89.917	Pole	P48x0.475	28	-43.51	2605.46	63.2	Pass
L29	89.917 - 89.667	Pole	P48x0.575	29	-43.62	3332.72	51.3	Pass
L30	89.667 - 84.667	Pole	P48x0.575	30	-46.51	3332.72	56.2	Pass
L31	84.667 - 80.833	Pole	P48x0.575	31	-49.72	3332.72	60.2	Pass
L32	80.833 - 80.333	Pole	P54x0.55	32	-50.11	3420.72	51.2	Pass
L33	80.333 - 80.083	Pole	P54x0.4875	33	-50.25	2937.03	58.8	Pass
L34	80.083 - 75.083	Pole	P54x0.4875	34	-52.78	2937.03	63.9	Pass
L35	75.083 - 70.083	Pole	P54x0.4875	35	-55.75	2937.03	69.1	Pass
L36	70.083 - 69.5	Pole	P54x0.4875	36	-56.42	2937.03	69.8	Pass
L37	69.5 - 69.25	Pole	P54x0.5875	37	-56.61	3722.49	56.9	Pass
L38	69.25 - 64.25	Pole	P54x0.5875	38	-63.03	3722.49	61.5	Pass
L39	64.25 - 60.583	Pole	P54x0.5875	39	-68.26	3722.49	65.0	Pass
L40	60.583 - 60.333	Pole	P60x0.5125	40	-68.47	3384.03	62.4	Pass
L41	60.333 - 55.333	Pole	P60x0.5125	41	-72.31	3384.03	67.0	Pass
L42	55.333 - 52.167	Pole	P60x0.5125	42	-73.85	3384.03	70.0	Pass
L43	52.167 - 51.917	Pole	P60x0.625	43	-74.00	4346.11	56.3	Pass
L44	51.917 - 46.917	Pole	P60x0.625	44	-77.17	4346.11	60.2	Pass
L45	46.917 - 41.917	Pole	P60x0.625	45	-81.21	4346.11	64.2	Pass
L46	41.917 - 40.233	Pole	P60x0.6	46	-82.51	4125.57	68.6	Pass
L47	40.233 - 39.983	Pole	P60x0.6	47	-82.71	4125.57	68.8	Pass
L48	39.983 - 34.983	Pole	P60x0.6	48	-86.46	4125.57	73.1	Pass
L49	34.983 - 29.983	Pole	P60x0.6	49	-89.87	4125.57	77.5	Pass
L50	29.983 - 28	Pole	P60x0.6	50	-90.97	4125.57	79.3	Pass
L51	28 - 27.75	Pole	P60x0.725	51	-91.15	5266.71	64.4	Pass
L52	27.75 - 22.75	Pole	P60x0.725	52	-95.35	5266.71	68.1	Pass
L53	22.75 - 20.083	Pole	P60x0.725	53	-97.63	5266.71	70.1	Pass
L54	20.083 - 19.833	Pole	P60x0.625	54	-97.83	4346.11	82.9	Pass
L55	19.833 - 17	Pole	P60x0.625	55	-100.03	4346.11	85.5	Pass
L56	17 - 16.75	Pole	P60x0.725	56	-100.27	5266.71	72.7	Pass
L57	16.75 - 11.65	Pole	P60x0.75	57	-104.59	5506.44	73.7	Pass
L58	11.65 - 11.417	Pole	P60x0.75	58	-104.76	5506.44	73.9	Pass
L59	11.417 - 9.396	Pole	P60x0.75	59	-106.15	5506.44	75.4	Pass
L60	9.396 - 9.146	Pole	P60x0.8	60	-106.34	5905.30	70.4	Pass
L61	9.146 - 4.833	Pole	P60x0.8	61	-109.42	5905.30	73.4	Pass
L62	4.833 - 4.583	Pole	P60x0.75	62	-109.61	5506.44	79.1	Pass
L63	4.583 - 0	Pole	P60x0.75	63	-112.53	5506.44	82.6	Pass
							Summary	
						Pole (L55)	85.5	Pass
						RATING =	**85.5**	**Pass**

***NOTE: Above stress ratios for reinforced sections are approximate. More exact calculations are presented in Appendix C.**

APPENDIX B

BASE LEVEL DRAWING



BUSINESS UNIT: 826217 TOWER ID: C_BASELEVEL

APPENDIX C

ADDITIONAL CALCULATIONS

CCIpole

per TIA-222- H

Site BU: 826217

Work Order: 1987184

CROWN CASTLE

Pole Geometry

	Pole Height Above Base (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Bend Radius (in)	Pole Material
1	191.667	10.084		0	18	18	0.375		A53-B-42
2	181.583	40.166		0	24.00	24	0.375		A53-B-42
3	141.417	20.25		0	36.00	36	0.375		A53-B-42
4	121.167	20.25		0	42.00	42	0.375		A53-B-42
5	100.917	20.084		0	48.00	48	0.375		A53-B-42
6	80.833	20.25		0	54.00	54	0.375		A53-B-42
7	60.583	20.25		0	60.00	60	0.375		A53-B-42
8	40.333	20.25		0	60.00	60	0.5		A53-B-42
9	20.083	20.083		0	60.00	60	0.625		A53-B-42

Reinforcement Configuration

	Bottom Effective Elevation (ft)	Top Effective Elevation (ft)	Type	Model	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0	9.396	plate	CCI-AFP-040075	2				70												313		
2	20.083	40.33	plate	CCI-SFP-060100	3				66						189						312		
3	40.333	60.583	plate	CCI-SFP-065125	3				67.5						188						307		
4	60.583	80.333	plate	CCI-SFP-060100	3				67.5						190						307		
5	80.333	89.917	plate	CCI-SFP-045100	3				72						192						312		
6	100.917	105.083	plate	CCI-AFP-040075	3			53						178							303		
7	4.833	11.667	plate	CCI-AFP-040075	1										198								
8	0	17	plate	CCI-SFP-060100	4		36				113						223			294			
9	20.083	28	plate	CCI-SFP-060100	4			53					157					247				339	
10	40.333	52.167	plate	CCI-SFP-060100	4		36					126					234			294			
11	60.583	69.5	plate	CCI-SFP-045100	4				80				155					254					341
12	80.333	95.833	plate	CCI-SFP-045100	3					93						213						333	
13	100.917	110.042	plate	CCI-SFP-045100	3		30							150					270				
14																							

Reinforcement Details

	B (in)	H (in)	Gross Area (in^2)	Pole Face to Centroid (in)	Bottom Termination Type	Bottom Termination Length (in)	Top Termination Type	Top Termination Length (in)	Lu (in)	Net Area (in2)	Bolt Hole Size (in)	Reinforcement Material
1	4	0.75	3	0.375	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	16.000	2.063	1.1875	A572-65
2	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
3	6.5	1.25	8.125	0.625	PC 8.8 - M20 (100)	33	PC 8.8 - M20 (100)	33.000	19.000	6.563	1.1875	A572-65
4	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
5	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
6	4	0.75	3	0.375	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	16.000	2.063	1.1875	A572-65
7	4	0.75	3	0.375	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	16.000	2.063	1.1875	A572-65
8	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
9	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
10	6	1	6	0.5	PC 8.8 - M20 (100)	24	PC 8.8 - M20 (100)	24.000	16.000	4.750	1.1875	A572-65
11	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
12	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65
13	4.5	1	4.5	0.5	PC 8.8 - M20 (100)	18	PC 8.8 - M20 (100)	18.000	20.000	3.250	1.1875	A572-65

TNX Geometry Input

Increment (ft): 5 Export to TNX

	Section Height (ft)	Section Length (ft)	Lap Splice Length (ft)	Number of Sides	Top Diameter (in)	Bottom Diameter (in)	Wall Thickness (in)	Tapered Pole Grade	Weight Multiplier
1	191.667 - 186.667	5	0	0	18.000	18.000	0.375	A53-B-42	1.000
2	186.667 - 181.567	5.1		0	24.000	24.000	0.375	A53-B-42	1.000
3	181.567 - 176.567	5		0	24.000	24.000	0.375	A53-B-42	1.000
4	176.567 - 171.567	5		0	24.000	24.000	0.375	A53-B-42	1.000
5	171.567 - 166.567	5		0	24.000	24.000	0.375	A53-B-42	1.000
6	166.567 - 161.567	5		0	24.000	24.000	0.375	A53-B-42	1.000
7	161.567 - 156.567	5		0	24.000	24.000	0.375	A53-B-42	1.000
8	156.567 - 151.567	5		0	24.000	24.000	0.375	A53-B-42	1.000
9	151.567 - 146.567	5		0	24.000	24.000	0.375	A53-B-42	1.000
10	146.567 - 141.567	5		0	24.000	24.000	0.375	A53-B-42	1.000
11	141.567 - 141.417	0.15	0	0	24.000	24.000	0.375	A53-B-42	1.000
12	141.417 - 136.417	5		0	36.000	36.000	0.375	A53-B-42	1.000
13	136.417 - 131.417	5		0	36.000	36.000	0.375	A53-B-42	1.000
14	131.417 - 126.417	5		0	36.000	36.000	0.375	A53-B-42	1.000
15	126.417 - 121.417	5		0	36.000	36.000	0.375	A53-B-42	1.000
16	121.417 - 121.167	0.25	0	0	36.000	36.000	0.375	A53-B-42	1.000
17	121.167 - 116.167	5		0	42.000	42.000	0.375	A53-B-42	1.000
18	116.167 - 111.167	5		0	42.000	42.000	0.375	A53-B-42	1.000
19	111.167 - 110.042	1.125		0	42.000	42.000	0.375	A53-B-42	1.000
20	110.042 - 109.792	0.25		0	42.000	42.000	0.4875	A53-B-42	0.984
21	109.792 - 105.083	4.709		0	42.000	42.000	0.4875	A53-B-42	0.984
22	105.083 - 104.833	0.25		0	42.000	42.000	0.5625	A53-B-42	0.977
23	104.833 - 100.917	3.916	0	0	42.000	42.000	0.5625	A53-B-42	0.977
24	100.917 - 100.667	0.25		0	48.000	48.000	0.375	A53-B-42	1.000
25	100.667 - 95.833	4.834		0	48.000	48.000	0.375	A53-B-42	1.000
26	95.833 - 95.583	0.25		0	48.000	48.000	0.475	A53-B-42	0.981
27	95.583 - 90.583	5		0	48.000	48.000	0.475	A53-B-42	0.981
28	90.583 - 89.917	0.666		0	48.000	48.000	0.475	A53-B-42	0.981
29	89.917 - 89.667	0.25		0	48.000	48.000	0.575	A53-B-42	0.970
30	89.667 - 84.667	5		0	48.000	48.000	0.575	A53-B-42	0.970
31	84.667 - 80.833	3.834	0	0	48.000	48.000	0.575	A53-B-42	0.970
32	80.833 - 80.333	0.5		0	54.000	54.000	0.55	A53-B-42	0.976
33	80.333 - 80.083	0.25		0	54.000	54.000	0.4875	A53-B-42	0.990
34	80.083 - 75.083	5		0	54.000	54.000	0.4875	A53-B-42	0.990
35	75.083 - 70.083	5		0	54.000	54.000	0.4875	A53-B-42	0.990
36	70.083 - 69.5	0.583		0	54.000	54.000	0.4875	A53-B-42	0.990
37	69.5 - 69.25	0.25		0	54.000	54.000	0.5875	A53-B-42	1.006
38	69.25 - 64.25	5		0	54.000	54.000	0.5875	A53-B-42	1.006
39	64.25 - 60.583	3.667	0	0	54.000	54.000	0.5875	A53-B-42	1.006
40	60.583 - 60.333	0.25		0	60.000	60.000	0.5125	A53-B-42	0.988
41	60.333 - 55.333	5		0	60.000	60.000	0.5125	A53-B-42	0.988
42	55.333 - 52.167	3.166		0	60.000	60.000	0.5125	A53-B-42	0.988
43	52.167 - 51.917	0.25		0	60.000	60.000	0.625	A53-B-42	1.017
44	51.917 - 46.917	5		0	60.000	60.000	0.625	A53-B-42	1.017
45	46.917 - 41.917	5	0	0	60.000	60.000	0.625	A53-B-42	1.017
46	41.917 - 40.233	1.684		0	60.000	60.000	0.6	A53-B-42	0.995
47	40.233 - 39.983	0.25		0	60.000	60.000	0.6	A53-B-42	0.995
48	39.983 - 34.983	5		0	60.000	60.000	0.6	A53-B-42	0.995
49	34.983 - 29.983	5		0	60.000	60.000	0.6	A53-B-42	0.995
50	29.983 - 28	1.983		0	60.000	60.000	0.6	A53-B-42	0.995
51	28 - 27.75	0.25		0	60.000	60.000	0.725	A53-B-42	1.003
52	27.75 - 22.75	5		0	60.000	60.000	0.725	A53-B-42	1.003
53	22.75 - 20.083	2.667	0	0	60.000	60.000	0.725	A53-B-42	1.003
54	20.083 - 19.833	0.25		0	60.000	60.000	0.625	A53-B-42	1.000
55	19.833 - 17	2.833		0	60.000	60.000	0.625	A53-B-42	1.000
56	17 - 16.75	0.25		0	60.000	60.000	0.725	A53-B-42	1.041
57	16.75 - 11.65	5.1		0	60.000	60.000	0.75	A53-B-42	1.028
58	11.65 - 11.417	0.233		0	60.000	60.000	0.75	A53-B-42	1.028
59	11.417 - 9.396	2.021		0	60.000	60.000	0.75	A53-B-42	1.028
60	9.396 - 9.146	0.25		0	60.000	60.000	0.8	A53-B-42	1.005
61	9.146 - 4.833	4.313		0	60.000	60.000	0.8	A53-B-42	1.005
62	4.833 - 4.583	0.25		0	60.000	60.000	0.75	A53-B-42	1.050
63	4.583 - 0	4.583		0	60.000	60.000	0.75	A53-B-42	1.050

TNX Section Forces

Increment (ft):	5	TNX Output		
	Section Height (ft)	P_u (K)	M_{ux} (kip-ft)	V_u (K)
1	191.667 - 186.667	0.70	4.19	0.71
2	186.667 - 181.567	1.33	8.72	1.05
3	181.567 - 176.567	6.43	32.31	5.37
4	176.567 - 171.567	7.08	60.01	5.69
5	171.567 - 166.567	10.71	103.83	9.31
6	166.567 - 161.567	11.39	151.19	9.61
7	161.567 - 156.567	15.33	213.99	13.95
8	156.567 - 151.567	16.06	285.48	14.63
9	151.567 - 146.567	21.00	384.02	20.57
10	146.567 - 141.567	21.85	488.37	21.16
11	141.567 - 141.417	21.88	491.54	21.18
12	141.417 - 136.417	23.00	598.61	21.67
13	136.417 - 131.417	24.57	709.41	22.61
14	131.417 - 126.417	25.73	823.59	23.03
15	126.417 - 121.417	27.92	941.57	24.15
16	121.417 - 121.167	28.00	947.61	24.17
17	121.167 - 116.167	29.45	1070.42	24.78
18	116.167 - 111.167	34.51	1223.33	30.28
19	111.167 - 110.042	34.83	1257.56	30.56
20	110.042 - 109.792	34.92	1265.21	30.63
21	109.792 - 105.083	36.60	1412.42	31.88
22	105.083 - 104.833	36.72	1420.41	31.95
23	104.833 - 100.917	39.17	1547.93	33.16
24	100.917 - 100.667	39.29	1556.23	33.22
25	100.667 - 95.833	41.16	1720.32	34.66
26	95.833 - 95.583	41.27	1729.00	34.73
27	95.583 - 90.583	43.09	1906.07	36.08
28	90.583 - 89.917	43.51	1930.65	36.53
29	89.917 - 89.667	43.62	1939.80	36.60
30	89.667 - 84.667	46.51	2126.43	38.08
31	84.667 - 80.833	49.72	2274.61	39.30
32	80.833 - 80.333	50.11	2294.28	39.45
33	80.333 - 80.083	50.25	2304.15	39.53
34	80.083 - 75.083	52.78	2505.38	40.97
35	75.083 - 70.083	55.75	2713.90	42.39
36	70.083 - 69.5	56.42	2738.92	43.06
37	69.5 - 69.25	56.61	2749.71	43.13
38	69.25 - 64.25	63.03	2970.01	44.84
39	64.25 - 60.583	68.26	3137.00	46.10
40	60.583 - 60.333	68.47	3148.54	46.17
41	60.333 - 55.333	72.31	3383.24	47.65
42	55.333 - 52.167	73.85	3535.41	48.46
43	52.167 - 51.917	74.00	3547.54	48.52
44	51.917 - 46.917	77.17	3793.58	49.89
45	46.917 - 41.917	81.21	4046.29	51.32
46	41.917 - 40.233	82.51	4132.98	51.78
47	40.233 - 39.983	82.71	4145.91	51.82
48	39.983 - 34.983	86.46	4407.76	53.06
49	34.983 - 29.983	89.87	4676.74	54.35
50	29.983 - 28	90.97	4784.91	54.77
51	28 - 27.75	91.15	4798.60	54.78
52	27.75 - 22.75	95.35	5075.47	55.92
53	22.75 - 20.083	97.63	5225.42	56.51
54	20.083 - 19.833	97.83	5239.55	56.53
55	19.833 - 17	100.03	5400.63	57.15
56	17 - 16.75	100.27	5414.92	57.17
57	16.75 - 11.65	104.59	5709.24	58.21
58	11.65 - 11.417	104.76	5722.80	58.23
59	11.417 - 9.396	106.15	5840.91	58.63
60	9.396 - 9.146	106.34	5855.57	58.66
61	9.146 - 4.833	109.42	6110.37	59.48
62	4.833 - 4.583	109.60	6125.25	59.51
63	4.583 - 0	112.53	6399.16	60.04

Analysis Results

Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail
191.67 - 186.67	Pole	TP18x18x0.375	Pole	1.2%	Pass
186.67 - 181.57	Pole	TP24x24x0.375	Pole	1.5%	Pass
181.57 - 176.57	Pole	TP24x24x0.375	Pole	5.5%	Pass
176.57 - 171.57	Pole	TP24x24x0.375	Pole	9.8%	Pass
171.57 - 166.57	Pole	TP24x24x0.375	Pole	16.9%	Pass
166.57 - 161.57	Pole	TP24x24x0.375	Pole	24.2%	Pass
161.57 - 156.57	Pole	TP24x24x0.375	Pole	34.2%	Pass
156.57 - 151.57	Pole	TP24x24x0.375	Pole	45.3%	Pass
151.57 - 146.57	Pole	TP24x24x0.375	Pole	60.9%	Pass
146.57 - 141.57	Pole	TP24x24x0.375	Pole	77.0%	Pass
141.57 - 141.42	Pole	TP24x24x0.375	Pole	77.5%	Pass
141.42 - 136.42	Pole	TP36x36x0.375	Pole	44.3%	Pass
136.42 - 131.42	Pole	TP36x36x0.375	Pole	52.3%	Pass
131.42 - 126.42	Pole	TP36x36x0.375	Pole	60.5%	Pass
126.42 - 121.42	Pole	TP36x36x0.375	Pole	69.0%	Pass
121.42 - 121.17	Pole	TP36x36x0.375	Pole	69.5%	Pass
121.17 - 116.17	Pole	TP42x42x0.375	Pole	58.7%	Pass
116.17 - 111.17	Pole	TP42x42x0.375	Pole	67.2%	Pass
111.17 - 110.04	Pole	TP42x42x0.375	Pole	69.0%	Pass
110.04 - 109.79	Pole + Reinf.	TP42x42x0.4875	Reinf. 13 Tension Rupture	53.7%	Pass
109.79 - 105.08	Pole + Reinf.	TP42x42x0.4875	Reinf. 13 Tension Rupture	59.9%	Pass
105.08 - 104.83	Pole + Reinf.	TP42x42x0.5625	Reinf. 6 Tension Rupture	54.7%	Pass
104.83 - 100.92	Pole + Reinf.	TP42x42x0.5625	Reinf. 6 Tension Rupture	59.5%	Pass
100.92 - 100.67	Pole	TP48x48x0.375	Pole	66.2%	Pass
100.67 - 95.83	Pole	TP48x48x0.375	Pole	73.1%	Pass
95.83 - 95.58	Pole + Reinf.	TP48x48x0.475	Pole	58.2%	Pass
95.58 - 90.58	Pole + Reinf.	TP48x48x0.475	Pole	64.1%	Pass
90.58 - 89.92	Pole + Reinf.	TP48x48x0.475	Pole	64.9%	Pass
89.92 - 89.67	Pole + Reinf.	TP48x48x0.575	Pole	54.1%	Pass
89.67 - 84.67	Pole + Reinf.	TP48x48x0.575	Pole	59.3%	Pass
84.67 - 80.83	Pole + Reinf.	TP48x48x0.575	Pole	63.4%	Pass
80.83 - 80.33	Pole + Reinf.	TP54x54x0.55	Pole	53.3%	Pass
80.33 - 80.08	Pole + Reinf.	TP54x54x0.4875	Pole	60.2%	Pass
80.08 - 75.08	Pole + Reinf.	TP54x54x0.4875	Pole	65.4%	Pass
75.08 - 70.08	Pole + Reinf.	TP54x54x0.4875	Pole	70.8%	Pass
70.08 - 69.5	Pole + Reinf.	TP54x54x0.4875	Pole	71.5%	Pass
69.5 - 69.25	Pole + Reinf.	TP54x54x0.5875	Pole	59.3%	Pass
69.25 - 64.25	Pole + Reinf.	TP54x54x0.5875	Pole	64.1%	Pass
64.25 - 60.58	Pole + Reinf.	TP54x54x0.5875	Pole	67.8%	Pass
60.58 - 60.33	Pole + Reinf.	TP60x60x0.5125	Pole	63.6%	Pass
60.33 - 55.33	Pole + Reinf.	TP60x60x0.5125	Pole	68.3%	Pass
55.33 - 52.17	Pole + Reinf.	TP60x60x0.5125	Pole	71.3%	Pass
52.17 - 51.92	Pole + Reinf.	TP60x60x0.625	Pole	59.7%	Pass
51.92 - 46.92	Pole + Reinf.	TP60x60x0.625	Pole	63.8%	Pass
46.92 - 41.92	Pole + Reinf.	TP60x60x0.625	Pole	68.1%	Pass
41.92 - 40.23	Pole + Reinf.	TP60x60x0.6	Pole	70.1%	Pass
40.23 - 39.98	Pole + Reinf.	TP60x60x0.6	Pole	70.3%	Pass
39.98 - 34.98	Pole + Reinf.	TP60x60x0.6	Pole	74.7%	Pass
34.98 - 29.98	Pole + Reinf.	TP60x60x0.6	Pole	79.2%	Pass
29.98 - 28	Pole + Reinf.	TP60x60x0.6	Pole	81.1%	Pass
28 - 27.75	Pole + Reinf.	TP60x60x0.725	Pole	68.2%	Pass
27.75 - 22.75	Pole + Reinf.	TP60x60x0.725	Pole	72.1%	Pass
22.75 - 20.08	Pole + Reinf.	TP60x60x0.725	Pole	74.3%	Pass
20.08 - 19.83	Pole	TP60x60x0.625	Pole	82.9%	Pass
19.83 - 17	Pole	TP60x60x0.625	Pole	85.5%	Pass
17 - 16.75	Pole + Reinf.	TP60x60x0.725	Pole	74.0%	Pass
16.75 - 11.65	Pole + Reinf.	TP60x60x0.75	Pole	76.3%	Pass
11.65 - 11.42	Pole + Reinf.	TP60x60x0.75	Pole	76.5%	Pass
11.42 - 9.4	Pole + Reinf.	TP60x60x0.75	Pole	78.0%	Pass
9.4 - 9.15	Pole + Reinf.	TP60x60x0.8	Reinf. 7 Tension Rupture	77.6%	Pass
9.15 - 4.83	Pole + Reinf.	TP60x60x0.8	Reinf. 7 Tension Rupture	81.0%	Pass
4.83 - 4.58	Pole + Reinf.	TP60x60x0.75	Pole	82.8%	Pass
4.58 - 0	Pole + Reinf.	TP60x60x0.75	Pole	86.5%	Pass
				Summary	
			Pole	86.5%	Pass
			Reinforcement	84.2%	Pass
			Overall	86.5%	Pass

Additional Calculations

Section Elevation (ft)	Moment of Inertia (in^4)			Area (in^2)			% Capacity*												
	Pole	Reinf.	Total	Pole	Reinf.	Total	Pole	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13
191.67 - 186.67	807	n/a	807	20.76	n/a	20.76	1.2%													
186.67 - 181.57	1942	n/a	1942	27.83	n/a	27.83	1.5%													
181.57 - 176.57	1942	n/a	1942	27.83	n/a	27.83	5.5%													
176.57 - 171.57	1942	n/a	1942	27.83	n/a	27.83	9.8%													
171.57 - 166.57	1942	n/a	1942	27.83	n/a	27.83	16.9%													
166.57 - 161.57	1942	n/a	1942	27.83	n/a	27.83	24.2%													
161.57 - 156.57	1942	n/a	1942	27.83	n/a	27.83	34.2%													
156.57 - 151.57	1942	n/a	1942	27.83	n/a	27.83	45.3%													
151.57 - 146.57	1942	n/a	1942	27.83	n/a	27.83	60.9%													
146.57 - 141.57	1942	n/a	1942	27.83	n/a	27.83	77.0%													
141.57 - 141.42	1942	n/a	1942	27.83	n/a	27.83	77.5%													
141.42 - 136.42	6659	n/a	6659	41.97	n/a	41.97	44.3%													
136.42 - 131.42	6659	n/a	6659	41.97	n/a	41.97	52.3%													
131.42 - 126.42	6659	n/a	6659	41.97	n/a	41.97	60.5%													
126.42 - 121.42	6659	n/a	6659	41.97	n/a	41.97	69.0%													
121.42 - 121.17	6659	n/a	6659	41.97	n/a	41.97	69.5%													
121.17 - 116.17	10622	n/a	10622	49.04	n/a	49.04	58.7%													
116.17 - 111.17	10622	n/a	10622	49.04	n/a	49.04	67.2%													
111.17 - 110.04	10622	n/a	10622	49.04	n/a	49.04	69.0%													
110.04 - 109.79	10622	3132	13754	49.04	13.50	62.54	53.4%													53.7%
109.79 - 105.08	10622	3132	13754	49.04	13.50	62.54	59.5%													59.9%
105.08 - 104.83	10622	5106	15728	49.04	22.50	71.54	52.4%						54.7%							53.0%
104.83 - 100.92	10622	5106	15728	49.04	22.50	71.54	57.1%						59.5%							57.7%
100.92 - 100.67	15908	n/a	15908	56.11	n/a	56.11	66.2%													
100.67 - 95.83	15908	n/a	15908	56.11	n/a	56.11	73.1%													
95.83 - 95.58	15908	4064	19972	56.11	13.50	69.61	58.2%												57.6%	
95.58 - 90.58	15908	4064	19972	56.11	13.50	69.61	64.1%												63.4%	
90.58 - 89.92	15908	4064	19972	56.11	13.50	69.61	64.9%												64.3%	
89.92 - 89.67	15908	8127	24036	56.11	27.00	83.11	54.1%					53.6%							53.6%	
89.67 - 84.67	15908	8127	24036	56.11	27.00	83.11	59.3%					58.7%							58.7%	
84.67 - 80.83	15908	8127	24036	56.11	27.00	83.11	63.4%					62.8%							62.8%	
80.83 - 80.33	22710	10233	32943	63.18	27.00	90.18	53.3%					52.0%							52.0%	
80.33 - 80.08	22710	6621	29331	63.18	18.00	81.18	60.2%				53.5%									
80.08 - 75.08	22710	6621	29331	63.18	18.00	81.18	65.4%				58.1%									
75.08 - 70.08	22710	6621	29331	63.18	18.00	81.18	70.8%				62.9%									
70.08 - 69.5	22710	6621	29331	63.18	18.00	81.18	71.5%				63.4%									
69.5 - 69.25	22710	12688	35398	63.18	36.00	99.18	59.3%				52.7%							56.8%		
69.25 - 64.25	22710	12688	35398	63.18	36.00	99.18	64.1%				57.0%							61.4%		
64.25 - 60.58	22710	12688	35398	63.18	36.00	99.18	67.8%				60.2%							64.9%		
60.58 - 60.33	31217	11364	42581	70.24	24.38	94.62	63.6%			55.3%										
60.33 - 55.33	31217	11364	42581	70.24	24.38	94.62	68.3%			59.3%										
55.33 - 52.17	31217	11364	42581	70.24	24.38	94.62	71.3%			62.0%										
52.17 - 51.92	31219	19812	51030	70.24	48.38	118.62	59.7%			51.5%							50.7%			
51.92 - 46.92	31219	19812	51030	70.24	48.38	118.62	63.8%			55.1%							54.2%			
46.92 - 41.92	31219	19812	51030	70.24	48.38	118.62	68.1%			58.7%							57.8%			
41.92 - 40.23	41363	7892	49255	93.46	18.00	111.46	70.1%		63.1%											
40.23 - 39.98	41363	7892	49255	93.46	18.00	111.46	70,3%		63,3%											
39.98 - 34.98	41363	7892	49255	93.46	18.00	111.46	74,7%		67,3%											
34.98 - 29.98	41363	7892	49255	93.46	18.00	111.46	79.2%		71.3%											
29.98 - 28	41363	7892	49255	93.46	18.00	111.46	81.1%		73.0%											
28 - 27.75	41368	17587	58955	93.46	42.00	135.46	68.2%		60.0%							60.2%				
27.75 - 22.75	41368	17587	58955	93.46	42.00	135.46	72.1%		63.5%							63.7%				
22.75 - 20.08	41368	17587	58955	93.46	42.00	135.46	74.3%		65.3%							65.6%				
20.08 - 19.83	51381	n/a	51381	116.58	n/a	116.58	82.9%													
19.83 - 17	51381	n/a	51381	116.58	n/a	116.58	85.5%													
17 - 16.75	51383	8145	59528	116.58	24.00	140.58	74.0%								65.1%					
16.75 - 11.65	51395	9920	61315	116.58	27.00	143.58	76.3%							76.0%	68.2%					
11.65 - 11.42	51395	9920	61315	116.58	27.00	143.58	76.5%							76.2%	68.3%					
11.42 - 9.4	51395	9920	61315	116.58	27.00	143.58	78.0%							77.7%	69.7%					
9.4 - 9.15	51382	13787	65169	116.58	33.00	149.58	73,0%	77.0%						77.6%	66.3%					
9.15 - 4.83	51382	13787	65169	116.58	33.00	149.58	76.2%	80.3%						81.0%	69.2%					
4.83 - 4.58	51446	9839	61284	116.58	30.00	146.58	82.8%	80.7%							72.1%					
4.58 - 0	51446	9839	61284	116.58	30.00	146.58	86.5%	84.2%							75.3%					

Note: Section capacity checked using 5 degree increments.
Rating per TIA-222-H Section 15.5.

Monopole Flange Plate Connection

Elevation = 181.583 ft.

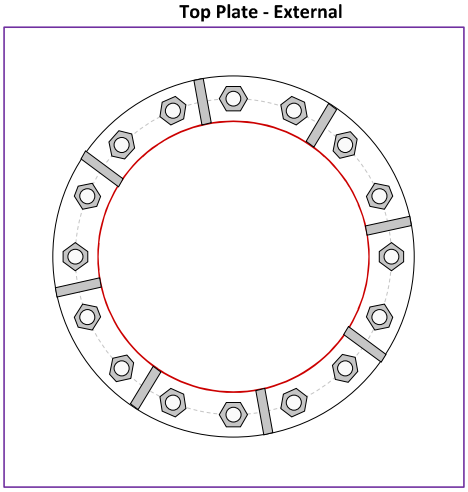
BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1

TIA-222 Revision	H

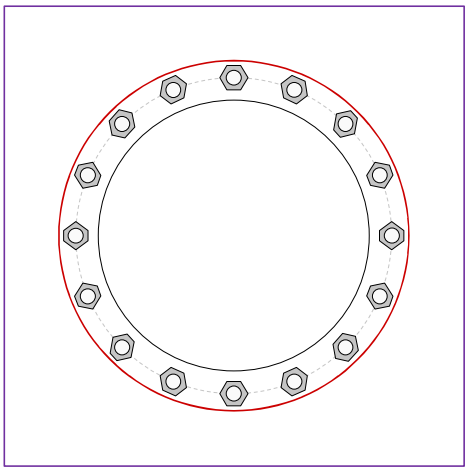
Applied Loads	
Moment (kip-ft)	8.58
Axial Force (kips)	1.18
Shear Force (kips)	0.98

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(16) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 21" BC

Top Plate Data

24" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

18" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

(8) 5"H x 3"W x 0.625"T, Notch: 0.75"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Bottom Stiffener Data

N/A

Top Pole Data

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

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	1.15	
Allowable (kips)	54.54	
Stress Rating:	**2.0%**	Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Top Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Bottom Stiffener Capacity

Horizontal Weld:	**N/A**
Vertical Weld:	**N/A**
Plate Flexure+Shear:	**N/A**
Plate Tension+Shear:	**N/A**
Plate Compression:	**N/A**

Top Pole Capacity

Punching Shear:	**Pirod OK**

Bottom Pole Capacity

Punching Shear:	**N/A**

Monopole Flange Plate Connection

Elevation = 141.417 ft.

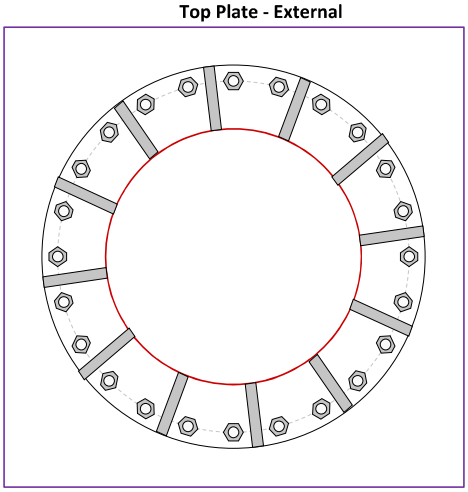
BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1

TIA-222 Revision	H

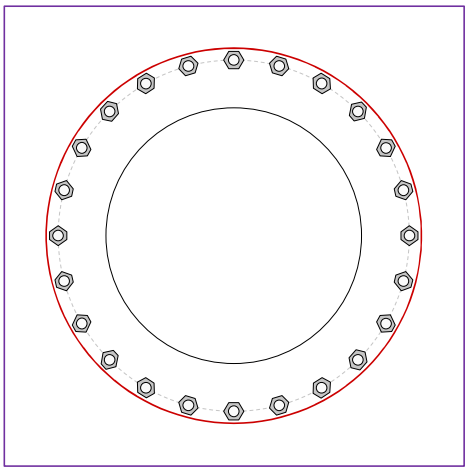
Applied Loads	
Moment (kip-ft)	491.54
Axial Force (kips)	21.88
Shear Force (kips)	21.18

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(24) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 33" BC

Top Plate Data

36" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

24" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

(12) 8"H x 6"W x 1"T, Notch: 1"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Bottom Stiffener Data

N/A

Top Pole Data

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

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	28.87	
Allowable (kips)	54.52	
Stress Rating:	**50.4%**	Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Top Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Bottom Stiffener Capacity

Horizontal Weld:	**N/A**
Vertical Weld:	**N/A**
Plate Flexure+Shear:	**N/A**
Plate Tension+Shear:	**N/A**
Plate Compression:	**N/A**

Top Pole Capacity

Punching Shear:	**Pirod OK**

Bottom Pole Capacity

Punching Shear:	**N/A**

MORRISON HERSHFIELD

Flange Connection Force Distribution

Site Data	
Site ID:	826217
Site Name:	Newington_1
Order ID:	556634 Rev. 1

Flange Connection Data		
Number of Bolts:	28	
Flange Bolt Diameter:	1	in
Bolt Circle:	39.00	in
Areaof Bolt:	0.79	in^2
Moment of Inertia:	4181.07	in^4
Jump Plates (Configuration #1)		
Number of Bridge Stiffeners:	3	
Bridge Stiffener Wdith:	4.5	in
Bridge Stiffener Thickness:	1.00	in
Bolt Circle of Bridge Stiffener:	44.00	in
Area of Stiffener:	4.50	in^2
Moment of Inertia:	3267.00	in^4

Reactions		
Mu:	947.61	kips-ft
Axial, Pu:	28	kip
Shear, Vu:	24.17	kip
Elevation:	121.2	ft

Forces on Flange Bolts		
Moment:	531.95	kips-ft
Axial:	17.35	kip
Shear:	24.17	kip

Forces on Bridge Stiffener #1		
Moment:	415.66	kips-ft
Axial:	10.65	kip

Monopole Flange Plate Connection

Elevation = 121.167 ft.

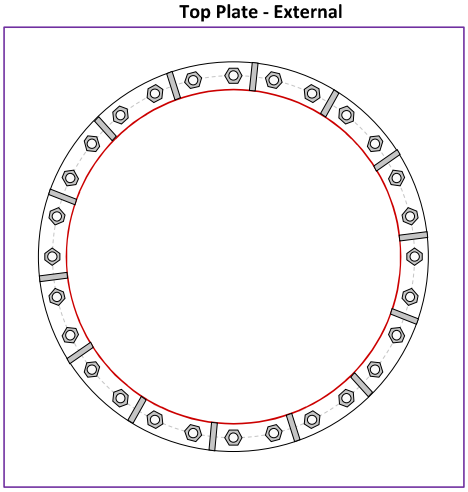
BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1

TIA-222 Revision	H

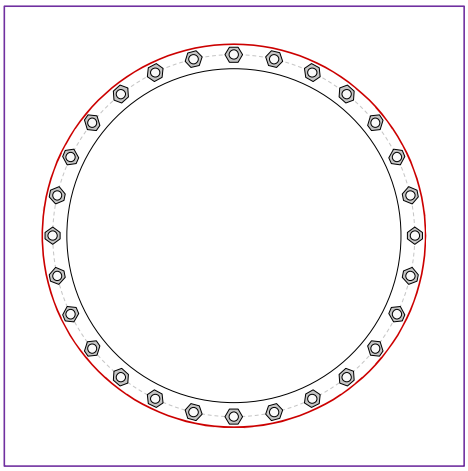
Applied Loads	
Moment (kip-ft)	531.95
Axial Force (kips)	17.35
Shear Force (kips)	24.17

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(28) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 39" BC

Top Plate Data

42" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

36" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

(14) 5"H x 3"W x 0.625"T, Notch: 0.75"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Bottom Stiffener Data

N/A

Top Pole Data

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

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	22.76	
Allowable (kips)	54.52	
Stress Rating:	**39.8%**	Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Top Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Bottom Stiffener Capacity

Horizontal Weld:	**N/A**
Vertical Weld:	**N/A**
Plate Flexure+Shear:	**N/A**
Plate Tension+Shear:	**N/A**
Plate Compression:	**N/A**

Top Pole Capacity

Punching Shear:	**Pirod OK**

Bottom Pole Capacity

Punching Shear:	**N/A**

MORRISON HERSHFIELD

Flange Connection Force Distribution

Site Data	
Site ID:	826217
Site Name:	Newington_1
Order ID:	556634 Rev. 1

Reactions		
Mu:	1547.93	kips-ft
Axial, Pu:	39.17	kip
Shear, Vu:	33.16	kip
Elevation:	100.9	ft

Flange Connection Data		
Number of Bolts:	32	
Flange Bolt Diameter:	1	in
Bolt Circle:	45.00	in
Areaof Bolt:	0.79	in^2
Moment of Inertia:	6361.73	in^4
Jump Plates (Configuration #1)		
Number of Bridge Stiffeners:	6	
Bridge Stiffener Wdith:	4.5	in
Bridge Stiffener Thickness:	1.00	in
Bolt Circle of Bridge Stiffener:	49.00	in
Area of Stiffener:	4.50	in^2
Moment of Inertia:	8103.38	in^4

Forces on Flange Bolts		
Moment:	680.78	kips-ft
Axial:	18.88	kip
Shear:	33.16	kip

Forces on Bridge Stiffener #1		
Moment:	867.15	kips-ft
Axial:	20.29	kip

Monopole Flange Plate Connection

Elevation = 100.917 ft.

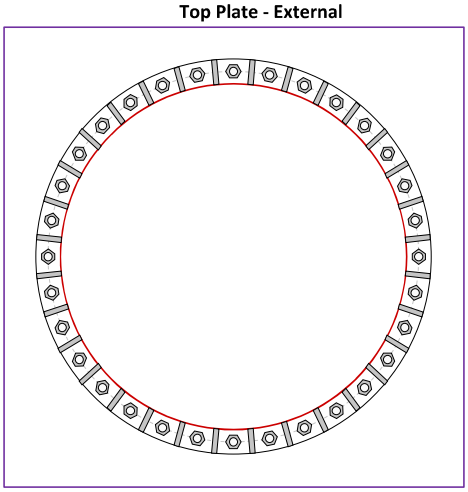
BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1

TIA-222 Revision	H

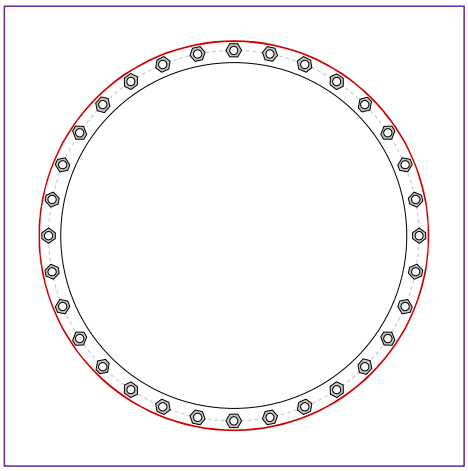
Applied Loads	
Moment (kip-ft)	680.78
Axial Force (kips)	18.88
Shear Force (kips)	33.16

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(32) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 45" BC

Top Plate Data

48" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

42" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

(32) 5"H x 3"W x 0.625"T, Notch: 0.75"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Bottom Stiffener Data

N/A

Top Pole Data

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

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	22.10	
Allowable (kips)	54.52	
Stress Rating:	**38.6%**	Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Top Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Bottom Stiffener Capacity

Horizontal Weld:	**N/A**
Vertical Weld:	**N/A**
Plate Flexure+Shear:	**N/A**
Plate Tension+Shear:	**N/A**
Plate Compression:	**N/A**

Top Pole Capacity

Punching Shear:	**Pirod OK**

Bottom Pole Capacity

Punching Shear:	**N/A**

MORRISON HERSHFIELD

Flange Connection Force Distribution

Site Data	
Site ID:	826217
Site Name:	Newington_1
Order ID:	556634 Rev. 1

Flange Connection Data		
Number of Bolts:	36	
Flange Bolt Diameter:	1	in
Bolt Circle:	51.00	in
Areaof Bolt:	0.79	in^2
Moment of Inertia:	9192.69	in^4
Jump Plates (Configuration #1)		
Number of Bridge Stiffeners:	3	
Bridge Stiffener Wdith:	4.5	in
Bridge Stiffener Thickness:	1.00	in
Bolt Circle of Bridge Stiffener:	55.00	in
Area of Stiffener:	4.50	in^2
Moment of Inertia:	5104.69	in^4
Jump Plates (Configuration #2)		
Number of Bridge Stiffeners:	3	
Bridge Stiffener Wdith:	6.5	in
Bridge Stiffener Thickness:	1.25	in
Bolt Circle of Bridge Stiffener:	55.13	in
Area of Stiffener:	8.13	in^2
Moment of Inertia:	9259.07	in^4

Reactions		
Mu:	2274.61	kips-ft
Axial, Pu:	49.72	kip
Shear, Vu:	39.3	kip
Elevation:	80.83	ft

Forces on Flange Bolts		
Moment:	887.65	kips-ft
Axial:	21.25	kip
Shear:	39.3	kip

Forces on Bridge Stiffener #1		
Moment:	492.91	kips-ft
Axial:	10.15	kip

Forces on Bridge Stiffener #2		
Moment:	894.06	kips-ft
Axial:	18.32	kip

Monopole Flange Plate Connection

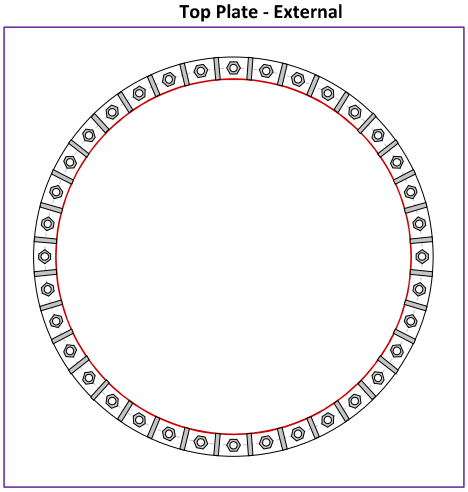
Elevation = 80.833 ft.

BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1
TIA-222 Revision	H

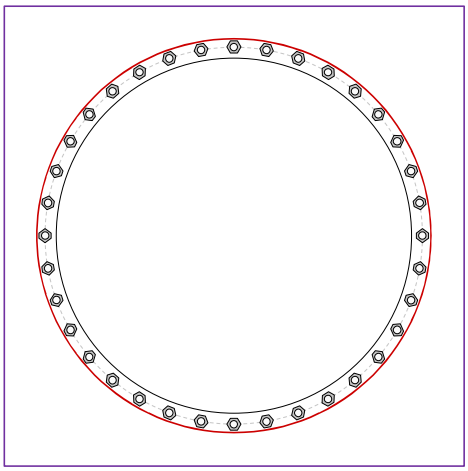
Applied Loads	
Moment (kip-ft)	887.62
Axial Force (kips)	21.25
Shear Force (kips)	39.30

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(36) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 51" BC

Top Plate Data

54" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

48" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

(36) 5"H x 3"W x 0.625"T, Notch: 0.75"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Bottom Stiffener Data

N/A

Top Pole Data

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

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	22.61	
Allowable (kips)	54.51	
Stress Rating:	**39.5%**	Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Top Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Bottom Stiffener Capacity

Horizontal Weld:	**N/A**
Vertical Weld:	**N/A**
Plate Flexure+Shear:	**N/A**
Plate Tension+Shear:	**N/A**
Plate Compression:	**N/A**

Top Pole Capacity

Punching Shear:	**Pirod OK**

Bottom Pole Capacity

Punching Shear:	**N/A**

MORRISON HERSHFIELD

Flange Connection Force Distribution

Site Data	
Site ID:	826217
Site Name:	Newington_1
Order ID:	556634 Rev. 1

Flange Connection Data		
Number of Bolts:	48	
Flange Bolt Diameter:	1	in
Bolt Circle:	57.00	in
Areaof Bolt:	0.79	in^2
Moment of Inertia:	15310.55	in^4
Jump Plates (Configuration #1)		
Number of Bridge Stiffeners:	4	
Bridge Stiffener Wdith:	4.5	in
Bridge Stiffener Thickness:	1.00	in
Bolt Circle of Bridge Stiffener:	61.00	in
Area of Stiffener:	4.50	in^2
Moment of Inertia:	8372.25	in^4
Jump Plates (Configuration #2)		
Number of Bridge Stiffeners:	6	
Bridge Stiffener Wdith:	8.5	in
Bridge Stiffener Thickness:	1.25	in
Bolt Circle of Bridge Stiffener:	63.50	in
Area of Stiffener:	10.63	in^2
Moment of Inertia:	32131.99	in^4

Reactions		
Mu:	3137	kips-ft
Axial, Pu:	68.26	kip
Shear, Vu:	46.1	kip
Elevation:	60.58	ft

Forces on Flange Bolts		
Moment:	860.51	kips-ft
Axial:	21.54	kip
Shear:	46.1	kip

Forces on Bridge Stiffener #1		
Moment:	470.55	kips-ft
Axial:	10.29	kip

Forces on Bridge Stiffener #2		
Moment:	1805.94	kips-ft
Axial:	36.43	kip

Monopole Flange Plate Connection

Elevation = 60.583 ft.

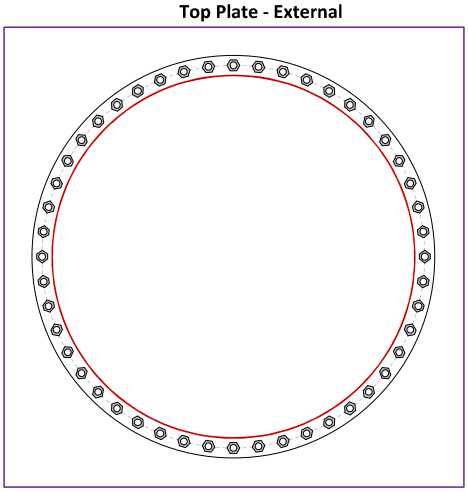
BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1

TIA-222 Revision	H

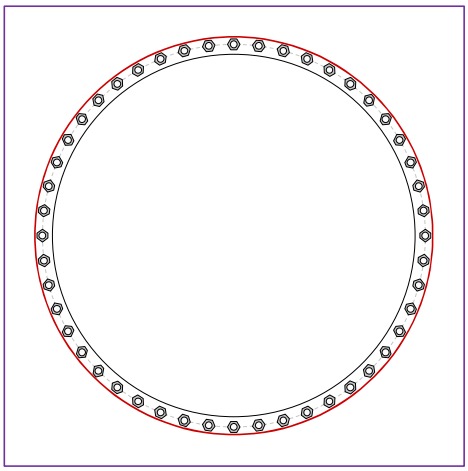
Applied Loads	
Moment (kip-ft)	860.51
Axial Force (kips)	21.54
Shear Force (kips)	46.10

**TIA-222-H Section 15.5 Applied*

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(48) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 57" BC

Top Plate Data

60" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

54" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

N/A

Bottom Stiffener Data

N/A

Top Pole Data

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

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	14.65	
Allowable (kips)	54.52	
Stress Rating:	**25.6%**	Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

MORRISON HERSHFIELD

Flange Connection Force Distribution

Site Data	
Site ID:	826217
Site Name:	Newington_1
Order ID:	556634 Rev. 1

Flange Connection (Bolt Circle 1)		
Number of Bolts:	32	
Flange Bolt Diameter:	1.25	in
Bolt Circle:	47.00	in
Areaof Bolt:	1.23	in^2
Moment of Inertia:	10843.40	in^4
Flange Connection (Bolt Circle 2)		
Number of Bolts:	32	
Flange Bolt Diameter:	1.25	in
Bolt Circle:	53.00	in
Areaof Bolt:	1.23	in
Moment of Inertia:	13788.65	in^2
Jump Plates (Configuration #1)		
Number of Bridge Stiffeners:	6	
Bridge Stiffener Wdith:	1.25	in
Bridge Stiffener Thickness:	6.50	in
Bolt Circle of Bridge Stiffener:	63.75	in
Area of Stiffener:	8.13	in^2
Moment of Inertia:	24765.38	in^4
Jump Plates (Configuration #2)		
Number of Bridge Stiffeners:	4	
Bridge Stiffener Wdith:	1	in
Bridge Stiffener Thickness:	6.00	in
Bolt Circle of Bridge Stiffener:	63.50	in
Area of Stiffener:	6.00	in^2

Reactions		
Mu:	4132.98	kips-ft
Axial, Pu:	82.51	kip
Shear, Vu:	51.78	kip
Elevation:	40.33	ft

Forces on Flange Bolts		
Moment:	728.78	kips-ft
Axial:	21.42	kip
Shear:	51.78	kip

Forces on Bridge Stiffener #1		
Moment:	926.73	kips-ft
Axial:	21.42	kip

Forces on Bridge Stiffener #2		
Moment:	1664.46	kips-ft
Axial:	26.59	kip

Forces on Bridge Stiffener #3		
Moment:	813.01	kips-ft

Monopole Flange Plate Connection

Elevation = 40.333 ft.

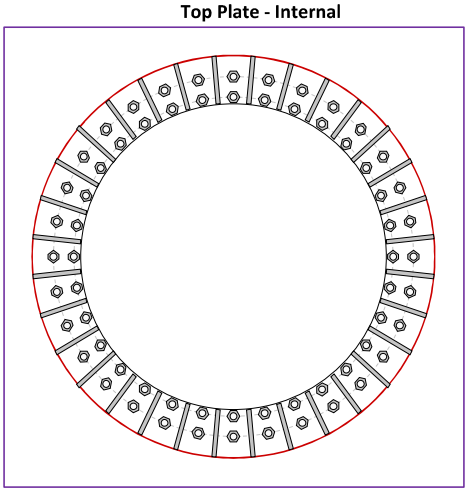
BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1

TIA-222 Revision	H

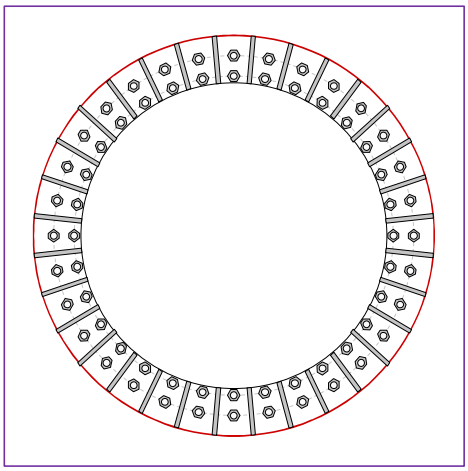
Applied Loads	
Moment (kip-ft)	728.78
Axial Force (kips)	21.42
Shear Force (kips)	51.78

**TIA-222-H Section 15.5 Applied*

Top Plate - Internal



Bottom Plate - Internal



Connection Properties

Bolt Data

GROUP 1: (32) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 53" BC
GROUP 2: (32) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 47" BC

Top Plate Data

45" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data

45" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data

(32) 10"H x 7"W x 0.625"T, Notch: 0.5"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Bottom Stiffener Data

(32) 10"H x 7"W x 0.625"T, Notch: 0.5"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Top Pole Data

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

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	10.87	
Allowable (kips)	54.48	
Stress Rating:	**19.0%**	Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Top Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Bottom Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Top Pole Capacity

Punching Shear:	**Pirod OK**

Bottom Pole Capacity

Punching Shear:	**Pirod OK**

CCIplate

Elevation (ft)	40.333	*(Flange)*

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending
1	Yes	Yes	Yes
2	No	No	Yes

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg_x)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η	I_x (in)^4	Thread Type	Area Override, in^2	Tension Only
1	1	0	1	A325	53	0.5	0	N-Included		No
2	1	11.25	1	A325	53	0.5	0	N-Included		No
3	1	22.5	1	A325	53	0.5	0	N-Included		No
4	1	33.75	1	A325	53	0.5	0	N-Included		No
5	1	45	1	A325	53	0.5	0	N-Included		No
6	1	56.25	1	A325	53	0.5	0	N-Included		No
7	1	67.5	1	A325	53	0.5	0	N-Included		No
8	1	78.75	1	A325	53	0.5	0	N-Included		No
9	1	90	1	A325	53	0.5	0	N-Included		No
10	1	101.25	1	A325	53	0.5	0	N-Included		No
11	1	112.5	1	A325	53	0.5	0	N-Included		No
12	1	123.75	1	A325	53	0.5	0	N-Included		No
13	1	135	1	A325	53	0.5	0	N-Included		No
14	1	146.25	1	A325	53	0.5	0	N-Included		No
15	1	157.5	1	A325	53	0.5	0	N-Included		No
16	1	168.75	1	A325	53	0.5	0	N-Included		No
17	1	180	1	A325	53	0.5	0	N-Included		No
18	1	191.25	1	A325	53	0.5	0	N-Included		No
19	1	202.5	1	A325	53	0.5	0	N-Included		No
20	1	213.75	1	A325	53	0.5	0	N-Included		No
21	1	225	1	A325	53	0.5	0	N-Included		No
22	1	236.25	1	A325	53	0.5	0	N-Included		No
23	1	247.5	1	A325	53	0.5	0	N-Included		No
24	1	258.75	1	A325	53	0.5	0	N-Included		No
25	1	270	1	A325	53	0.5	0	N-Included		No
26	1	281.25	1	A325	53	0.5	0	N-Included		No
27	1	292.5	1	A325	53	0.5	0	N-Included		No
28	1	303.75	1	A325	53	0.5	0	N-Included		No
29	1	315	1	A325	53	0.5	0	N-Included		No
30	1	326.25	1	A325	53	0.5	0	N-Included		No
31	1	337.5	1	A325	53	0.5	0	N-Included		No
32	1	348.75	1	A325	53	0.5	0	N-Included		No
33	2	0	1	A325	47	0.5	0	N-Included		No
34	2	11.25	1	A325	47	0.5	0	N-Included		No
35	2	22.5	1	A325	47	0.5	0	N-Included		No
36	2	33.75	1	A325	47	0.5	0	N-Included		No
37	2	45	1	A325	47	0.5	0	N-Included		No
38	2	56.25	1	A325	47	0.5	0	N-Included		No
39	2	67.5	1	A325	47	0.5	0	N-Included		No
40	2	78.75	1	A325	47	0.5	0	N-Included		No
41	2	90	1	A325	47	0.5	0	N-Included		No
42	2	101.25	1	A325	47	0.5	0	N-Included		No
43	2	112.5	1	A325	47	0.5	0	N-Included		No
44	2	123.75	1	A325	47	0.5	0	N-Included		No
45	2	135	1	A325	47	0.5	0	N-Included		No
46	2	146.25	1	A325	47	0.5	0	N-Included		No
47	2	157.5	1	A325	47	0.5	0	N-Included		No
48	2	168.75	1	A325	47	0.5	0	N-Included		No
49	2	180	1	A325	47	0.5	0	N-Included		No
50	2	191.25	1	A325	47	0.5	0	N-Included		No
51	2	202.5	1	A325	47	0.5	0	N-Included		No
52	2	213.75	1	A325	47	0.5	0	N-Included		No
53	2	225	1	A325	47	0.5	0	N-Included		No
54	2	236.25	1	A325	47	0.5	0	N-Included		No
55	2	247.5	1	A325	47	0.5	0	N-Included		No
56	2	258.75	1	A325	47	0.5	0	N-Included		No
57	2	270	1	A325	47	0.5	0	N-Included		No
58	2	281.25	1	A325	47	0.5	0	N-Included		No
59	2	292.5	1	A325	47	0.5	0	N-Included		No
60	2	303.75	1	A325	47	0.5	0	N-Included		No
61	2	315	1	A325	47	0.5	0	N-Included		No
62	2	326.25	1	A325	47	0.5	0	N-Included		No
63	2	337.5	1	A325	47	0.5	0	N-Included		No
64	2	348.75	1	A325	47	0.5	0	N-Included		No

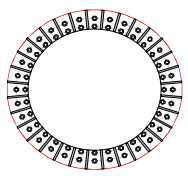
Custom Stiffener Connection - Top Plate

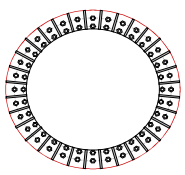
Stiffener	Stiffener Group ID	Location (deg_x)	Width (in)	Height (in)	Thickness (in)	H, Notch (in)	V, Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg_x)	H, Fillet Weld Size (in)	V, Fillet Weld Size (in)	Weld Strength (ksi)
1	1	5.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
2	1	16.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
3	1	28.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
4	1	39.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
5	1	50.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
6	1	61.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
7	1	73.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
8	1	84.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
9	1	95.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
10	1	106.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
11	1	118.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
12	1	129.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
13	1	140.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
14	1	151.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
15	1	163.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
16	1	174.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
17	1	185.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
18	1	196.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
19	1	208.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
20	1	219.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
21	1	230.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
22	1	241.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
23	1	253.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
24	1	264.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
25	1	275.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
26	1	286.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
27	1	298.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
28	1	309.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
29	1	320.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
30	1	331.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
31	1	343.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
32	1	354.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70

Custom Stiffener Connection - Bottom Plate

Stiffener	Stiffener Group ID	Location (deg_x)	Width (in)	Height (in)	Thickness (in)	H, Notch (in)	V, Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg_x)	H, Fillet Weld Size (in)	V, Fillet Weld Size (in)	Weld Strength (ksi)
1	1	5.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
2	1	16.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
3	1	28.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
4	1	39.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
5	1	50.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
6	1	61.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
7	1	73.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
8	1	84.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
9	1	95.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
10	1	106.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
11	1	118.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
12	1	129.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
13	1	140.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
14	1	151.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
15	1	163.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
16	1	174.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
17	1	185.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
18	1	196.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
19	1	208.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
20	1	219.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
21	1	230.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
22	1	241.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
23	1	253.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
24	1	264.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
25	1	275.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
26	1	286.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
27	1	298.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
28	1	309.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
29	1	320.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
30	1	331.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
31	1	343.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
32	1	354.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70

Plot Graphic





MORRISON HERSHFIELD

Flange Connection Force Distribution

Site Data	
Site ID:	826217
Site Name:	Newington_1
Order ID:	556634 Rev. 1

Flange Connection (Bolt Circle 1)		
Number of Bolts:	32	
Flange Bolt Diameter:	1.25	in
Bolt Circle:	47.00	in
Areaof Bolt:	1.23	in^2
Moment of Inertia:	10843.40	in^4
Flange Connection (Bolt Circle 2)		
Number of Bolts:	32	
Flange Bolt Diameter:	1.25	in
Bolt Circle:	53.00	in
Areaof Bolt:	1.23	in
Moment of Inertia:	13788.65	in^2
Jump Plates (Configuration #1)		
Number of Bridge Stiffeners:	6	
Bridge Stiffener Wdith:	1.25	in
Bridge Stiffener Thickness:	6.50	in
Bolt Circle of Bridge Stiffener:	63.75	in
Area of Stiffener:	8.13	in^2
Moment of Inertia:	24765.38	in^4
Jump Plates (Configuration #2)		
Number of Bridge Stiffeners:	4	
Bridge Stiffener Wdith:	1	in
Bridge Stiffener Thickness:	6.00	in
Bolt Circle of Bridge Stiffener:	63.50	in
Area of Stiffener:	6.00	in^2

Reactions		
Mu:	5255.42	kips-ft
Axial, Pu:	97.63	kip
Shear, Vu:	56.51	kip
Elevation:	20.083	ft

Forces on Flange Bolts		
Moment:	926.70	kips-ft
Axial:	25.34	kip
Shear:	56.51	kip

Forces on Bridge Stiffener #1		
Moment:	1178.41	kips-ft
Axial:	25.34	kip

Forces on Bridge Stiffener #2		
Moment:	2116.50	kips-ft
Axial:	31.46	kip

Forces on Bridge Stiffener #3		
Moment:	1033.81	kips-ft

Monopole Flange Plate Connection

Elevation = 20.083 ft.

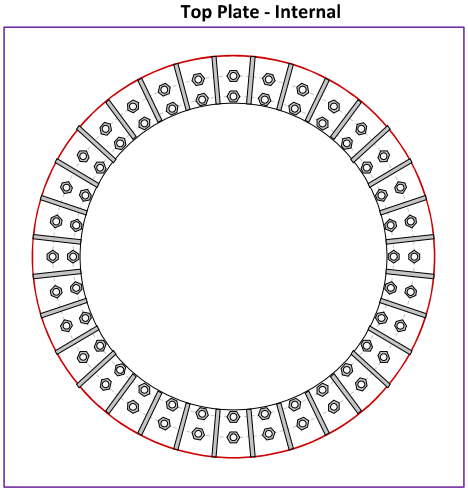
BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1

TIA-222 Revision	H

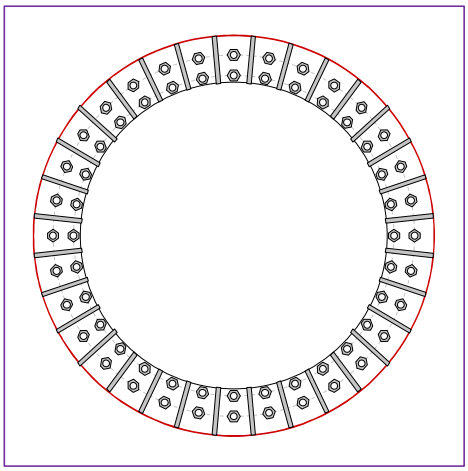
Applied Loads	
Moment (kip-ft)	926.70
Axial Force (kips)	25.35
Shear Force (kips)	56.51

**TIA-222-H Section 15.5 Applied*

Top Plate - Internal



Bottom Plate - Internal



Connection Properties

Bolt Data

GROUP 1: (32) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 53" BC
GROUP 2: (32) 1" ø bolts (A325 N; Fy=92 ksi, Fu=120 ksi) on 47" BC

Top Plate Data
45" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Bottom Plate Data
45" ID x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Top Stiffener Data
(32) 10"H x 7"W x 0.625"T, Notch: 0.5"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Bottom Stiffener Data
(32) 10"H x 7"W x 0.625"T, Notch: 0.5"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Top Pole Data
60" x 0.5" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Bottom Pole Data
60" x 0.625" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Bolt Capacity

Max Load (kips)	13.89	
Allowable (kips)	54.47	
Stress Rating:	**24.3%**	Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Top Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Bottom Stiffener Capacity

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Top Pole Capacity

Punching Shear:	**Pirod OK**

Bottom Pole Capacity

Punching Shear:	**Pirod OK**

CCIplate

Elevation (ft)	20.083	*(Flange)*

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending
1	Yes	Yes	Yes
2	No	No	Yes

Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg_x)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, η	L_t (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	1	A325	53	0.5	0	N-Included		No
2	1	11.25	1	A325	53	0.5	0	N-Included		No
3	1	22.5	1	A325	53	0.5	0	N-Included		No
4	1	33.75	1	A325	53	0.5	0	N-Included		No
5	1	45	1	A325	53	0.5	0	N-Included		No
6	1	56.25	1	A325	53	0.5	0	N-Included		No
7	1	67.5	1	A325	53	0.5	0	N-Included		No
8	1	78.75	1	A325	53	0.5	0	N-Included		No
9	1	90	1	A325	53	0.5	0	N-Included		No
10	1	101.25	1	A325	53	0.5	0	N-Included		No
11	1	112.5	1	A325	53	0.5	0	N-Included		No
12	1	123.75	1	A325	53	0.5	0	N-Included		No
13	1	135	1	A325	53	0.5	0	N-Included		No
14	1	146.25	1	A325	53	0.5	0	N-Included		No
15	1	157.5	1	A325	53	0.5	0	N-Included		No
16	1	168.75	1	A325	53	0.5	0	N-Included		No
17	1	180	1	A325	53	0.5	0	N-Included		No
18	1	191.25	1	A325	53	0.5	0	N-Included		No
19	1	202.5	1	A325	53	0.5	0	N-Included		No
20	1	213.75	1	A325	53	0.5	0	N-Included		No
21	1	225	1	A325	53	0.5	0	N-Included		No
22	1	236.25	1	A325	53	0.5	0	N-Included		No
23	1	247.5	1	A325	53	0.5	0	N-Included		No
24	1	258.75	1	A325	53	0.5	0	N-Included		No
25	1	270	1	A325	53	0.5	0	N-Included		No
26	1	281.25	1	A325	53	0.5	0	N-Included		No
27	1	292.5	1	A325	53	0.5	0	N-Included		No
28	1	303.75	1	A325	53	0.5	0	N-Included		No
29	1	315	1	A325	53	0.5	0	N-Included		No
30	1	326.25	1	A325	53	0.5	0	N-Included		No
31	1	337.5	1	A325	53	0.5	0	N-Included		No
32	1	348.75	1	A325	53	0.5	0	N-Included		No
33	2	0	1	A325	47	0.5	0	N-Included		No
34	2	11.25	1	A325	47	0.5	0	N-Included		No
35	2	22.5	1	A325	47	0.5	0	N-Included		No
36	2	33.75	1	A325	47	0.5	0	N-Included		No
37	2	45	1	A325	47	0.5	0	N-Included		No
38	2	56.25	1	A325	47	0.5	0	N-Included		No
39	2	67.5	1	A325	47	0.5	0	N-Included		No
40	2	78.75	1	A325	47	0.5	0	N-Included		No
41	2	90	1	A325	47	0.5	0	N-Included		No
42	2	101.25	1	A325	47	0.5	0	N-Included		No
43	2	112.5	1	A325	47	0.5	0	N-Included		No
44	2	123.75	1	A325	47	0.5	0	N-Included		No
45	2	135	1	A325	47	0.5	0	N-Included		No
46	2	146.25	1	A325	47	0.5	0	N-Included		No
47	2	157.5	1	A325	47	0.5	0	N-Included		No
48	2	168.75	1	A325	47	0.5	0	N-Included		No
49	2	180	1	A325	47	0.5	0	N-Included		No
50	2	191.25	1	A325	47	0.5	0	N-Included		No
51	2	202.5	1	A325	47	0.5	0	N-Included		No
52	2	213.75	1	A325	47	0.5	0	N-Included		No
53	2	225	1	A325	47	0.5	0	N-Included		No
54	2	236.25	1	A325	47	0.5	0	N-Included		No
55	2	247.5	1	A325	47	0.5	0	N-Included		No
56	2	258.75	1	A325	47	0.5	0	N-Included		No
57	2	270	1	A325	47	0.5	0	N-Included		No
58	2	281.25	1	A325	47	0.5	0	N-Included		No
59	2	292.5	1	A325	47	0.5	0	N-Included		No
60	2	303.75	1	A325	47	0.5	0	N-Included		No
61	2	315	1	A325	47	0.5	0	N-Included		No
62	2	326.25	1	A325	47	0.5	0	N-Included		No
63	2	337.5	1	A325	47	0.5	0	N-Included		No
64	2	348.75	1	A325	47	0.5	0	N-Included		No

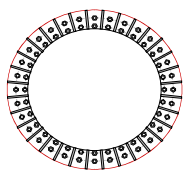
Custom Stiffener Connection - Top Plate

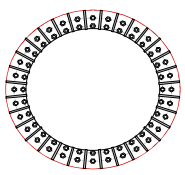
Stiffener	Stiffener Group ID	Location (deg_x)	Width (in)	Height (in)	Thickness (in)	H, Notch (in)	V, Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg_x)	H, Fillet Weld Size (in)	V, Fillet Weld Size (in)	Weld Strength (ksi)
1	1	5.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
2	1	16.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
3	1	28.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
4	1	39.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
5	1	50.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
6	1	61.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
7	1	73.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
8	1	84.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
9	1	95.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
10	1	106.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
11	1	118.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
12	1	129.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
13	1	140.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
14	1	151.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
15	1	163.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
16	1	174.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
17	1	185.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
18	1	196.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
19	1	208.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
20	1	219.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
21	1	230.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
22	1	241.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
23	1	253.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
24	1	264.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
25	1	275.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
26	1	286.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
27	1	298.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
28	1	309.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
29	1	320.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
30	1	331.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
31	1	343.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
32	1	354.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70

Custom Stiffener Connection - Bottom Plate

Stiffener	Stiffener Group ID	Location (deg_x)	Width (in)	Height (in)	Thickness (in)	H, Notch (in)	V, Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg_x)	H, Fillet Weld Size (in)	V, Fillet Weld Size (in)	Weld Strength (ksi)
1	1	5.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
2	1	16.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
3	1	28.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
4	1	39.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
5	1	50.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
6	1	61.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
7	1	73.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
8	1	84.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
9	1	95.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
10	1	106.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
11	1	118.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
12	1	129.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
13	1	140.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
14	1	151.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
15	1	163.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
16	1	174.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
17	1	185.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
18	1	196.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
19	1	208.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
20	1	219.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
21	1	230.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
22	1	241.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
23	1	253.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
24	1	264.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
25	1	275.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
26	1	286.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
27	1	298.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
28	1	309.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
29	1	320.625	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
30	1	331.875	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
31	1	343.125	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70
32	1	354.375	7	10	0.625	0.5	0.5	36	Fillet			0.3125	0.3125	70

Plot Graphic





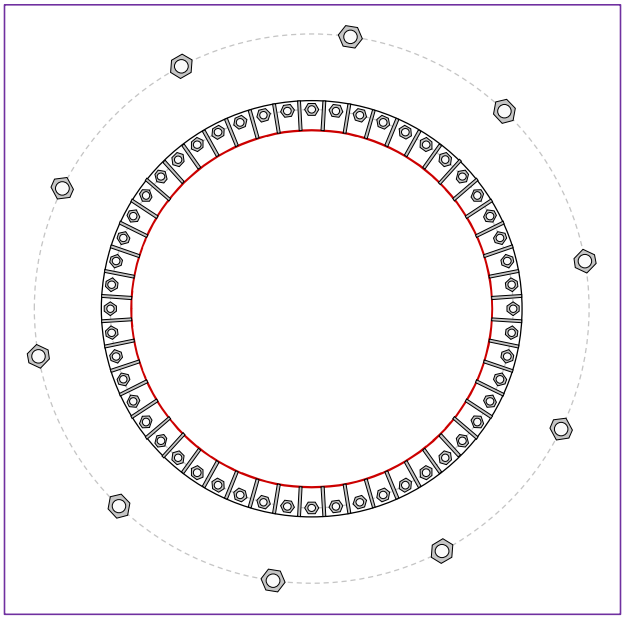
Monopole Base Plate Connection

Site Info	
BU #	826217
Site Name	Newington_1
Order #	556634 Rev. 1

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	See Custom Sheet
I_{ar} (in)	See Custom Sheet

Applied Loads	
Moment (kip-ft)	6399.16
Axial Force (kips)	112.53
Shear Force (kips)	60.04

**TIA-222-H Section 15.5 Applied*



Connection Properties

Anchor Rod Data

GROUP 1: (52) 1-1/4" ø bolts (A687 N; Fy=105 ksi, Fu=125 ksi) on 67" BC
GROUP 2: (10) 2-1/4" ø bolts (A687 N; Fy=105 ksi, Fu=125 ksi) on 92.3" BC

Base Plate Data

70" OD x 1.25" Plate (A36; Fy=36 ksi, Fu=58 ksi)

Stiffener Data

(52) 6"H x 5"W x 0.5"T, Notch: 0.5"
plate: Fy= 36 ksi ; weld: Fy= 70 ksi
horiz. weld: 0.3125" fillet
vert. weld: 0.3125" fillet

Pole Data

60" x 0.625" round pole (A53-B-42; Fy=42 ksi, Fu=63 ksi)

Analysis Results

Anchor Rod Summary *(units of kips, kip-in)*

GROUP 1:		
Pu_t = 38.32	ϕPn_t = 90.84	**Stress Rating**
Vu = 0.7	ϕVn = 57.52	**40.2%**
Mu = n/a	ϕMn = n/a	**Pass**
GROUP 2:		
Pu_t = 178.71	ϕPn_t = 304.69	**Stress Rating**
Vu = 2.35	ϕVn = 186.38	**55.9%**
Mu = n/a	ϕMn = n/a	**Pass**

Base Plate Summary

Max Stress (ksi):	-
Allowable Stress (ksi):	-
Stress Rating:	**Pirod OK**

Stiffener Summary

Horizontal Weld:	**Pirod OK**
Vertical Weld:	**Pirod OK**
Plate Flexure+Shear:	**Pirod OK**
Plate Tension+Shear:	**Pirod OK**
Plate Compression:	**Pirod OK**

Pole Summary

Punching Shear:	**Pirod OK**

CCIplate

Elevation (ft)	0	*(Base)*

note: Bending interaction not considered when Grout Considered = "Yes"

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending	Grout Considered	Apply at BARB Elevation	BARB CL Elevation (ft)
1	Yes	Yes	Yes	Yes	No	
2	Yes	Yes	No	No	No	

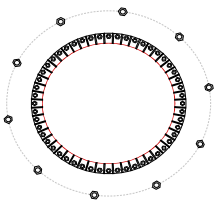
Custom Bolt Connection

Bolt	Bolt Group ID	Location (deg_A)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, n:	l_e (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	1.25	A687	67	0.55	0	N-Included		No
2	1	6.9230769	1.25	A687	67	0.55	0	N-Included		No
3	1	13.846154	1.25	A687	67	0.55	0	N-Included		No
4	1	20.769231	1.25	A687	67	0.55	0	N-Included		No
5	1	27.692308	1.25	A687	67	0.55	0	N-Included		No
6	1	34.615385	1.25	A687	67	0.55	0	N-Included		No
7	1	41.538462	1.25	A687	67	0.55	0	N-Included		No
8	1	48.461538	1.25	A687	67	0.55	0	N-Included		No
9	1	55.384615	1.25	A687	67	0.55	0	N-Included		No
10	1	62.307692	1.25	A687	67	0.55	0	N-Included		No
11	1	69.230769	1.25	A687	67	0.55	0	N-Included		No
12	1	76.153846	1.25	A687	67	0.55	0	N-Included		No
13	1	83.076923	1.25	A687	67	0.55	0	N-Included		No
14	1	90	1.25	A687	67	0.55	0	N-Included		No
15	1	96.923077	1.25	A687	67	0.55	0	N-Included		No
16	1	103.84615	1.25	A687	67	0.55	0	N-Included		No
17	1	110.76923	1.25	A687	67	0.55	0	N-Included		No
18	1	117.69231	1.25	A687	67	0.55	0	N-Included		No
19	1	124.61538	1.25	A687	67	0.55	0	N-Included		No
20	1	131.53846	1.25	A687	67	0.55	0	N-Included		No
21	1	138.46154	1.25	A687	67	0.55	0	N-Included		No
22	1	145.38462	1.25	A687	67	0.55	0	N-Included		No
23	1	152.30769	1.25	A687	67	0.55	0	N-Included		No
24	1	159.23077	1.25	A687	67	0.55	0	N-Included		No
25	1	166.15385	1.25	A687	67	0.55	0	N-Included		No
26	1	173.07692	1.25	A687	67	0.55	0	N-Included		No
27	1	180	1.25	A687	67	0.55	0	N-Included		No
28	1	186.92308	1.25	A687	67	0.55	0	N-Included		No
29	1	193.84615	1.25	A687	67	0.55	0	N-Included		No
30	1	200.76923	1.25	A687	67	0.55	0	N-Included		No
31	1	207.69231	1.25	A687	67	0.55	0	N-Included		No
32	1	214.61538	1.25	A687	67	0.55	0	N-Included		No
33	1	221.53846	1.25	A687	67	0.55	0	N-Included		No
34	1	228.46154	1.25	A687	67	0.55	0	N-Included		No
35	1	235.38462	1.25	A687	67	0.55	0	N-Included		No
36	1	242.30769	1.25	A687	67	0.55	0	N-Included		No
37	1	249.23077	1.25	A687	67	0.55	0	N-Included		No
38	1	256.15385	1.25	A687	67	0.55	0	N-Included		No
39	1	263.07692	1.25	A687	67	0.55	0	N-Included		No
40	1	270	1.25	A687	67	0.55	0	N-Included		No
41	1	276.92308	1.25	A687	67	0.55	0	N-Included		No
42	1	283.84615	1.25	A687	67	0.55	0	N-Included		No
43	1	290.76923	1.25	A687	67	0.55	0	N-Included		No
44	1	297.69231	1.25	A687	67	0.55	0	N-Included		No
45	1	304.61538	1.25	A687	67	0.55	0	N-Included		No
46	1	311.53846	1.25	A687	67	0.55	0	N-Included		No
47	1	318.46154	1.25	A687	67	0.55	0	N-Included		No
48	1	325.38462	1.25	A687	67	0.55	0	N-Included		No
49	1	332.30769	1.25	A687	67	0.55	0	N-Included		No
50	1	339.23077	1.25	A687	67	0.55	0	N-Included		No
51	1	346.15385	1.25	A687	67	0.55	0	N-Included		No
52	1	353.07692	1.25	A687	67	0.55	0	N-Included		No
53	2	10	2.25	A687	92.3	0.5	0	N-Included		No
54	2	46	2.25	A687	92.3	0.5	0	N-Included		No
55	2	82	2.25	A687	92.3	0.5	0	N-Included		No
56	2	118	2.25	A687	92.3	0.5	0	N-Included		No
57	2	154	2.25	A687	92.3	0.5	0	N-Included		No
58	2	190	2.25	A687	92.3	0.5	0	N-Included		No
59	2	226	2.25	A687	92.3	0.5	0	N-Included		No
60	2	262	2.25	A687	92.3	0.5	0	N-Included		No
61	2	298	2.25	A687	92.3	0.5	0	N-Included		No
62	2	334	2.25	A687	92.3	0.5	0	N-Included		No

Custom Stiffener Connection

Stiffener	Stiffener Group ID	Location (deg_A)	Width (in)	Height (in)	Thickness (in)	H_n Notch (in)	V_n Notch (in)	Grade (ksi)	Weld Type	Groove Depth (in)	Groove Angle (deg_A)	H_n Fillet Weld Size (in)	V_n Fillet Weld Size (in)	Weld Strength (ksi)
1	1	3.4615385	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
2	1	10.384615	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
3	1	17.307692	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
4	1	24.230769	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
5	1	31.153846	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
6	1	38.076923	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
7	1	45	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
8	1	51.923077	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
9	1	58.846154	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
10	1	65.769231	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
11	1	72.692308	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
12	1	79.615385	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
13	1	86.538462	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
14	1	93.461538	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
15	1	100.38462	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
16	1	107.30769	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
17	1	114.23077	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
18	1	121.15385	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
19	1	128.07692	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
20	1	135	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
21	1	141.92308	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
22	1	148.84615	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
23	1	155.76923	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
24	1	162.69231	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
25	1	169.61538	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
26	1	176.53846	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
27	1	183.46154	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
28	1	190.38462	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
29	1	197.30769	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
30	1	204.23077	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
31	1	211.15385	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
32	1	218.07692	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
33	1	225	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
34	1	231.92308	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
35	1	238.84615	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
36	1	245.76923	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
37	1	252.69231	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
38	1	259.61538	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
39	1	266.53846	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
40	1	273.46154	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
41	1	280.38462	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
42	1	287.30769	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
43	1	294.23077	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
44	1	301.15385	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
45	1	308.07692	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
46	1	315	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
47	1	321.92308	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
48	1	328.84615	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
49	1	335.76923	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
50	1	342.69231	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
51	1	349.61538	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70
52	1	356.53846	5	6	0.5	0.5	0.5	36	Fillet			0.3125	0.3125	70

Plot Graphic



Pier and Pad Foundation

BU # :	826217
Site Name:	Newington_1
App. Number:	556634 Rev. 1

TIA-222 Revision:	H
Tower Type:	Monopole

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

Superstructure Analysis Reactions

Compression, P_{comp}:	112.54	kips
Base Shear, Vu_comp:	60.01	kips
Moment, M_u:	5199.16	ft-kips
Tower Height, **H**:	191.67	ft
BP Dist. Above Fdn, bp_{dist}:	2.5	in

Pier Properties

Pier Shape:	Circular	
Pier Diameter, **dpier**:	7	ft
Ext. Above Grade, **E**:	0.5	ft
Pier Rebar Size, **Sc**:	9	
Pier Rebar Quantity, **mc**:	34	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	11	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties

Depth, **D**:	9	ft
Pad Width, W_1:	20.5	ft
Pad Thickness, **T**:	2.5	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	11	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	30	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties

Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, δ**c**:	150	pcf

Soil Properties

Total Soil Unit Weight, γ:	130	pcf
Ultimate Gross Bearing, Qult:	16.000	ksf
Cohesion, **Cu**:	0.000	ksf
Friction Angle, φ:	36	degrees
SPT Blow Count, N_{blows}:		
Base Friction, μ:	0.35	
Neglected Depth, **N**:	3.33	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	N/A	ft

<--Toggle between Gross and Net

Foundation Analysis Checks

	Capacity	Demand	Rating*	Check
Lateral (Sliding) (kips)	335.27	60.01	**17.0%**	**Pass**
Bearing Pressure (ksf)	12.00	7.48	**62.3%**	**Pass**
*Overturning (kip*ft)*	6453.20	5781.76	**89.6%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	5694.07	5619.23	**94.0%**	**Pass**
Pier Compression (kip)	24494.62	161.03	**0.6%**	**Pass**
*Pad Flexure (kip*ft)*	4887.26	3219.56	**62.7%**	**Pass**
Pad Shear - 1-way (kips)	580.76	505.25	**82.9%**	**Pass**
Pad Shear - 2-way (Comp) (ksi)	0.190	0.000	**0.0%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	6892.45	3371.54	**46.6%**	**Pass**

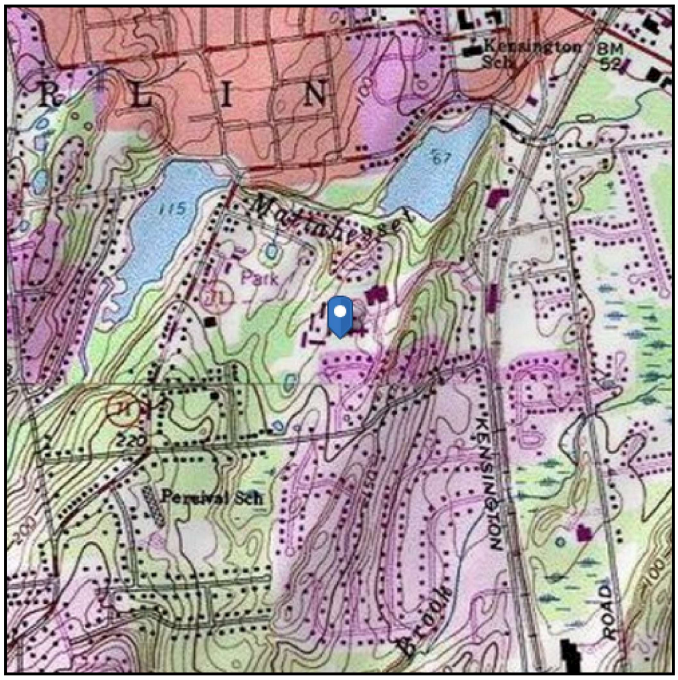
**Rating per TIA-222-H Section 15.5*

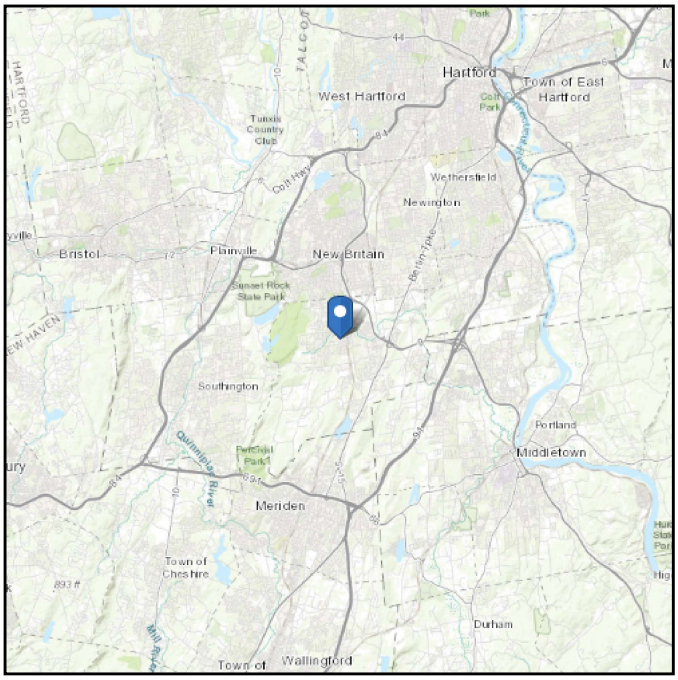
Structural Rating*:	**94.0%**
Soil Rating*:	**89.6%**

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard:	ASCE/SEI 7-10	**Elevation:**	133.49 ft (NAVD 88)
Risk Category:	II	**Latitude:**	41.626194
Soil Class:	D - Stiff Soil	**Longitude:**	-72.775647





Wind

Results:

Wind Speed:	123 Vmph	125 Vmph as per city exception
10-year MRI	77 Vmph	
25-year MRI	86 Vmph	
50-year MRI	93 Vmph	
100-year MRI	100 Vmph	

Data Accessed: Tue Aug 24 2021

Date Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

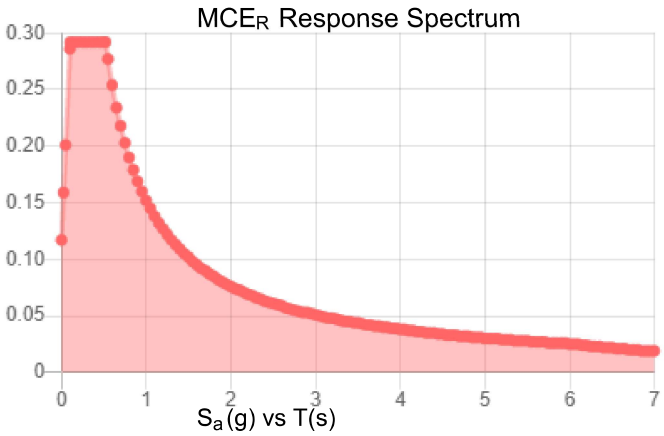
Seismic

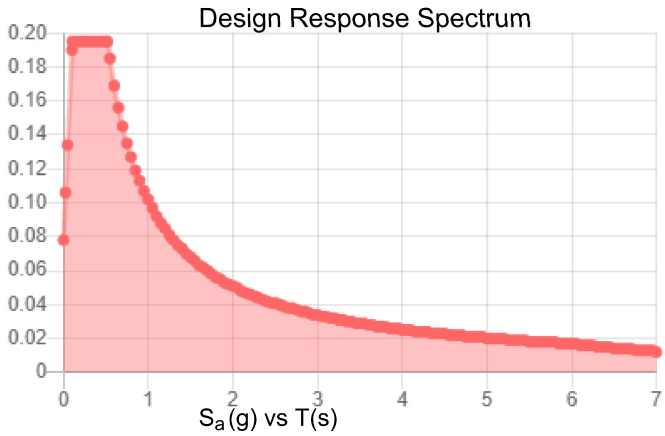
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.183	S_{DS} :	0.195
S_1 :	0.063	S_{D1} :	0.102
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.093
S_{MS} :	0.292	PGA_M :	0.149
S_{M1} :	0.152	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Tue Aug 24 2021

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.00 in.
Concurrent Temperature:	5 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-10, Figs. 10-2 through 10-8
Date Accessed:	Tue Aug 24 2021

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

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 50-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Exhibit E

Mount Analysis

Date: **September 13, 2021**

Jacob Montoya
Crown Castle
2055 S. Stearman Drive
Chandler, AZ 85286
(480) 298-9641

POD Group
1033 E Turkeyfoot Lake Rd. Suite 206
Akron, OH 44312
(330) 961.7432
aherkenhoff@podgrp.com

Subject:	**Mount Replacement Analysis Report**	
Carrier Designation:	**DISH Network**	
	Carrier Site Number:	**BOBDL00057A**
	Carrier Site Name:	**CT-CCI-T-826217**
Crown Castle Designation:	**Crown Castle BU Number:**	**826217**
	Crown Castle Site Name:	**Newington_1**
	Crown Castle JDE Job Number:	**650046**
	Crown Castle Order Number:	**556634 Rev 1**
Engineering Firm Designation:	**POD Report Designation:**	**21-108453**
Site Data:	**240 Kensington Road, Berlin, Hartford County, CT 06037** **Latitude 41° 37' 34.30" Longitude -72° 46' 32.33"**	
Structure Information:	**Tower Height & Type:**	**190 ft Monopole**
	Mount Elevation:	**172 ft**
	Mount Type:	**8 ft Platform with Support Rail**

Dear Jacob Montoya,

POD Group is pleased to submit this "Mount Replacement Analysis Report" to determine the structural integrity of DISH Network's antenna mounting system with the proposed appurtenance and equipment addition on the abovementioned supporting tower structure. Analysis of the existing supporting tower structure is to be completed by others and therefore is not part of this analysis. Analysis of the antenna mounting system as a tie-off point for fall protection or rigging is not part of this document.

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

8 ft Platform with Support Rail (Multiple Sector) Sufficient *
***See Section 4.1 of this report for the loading and structural modifications required in order for the mount to support the loading listed in Table 1.**

This analysis utilizes an ultimate 3-second gust wind speed of 123 mph as required by the 2015 International Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Mount structural analysis prepared by: Ethan Wiest

Respectfully submitted by:

Jason Cheronis
Digitally signed by Jason Cheronis
Date: 2021.09.13 16:54:08 -04'00'

Jason Cheronis, PE
Connecticut PE#: 0032793

TABLE OF CONTENTS

1) INTRODUCTION

This mount is a proposed 8 ft Platform with Support Rail designed by Commscope (P/n: MC-PK8-DSH). This mount is to be installed at the 172 ft elevation of the 190 ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2015 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	123 mph
Exposure Category:	B
Topographic Factor at Base:	1.000
Topographic Factor at Mount:	1.000
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.183
Seismic S_1:	0.063
Live Loading Wind Speed:	30 mph
Man Live Load at Mid/End-Points:	250 lb
Man Live Load at Mount Pipes:	500 lb

Table 1 - Proposed Equipment Configuration

Mount Centerline (ft)	Antenna Centerline (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Mount / Modification Details	Note
172	171	3	JMA WIRELESS	MX08FRO665-21	8 ft Platform with Support Rail	1
		3	FUJITSU	TA08025-B604		
		3	FUJITSU	TA08025-B605		
		1	RAYCAP	RDIDC-9181-PF-48		

Notes:
1) Mount centerline adjusted to fit around obstructions on monopole.

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App #: 556634 Rev 1 Dated: 6/11/2021	Crown Castle
Structural Analysis	-	Morrison Hershfield Report #: CN7-585R1 / 2101398 Dated: 8/24/2021	Crown Castle
Tower Mapping Report	-	Tower Engineering Professionals Site #: 826217 Dated: 6/11/2015	Crown Castle
Proposed Base Levels Drawings	-	Crown Castle Sheet #: A1-171 Dated: 8/04/2021	Crown Castle
Mount Specification Sheets	-	Commscope Part #: MC-PK8-DSH Dated: 3/08/2021	Crown Castle

3.1) Analysis Method

RISA-3D (Version 17.0.4), a commercially available analysis software package, was used to create a three-dimensional model of the antenna mounting system and calculate member stresses for various loading cases. Selected output from the analysis are included in the Appendices.

A tool internally developed, using Microsoft Excel, by POD Group, was used to calculate wind loading on all appurtenances, dishes, and mount members for various load cases. Selected output from the calculations is included in Appendix B.

This analysis was performed in accordance with Crown Castle's ENG-SOW-10208 Tower Mount Analysis (Revision B).

3.2) Assumptions

1) The antenna mounting system was properly fabricated, installed, and maintained in good condition in accordance with its original design, TIA Standards, and/or manufacturer's specifications. This is not a condition assessment of the mount, structure, or foundation.
2) The configuration of antennas, mounts, and other appurtenances are as specified in Table 1 and the referenced drawings.
3) All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
4) The weight of the mount was increased 10% in the analysis to account for connections, coax, and jumpers.
5) The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure. POD Group does not analyze the fabrication of the mount or structure (including welding).
6) Steel grades have been used as follows, unless noted otherwise:
    a. Channel, ASTM A1011 (GR 36)
    b. Angle, Plate ASTM A36 (GR 36)
    c. HSS (Rectangular) ASTM 500 (GR B-46)
    d. Pipe ASTM A53 (GR 35)
    e. Connection Bolts ASTM A325

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and POD Group should be allowed to review any new information to determine its effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 3 - Mount Component Stresses vs. Capacity (8 ft Platform with Support Rail)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1	Corner	CORNER4	172	28.7	Pass
	Mount Pipes	MP ALPHA2		24.0	Pass
	Standoff	SO3		22.6	Pass
	Plate	PL1		20.0	Pass
	Face Plate	FPLATE3		16.6	Pass
	Face	FACE1		15.1	Pass
	Rail	RAIL1		13.1	Pass
	Support	SUPP3		12.9	Pass
	Rail Angle	RANGLE3		12.2	Pass
	Standoff Flange Plate Bolts	-	-	3.9	Pass
	Standoff Flange Plate	-	-	29.9	Pass
	Bolts	-	-	4.2	Pass

Structure Rating (max from all components) =	**29.9%**

Notes:
1) See additional documentation in “Appendix C – Software Analysis Output” and “Appendix D – Additional Calculations” for calculations supporting the % capacity

4.1) Recommendations

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

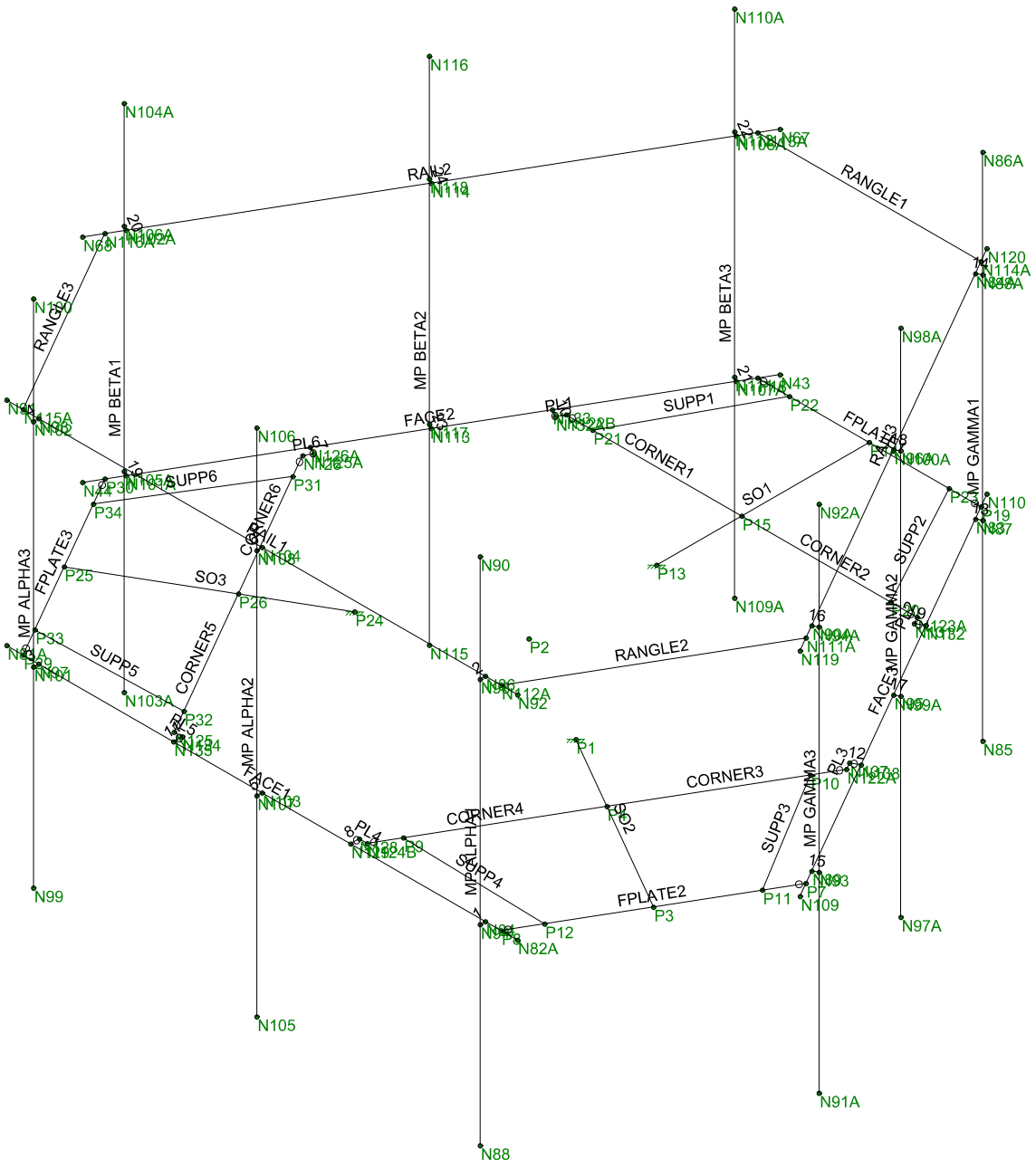
1. Installation of 8 ft Platform with Support Rails designed by Commscope (P/n: MC-PK8-DSH), per manufacturer specifications. The ring mount shall be installed centered at an elevation of 170’-0”.
2. Included 8’-0” P2 STD Mount Pipes shall be installed 3 per sector, vertically centered at 171’-0”, evenly spaced 3’-6” apart.
3. Included Rail Kit shall be installed 3’-4” above the face, as shown in manufacturer specification sheets.

    - All critical measurements and manufacturer specifications for the above specified modification part shall be field verified prior to material ordering.
    - The contractor shall provide shop drawings to POD Group prior to material ordering and/or fabrication of the above specified modification part.
    - Any substitutes, additions, or alterations shall be approved by POD Group prior to material ordering and/or fabrication.

If any of these guidelines are not met, POD Group shall not be held liable.

APPENDIX A

Wire Frame and Rendered Models



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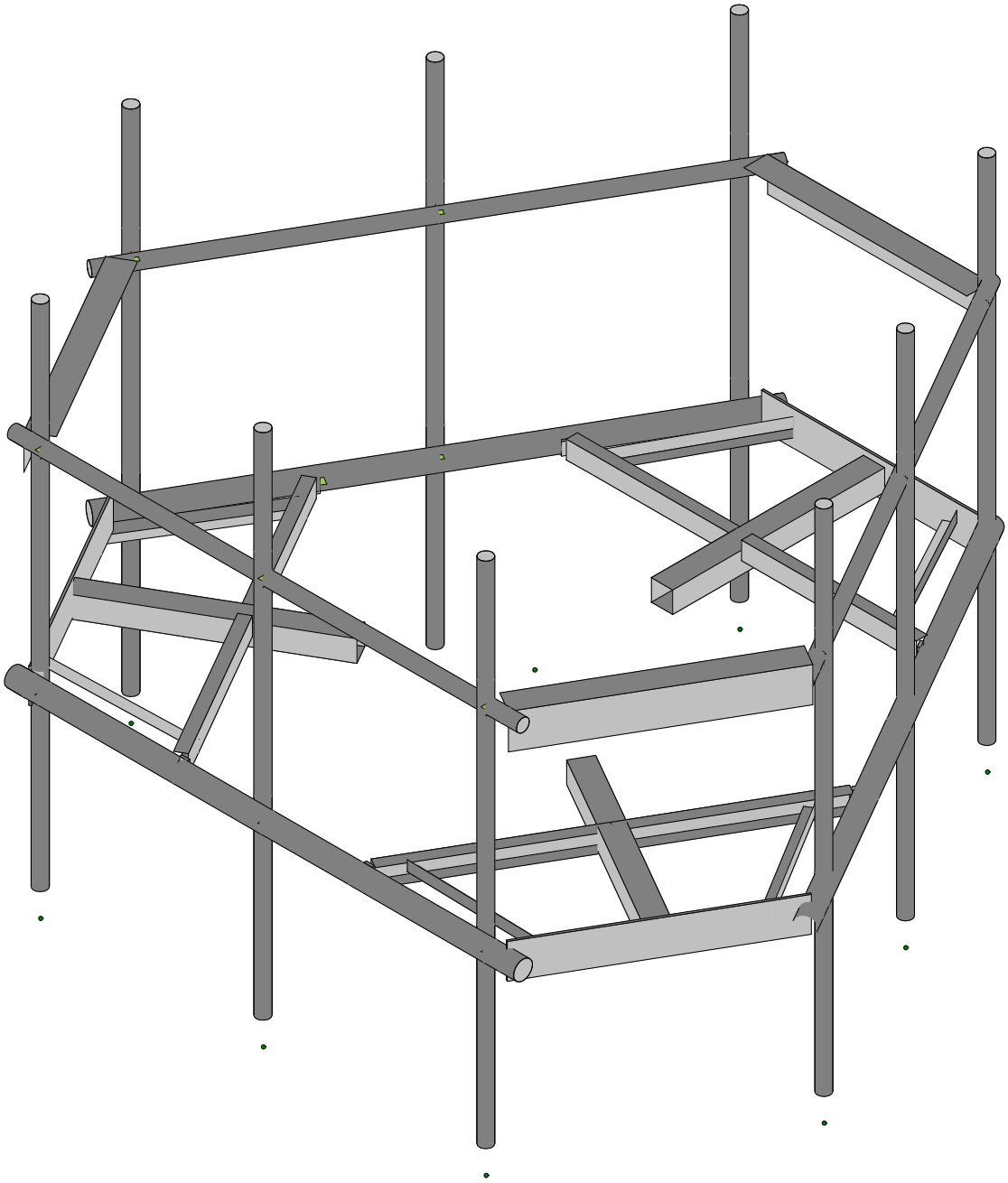
EW		Sept 13, 2021 at 4:39 PM
21-108453		MC-PK8.r3d



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EW		Sept 13, 2021 at 4:39 PM
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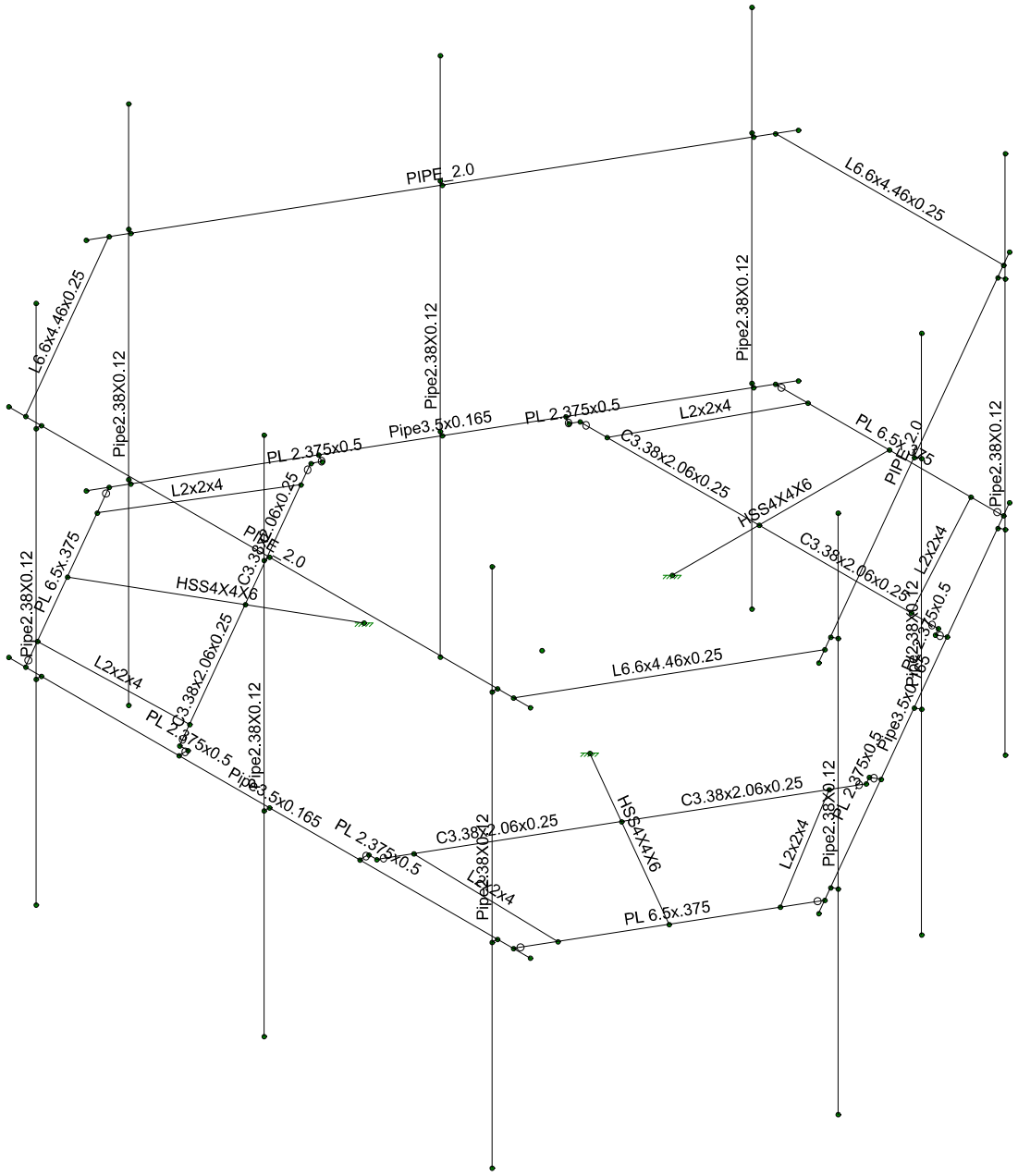

POD	PL86 826217	SK - 3
EW		Sept 13, 2021 at 4:39 PM
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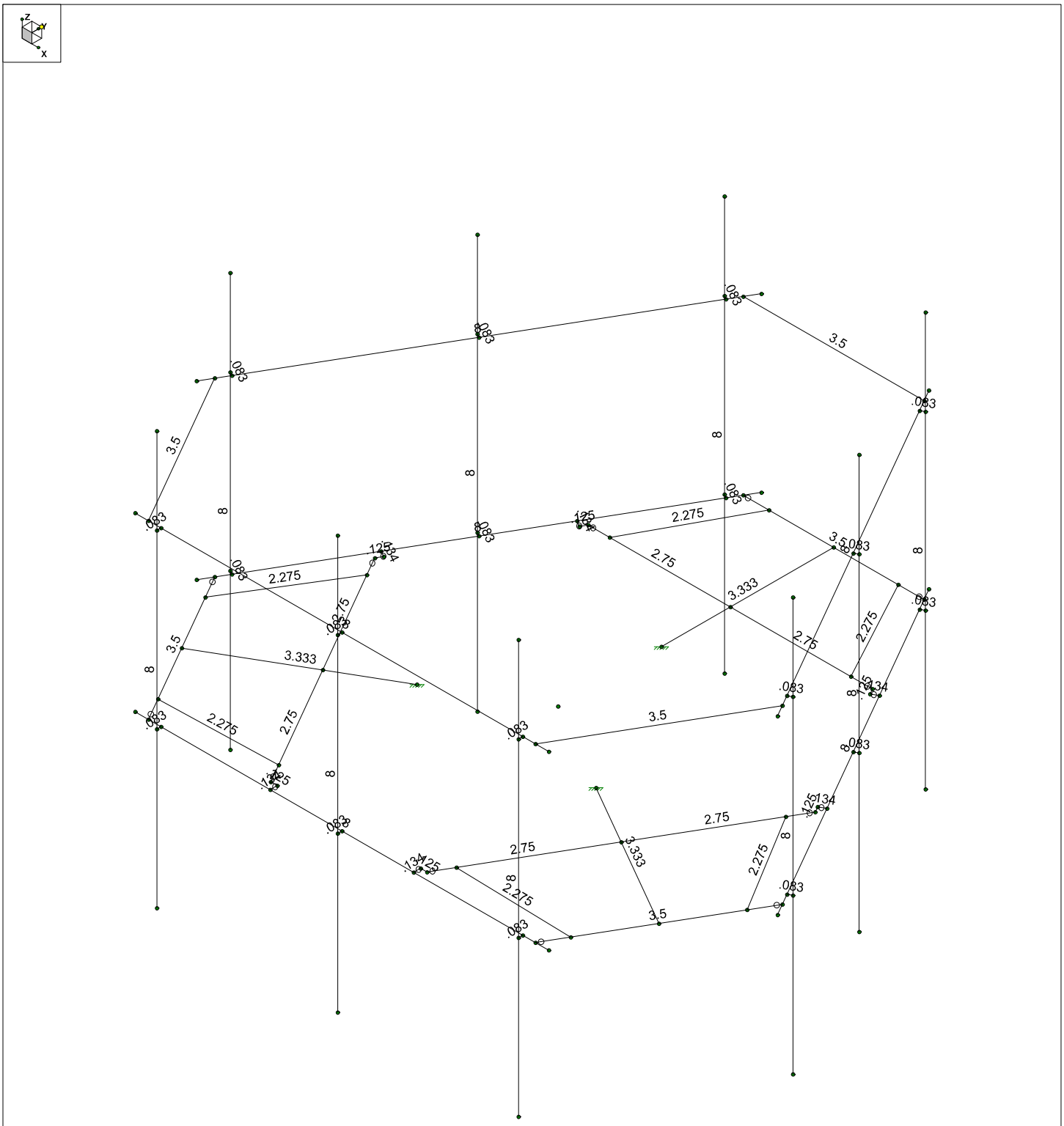
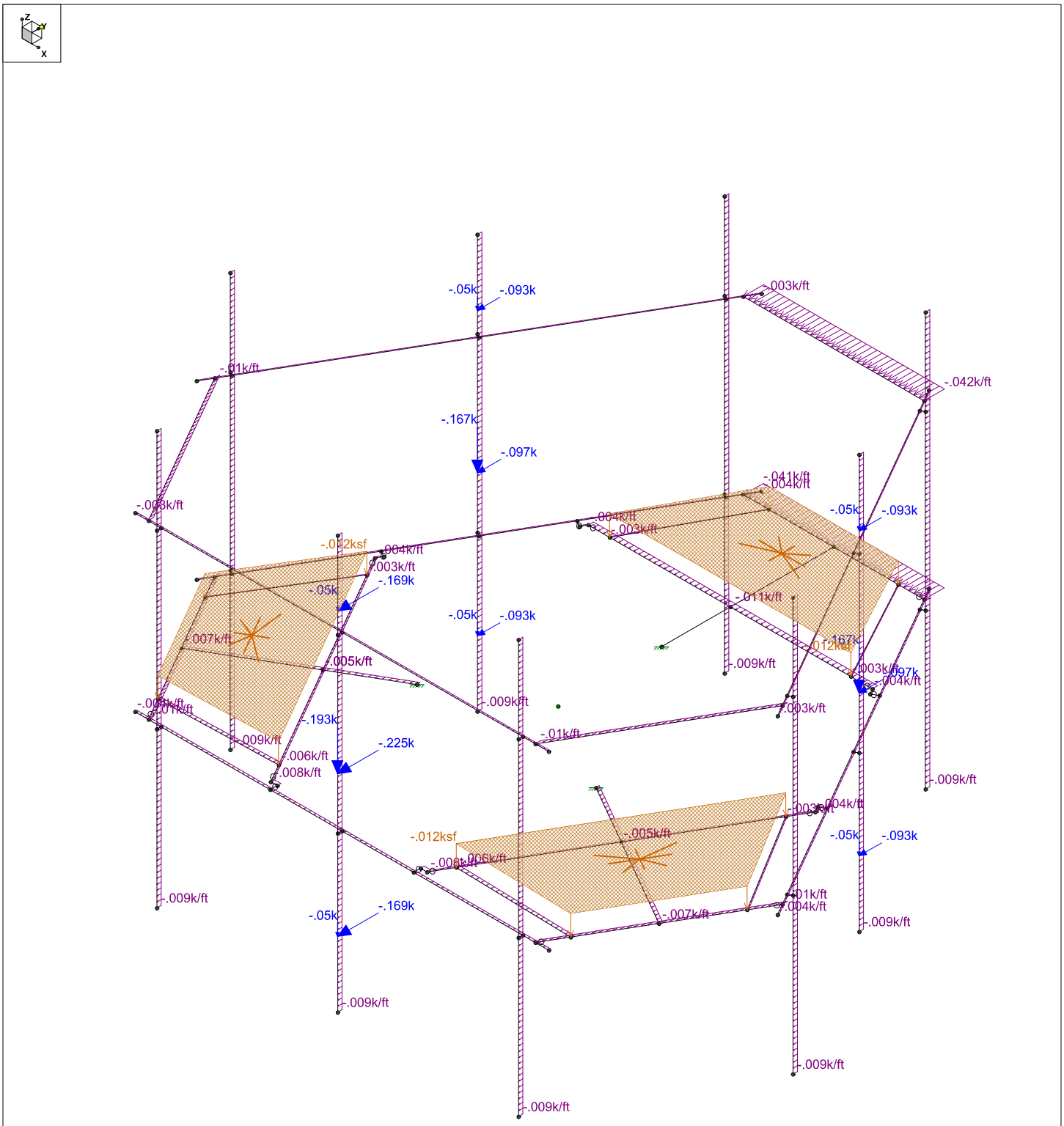


Member Length (ft) Displayed

POD	PL86 826217	SK - 4
EW		Sept 13, 2021 at 4:39 PM
21-108453		MC-PK8.r3d



Loads: LC 2, 1.2D + 1.0W(0)

POD	PL86 826217	SK - 5
EW		Sept 13, 2021 at 4:40 PM
21-108453		MC-PK8.r3d

APPENDIX B

Software Input Calculations

POWER OF DESIGN

POD Job #	**21-108453**
Site Number	**826217**
Site Name	**Newington_1**

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1			Use CFD	Yes
V (Wind Speed)	123	I(ice)	1	Sms	0.293				
Zs	133			Sm1	0.151				width (ft) height (ft)
ti	1.5	Ss	0.183	Sds	0.195			Front Outer Dimensions	8 3.333
Vi	50	S1	0.063	Sd1	0.101				
Kzt	1	Soil Site Class	D	Seismic Design Category					
Exposure	B	Fa	1.600	B					
zg	1200	Fv	2.400	Seismic Analysis Not Required					
α	7			R	2	TIA-222-H	16.7		
Kmin	0.7	Tower Type	Monopole	As	1	TIA-222-H	16.7		
G_H	1	Tower Height	190	Cs, Min	0.03	TIA-222-H	2.7.7.1.1		
Ke	1.00			Cs	0.0976	TIA-222-H	2.7.7.1.1		
K_D	0.95								
K_a	0.9								

Appurtenance Information

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity		MP #
MX08FRO665-21			171	4	65.5		A/B/C	1	2	
TA08025-B604			171	4			A/B/C	1	2	
TA08025-B605			171	4			A/B/C	1	2	
RDIDC-9181-PF-48			171	4			A	1	2	

Mount Information

Elevation (ft)	171.667	Grating Thickness (in)	0.27
K_z	1.15	Grating Ice Weight (k/ft²)	0.017
Kiz	1.18		
tiz	1.77		

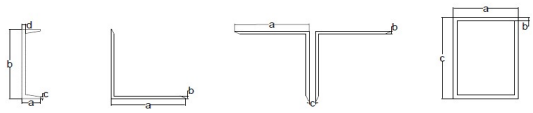
	Length (ft)	Width (in)	Centerline
Mount Pipes	8	2.375	171

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
Face On	8	3.5	Yes	2
Face Off	8	3.5	No	1
Rail On	8	2.375	Yes	2
Rail Off	8	2.375	No	1

Flat Members

Member	Length (ft)	Width (in)	Shape	A	B	C	D	Frame Member	# of Members
Corner	2.75	3.38	Channel	2.06	3.38	0.25	0.25	No	6
Face Plate On	3.5	6.5	Channel	0	6.5	0	0.375	Yes	1
Face Plate Off	3.5	6.5	Channel	0	6.5	0	0.375	No	2
Plate	0.125	2.375	Channel	0	2.375	0	0.5	No	6
Rail Angle On	3.5	6.6	Angle	6.6	0.25			Yes	1
Rail Angle Off	3.5	6.6	Angle	6.6	0.25			No	2
Standoff	3.333	4	Square HSS	4	0.375	4		No	3
Support	2.275	2	Angle	2	0.25			No	6



Version 3.53

Appurtenance Wind Calculations

Model	Height	Width	Depth	Weight (lbs)	Kz	qz (lb/ft$_2$)	$(EPA)_N$ (ft^2)	$(EPA)_T$-(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
MX08FRO665-21	72.0	20.0	8.0	82.5	1.15	42.18	8.01	3.21	0.338	0.135	0.287	0.287	0.135
TA08025-B604	15.0	15.8	7.9	63.9	1.15	42.18	1.77	0.88	0.075	0.037	0.065	0.065	0.037
TA08025-B605	15.0	15.8	9.1	75.0	1.15	42.18	1.77	1.02	0.075	0.043	0.067	0.067	0.043
RDIDC-9181-PF-48	16.6	14.6	8.5	21.9	1.15	42.18	1.81	1.05	0.076	0.044	0.068	0.068	0.044

Appurtenance Ice Calculations

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kiz	qz (lb/ft$_2$)	$(EPA)_N$ (ft^2)	$(EPA)_T$-(ft^2)	Wind Force (Kips) Front	Side	Alpha	Beta	Gamma
MX08FRO665-21	1.77	75.54	23.54	11.54	291.35	1.18	6.97	8.90	4.37	0.062	0.030	0.054	0.054	0.030
TA08025-B604	1.77	18.50	19.29	11.41	71.77	1.18	6.97	1.56	0.93	0.011	0.006	0.010	0.010	0.006
TA08025-B605	1.77	18.50	19.29	12.60	76.44	1.18	6.97	1.56	1.02	0.011	0.007	0.010	0.010	0.007
RDIDC-9181-PF-48	1.77	20.11	18.11	12.00	75.35	1.18	6.97	1.60	1.06	0.011	0.007	0.010	0.010	0.007

Round Members

Member	Wind Calculations q_z (lb/ft^2)	Ar	C	Rr	Cf	EPA (ft^2)	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA (ft^2)	Load (k/ft)
Face On	42.23	4.67	37.55	0.65	1.20	1.65	0.009	7.04	0.01	6.98	9.38	0.86	1.20	4.37	0.004
Face Off	42.23	2.33	37.55	0.65	1.20	1.65	0.004	7.04	0.01	6.98	4.69	0.86	1.20	4.37	0.002
Rail On	42.23	3.17	25.48	0.65	1.20	1.12	0.006	5.91	0.01	6.98	7.88	0.86	1.20	3.67	0.003
Rail Off	42.23	1.58	25.48	0.65	1.20	1.12	0.003	5.91	0.01	6.98	3.94	0.86	1.20	3.67	0.002

Flat Members

Member	Wind Calculations q_z (lb/ft^2)	Af	Cf	EPA	Load (k/ft)	Ice Calculations Width (in)	Weight (k/ft)	q_z (lb/ft^2)	Arice	Rrice	Cf	EPA	Load (k/ft)
Corner	42.23	4.65	2.00	1.39	0.011	6.92	0.02	6.98	9.51	0.86	2.00	2.46	0.003
Face Plate On	42.23	1.90	2.00	3.40	0.041	10.04	0.01	6.98	2.93	0.86	2.00	4.53	0.009
Face Plate Off	42.23	3.79	2.00	3.41	0.021	10.04	0.01	6.98	5.86	0.86	2.00	4.54	0.005
Plate	42.23	0.15	2.00	0.04	0.008	5.91	0.01	6.98	0.37	0.86	2.00	0.10	0.003
Rail Angle On	42.23	1.93	2.00	3.46	0.042	10.14	0.02	6.98	2.96	0.86	2.00	4.58	0.009
Rail Angle Off	42.23	3.85	2.00	3.47	0.021	10.14	0.02	6.98	5.91	0.86	2.00	4.59	0.005
Standoff	42.23	3.33	1.25	1.25	0.008	7.54	0.02	6.98	6.28	0.86	1.25	2.03	0.002
Support	42.23	2.28	2.00	0.68	0.006	5.54	0.01	6.98	6.30	0.86	2.00	1.63	0.002

Appurtenance Seismic Calculations

Model	Weight	Sds	ρ	Cs	As	Ev	Eh
MX08FRO665-21	82.5	0.195	1.000	0.098	1.000	0.003	0.008
TA08025-B604	63.9	0.195	1.000	0.098	1.000	0.002	0.006
TA08025-B605	75.0	0.195	1.000	0.098	1.000	0.003	0.007
RDIDC-9181-PF-48	21.9	0.195	1.000	0.098	1.000	0.001	0.002

Version 3.53

APPENDIX C

Software Analysis Output

Hot Rolled Steel Design Parameters

	Label	Shape	Length[...	Lbyy[ft]	Lbzz[ft]	Lcomp to...	Lcomp bo...	L-torq...	Kyy	Kzz	Cb	Funct...
1	CORNER1	C3.38x2.06x0.25	2.75			Lbyy						Lateral
2	CORNER2	C3.38x2.06x0.25	2.75			Lbyy						Lateral
3	CORNER3	C3.38x2.06x0.25	2.75			Lbyy						Lateral
4	CORNER4	C3.38x2.06x0.25	2.75			Lbyy						Lateral
5	CORNER5	C3.38x2.06x0.25	2.75			Lbyy						Lateral
6	CORNER6	C3.38x2.06x0.25	2.75			Lbyy						Lateral
7	FACE1	Pipe3.5x0.165	8			Lbyy						Lateral
8	FACE2	Pipe3.5x0.165	8			Lbyy						Lateral
9	FACE3	Pipe3.5x0.165	8			Lbyy						Lateral
10	FPLATE1	PL 6.5x.375	3.5			Lbyy						Lateral
11	FPLATE2	PL 6.5x.375	3.5			Lbyy						Lateral
12	FPLATE3	PL 6.5x.375	3.5			Lbyy						Lateral
13	MP ALPHA1	Pipe2.38X0.12	8			Lbyy						Lateral
14	MP ALPHA2	Pipe2.38X0.12	8			Lbyy						Lateral
15	MP ALPHA3	Pipe2.38X0.12	8			Lbyy						Lateral
16	MP BETA1	Pipe2.38X0.12	8			Lbyy						Lateral
17	MP BETA2	Pipe2.38X0.12	8			Lbyy						Lateral
18	MP BETA3	Pipe2.38X0.12	8			Lbyy						Lateral
19	MP GAMMA1	Pipe2.38X0.12	8			Lbyy						Lateral
20	MP GAMMA2	Pipe2.38X0.12	8			Lbyy						Lateral
21	MP GAMMA3	Pipe2.38X0.12	8			Lbyy						Lateral
22	PL1	PL 2.375x0.5	.125									Lateral
23	PL2	PL 2.375x0.5	.125									Lateral
24	PL3	PL 2.375x0.5	.125									Lateral
25	PL4	PL 2.375x0.5	.125									Lateral
26	PL5	PL 2.375x0.5	.125									Lateral
27	PL6	PL 2.375x0.5	.125									Lateral
28	RAIL1	PIPE_2.0	8			Lbyy						Lateral
29	RAIL2	PIPE_2.0	8			Lbyy						Lateral
30	RAIL3	PIPE_2.0	8			Lbyy						Lateral
31	RANGLE1	L6.6x4.46x0.25	3.5			Lbyy						Lateral
32	RANGLE2	L6.6x4.46x0.25	3.5			Lbyy						Lateral
33	RANGLE3	L6.6x4.46x0.25	3.5			Lbyy						Lateral
34	SO1	HSS4X4X6	3.333			Lbyy						Lateral
35	SO2	HSS4X4X6	3.333			Lbyy						Lateral
36	SO3	HSS4X4X6	3.333			Lbyy						Lateral
37	SUPP1	L2x2x4	2.275			Lbyy						Lateral
38	SUPP2	L2x2x4	2.275			Lbyy						Lateral
39	SUPP3	L2x2x4	2.275			Lbyy						Lateral
40	SUPP4	L2x2x4	2.275			Lbyy						Lateral
41	SUPP5	L2x2x4	2.275			Lbyy						Lateral
42	SUPP6	L2x2x4	2.275			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Sha...	Type	Design List	Material	Design Rul...
1	1	N84	N94		270	RIGID	None	None	RIGID	Typical
2	2	N86	N96		270	RIGID	None	None	RIGID	Typical
3	3	N97	N101		270	RIGID	None	None	RIGID	Typical
4	4	N98	N102		270	RIGID	None	None	RIGID	Typical
5	5	N103	N107		270	RIGID	None	None	RIGID	Typical
6	6	N104	N108		270	RIGID	None	None	RIGID	Typical
7	7	N126A	N125A		90	RIGID	None	None	RIGID	Typical
8	8	N129	N128		90	RIGID	None	None	RIGID	Typical
9	9	N132	N131		270	RIGID	None	None	RIGID	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Sha...	Type	Design List	Material	Design Rul...
10	10	N133	N132A		90	RIGID	None	None	RIGID	Typical
11	11	N135	N134		90	RIGID	None	None	RIGID	Typical
12	12	N138	N137		270	RIGID	None	None	RIGID	Typical
13	13	N83	N87		90	RIGID	None	None	RIGID	Typical
14	14	N84A	N88A		90	RIGID	None	None	RIGID	Typical
15	15	N89	N93		90	RIGID	None	None	RIGID	Typical
16	16	N90A	N94A		90	RIGID	None	None	RIGID	Typical
17	17	N95	N99A		90	RIGID	None	None	RIGID	Typical
18	18	N96A	N100A		90	RIGID	None	None	RIGID	Typical
19	19	N101A	N105A		270	RIGID	None	None	RIGID	Typical
20	20	N102A	N106A		270	RIGID	None	None	RIGID	Typical
21	21	N107A	N111		270	RIGID	None	None	RIGID	Typical
22	22	N108A	N112		270	RIGID	None	None	RIGID	Typical
23	23	N113	N117		270	RIGID	None	None	RIGID	Typical
24	24	N114	N118		270	RIGID	None	None	RIGID	Typical
25	CORNER1	P15	N122B		270	C3.38x2.06x...	Beam	Channel	A1011 36 Ksi	Typical
26	CORNER2	P15	N123A		270	C3.38x2.06x...	Beam	Channel	A1011 36 Ksi	Typical
27	CORNER3	P4	N122A		90	C3.38x2.06x...	Beam	Channel	A1011 36 Ksi	Typical
28	CORNER4	P4	N124B		90	C3.38x2.06x...	Beam	Channel	A1011 36 Ksi	Typical
29	CORNER5	P26	N125		90	C3.38x2.06x...	Beam	Channel	A1011 36 Ksi	Typical
30	CORNER6	P26	N126		90	C3.38x2.06x...	Beam	Channel	A1011 36 Ksi	Typical
31	FACE1	N81A	N82A		90	Pipe3.5x0.165	Beam	Pipe	A53 Gr.B	Typical
32	FACE2	N43	N44		270	Pipe3.5x0.165	Beam	Pipe	A53 Gr.B	Typical
33	FACE3	N109	N110		270	Pipe3.5x0.165	Beam	Pipe	A53 Gr.B	Typical
34	FPLATE1	P18	P19		90	PL 6.5x.375	Beam	RECT	A36 Gr.36	Typical
35	FPLATE2	P7	P8		270	PL 6.5x.375	Beam	RECT	A36 Gr.36	Typical
36	FPLATE3	P29	P30		270	PL 6.5x.375	Beam	RECT	A36 Gr.36	Typical
37	MP ALPHA1	N88	N90		60	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
38	MP ALPHA2	N105	N106		60	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
39	MP ALPHA3	N99	N100		60	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
40	MP BETA1	N103A	N104A		300	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
41	MP BETA2	N115	N116		300	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
42	MP BETA3	N109A	N110A		300	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
43	MP GAMMA1	N85	N86A		180	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
44	MP GAMMA2	N97A	N98A		180	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
45	MP GAMMA3	N91A	N92A		180	Pipe2.38X0....	Beam	Pipe	A53 Gr.B	Typical
46	PL1	N122B	N132A		270	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
47	PL2	N123A	N131		90	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
48	PL3	N122A	N137		270	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
49	PL4	N124B	N128		270	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
50	PL5	N125	N134		90	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
51	PL6	N126	N125A		90	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
52	RAIL1	N91	N92		90	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
53	RAIL2	N67	N68		270	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
54	RAIL3	N119	N120		270	PIPE_2.0	Beam	Pipe	A53 Gr.B	Typical
55	RANGLE1	N114A	N113A		90	L6.6x4.46x0....	Beam	Single Angle	A36 Gr.36	Typical
56	RANGLE2	N112A	N111A		270	L6.6x4.46x0....	Beam	Single Angle	A36 Gr.36	Typical
57	RANGLE3	N116A	N115A		270	L6.6x4.46x0....	Beam	Single Angle	A36 Gr.36	Typical
58	SO1	P14	P13		270	HSS4X4X6	Beam	Tube	A500 Gr.B Rect	Typical
59	SO2	P3	P1		270	HSS4X4X6	Beam	Tube	A500 Gr.B Rect	Typical
60	SO3	P25	P24		90	HSS4X4X6	Beam	Tube	A500 Gr.B Rect	Typical
61	SUPP1	P21	P22		90	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
62	SUPP2	P20	P23		180	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
63	SUPP3	P10	P11		90	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
64	SUPP4	P9	P12			L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
65	SUPP5	P32	P33		270	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical
66	SUPP6	P31	P34		180	L2x2x4	Beam	Single Angle	A36 Gr.36	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	1						Yes	** NA **			None
2	2						Yes	** NA **			None
3	3						Yes	** NA **			None
4	4						Yes	** NA **			None
5	5						Yes	** NA **			None
6	6						Yes	** NA **			None
7	7	OOOXOO					Yes	** NA **			None
8	8	OOOXOO					Yes	** NA **			None
9	9	OOOXOO					Yes	** NA **			None
10	10	OOOXOO					Yes	** NA **			None
11	11	OOOXOO					Yes	** NA **			None
12	12	OOOXOO					Yes	** NA **			None
13	13						Yes	** NA **			None
14	14						Yes	** NA **			None
15	15						Yes	** NA **			None
16	16						Yes	** NA **			None
17	17						Yes	** NA **			None
18	18						Yes	** NA **			None
19	19						Yes	** NA **			None
20	20						Yes	** NA **			None
21	21						Yes	** NA **			None
22	22						Yes	** NA **			None
23	23						Yes	** NA **			None
24	24						Yes	** NA **			None
25	CORNER1		OOOXOO				Yes	Default			None
26	CORNER2		OOOXOO				Yes	Default			None
27	CORNER3		OOOXOO				Yes	Default			None
28	CORNER4		OOOXOO				Yes	Default			None
29	CORNER5		OOOXOO				Yes	Default			None
30	CORNER6		OOOXOO				Yes	Default			None
31	FACE1						Yes				None
32	FACE2						Yes				None
33	FACE3						Yes				None
34	FPLATE1	BenPIN	BenPIN				Yes	Default			None
35	FPLATE2	BenPIN	BenPIN				Yes	Default			None
36	FPLATE3	BenPIN	BenPIN				Yes	Default			None
37	MP ALPHA1						Yes		+y+3		None
38	MP ALPHA2						Yes		+y+3		None
39	MP ALPHA3						Yes		+y+3		None
40	MP BETA1						Yes		+y+3		None
41	MP BETA2						Yes		+y+3		None
42	MP BETA3						Yes		+y+3		None
43	MP GAMM...						Yes		+y+3		None
44	MP GAMM...						Yes		+y+3		None
45	MP GAMM...						Yes		+y+3		None
46	PL1						Yes				None
47	PL2						Yes				None
48	PL3						Yes				None
49	PL4						Yes				None
50	PL5						Yes				None
51	PL6						Yes				None
52	RAIL1						Yes				None
53	RAIL2						Yes				None
54	RAIL3						Yes				None
55	RANGLE1						Yes				None
56	RANGLE2						Yes				None

Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
57	RANGLE3						Yes	Default			None
58	SO1						Yes				None
59	SO2						Yes				None
60	SO3						Yes	Default			None
61	SUPP1						Yes				None
62	SUPP2						Yes				None
63	SUPP3						Yes				None
64	SUPP4						Yes				None
65	SUPP5						Yes				None
66	SUPP6						Yes				None

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1
9	A500 GR.C	29000	11154	.3	.65	.49	46	1.6	60	1.2
10	A529 Gr. 50	29000	11154	.3	.65	.49	50	1.1	65	1.1
11	A1011-33Ksi	29000	11154	.3	.65	.49	33	1.5	58	1.2
12	A1011 36 Ksi	29000	11154	.3	.65	.49	36	1.5	58	1.2
13	A1018 50 Ksi	29000	11154	.3	.65	.49	50	1.5	65	1.2

Member Point Loads (BLC 1 : Live Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	FACE1	Z	-.5	0

Member Point Loads (BLC 2 : Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.169	6.729
2	MP ALPHA2	Y	-.169	1.271
3	MP BETA2	Y	-.093	6.729
4	MP BETA2	Y	-.093	1.271
5	MP GAMMA2	Y	-.093	6.729
6	MP GAMMA2	Y	-.093	1.271
7	MP ALPHA2	Y	-.075	4
8	MP BETA2	Y	-.047	4
9	MP GAMMA2	Y	-.047	4
10	MP ALPHA2	Y	-.075	4
11	MP BETA2	Y	-.051	4
12	MP GAMMA2	Y	-.051	4
13	MP ALPHA2	Y	-.076	4

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.041	6.729
2	MP ALPHA2	Z	-.041	1.271
3	MP BETA2	Z	-.041	6.729
4	MP BETA2	Z	-.041	1.271

Member Point Loads (BLC 3 : Dead Load) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
5	MP GAMMA2	Z	-.041	6.729
6	MP GAMMA2	Z	-.041	1.271
7	MP ALPHA2	Z	-.064	4
8	MP BETA2	Z	-.064	4
9	MP GAMMA2	Z	-.064	4
10	MP ALPHA2	Z	-.075	4
11	MP BETA2	Z	-.075	4
12	MP GAMMA2	Z	-.075	4
13	MP ALPHA2	Z	-.022	4

Member Point Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.124	6.729
2	MP ALPHA2	Y	-.124	1.271
3	MP ALPHA2	X	-.072	6.729
4	MP ALPHA2	X	-.072	1.271
5	MP BETA2	Y	-.059	6.729
6	MP BETA2	Y	-.059	1.271
7	MP BETA2	X	-.034	6.729
8	MP BETA2	X	-.034	1.271
9	MP GAMMA2	Y	-.124	6.729
10	MP GAMMA2	Y	-.124	1.271
11	MP GAMMA2	X	-.072	6.729
12	MP GAMMA2	X	-.072	1.271
13	MP ALPHA2	Y	-.056	4
14	MP ALPHA2	X	-.033	4
15	MP BETA2	Y	-.032	4
16	MP BETA2	X	-.019	4
17	MP GAMMA2	Y	-.056	4
18	MP GAMMA2	X	-.033	4
19	MP ALPHA2	Y	-.058	4
20	MP ALPHA2	X	-.033	4
21	MP BETA2	Y	-.037	4
22	MP BETA2	X	-.021	4
23	MP GAMMA2	Y	-.058	4
24	MP GAMMA2	X	-.033	4
25	MP ALPHA2	Y	-.059	4
26	MP ALPHA2	X	-.034	4

Member Point Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.047	6.729
2	MP ALPHA2	Y	-.047	1.271
3	MP ALPHA2	X	-.081	6.729
4	MP ALPHA2	X	-.081	1.271
5	MP BETA2	Y	-.047	6.729
6	MP BETA2	Y	-.047	1.271
7	MP BETA2	X	-.081	6.729
8	MP BETA2	X	-.081	1.271
9	MP GAMMA2	Y	-.084	6.729
10	MP GAMMA2	Y	-.084	1.271
11	MP GAMMA2	X	-.146	6.729
12	MP GAMMA2	X	-.146	1.271
13	MP ALPHA2	Y	-.023	4
14	MP ALPHA2	X	-.04	4
15	MP BETA2	Y	-.023	4

Member Point Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP BETA2	X	-.04	4
17	MP GAMMA2	Y	-.037	4
18	MP GAMMA2	X	-.065	4
19	MP ALPHA2	Y	-.025	4
20	MP ALPHA2	X	-.044	4
21	MP BETA2	Y	-.025	4
22	MP BETA2	X	-.044	4
23	MP GAMMA2	Y	-.037	4
24	MP GAMMA2	X	-.065	4
25	MP ALPHA2	Y	-.026	4
26	MP ALPHA2	X	-.045	4

Member Point Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.068	6.729
2	MP ALPHA2	X	-.068	1.271
3	MP BETA2	X	-.144	6.729
4	MP BETA2	X	-.144	1.271
5	MP GAMMA2	X	-.144	6.729
6	MP GAMMA2	X	-.144	1.271
7	MP ALPHA2	X	-.037	4
8	MP BETA2	X	-.065	4
9	MP GAMMA2	X	-.065	4
10	MP ALPHA2	X	-.043	4
11	MP BETA2	X	-.067	4
12	MP GAMMA2	X	-.067	4
13	MP ALPHA2	X	-.044	4

Member Point Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.047	6.729
2	MP ALPHA2	Y	.047	1.271
3	MP ALPHA2	X	-.081	6.729
4	MP ALPHA2	X	-.081	1.271
5	MP BETA2	Y	.084	6.729
6	MP BETA2	Y	.084	1.271
7	MP BETA2	X	-.146	6.729
8	MP BETA2	X	-.146	1.271
9	MP GAMMA2	Y	.047	6.729
10	MP GAMMA2	Y	.047	1.271
11	MP GAMMA2	X	-.081	6.729
12	MP GAMMA2	X	-.081	1.271
13	MP ALPHA2	Y	.023	4
14	MP ALPHA2	X	-.04	4
15	MP BETA2	Y	.037	4
16	MP BETA2	X	-.065	4
17	MP GAMMA2	Y	.023	4
18	MP GAMMA2	X	-.04	4
19	MP ALPHA2	Y	.025	4
20	MP ALPHA2	X	-.044	4
21	MP BETA2	Y	.037	4
22	MP BETA2	X	-.065	4
23	MP GAMMA2	Y	.025	4
24	MP GAMMA2	X	-.044	4
25	MP ALPHA2	Y	.026	4
26	MP ALPHA2	X	-.045	4

Member Point Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.124	6.729
2	MP ALPHA2	Y	.124	1.271
3	MP ALPHA2	X	-.072	6.729
4	MP ALPHA2	X	-.072	1.271
5	MP BETA2	Y	.124	6.729
6	MP BETA2	Y	.124	1.271
7	MP BETA2	X	-.072	6.729
8	MP BETA2	X	-.072	1.271
9	MP GAMMA2	Y	.059	6.729
10	MP GAMMA2	Y	.059	1.271
11	MP GAMMA2	X	-.034	6.729
12	MP GAMMA2	X	-.034	1.271
13	MP ALPHA2	Y	.056	4
14	MP ALPHA2	X	-.033	4
15	MP BETA2	Y	.056	4
16	MP BETA2	X	-.033	4
17	MP GAMMA2	Y	.032	4
18	MP GAMMA2	X	-.019	4
19	MP ALPHA2	Y	.058	4
20	MP ALPHA2	X	-.033	4
21	MP BETA2	Y	.058	4
22	MP BETA2	X	-.033	4
23	MP GAMMA2	Y	.037	4
24	MP GAMMA2	X	-.021	4
25	MP ALPHA2	Y	.059	4
26	MP ALPHA2	X	-.034	4

Member Point Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.169	6.729
2	MP ALPHA2	Y	.169	1.271
3	MP BETA2	Y	.093	6.729
4	MP BETA2	Y	.093	1.271
5	MP GAMMA2	Y	.093	6.729
6	MP GAMMA2	Y	.093	1.271
7	MP ALPHA2	Y	.075	4
8	MP BETA2	Y	.047	4
9	MP GAMMA2	Y	.047	4
10	MP ALPHA2	Y	.075	4
11	MP BETA2	Y	.051	4
12	MP GAMMA2	Y	.051	4
13	MP ALPHA2	Y	.076	4

Member Point Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.124	6.729
2	MP ALPHA2	Y	.124	1.271
3	MP ALPHA2	X	.072	6.729
4	MP ALPHA2	X	.072	1.271
5	MP BETA2	Y	.059	6.729
6	MP BETA2	Y	.059	1.271
7	MP BETA2	X	.034	6.729
8	MP BETA2	X	.034	1.271
9	MP GAMMA2	Y	.124	6.729
10	MP GAMMA2	Y	.124	1.271
11	MP GAMMA2	X	.072	6.729

Member Point Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA2	X	.072	1.271
13	MP ALPHA2	Y	.056	4
14	MP ALPHA2	X	.033	4
15	MP BETA2	Y	.032	4
16	MP BETA2	X	.019	4
17	MP GAMMA2	Y	.056	4
18	MP GAMMA2	X	.033	4
19	MP ALPHA2	Y	.058	4
20	MP ALPHA2	X	.033	4
21	MP BETA2	Y	.037	4
22	MP BETA2	X	.021	4
23	MP GAMMA2	Y	.058	4
24	MP GAMMA2	X	.033	4
25	MP ALPHA2	Y	.059	4
26	MP ALPHA2	X	.034	4

Member Point Loads (BLC 11 : Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.047	6.729
2	MP ALPHA2	Y	.047	1.271
3	MP ALPHA2	X	.081	6.729
4	MP ALPHA2	X	.081	1.271
5	MP BETA2	Y	.047	6.729
6	MP BETA2	Y	.047	1.271
7	MP BETA2	X	.081	6.729
8	MP BETA2	X	.081	1.271
9	MP GAMMA2	Y	.084	6.729
10	MP GAMMA2	Y	.084	1.271
11	MP GAMMA2	X	.146	6.729
12	MP GAMMA2	X	.146	1.271
13	MP ALPHA2	Y	.023	4
14	MP ALPHA2	X	.04	4
15	MP BETA2	Y	.023	4
16	MP BETA2	X	.04	4
17	MP GAMMA2	Y	.037	4
18	MP GAMMA2	X	.065	4
19	MP ALPHA2	Y	.025	4
20	MP ALPHA2	X	.044	4
21	MP BETA2	Y	.025	4
22	MP BETA2	X	.044	4
23	MP GAMMA2	Y	.037	4
24	MP GAMMA2	X	.065	4
25	MP ALPHA2	Y	.026	4
26	MP ALPHA2	X	.045	4

Member Point Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.068	6.729
2	MP ALPHA2	X	.068	1.271
3	MP BETA2	X	.144	6.729
4	MP BETA2	X	.144	1.271
5	MP GAMMA2	X	.144	6.729
6	MP GAMMA2	X	.144	1.271
7	MP ALPHA2	X	.037	4
8	MP BETA2	X	.065	4
9	MP GAMMA2	X	.065	4

Member Point Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
10	MP ALPHA2	X	.043	4
11	MP BETA2	X	.067	4
12	MP GAMMA2	X	.067	4
13	MP ALPHA2	X	.044	4

Member Point Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.047	6.729
2	MP ALPHA2	Y	-.047	1.271
3	MP ALPHA2	X	.081	6.729
4	MP ALPHA2	X	.081	1.271
5	MP BETA2	Y	-.084	6.729
6	MP BETA2	Y	-.084	1.271
7	MP BETA2	X	.146	6.729
8	MP BETA2	X	.146	1.271
9	MP GAMMA2	Y	-.047	6.729
10	MP GAMMA2	Y	-.047	1.271
11	MP GAMMA2	X	.081	6.729
12	MP GAMMA2	X	.081	1.271
13	MP ALPHA2	Y	-.023	4
14	MP ALPHA2	X	.04	4
15	MP BETA2	Y	-.037	4
16	MP BETA2	X	.065	4
17	MP GAMMA2	Y	-.023	4
18	MP GAMMA2	X	.04	4
19	MP ALPHA2	Y	-.025	4
20	MP ALPHA2	X	.044	4
21	MP BETA2	Y	-.037	4
22	MP BETA2	X	.065	4
23	MP GAMMA2	Y	-.025	4
24	MP GAMMA2	X	.044	4
25	MP ALPHA2	Y	-.026	4
26	MP ALPHA2	X	.045	4

Member Point Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.124	6.729
2	MP ALPHA2	Y	-.124	1.271
3	MP ALPHA2	X	.072	6.729
4	MP ALPHA2	X	.072	1.271
5	MP BETA2	Y	-.124	6.729
6	MP BETA2	Y	-.124	1.271
7	MP BETA2	X	.072	6.729
8	MP BETA2	X	.072	1.271
9	MP GAMMA2	Y	-.059	6.729
10	MP GAMMA2	Y	-.059	1.271
11	MP GAMMA2	X	.034	6.729
12	MP GAMMA2	X	.034	1.271
13	MP ALPHA2	Y	-.056	4
14	MP ALPHA2	X	.033	4
15	MP BETA2	Y	-.056	4
16	MP BETA2	X	.033	4
17	MP GAMMA2	Y	-.032	4
18	MP GAMMA2	X	.019	4
19	MP ALPHA2	Y	-.058	4
20	MP ALPHA2	X	.033	4

Member Point Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	MP BETA2	Y	-.058	4
22	MP BETA2	X	.033	4
23	MP GAMMA2	Y	-.037	4
24	MP GAMMA2	X	.021	4
25	MP ALPHA2	Y	-.059	4
26	MP ALPHA2	X	.034	4

Member Point Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.01	6.729
2	MP ALPHA2	Y	-.01	1.271
3	MP BETA2	Y	-.006	6.729
4	MP BETA2	Y	-.006	1.271
5	MP GAMMA2	Y	-.006	6.729
6	MP GAMMA2	Y	-.006	1.271
7	MP ALPHA2	Y	-.004	4
8	MP BETA2	Y	-.003	4
9	MP GAMMA2	Y	-.003	4
10	MP ALPHA2	Y	-.004	4
11	MP BETA2	Y	-.003	4
12	MP GAMMA2	Y	-.003	4
13	MP ALPHA2	Y	-.005	4

Member Point Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.007	6.729
2	MP ALPHA2	Y	-.007	1.271
3	MP ALPHA2	X	-.004	6.729
4	MP ALPHA2	X	-.004	1.271
5	MP BETA2	Y	-.003	6.729
6	MP BETA2	Y	-.003	1.271
7	MP BETA2	X	-.002	6.729
8	MP BETA2	X	-.002	1.271
9	MP GAMMA2	Y	-.007	6.729
10	MP GAMMA2	Y	-.007	1.271
11	MP GAMMA2	X	-.004	6.729
12	MP GAMMA2	X	-.004	1.271
13	MP ALPHA2	Y	-.003	4
14	MP ALPHA2	X	-.002	4
15	MP BETA2	Y	-.002	4
16	MP BETA2	X	-.001	4
17	MP GAMMA2	Y	-.003	4
18	MP GAMMA2	X	-.002	4
19	MP ALPHA2	Y	-.003	4
20	MP ALPHA2	X	-.002	4
21	MP BETA2	Y	-.002	4
22	MP BETA2	X	-.001	4
23	MP GAMMA2	Y	-.003	4
24	MP GAMMA2	X	-.002	4
25	MP ALPHA2	Y	-.004	4
26	MP ALPHA2	X	-.002	4

Member Point Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.003	6.729

Member Point Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP ALPHA2	Y	-.003	1.271
3	MP ALPHA2	X	-.005	6.729
4	MP ALPHA2	X	-.005	1.271
5	MP BETA2	Y	-.003	6.729
6	MP BETA2	Y	-.003	1.271
7	MP BETA2	X	-.005	6.729
8	MP BETA2	X	-.005	1.271
9	MP GAMMA2	Y	-.005	6.729
10	MP GAMMA2	Y	-.005	1.271
11	MP GAMMA2	X	-.009	6.729
12	MP GAMMA2	X	-.009	1.271
13	MP ALPHA2	Y	-.001	4
14	MP ALPHA2	X	-.002	4
15	MP BETA2	Y	-.001	4
16	MP BETA2	X	-.002	4
17	MP GAMMA2	Y	-.002	4
18	MP GAMMA2	X	-.004	4
19	MP ALPHA2	Y	-.002	4
20	MP ALPHA2	X	-.003	4
21	MP BETA2	Y	-.002	4
22	MP BETA2	X	-.003	4
23	MP GAMMA2	Y	-.002	4
24	MP GAMMA2	X	-.004	4
25	MP ALPHA2	Y	-.002	4
26	MP ALPHA2	X	-.003	4

Member Point Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.004	6.729
2	MP ALPHA2	X	-.004	1.271
3	MP BETA2	X	-.009	6.729
4	MP BETA2	X	-.009	1.271
5	MP GAMMA2	X	-.009	6.729
6	MP GAMMA2	X	-.009	1.271
7	MP ALPHA2	X	-.002	4
8	MP BETA2	X	-.004	4
9	MP GAMMA2	X	-.004	4
10	MP ALPHA2	X	-.003	4
11	MP BETA2	X	-.004	4
12	MP GAMMA2	X	-.004	4
13	MP ALPHA2	X	-.003	4

Member Point Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.003	6.729
2	MP ALPHA2	Y	.003	1.271
3	MP ALPHA2	X	-.005	6.729
4	MP ALPHA2	X	-.005	1.271
5	MP BETA2	Y	.005	6.729
6	MP BETA2	Y	.005	1.271
7	MP BETA2	X	-.009	6.729
8	MP BETA2	X	-.009	1.271
9	MP GAMMA2	Y	.003	6.729
10	MP GAMMA2	Y	.003	1.271
11	MP GAMMA2	X	-.005	6.729
12	MP GAMMA2	X	-.005	1.271

Member Point Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
13	MP ALPHA2	Y	.001	4
14	MP ALPHA2	X	-.002	4
15	MP BETA2	Y	.002	4
16	MP BETA2	X	-.004	4
17	MP GAMMA2	Y	.001	4
18	MP GAMMA2	X	-.002	4
19	MP ALPHA2	Y	.002	4
20	MP ALPHA2	X	-.003	4
21	MP BETA2	Y	.002	4
22	MP BETA2	X	-.004	4
23	MP GAMMA2	Y	.002	4
24	MP GAMMA2	X	-.003	4
25	MP ALPHA2	Y	.002	4
26	MP ALPHA2	X	-.003	4

Member Point Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.007	6.729
2	MP ALPHA2	Y	.007	1.271
3	MP ALPHA2	X	-.004	6.729
4	MP ALPHA2	X	-.004	1.271
5	MP BETA2	Y	.007	6.729
6	MP BETA2	Y	.007	1.271
7	MP BETA2	X	-.004	6.729
8	MP BETA2	X	-.004	1.271
9	MP GAMMA2	Y	.003	6.729
10	MP GAMMA2	Y	.003	1.271
11	MP GAMMA2	X	-.002	6.729
12	MP GAMMA2	X	-.002	1.271
13	MP ALPHA2	Y	.003	4
14	MP ALPHA2	X	-.002	4
15	MP BETA2	Y	.003	4
16	MP BETA2	X	-.002	4
17	MP GAMMA2	Y	.002	4
18	MP GAMMA2	X	-.001	4
19	MP ALPHA2	Y	.003	4
20	MP ALPHA2	X	-.002	4
21	MP BETA2	Y	.003	4
22	MP BETA2	X	-.002	4
23	MP GAMMA2	Y	.002	4
24	MP GAMMA2	X	-.001	4
25	MP ALPHA2	Y	.004	4
26	MP ALPHA2	X	-.002	4

Member Point Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.01	6.729
2	MP ALPHA2	Y	.01	1.271
3	MP BETA2	Y	.006	6.729
4	MP BETA2	Y	.006	1.271
5	MP GAMMA2	Y	.006	6.729
6	MP GAMMA2	Y	.006	1.271
7	MP ALPHA2	Y	.004	4
8	MP BETA2	Y	.003	4
9	MP GAMMA2	Y	.003	4
10	MP ALPHA2	Y	.004	4

Member Point Loads (BLC 21 : Maintanence (180)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
11	MP BETA2	Y	.003	4
12	MP GAMMA2	Y	.003	4
13	MP ALPHA2	Y	.005	4

Member Point Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.007	6.729
2	MP ALPHA2	Y	.007	1.271
3	MP ALPHA2	X	.004	6.729
4	MP ALPHA2	X	.004	1.271
5	MP BETA2	Y	.003	6.729
6	MP BETA2	Y	.003	1.271
7	MP BETA2	X	.002	6.729
8	MP BETA2	X	.002	1.271
9	MP GAMMA2	Y	.007	6.729
10	MP GAMMA2	Y	.007	1.271
11	MP GAMMA2	X	.004	6.729
12	MP GAMMA2	X	.004	1.271
13	MP ALPHA2	Y	.003	4
14	MP ALPHA2	X	.002	4
15	MP BETA2	Y	.002	4
16	MP BETA2	X	.001	4
17	MP GAMMA2	Y	.003	4
18	MP GAMMA2	X	.002	4
19	MP ALPHA2	Y	.003	4
20	MP ALPHA2	X	.002	4
21	MP BETA2	Y	.002	4
22	MP BETA2	X	.001	4
23	MP GAMMA2	Y	.003	4
24	MP GAMMA2	X	.002	4
25	MP ALPHA2	Y	.004	4
26	MP ALPHA2	X	.002	4

Member Point Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.003	6.729
2	MP ALPHA2	Y	.003	1.271
3	MP ALPHA2	X	.005	6.729
4	MP ALPHA2	X	.005	1.271
5	MP BETA2	Y	.003	6.729
6	MP BETA2	Y	.003	1.271
7	MP BETA2	X	.005	6.729
8	MP BETA2	X	.005	1.271
9	MP GAMMA2	Y	.005	6.729
10	MP GAMMA2	Y	.005	1.271
11	MP GAMMA2	X	.009	6.729
12	MP GAMMA2	X	.009	1.271
13	MP ALPHA2	Y	.001	4
14	MP ALPHA2	X	.002	4
15	MP BETA2	Y	.001	4
16	MP BETA2	X	.002	4
17	MP GAMMA2	Y	.002	4
18	MP GAMMA2	X	.004	4
19	MP ALPHA2	Y	.002	4
20	MP ALPHA2	X	.003	4
21	MP BETA2	Y	.002	4

Member Point Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
22	MP BETA2	X	.003	4
23	MP GAMMA2	Y	.002	4
24	MP GAMMA2	X	.004	4
25	MP ALPHA2	Y	.002	4
26	MP ALPHA2	X	.003	4

Member Point Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.004	6.729
2	MP ALPHA2	X	.004	1.271
3	MP BETA2	X	.009	6.729
4	MP BETA2	X	.009	1.271
5	MP GAMMA2	X	.009	6.729
6	MP GAMMA2	X	.009	1.271
7	MP ALPHA2	X	.002	4
8	MP BETA2	X	.004	4
9	MP GAMMA2	X	.004	4
10	MP ALPHA2	X	.003	4
11	MP BETA2	X	.004	4
12	MP GAMMA2	X	.004	4
13	MP ALPHA2	X	.003	4

Member Point Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.003	6.729
2	MP ALPHA2	Y	-.003	1.271
3	MP ALPHA2	X	.005	6.729
4	MP ALPHA2	X	.005	1.271
5	MP BETA2	Y	-.005	6.729
6	MP BETA2	Y	-.005	1.271
7	MP BETA2	X	.009	6.729
8	MP BETA2	X	.009	1.271
9	MP GAMMA2	Y	-.003	6.729
10	MP GAMMA2	Y	-.003	1.271
11	MP GAMMA2	X	.005	6.729
12	MP GAMMA2	X	.005	1.271
13	MP ALPHA2	Y	-.001	4
14	MP ALPHA2	X	.002	4
15	MP BETA2	Y	-.002	4
16	MP BETA2	X	.004	4
17	MP GAMMA2	Y	-.001	4
18	MP GAMMA2	X	.002	4
19	MP ALPHA2	Y	-.002	4
20	MP ALPHA2	X	.003	4
21	MP BETA2	Y	-.002	4
22	MP BETA2	X	.004	4
23	MP GAMMA2	Y	-.002	4
24	MP GAMMA2	X	.003	4
25	MP ALPHA2	Y	-.002	4
26	MP ALPHA2	X	.003	4

Member Point Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.007	6.729
2	MP ALPHA2	Y	-.007	1.271

Member Point Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
3	MP ALPHA2	X	.004	6.729
4	MP ALPHA2	X	.004	1.271
5	MP BETA2	Y	-.007	6.729
6	MP BETA2	Y	-.007	1.271
7	MP BETA2	X	.004	6.729
8	MP BETA2	X	.004	1.271
9	MP GAMMA2	Y	-.003	6.729
10	MP GAMMA2	Y	-.003	1.271
11	MP GAMMA2	X	.002	6.729
12	MP GAMMA2	X	.002	1.271
13	MP ALPHA2	Y	-.003	4
14	MP ALPHA2	X	.002	4
15	MP BETA2	Y	-.003	4
16	MP BETA2	X	.002	4
17	MP GAMMA2	Y	-.002	4
18	MP GAMMA2	X	.001	4
19	MP ALPHA2	Y	-.003	4
20	MP ALPHA2	X	.002	4
21	MP BETA2	Y	-.003	4
22	MP BETA2	X	.002	4
23	MP GAMMA2	Y	-.002	4
24	MP GAMMA2	X	.001	4
25	MP ALPHA2	Y	-.004	4
26	MP ALPHA2	X	.002	4

Member Point Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.146	6.729
2	MP ALPHA2	Z	-.146	1.271
3	MP BETA2	Z	-.146	6.729
4	MP BETA2	Z	-.146	1.271
5	MP GAMMA2	Z	-.146	6.729
6	MP GAMMA2	Z	-.146	1.271
7	MP ALPHA2	Z	-.072	4
8	MP BETA2	Z	-.072	4
9	MP GAMMA2	Z	-.072	4
10	MP ALPHA2	Z	-.076	4
11	MP BETA2	Z	-.076	4
12	MP GAMMA2	Z	-.076	4
13	MP ALPHA2	Z	-.075	4

Member Point Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.031	6.729
2	MP ALPHA2	Y	-.031	1.271
3	MP BETA2	Y	-.019	6.729
4	MP BETA2	Y	-.019	1.271
5	MP GAMMA2	Y	-.019	6.729
6	MP GAMMA2	Y	-.019	1.271
7	MP ALPHA2	Y	-.011	4
8	MP BETA2	Y	-.008	4
9	MP GAMMA2	Y	-.008	4
10	MP ALPHA2	Y	-.011	4
11	MP BETA2	Y	-.008	4
12	MP GAMMA2	Y	-.008	4
13	MP ALPHA2	Y	-.011	4

Member Point Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.023	6.729
2	MP ALPHA2	Y	-.023	1.271
3	MP ALPHA2	X	-.014	6.729
4	MP ALPHA2	X	-.014	1.271
5	MP BETA2	Y	-.013	6.729
6	MP BETA2	Y	-.013	1.271
7	MP BETA2	X	-.008	6.729
8	MP BETA2	X	-.008	1.271
9	MP GAMMA2	Y	-.023	6.729
10	MP GAMMA2	Y	-.023	1.271
11	MP GAMMA2	X	-.014	6.729
12	MP GAMMA2	X	-.014	1.271
13	MP ALPHA2	Y	-.008	4
14	MP ALPHA2	X	-.005	4
15	MP BETA2	Y	-.006	4
16	MP BETA2	X	-.003	4
17	MP GAMMA2	Y	-.008	4
18	MP GAMMA2	X	-.005	4
19	MP ALPHA2	Y	-.009	4
20	MP ALPHA2	X	-.005	4
21	MP BETA2	Y	-.006	4
22	MP BETA2	X	-.004	4
23	MP GAMMA2	Y	-.009	4
24	MP GAMMA2	X	-.005	4
25	MP ALPHA2	Y	-.009	4
26	MP ALPHA2	X	-.005	4

Member Point Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.01	6.729
2	MP ALPHA2	Y	-.01	1.271
3	MP ALPHA2	X	-.017	6.729
4	MP ALPHA2	X	-.017	1.271
5	MP BETA2	Y	-.01	6.729
6	MP BETA2	Y	-.01	1.271
7	MP BETA2	X	-.017	6.729
8	MP BETA2	X	-.017	1.271
9	MP GAMMA2	Y	-.016	6.729
10	MP GAMMA2	Y	-.016	1.271
11	MP GAMMA2	X	-.027	6.729
12	MP GAMMA2	X	-.027	1.271
13	MP ALPHA2	Y	-.004	4
14	MP ALPHA2	X	-.007	4
15	MP BETA2	Y	-.004	4
16	MP BETA2	X	-.007	4
17	MP GAMMA2	Y	-.005	4
18	MP GAMMA2	X	-.009	4
19	MP ALPHA2	Y	-.004	4
20	MP ALPHA2	X	-.007	4
21	MP BETA2	Y	-.004	4
22	MP BETA2	X	-.007	4
23	MP GAMMA2	Y	-.005	4
24	MP GAMMA2	X	-.009	4
25	MP ALPHA2	Y	-.004	4
26	MP ALPHA2	X	-.007	4

Member Point Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.015	6.729
2	MP ALPHA2	X	-.015	1.271
3	MP BETA2	X	-.027	6.729
4	MP BETA2	X	-.027	1.271
5	MP GAMMA2	X	-.027	6.729
6	MP GAMMA2	X	-.027	1.271
7	MP ALPHA2	X	-.006	4
8	MP BETA2	X	-.01	4
9	MP GAMMA2	X	-.01	4
10	MP ALPHA2	X	-.007	4
11	MP BETA2	X	-.01	4
12	MP GAMMA2	X	-.01	4
13	MP ALPHA2	X	-.007	4

Member Point Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.01	6.729
2	MP ALPHA2	Y	.01	1.271
3	MP ALPHA2	X	-.017	6.729
4	MP ALPHA2	X	-.017	1.271
5	MP BETA2	Y	.016	6.729
6	MP BETA2	Y	.016	1.271
7	MP BETA2	X	-.027	6.729
8	MP BETA2	X	-.027	1.271
9	MP GAMMA2	Y	.01	6.729
10	MP GAMMA2	Y	.01	1.271
11	MP GAMMA2	X	-.017	6.729
12	MP GAMMA2	X	-.017	1.271
13	MP ALPHA2	Y	.004	4
14	MP ALPHA2	X	-.007	4
15	MP BETA2	Y	.005	4
16	MP BETA2	X	-.009	4
17	MP GAMMA2	Y	.004	4
18	MP GAMMA2	X	-.007	4
19	MP ALPHA2	Y	.004	4
20	MP ALPHA2	X	-.007	4
21	MP BETA2	Y	.005	4
22	MP BETA2	X	-.009	4
23	MP GAMMA2	Y	.004	4
24	MP GAMMA2	X	-.007	4
25	MP ALPHA2	Y	.004	4
26	MP ALPHA2	X	-.007	4

Member Point Loads (BLC 33 : Ice Wind Load (150))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.023	6.729
2	MP ALPHA2	Y	.023	1.271
3	MP ALPHA2	X	-.014	6.729
4	MP ALPHA2	X	-.014	1.271
5	MP BETA2	Y	.023	6.729
6	MP BETA2	Y	.023	1.271
7	MP BETA2	X	-.014	6.729
8	MP BETA2	X	-.014	1.271
9	MP GAMMA2	Y	.013	6.729
10	MP GAMMA2	Y	.013	1.271
11	MP GAMMA2	X	-.008	6.729

Member Point Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA2	X	-.008	1.271
13	MP ALPHA2	Y	.008	4
14	MP ALPHA2	X	-.005	4
15	MP BETA2	Y	.008	4
16	MP BETA2	X	-.005	4
17	MP GAMMA2	Y	.006	4
18	MP GAMMA2	X	-.003	4
19	MP ALPHA2	Y	.009	4
20	MP ALPHA2	X	-.005	4
21	MP BETA2	Y	.009	4
22	MP BETA2	X	-.005	4
23	MP GAMMA2	Y	.006	4
24	MP GAMMA2	X	-.004	4
25	MP ALPHA2	Y	.009	4
26	MP ALPHA2	X	-.005	4

Member Point Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.031	6.729
2	MP ALPHA2	Y	.031	1.271
3	MP BETA2	Y	.019	6.729
4	MP BETA2	Y	.019	1.271
5	MP GAMMA2	Y	.019	6.729
6	MP GAMMA2	Y	.019	1.271
7	MP ALPHA2	Y	.011	4
8	MP BETA2	Y	.008	4
9	MP GAMMA2	Y	.008	4
10	MP ALPHA2	Y	.011	4
11	MP BETA2	Y	.008	4
12	MP GAMMA2	Y	.008	4
13	MP ALPHA2	Y	.011	4

Member Point Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.023	6.729
2	MP ALPHA2	Y	.023	1.271
3	MP ALPHA2	X	.014	6.729
4	MP ALPHA2	X	.014	1.271
5	MP BETA2	Y	.013	6.729
6	MP BETA2	Y	.013	1.271
7	MP BETA2	X	.008	6.729
8	MP BETA2	X	.008	1.271
9	MP GAMMA2	Y	.023	6.729
10	MP GAMMA2	Y	.023	1.271
11	MP GAMMA2	X	.014	6.729
12	MP GAMMA2	X	.014	1.271
13	MP ALPHA2	Y	.008	4
14	MP ALPHA2	X	.005	4
15	MP BETA2	Y	.006	4
16	MP BETA2	X	.003	4
17	MP GAMMA2	Y	.008	4
18	MP GAMMA2	X	.005	4
19	MP ALPHA2	Y	.009	4
20	MP ALPHA2	X	.005	4
21	MP BETA2	Y	.006	4
22	MP BETA2	X	.004	4

Member Point Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
23	MP GAMMA2	Y	.009	4
24	MP GAMMA2	X	.005	4
25	MP ALPHA2	Y	.009	4
26	MP ALPHA2	X	.005	4

Member Point Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.01	6.729
2	MP ALPHA2	Y	.01	1.271
3	MP ALPHA2	X	.017	6.729
4	MP ALPHA2	X	.017	1.271
5	MP BETA2	Y	.01	6.729
6	MP BETA2	Y	.01	1.271
7	MP BETA2	X	.017	6.729
8	MP BETA2	X	.017	1.271
9	MP GAMMA2	Y	.016	6.729
10	MP GAMMA2	Y	.016	1.271
11	MP GAMMA2	X	.027	6.729
12	MP GAMMA2	X	.027	1.271
13	MP ALPHA2	Y	.004	4
14	MP ALPHA2	X	.007	4
15	MP BETA2	Y	.004	4
16	MP BETA2	X	.007	4
17	MP GAMMA2	Y	.005	4
18	MP GAMMA2	X	.009	4
19	MP ALPHA2	Y	.004	4
20	MP ALPHA2	X	.007	4
21	MP BETA2	Y	.004	4
22	MP BETA2	X	.007	4
23	MP GAMMA2	Y	.005	4
24	MP GAMMA2	X	.009	4
25	MP ALPHA2	Y	.004	4
26	MP ALPHA2	X	.007	4

Member Point Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.015	6.729
2	MP ALPHA2	X	.015	1.271
3	MP BETA2	X	.027	6.729
4	MP BETA2	X	.027	1.271
5	MP GAMMA2	X	.027	6.729
6	MP GAMMA2	X	.027	1.271
7	MP ALPHA2	X	.006	4
8	MP BETA2	X	.01	4
9	MP GAMMA2	X	.01	4
10	MP ALPHA2	X	.007	4
11	MP BETA2	X	.01	4
12	MP GAMMA2	X	.01	4
13	MP ALPHA2	X	.007	4

Member Point Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.01	6.729
2	MP ALPHA2	Y	-.01	1.271
3	MP ALPHA2	X	.017	6.729

Member Point Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP ALPHA2	X	.017	1.271
5	MP BETA2	Y	-.016	6.729
6	MP BETA2	Y	-.016	1.271
7	MP BETA2	X	.027	6.729
8	MP BETA2	X	.027	1.271
9	MP GAMMA2	Y	-.01	6.729
10	MP GAMMA2	Y	-.01	1.271
11	MP GAMMA2	X	.017	6.729
12	MP GAMMA2	X	.017	1.271
13	MP ALPHA2	Y	-.004	4
14	MP ALPHA2	X	.007	4
15	MP BETA2	Y	-.005	4
16	MP BETA2	X	.009	4
17	MP GAMMA2	Y	-.004	4
18	MP GAMMA2	X	.007	4
19	MP ALPHA2	Y	-.004	4
20	MP ALPHA2	X	.007	4
21	MP BETA2	Y	-.005	4
22	MP BETA2	X	.009	4
23	MP GAMMA2	Y	-.004	4
24	MP GAMMA2	X	.007	4
25	MP ALPHA2	Y	-.004	4
26	MP ALPHA2	X	.007	4

Member Point Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.023	6.729
2	MP ALPHA2	Y	-.023	1.271
3	MP ALPHA2	X	.014	6.729
4	MP ALPHA2	X	.014	1.271
5	MP BETA2	Y	-.023	6.729
6	MP BETA2	Y	-.023	1.271
7	MP BETA2	X	.014	6.729
8	MP BETA2	X	.014	1.271
9	MP GAMMA2	Y	-.013	6.729
10	MP GAMMA2	Y	-.013	1.271
11	MP GAMMA2	X	.008	6.729
12	MP GAMMA2	X	.008	1.271
13	MP ALPHA2	Y	-.008	4
14	MP ALPHA2	X	.005	4
15	MP BETA2	Y	-.008	4
16	MP BETA2	X	.005	4
17	MP GAMMA2	Y	-.006	4
18	MP GAMMA2	X	.003	4
19	MP ALPHA2	Y	-.009	4
20	MP ALPHA2	X	.005	4
21	MP BETA2	Y	-.009	4
22	MP BETA2	X	.005	4
23	MP GAMMA2	Y	-.006	4
24	MP GAMMA2	X	.004	4
25	MP ALPHA2	Y	-.009	4
26	MP ALPHA2	X	.005	4

Member Point Loads (BLC 40 : Earthquake (x-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.004	6.729

Member Point Loads (BLC 40 : Earthquake (x-direction)) (Continued)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP ALPHA2	X	-.004	1.271
3	MP BETA2	X	-.004	6.729
4	MP BETA2	X	-.004	1.271
5	MP GAMMA2	X	-.004	6.729
6	MP GAMMA2	X	-.004	1.271
7	MP ALPHA2	X	-.006	4
8	MP BETA2	X	-.006	4
9	MP GAMMA2	X	-.006	4
10	MP ALPHA2	X	-.007	4
11	MP BETA2	X	-.007	4
12	MP GAMMA2	X	-.007	4
13	MP ALPHA2	X	-.002	4

Member Point Loads (BLC 41 : Earthquake (y-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.004	6.729
2	MP ALPHA2	Y	-.004	1.271
3	MP BETA2	Y	-.004	6.729
4	MP BETA2	Y	-.004	1.271
5	MP GAMMA2	Y	-.004	6.729
6	MP GAMMA2	Y	-.004	1.271
7	MP ALPHA2	Y	-.006	4
8	MP BETA2	Y	-.006	4
9	MP GAMMA2	Y	-.006	4
10	MP ALPHA2	Y	-.007	4
11	MP BETA2	Y	-.007	4
12	MP GAMMA2	Y	-.007	4
13	MP ALPHA2	Y	-.002	4

Member Point Loads (BLC 42 : Earthquake (z-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-.002	6.729
2	MP ALPHA2	Z	-.002	1.271
3	MP BETA2	Z	-.002	6.729
4	MP BETA2	Z	-.002	1.271
5	MP GAMMA2	Z	-.002	6.729
6	MP GAMMA2	Z	-.002	1.271
7	MP ALPHA2	Z	-.002	4
8	MP BETA2	Z	-.002	4
9	MP GAMMA2	Z	-.002	4
10	MP ALPHA2	Z	-.003	4
11	MP BETA2	Z	-.003	4
12	MP GAMMA2	Z	-.003	4
13	MP ALPHA2	Z	-.000853	4

Member Distributed Loads (BLC 2 : Wind Load (0))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.011	-.011	0	0
2	CORNER2	PY	-.011	-.011	0	0
3	CORNER3	PY	-.011	-.011	0	0
4	CORNER4	PY	-.011	-.011	0	0
5	CORNER5	PY	-.011	-.011	0	0
6	CORNER6	PY	-.011	-.011	0	0
7	FACE1	PY	-.004	-.004	0	0

Member Distributed Loads (BLC 2 : Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
8	FACE2	PY	-.009	-.009	0	0
9	FACE3	PY	-.009	-.009	0	0
10	FPLATE1	PY	-.041	-.041	0	0
11	FPLATE2	PY	-.021	-.021	0	0
12	FPLATE3	PY	-.021	-.021	0	0
13	MP ALPHA1	PY	-.009	-.009	0	0
14	MP ALPHA2	PY	-.009	-.009	0	0
15	MP ALPHA3	PY	-.009	-.009	0	0
16	MP BETA1	PY	-.009	-.009	0	0
17	MP BETA2	PY	-.009	-.009	0	0
18	MP BETA3	PY	-.009	-.009	0	0
19	MP GAMMA1	PY	-.009	-.009	0	0
20	MP GAMMA2	PY	-.009	-.009	0	0
21	MP GAMMA3	PY	-.009	-.009	0	0
22	PL1	PY	-.008	-.008	0	0
23	PL2	PY	-.008	-.008	0	0
24	PL3	PY	-.008	-.008	0	0
25	PL4	PY	-.008	-.008	0	0
26	PL5	PY	-.008	-.008	0	0
27	PL6	PY	-.008	-.008	0	0
28	RAIL1	PY	-.003	-.003	0	0
29	RAIL2	PY	-.006	-.006	0	0
30	RAIL3	PY	-.006	-.006	0	0
31	RANGLE1	PY	-.042	-.042	0	0
32	RANGLE2	PY	-.021	-.021	0	0
33	RANGLE3	PY	-.021	-.021	0	0
34	SO1	PY	-.008	-.008	0	0
35	SO2	PY	-.008	-.008	0	0
36	SO3	PY	-.008	-.008	0	0
37	SUPP1	PY	-.006	-.006	0	0
38	SUPP2	PY	-.006	-.006	0	0
39	SUPP3	PY	-.006	-.006	0	0
40	SUPP4	PY	-.006	-.006	0	0
41	SUPP5	PY	-.006	-.006	0	0
42	SUPP6	PY	-.006	-.006	0	0

Member Distributed Loads (BLC 4 : Wind Load (30))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.009	-.009	0	0
2	CORNER2	PY	-.009	-.009	0	0
3	CORNER3	PY	-.009	-.009	0	0
4	CORNER4	PY	-.009	-.009	0	0
5	CORNER5	PY	-.009	-.009	0	0
6	CORNER6	PY	-.009	-.009	0	0
7	FACE1	PY	-.004	-.004	0	0
8	FACE2	PY	-.008	-.008	0	0
9	FACE3	PY	-.008	-.008	0	0
10	FPLATE1	PY	-.036	-.036	0	0
11	FPLATE2	PY	-.018	-.018	0	0
12	FPLATE3	PY	-.018	-.018	0	0
13	MP ALPHA1	PY	-.008	-.008	0	0
14	MP ALPHA2	PY	-.008	-.008	0	0
15	MP ALPHA3	PY	-.008	-.008	0	0
16	MP BETA1	PY	-.008	-.008	0	0
17	MP BETA2	PY	-.008	-.008	0	0
18	MP BETA3	PY	-.008	-.008	0	0

Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
19	MP GAMMA1	PY	-.008	-.008	0	0
20	MP GAMMA2	PY	-.008	-.008	0	0
21	MP GAMMA3	PY	-.008	-.008	0	0
22	PL1	PY	-.007	-.007	0	0
23	PL2	PY	-.007	-.007	0	0
24	PL3	PY	-.007	-.007	0	0
25	PL4	PY	-.007	-.007	0	0
26	PL5	PY	-.007	-.007	0	0
27	PL6	PY	-.007	-.007	0	0
28	RAIL1	PY	-.003	-.003	0	0
29	RAIL2	PY	-.005	-.005	0	0
30	RAIL3	PY	-.005	-.005	0	0
31	RANGLE1	PY	-.036	-.036	0	0
32	RANGLE2	PY	-.018	-.018	0	0
33	RANGLE3	PY	-.018	-.018	0	0
34	SO1	PY	-.007	-.007	0	0
35	SO2	PY	-.007	-.007	0	0
36	SO3	PY	-.007	-.007	0	0
37	SUPP1	PY	-.005	-.005	0	0
38	SUPP2	PY	-.005	-.005	0	0
39	SUPP3	PY	-.005	-.005	0	0
40	SUPP4	PY	-.005	-.005	0	0
41	SUPP5	PY	-.005	-.005	0	0
42	SUPP6	PY	-.005	-.005	0	0
43	CORNER1	PX	-.005	-.005	0	0
44	CORNER2	PX	-.005	-.005	0	0
45	CORNER3	PX	-.005	-.005	0	0
46	CORNER4	PX	-.005	-.005	0	0
47	CORNER5	PX	-.005	-.005	0	0
48	CORNER6	PX	-.005	-.005	0	0
49	FACE1	PX	-.002	-.002	0	0
50	FACE2	PX	-.004	-.004	0	0
51	FACE3	PX	-.004	-.004	0	0
52	FPLATE1	PX	-.021	-.021	0	0
53	FPLATE2	PX	-.01	-.01	0	0
54	FPLATE3	PX	-.01	-.01	0	0
55	MP ALPHA1	PX	-.005	-.005	0	0
56	MP ALPHA2	PX	-.005	-.005	0	0
57	MP ALPHA3	PX	-.005	-.005	0	0
58	MP BETA1	PX	-.005	-.005	0	0
59	MP BETA2	PX	-.005	-.005	0	0
60	MP BETA3	PX	-.005	-.005	0	0
61	MP GAMMA1	PX	-.005	-.005	0	0
62	MP GAMMA2	PX	-.005	-.005	0	0
63	MP GAMMA3	PX	-.005	-.005	0	0
64	PL1	PX	-.004	-.004	0	0
65	PL2	PX	-.004	-.004	0	0
66	PL3	PX	-.004	-.004	0	0
67	PL4	PX	-.004	-.004	0	0
68	PL5	PX	-.004	-.004	0	0
69	PL6	PX	-.004	-.004	0	0
70	RAIL1	PX	-.001	-.001	0	0
71	RAIL2	PX	-.003	-.003	0	0
72	RAIL3	PX	-.003	-.003	0	0
73	RANGLE1	PX	-.021	-.021	0	0
74	RANGLE2	PX	-.01	-.01	0	0
75	RANGLE3	PX	-.01	-.01	0	0

Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
76	SO1	PX	-.004	-.004	0	0
77	SO2	PX	-.004	-.004	0	0
78	SO3	PX	-.004	-.004	0	0
79	SUPP1	PX	-.003	-.003	0	0
80	SUPP2	PX	-.003	-.003	0	0
81	SUPP3	PX	-.003	-.003	0	0
82	SUPP4	PX	-.003	-.003	0	0
83	SUPP5	PX	-.003	-.003	0	0
84	SUPP6	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 5 : Wind Load (60))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.005	-.005	0	0
2	CORNER2	PY	-.005	-.005	0	0
3	CORNER3	PY	-.005	-.005	0	0
4	CORNER4	PY	-.005	-.005	0	0
5	CORNER5	PY	-.005	-.005	0	0
6	CORNER6	PY	-.005	-.005	0	0
7	FACE1	PY	-.002	-.002	0	0
8	FACE2	PY	-.004	-.004	0	0
9	FACE3	PY	-.004	-.004	0	0
10	FPLATE1	PY	-.021	-.021	0	0
11	FPLATE2	PY	-.01	-.01	0	0
12	FPLATE3	PY	-.01	-.01	0	0
13	MP ALPHA1	PY	-.005	-.005	0	0
14	MP ALPHA2	PY	-.005	-.005	0	0
15	MP ALPHA3	PY	-.005	-.005	0	0
16	MP BETA1	PY	-.005	-.005	0	0
17	MP BETA2	PY	-.005	-.005	0	0
18	MP BETA3	PY	-.005	-.005	0	0
19	MP GAMMA1	PY	-.005	-.005	0	0
20	MP GAMMA2	PY	-.005	-.005	0	0
21	MP GAMMA3	PY	-.005	-.005	0	0
22	PL1	PY	-.004	-.004	0	0
23	PL2	PY	-.004	-.004	0	0
24	PL3	PY	-.004	-.004	0	0
25	PL4	PY	-.004	-.004	0	0
26	PL5	PY	-.004	-.004	0	0
27	PL6	PY	-.004	-.004	0	0
28	RAIL1	PY	-.001	-.001	0	0
29	RAIL2	PY	-.003	-.003	0	0
30	RAIL3	PY	-.003	-.003	0	0
31	RANGLE1	PY	-.021	-.021	0	0
32	RANGLE2	PY	-.01	-.01	0	0
33	RANGLE3	PY	-.01	-.01	0	0
34	SO1	PY	-.004	-.004	0	0
35	SO2	PY	-.004	-.004	0	0
36	SO3	PY	-.004	-.004	0	0
37	SUPP1	PY	-.003	-.003	0	0
38	SUPP2	PY	-.003	-.003	0	0
39	SUPP3	PY	-.003	-.003	0	0
40	SUPP4	PY	-.003	-.003	0	0
41	SUPP5	PY	-.003	-.003	0	0
42	SUPP6	PY	-.003	-.003	0	0
43	CORNER1	PX	-.009	-.009	0	0
44	CORNER2	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 5 : Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
45	CORNER3	PX	-.009	-.009	0	0
46	CORNER4	PX	-.009	-.009	0	0
47	CORNER5	PX	-.009	-.009	0	0
48	CORNER6	PX	-.009	-.009	0	0
49	FACE1	PX	-.004	-.004	0	0
50	FACE2	PX	-.008	-.008	0	0
51	FACE3	PX	-.008	-.008	0	0
52	FPLATE1	PX	-.036	-.036	0	0
53	FPLATE2	PX	-.018	-.018	0	0
54	FPLATE3	PX	-.018	-.018	0	0
55	MP ALPHA1	PX	-.008	-.008	0	0
56	MP ALPHA2	PX	-.008	-.008	0	0
57	MP ALPHA3	PX	-.008	-.008	0	0
58	MP BETA1	PX	-.008	-.008	0	0
59	MP BETA2	PX	-.008	-.008	0	0
60	MP BETA3	PX	-.008	-.008	0	0
61	MP GAMMA1	PX	-.008	-.008	0	0
62	MP GAMMA2	PX	-.008	-.008	0	0
63	MP GAMMA3	PX	-.008	-.008	0	0
64	PL1	PX	-.007	-.007	0	0
65	PL2	PX	-.007	-.007	0	0
66	PL3	PX	-.007	-.007	0	0
67	PL4	PX	-.007	-.007	0	0
68	PL5	PX	-.007	-.007	0	0
69	PL6	PX	-.007	-.007	0	0
70	RAIL1	PX	-.003	-.003	0	0
71	RAIL2	PX	-.005	-.005	0	0
72	RAIL3	PX	-.005	-.005	0	0
73	RANGLE1	PX	-.036	-.036	0	0
74	RANGLE2	PX	-.018	-.018	0	0
75	RANGLE3	PX	-.018	-.018	0	0
76	SO1	PX	-.007	-.007	0	0
77	SO2	PX	-.007	-.007	0	0
78	SO3	PX	-.007	-.007	0	0
79	SUPP1	PX	-.005	-.005	0	0
80	SUPP2	PX	-.005	-.005	0	0
81	SUPP3	PX	-.005	-.005	0	0
82	SUPP4	PX	-.005	-.005	0	0
83	SUPP5	PX	-.005	-.005	0	0
84	SUPP6	PX	-.005	-.005	0	0

Member Distributed Loads (BLC 6 : Wind Load (90))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PX	-.011	-.011	0	0
2	CORNER2	PX	-.011	-.011	0	0
3	CORNER3	PX	-.011	-.011	0	0
4	CORNER4	PX	-.011	-.011	0	0
5	CORNER5	PX	-.011	-.011	0	0
6	CORNER6	PX	-.011	-.011	0	0
7	FACE2	PX	-.004	-.004	0	0
8	FACE3	PX	-.009	-.009	0	0
9	FACE1	PX	-.009	-.009	0	0
10	FPLATE2	PX	-.041	-.041	0	0
11	FPLATE3	PX	-.021	-.021	0	0
12	FPLATE1	PX	-.021	-.021	0	0
13	MP ALPHA1	PX	-.009	-.009	0	0

Member Distributed Loads (BLC 6 : Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
14	MP ALPHA2	PX	-.009	-.009	0	0
15	MP ALPHA3	PX	-.009	-.009	0	0
16	MP BETA1	PX	-.009	-.009	0	0
17	MP BETA2	PX	-.009	-.009	0	0
18	MP BETA3	PX	-.009	-.009	0	0
19	MP GAMMA1	PX	-.009	-.009	0	0
20	MP GAMMA2	PX	-.009	-.009	0	0
21	MP GAMMA3	PX	-.009	-.009	0	0
22	PL1	PX	-.008	-.008	0	0
23	PL2	PX	-.008	-.008	0	0
24	PL3	PX	-.008	-.008	0	0
25	PL4	PX	-.008	-.008	0	0
26	PL5	PX	-.008	-.008	0	0
27	PL6	PX	-.008	-.008	0	0
28	RAIL2	PX	-.003	-.003	0	0
29	RAIL3	PX	-.006	-.006	0	0
30	RAIL1	PX	-.006	-.006	0	0
31	RANGLE2	PX	-.042	-.042	0	0
32	RANGLE3	PX	-.021	-.021	0	0
33	RANGLE1	PX	-.021	-.021	0	0
34	SO1	PX	-.008	-.008	0	0
35	SO2	PX	-.008	-.008	0	0
36	SO3	PX	-.008	-.008	0	0
37	SUPP1	PX	-.006	-.006	0	0
38	SUPP2	PX	-.006	-.006	0	0
39	SUPP3	PX	-.006	-.006	0	0
40	SUPP4	PX	-.006	-.006	0	0
41	SUPP5	PX	-.006	-.006	0	0
42	SUPP6	PX	-.006	-.006	0	0

Member Distributed Loads (BLC 7 : Wind Load (120))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.005	.005	0	0
2	CORNER2	PY	.005	.005	0	0
3	CORNER3	PY	.005	.005	0	0
4	CORNER4	PY	.005	.005	0	0
5	CORNER5	PY	.005	.005	0	0
6	CORNER6	PY	.005	.005	0	0
7	FACE2	PY	.002	.002	0	0
8	FACE3	PY	.004	.004	0	0
9	FACE1	PY	.004	.004	0	0
10	FPLATE2	PY	.021	.021	0	0
11	FPLATE3	PY	.01	.01	0	0
12	FPLATE1	PY	.01	.01	0	0
13	MP ALPHA1	PY	.005	.005	0	0
14	MP ALPHA2	PY	.005	.005	0	0
15	MP ALPHA3	PY	.005	.005	0	0
16	MP BETA1	PY	.005	.005	0	0
17	MP BETA2	PY	.005	.005	0	0
18	MP BETA3	PY	.005	.005	0	0
19	MP GAMMA1	PY	.005	.005	0	0
20	MP GAMMA2	PY	.005	.005	0	0
21	MP GAMMA3	PY	.005	.005	0	0
22	PL1	PY	.004	.004	0	0
23	PL2	PY	.004	.004	0	0
24	PL3	PY	.004	.004	0	0

Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
25	PL4	PY	.004	.004	0	0
26	PL5	PY	.004	.004	0	0
27	PL6	PY	.004	.004	0	0
28	RAIL2	PY	.001	.001	0	0
29	RAIL3	PY	.003	.003	0	0
30	RAIL1	PY	.003	.003	0	0
31	RANGLE2	PY	.021	.021	0	0
32	RANGLE3	PY	.01	.01	0	0
33	RANGLE1	PY	.01	.01	0	0
34	SO1	PY	.004	.004	0	0
35	SO2	PY	.004	.004	0	0
36	SO3	PY	.004	.004	0	0
37	SUPP1	PY	.003	.003	0	0
38	SUPP2	PY	.003	.003	0	0
39	SUPP3	PY	.003	.003	0	0
40	SUPP4	PY	.003	.003	0	0
41	SUPP5	PY	.003	.003	0	0
42	SUPP6	PY	.003	.003	0	0
43	CORNER1	PX	-.009	-.009	0	0
44	CORNER2	PX	-.009	-.009	0	0
45	CORNER3	PX	-.009	-.009	0	0
46	CORNER4	PX	-.009	-.009	0	0
47	CORNER5	PX	-.009	-.009	0	0
48	CORNER6	PX	-.009	-.009	0	0
49	FACE2	PX	-.004	-.004	0	0
50	FACE3	PX	-.008	-.008	0	0
51	FACE1	PX	-.008	-.008	0	0
52	FPLATE2	PX	-.036	-.036	0	0
53	FPLATE3	PX	-.018	-.018	0	0
54	FPLATE1	PX	-.018	-.018	0	0
55	MP ALPHA1	PX	-.008	-.008	0	0
56	MP ALPHA2	PX	-.008	-.008	0	0
57	MP ALPHA3	PX	-.008	-.008	0	0
58	MP BETA1	PX	-.008	-.008	0	0
59	MP BETA2	PX	-.008	-.008	0	0
60	MP BETA3	PX	-.008	-.008	0	0
61	MP GAMMA1	PX	-.008	-.008	0	0
62	MP GAMMA2	PX	-.008	-.008	0	0
63	MP GAMMA3	PX	-.008	-.008	0	0
64	PL1	PX	-.007	-.007	0	0
65	PL2	PX	-.007	-.007	0	0
66	PL3	PX	-.007	-.007	0	0
67	PL4	PX	-.007	-.007	0	0
68	PL5	PX	-.007	-.007	0	0
69	PL6	PX	-.007	-.007	0	0
70	RAIL2	PX	-.003	-.003	0	0
71	RAIL3	PX	-.005	-.005	0	0
72	RAIL1	PX	-.005	-.005	0	0
73	RANGLE2	PX	-.036	-.036	0	0
74	RANGLE3	PX	-.018	-.018	0	0
75	RANGLE1	PX	-.018	-.018	0	0
76	SO1	PX	-.007	-.007	0	0
77	SO2	PX	-.007	-.007	0	0
78	SO3	PX	-.007	-.007	0	0
79	SUPP1	PX	-.005	-.005	0	0
80	SUPP2	PX	-.005	-.005	0	0
81	SUPP3	PX	-.005	-.005	0	0

Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
82	SUPP4	PX	-.005	-.005	0	0
83	SUPP5	PX	-.005	-.005	0	0
84	SUPP6	PX	-.005	-.005	0	0

Member Distributed Loads (BLC 8 : Wind Load (150))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.009	.009	0	0
2	CORNER2	PY	.009	.009	0	0
3	CORNER3	PY	.009	.009	0	0
4	CORNER4	PY	.009	.009	0	0
5	CORNER5	PY	.009	.009	0	0
6	CORNER6	PY	.009	.009	0	0
7	FACE2	PY	.004	.004	0	0
8	FACE3	PY	.008	.008	0	0
9	FACE1	PY	.008	.008	0	0
10	FPLATE2	PY	.036	.036	0	0
11	FPLATE3	PY	.018	.018	0	0
12	FPLATE1	PY	.018	.018	0	0
13	MP ALPHA1	PY	.008	.008	0	0
14	MP ALPHA2	PY	.008	.008	0	0
15	MP ALPHA3	PY	.008	.008	0	0
16	MP BETA1	PY	.008	.008	0	0
17	MP BETA2	PY	.008	.008	0	0
18	MP BETA3	PY	.008	.008	0	0
19	MP GAMMA1	PY	.008	.008	0	0
20	MP GAMMA2	PY	.008	.008	0	0
21	MP GAMMA3	PY	.008	.008	0	0
22	PL1	PY	.007	.007	0	0
23	PL2	PY	.007	.007	0	0
24	PL3	PY	.007	.007	0	0
25	PL4	PY	.007	.007	0	0
26	PL5	PY	.007	.007	0	0
27	PL6	PY	.007	.007	0	0
28	RAIL2	PY	.003	.003	0	0
29	RAIL3	PY	.005	.005	0	0
30	RAIL1	PY	.005	.005	0	0
31	RANGLE2	PY	.036	.036	0	0
32	RANGLE3	PY	.018	.018	0	0
33	RANGLE1	PY	.018	.018	0	0
34	SO1	PY	.007	.007	0	0
35	SO2	PY	.007	.007	0	0
36	SO3	PY	.007	.007	0	0
37	SUPP1	PY	.005	.005	0	0
38	SUPP2	PY	.005	.005	0	0
39	SUPP3	PY	.005	.005	0	0
40	SUPP4	PY	.005	.005	0	0
41	SUPP5	PY	.005	.005	0	0
42	SUPP6	PY	.005	.005	0	0
43	CORNER1	PX	-.005	-.005	0	0
44	CORNER2	PX	-.005	-.005	0	0
45	CORNER3	PX	-.005	-.005	0	0
46	CORNER4	PX	-.005	-.005	0	0
47	CORNER5	PX	-.005	-.005	0	0
48	CORNER6	PX	-.005	-.005	0	0
49	FACE2	PX	-.002	-.002	0	0
50	FACE3	PX	-.004	-.004	0	0

Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
51	FACE1	PX	-.004	-.004	0	0
52	FPLATE2	PX	-.021	-.021	0	0
53	FPLATE3	PX	-.01	-.01	0	0
54	FPLATE1	PX	-.01	-.01	0	0
55	MP ALPHA1	PX	-.005	-.005	0	0
56	MP ALPHA2	PX	-.005	-.005	0	0
57	MP ALPHA3	PX	-.005	-.005	0	0
58	MP BETA1	PX	-.005	-.005	0	0
59	MP BETA2	PX	-.005	-.005	0	0
60	MP BETA3	PX	-.005	-.005	0	0
61	MP GAMMA1	PX	-.005	-.005	0	0
62	MP GAMMA2	PX	-.005	-.005	0	0
63	MP GAMMA3	PX	-.005	-.005	0	0
64	PL1	PX	-.004	-.004	0	0
65	PL2	PX	-.004	-.004	0	0
66	PL3	PX	-.004	-.004	0	0
67	PL4	PX	-.004	-.004	0	0
68	PL5	PX	-.004	-.004	0	0
69	PL6	PX	-.004	-.004	0	0
70	RAIL2	PX	-.001	-.001	0	0
71	RAIL3	PX	-.003	-.003	0	0
72	RAIL1	PX	-.003	-.003	0	0
73	RANGLE2	PX	-.021	-.021	0	0
74	RANGLE3	PX	-.01	-.01	0	0
75	RANGLE1	PX	-.01	-.01	0	0
76	SO1	PX	-.004	-.004	0	0
77	SO2	PX	-.004	-.004	0	0
78	SO3	PX	-.004	-.004	0	0
79	SUPP1	PX	-.003	-.003	0	0
80	SUPP2	PX	-.003	-.003	0	0
81	SUPP3	PX	-.003	-.003	0	0
82	SUPP4	PX	-.003	-.003	0	0
83	SUPP5	PX	-.003	-.003	0	0
84	SUPP6	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 9 : Wind Load (180))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.011	.011	0	0
2	CORNER2	PY	.011	.011	0	0
3	CORNER3	PY	.011	.011	0	0
4	CORNER4	PY	.011	.011	0	0
5	CORNER5	PY	.011	.011	0	0
6	CORNER6	PY	.011	.011	0	0
7	FACE2	PY	.004	.004	0	0
8	FACE3	PY	.009	.009	0	0
9	FACE1	PY	.009	.009	0	0
10	FPLATE2	PY	.041	.041	0	0
11	FPLATE3	PY	.021	.021	0	0
12	FPLATE1	PY	.021	.021	0	0
13	MP ALPHA1	PY	.009	.009	0	0
14	MP ALPHA2	PY	.009	.009	0	0
15	MP ALPHA3	PY	.009	.009	0	0
16	MP BETA1	PY	.009	.009	0	0
17	MP BETA2	PY	.009	.009	0	0
18	MP BETA3	PY	.009	.009	0	0
19	MP GAMMA1	PY	.009	.009	0	0

Member Distributed Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
20	MP GAMMA2	PY	.009	.009	0	0
21	MP GAMMA3	PY	.009	.009	0	0
22	PL1	PY	.008	.008	0	0
23	PL2	PY	.008	.008	0	0
24	PL3	PY	.008	.008	0	0
25	PL4	PY	.008	.008	0	0
26	PL5	PY	.008	.008	0	0
27	PL6	PY	.008	.008	0	0
28	RAIL2	PY	.003	.003	0	0
29	RAIL3	PY	.006	.006	0	0
30	RAIL1	PY	.006	.006	0	0
31	RANGLE2	PY	.042	.042	0	0
32	RANGLE3	PY	.021	.021	0	0
33	RANGLE1	PY	.021	.021	0	0
34	SO1	PY	.008	.008	0	0
35	SO2	PY	.008	.008	0	0
36	SO3	PY	.008	.008	0	0
37	SUPP1	PY	.006	.006	0	0
38	SUPP2	PY	.006	.006	0	0
39	SUPP3	PY	.006	.006	0	0
40	SUPP4	PY	.006	.006	0	0
41	SUPP5	PY	.006	.006	0	0
42	SUPP6	PY	.006	.006	0	0

Member Distributed Loads (BLC 10 : Wind Load (210))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.009	.009	0	0
2	CORNER2	PY	.009	.009	0	0
3	CORNER3	PY	.009	.009	0	0
4	CORNER4	PY	.009	.009	0	0
5	CORNER5	PY	.009	.009	0	0
6	CORNER6	PY	.009	.009	0	0
7	FACE3	PY	.004	.004	0	0
8	FACE1	PY	.008	.008	0	0
9	FACE2	PY	.008	.008	0	0
10	FPLATE3	PY	.036	.036	0	0
11	FPLATE1	PY	.018	.018	0	0
12	FPLATE2	PY	.018	.018	0	0
13	MP ALPHA1	PY	.008	.008	0	0
14	MP ALPHA2	PY	.008	.008	0	0
15	MP ALPHA3	PY	.008	.008	0	0
16	MP BETA1	PY	.008	.008	0	0
17	MP BETA2	PY	.008	.008	0	0
18	MP BETA3	PY	.008	.008	0	0
19	MP GAMMA1	PY	.008	.008	0	0
20	MP GAMMA2	PY	.008	.008	0	0
21	MP GAMMA3	PY	.008	.008	0	0
22	PL1	PY	.007	.007	0	0
23	PL2	PY	.007	.007	0	0
24	PL3	PY	.007	.007	0	0
25	PL4	PY	.007	.007	0	0
26	PL5	PY	.007	.007	0	0
27	PL6	PY	.007	.007	0	0
28	RAIL3	PY	.003	.003	0	0
29	RAIL1	PY	.005	.005	0	0
30	RAIL2	PY	.005	.005	0	0

Member Distributed Loads (BLC 10 : Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
31	RANGLE3	PY	.036	.036	0	0
32	RANGLE1	PY	.018	.018	0	0
33	RANGLE2	PY	.018	.018	0	0
34	SO1	PY	.007	.007	0	0
35	SO2	PY	.007	.007	0	0
36	SO3	PY	.007	.007	0	0
37	SUPP1	PY	.005	.005	0	0
38	SUPP2	PY	.005	.005	0	0
39	SUPP3	PY	.005	.005	0	0
40	SUPP4	PY	.005	.005	0	0
41	SUPP5	PY	.005	.005	0	0
42	SUPP6	PY	.005	.005	0	0
43	CORNER1	PX	.005	.005	0	0
44	CORNER2	PX	.005	.005	0	0
45	CORNER3	PX	.005	.005	0	0
46	CORNER4	PX	.005	.005	0	0
47	CORNER5	PX	.005	.005	0	0
48	CORNER6	PX	.005	.005	0	0
49	FACE3	PX	.002	.002	0	0
50	FACE1	PX	.004	.004	0	0
51	FACE2	PX	.004	.004	0	0
52	FPLATE3	PX	.021	.021	0	0
53	FPLATE1	PX	.01	.01	0	0
54	FPLATE2	PX	.01	.01	0	0
55	MP ALPHA1	PX	.005	.005	0	0
56	MP ALPHA2	PX	.005	.005	0	0
57	MP ALPHA3	PX	.005	.005	0	0
58	MP BETA1	PX	.005	.005	0	0
59	MP BETA2	PX	.005	.005	0	0
60	MP BETA3	PX	.005	.005	0	0
61	MP GAMMA1	PX	.005	.005	0	0
62	MP GAMMA2	PX	.005	.005	0	0
63	MP GAMMA3	PX	.005	.005	0	0
64	PL1	PX	.004	.004	0	0
65	PL2	PX	.004	.004	0	0
66	PL3	PX	.004	.004	0	0
67	PL4	PX	.004	.004	0	0
68	PL5	PX	.004	.004	0	0
69	PL6	PX	.004	.004	0	0
70	RAIL3	PX	.001	.001	0	0
71	RAIL1	PX	.003	.003	0	0
72	RAIL2	PX	.003	.003	0	0
73	RANGLE3	PX	.021	.021	0	0
74	RANGLE1	PX	.01	.01	0	0
75	RANGLE2	PX	.01	.01	0	0
76	SO1	PX	.004	.004	0	0
77	SO2	PX	.004	.004	0	0
78	SO3	PX	.004	.004	0	0
79	SUPP1	PX	.003	.003	0	0
80	SUPP2	PX	.003	.003	0	0
81	SUPP3	PX	.003	.003	0	0
82	SUPP4	PX	.003	.003	0	0
83	SUPP5	PX	.003	.003	0	0
84	SUPP6	PX	.003	.003	0	0

Member Distributed Loads (BLC 11 : Wind Load (240))

Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]

Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.005	.005	0	0
2	CORNER2	PY	.005	.005	0	0
3	CORNER3	PY	.005	.005	0	0
4	CORNER4	PY	.005	.005	0	0
5	CORNER5	PY	.005	.005	0	0
6	CORNER6	PY	.005	.005	0	0
7	FACE3	PY	.002	.002	0	0
8	FACE1	PY	.004	.004	0	0
9	FACE2	PY	.004	.004	0	0
10	FPLATE3	PY	.021	.021	0	0
11	FPLATE1	PY	.01	.01	0	0
12	FPLATE2	PY	.01	.01	0	0
13	MP ALPHA1	PY	.005	.005	0	0
14	MP ALPHA2	PY	.005	.005	0	0
15	MP ALPHA3	PY	.005	.005	0	0
16	MP BETA1	PY	.005	.005	0	0
17	MP BETA2	PY	.005	.005	0	0
18	MP BETA3	PY	.005	.005	0	0
19	MP GAMMA1	PY	.005	.005	0	0
20	MP GAMMA2	PY	.005	.005	0	0
21	MP GAMMA3	PY	.005	.005	0	0
22	PL1	PY	.004	.004	0	0
23	PL2	PY	.004	.004	0	0
24	PL3	PY	.004	.004	0	0
25	PL4	PY	.004	.004	0	0
26	PL5	PY	.004	.004	0	0
27	PL6	PY	.004	.004	0	0
28	RAIL3	PY	.001	.001	0	0
29	RAIL1	PY	.003	.003	0	0
30	RAIL2	PY	.003	.003	0	0
31	RANGLE3	PY	.021	.021	0	0
32	RANGLE1	PY	.01	.01	0	0
33	RANGLE2	PY	.01	.01	0	0
34	SO1	PY	.004	.004	0	0
35	SO2	PY	.004	.004	0	0
36	SO3	PY	.004	.004	0	0
37	SUPP1	PY	.003	.003	0	0
38	SUPP2	PY	.003	.003	0	0
39	SUPP3	PY	.003	.003	0	0
40	SUPP4	PY	.003	.003	0	0
41	SUPP5	PY	.003	.003	0	0
42	SUPP6	PY	.003	.003	0	0
43	CORNER1	PX	.009	.009	0	0
44	CORNER2	PX	.009	.009	0	0
45	CORNER3	PX	.009	.009	0	0
46	CORNER4	PX	.009	.009	0	0
47	CORNER5	PX	.009	.009	0	0
48	CORNER6	PX	.009	.009	0	0
49	FACE3	PX	.004	.004	0	0
50	FACE1	PX	.008	.008	0	0
51	FACE2	PX	.008	.008	0	0
52	FPLATE3	PX	.036	.036	0	0
53	FPLATE1	PX	.018	.018	0	0
54	FPLATE2	PX	.018	.018	0	0
55	MP ALPHA1	PX	.008	.008	0	0
56	MP ALPHA2	PX	.008	.008	0	0
57	MP ALPHA3	PX	.008	.008	0	0

Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
58	MP BETA1	PX	.008	.008	0	0
59	MP BETA2	PX	.008	.008	0	0
60	MP BETA3	PX	.008	.008	0	0
61	MP GAMMA1	PX	.008	.008	0	0
62	MP GAMMA2	PX	.008	.008	0	0
63	MP GAMMA3	PX	.008	.008	0	0
64	PL1	PX	.007	.007	0	0
65	PL2	PX	.007	.007	0	0
66	PL3	PX	.007	.007	0	0
67	PL4	PX	.007	.007	0	0
68	PL5	PX	.007	.007	0	0
69	PL6	PX	.007	.007	0	0
70	RAIL3	PX	.003	.003	0	0
71	RAIL1	PX	.005	.005	0	0
72	RAIL2	PX	.005	.005	0	0
73	RANGLE3	PX	.036	.036	0	0
74	RANGLE1	PX	.018	.018	0	0
75	RANGLE2	PX	.018	.018	0	0
76	SO1	PX	.007	.007	0	0
77	SO2	PX	.007	.007	0	0
78	SO3	PX	.007	.007	0	0
79	SUPP1	PX	.005	.005	0	0
80	SUPP2	PX	.005	.005	0	0
81	SUPP3	PX	.005	.005	0	0
82	SUPP4	PX	.005	.005	0	0
83	SUPP5	PX	.005	.005	0	0
84	SUPP6	PX	.005	.005	0	0

Member Distributed Loads (BLC 12 : Wind Load (270))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PX	.011	.011	0	0
2	CORNER2	PX	.011	.011	0	0
3	CORNER3	PX	.011	.011	0	0
4	CORNER4	PX	.011	.011	0	0
5	CORNER5	PX	.011	.011	0	0
6	CORNER6	PX	.011	.011	0	0
7	FACE3	PX	.004	.004	0	0
8	FACE1	PX	.009	.009	0	0
9	FACE2	PX	.009	.009	0	0
10	FPLATE3	PX	.041	.041	0	0
11	FPLATE1	PX	.021	.021	0	0
12	FPLATE2	PX	.021	.021	0	0
13	MP ALPHA1	PX	.009	.009	0	0
14	MP ALPHA2	PX	.009	.009	0	0
15	MP ALPHA3	PX	.009	.009	0	0
16	MP BETA1	PX	.009	.009	0	0
17	MP BETA2	PX	.009	.009	0	0
18	MP BETA3	PX	.009	.009	0	0
19	MP GAMMA1	PX	.009	.009	0	0
20	MP GAMMA2	PX	.009	.009	0	0
21	MP GAMMA3	PX	.009	.009	0	0
22	PL1	PX	.008	.008	0	0
23	PL2	PX	.008	.008	0	0
24	PL3	PX	.008	.008	0	0
25	PL4	PX	.008	.008	0	0
26	PL5	PX	.008	.008	0	0

Member Distributed Loads (BLC 12 : Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
27	PL6	PX	.008	.008	0	0
28	RAIL3	PX	.003	.003	0	0
29	RAIL1	PX	.006	.006	0	0
30	RAIL2	PX	.006	.006	0	0
31	RANGLE3	PX	.042	.042	0	0
32	RANGLE1	PX	.021	.021	0	0
33	RANGLE2	PX	.021	.021	0	0
34	SO1	PX	.008	.008	0	0
35	SO2	PX	.008	.008	0	0
36	SO3	PX	.008	.008	0	0
37	SUPP1	PX	.006	.006	0	0
38	SUPP2	PX	.006	.006	0	0
39	SUPP3	PX	.006	.006	0	0
40	SUPP4	PX	.006	.006	0	0
41	SUPP5	PX	.006	.006	0	0
42	SUPP6	PX	.006	.006	0	0

Member Distributed Loads (BLC 13 : Wind Load (300))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.005	-.005	0	0
2	CORNER2	PY	-.005	-.005	0	0
3	CORNER3	PY	-.005	-.005	0	0
4	CORNER4	PY	-.005	-.005	0	0
5	CORNER5	PY	-.005	-.005	0	0
6	CORNER6	PY	-.005	-.005	0	0
7	FACE3	PY	-.002	-.002	0	0
8	FACE1	PY	-.004	-.004	0	0
9	FACE2	PY	-.004	-.004	0	0
10	FPLATE3	PY	-.021	-.021	0	0
11	FPLATE1	PY	-.01	-.01	0	0
12	FPLATE2	PY	-.01	-.01	0	0
13	MP ALPHA1	PY	-.005	-.005	0	0
14	MP ALPHA2	PY	-.005	-.005	0	0
15	MP ALPHA3	PY	-.005	-.005	0	0
16	MP BETA1	PY	-.005	-.005	0	0
17	MP BETA2	PY	-.005	-.005	0	0
18	MP BETA3	PY	-.005	-.005	0	0
19	MP GAMMA1	PY	-.005	-.005	0	0
20	MP GAMMA2	PY	-.005	-.005	0	0
21	MP GAMMA3	PY	-.005	-.005	0	0
22	PL1	PY	-.004	-.004	0	0
23	PL2	PY	-.004	-.004	0	0
24	PL3	PY	-.004	-.004	0	0
25	PL4	PY	-.004	-.004	0	0
26	PL5	PY	-.004	-.004	0	0
27	PL6	PY	-.004	-.004	0	0
28	RAIL3	PY	-.001	-.001	0	0
29	RAIL1	PY	-.003	-.003	0	0
30	RAIL2	PY	-.003	-.003	0	0
31	RANGLE3	PY	-.021	-.021	0	0
32	RANGLE1	PY	-.01	-.01	0	0
33	RANGLE2	PY	-.01	-.01	0	0
34	SO1	PY	-.004	-.004	0	0
35	SO2	PY	-.004	-.004	0	0
36	SO3	PY	-.004	-.004	0	0
37	SUPP1	PY	-.003	-.003	0	0

Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
38	SUPP2	PY	-.003	-.003	0	0
39	SUPP3	PY	-.003	-.003	0	0
40	SUPP4	PY	-.003	-.003	0	0
41	SUPP5	PY	-.003	-.003	0	0
42	SUPP6	PY	-.003	-.003	0	0
43	CORNER1	PX	.009	.009	0	0
44	CORNER2	PX	.009	.009	0	0
45	CORNER3	PX	.009	.009	0	0
46	CORNER4	PX	.009	.009	0	0
47	CORNER5	PX	.009	.009	0	0
48	CORNER6	PX	.009	.009	0	0
49	FACE3	PX	.004	.004	0	0
50	FACE1	PX	.008	.008	0	0
51	FACE2	PX	.008	.008	0	0
52	FPLATE3	PX	.036	.036	0	0
53	FPLATE1	PX	.018	.018	0	0
54	FPLATE2	PX	.018	.018	0	0
55	MP ALPHA1	PX	.008	.008	0	0
56	MP ALPHA2	PX	.008	.008	0	0
57	MP ALPHA3	PX	.008	.008	0	0
58	MP BETA1	PX	.008	.008	0	0
59	MP BETA2	PX	.008	.008	0	0
60	MP BETA3	PX	.008	.008	0	0
61	MP GAMMA1	PX	.008	.008	0	0
62	MP GAMMA2	PX	.008	.008	0	0
63	MP GAMMA3	PX	.008	.008	0	0
64	PL1	PX	.007	.007	0	0
65	PL2	PX	.007	.007	0	0
66	PL3	PX	.007	.007	0	0
67	PL4	PX	.007	.007	0	0
68	PL5	PX	.007	.007	0	0
69	PL6	PX	.007	.007	0	0
70	RAIL3	PX	.003	.003	0	0
71	RAIL1	PX	.005	.005	0	0
72	RAIL2	PX	.005	.005	0	0
73	RANGLE3	PX	.036	.036	0	0
74	RANGLE1	PX	.018	.018	0	0
75	RANGLE2	PX	.018	.018	0	0
76	SO1	PX	.007	.007	0	0
77	SO2	PX	.007	.007	0	0
78	SO3	PX	.007	.007	0	0
79	SUPP1	PX	.005	.005	0	0
80	SUPP2	PX	.005	.005	0	0
81	SUPP3	PX	.005	.005	0	0
82	SUPP4	PX	.005	.005	0	0
83	SUPP5	PX	.005	.005	0	0
84	SUPP6	PX	.005	.005	0	0

Member Distributed Loads (BLC 14 : Wind Load (330))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.009	-.009	0	0
2	CORNER2	PY	-.009	-.009	0	0
3	CORNER3	PY	-.009	-.009	0	0
4	CORNER4	PY	-.009	-.009	0	0
5	CORNER5	PY	-.009	-.009	0	0
6	CORNER6	PY	-.009	-.009	0	0

Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	FACE1	PY	-.004	-.004	0	0
8	FACE2	PY	-.008	-.008	0	0
9	FACE3	PY	-.008	-.008	0	0
10	FPLATE1	PY	-.036	-.036	0	0
11	FPLATE2	PY	-.018	-.018	0	0
12	FPLATE3	PY	-.018	-.018	0	0
13	MP ALPHA1	PY	-.008	-.008	0	0
14	MP ALPHA2	PY	-.008	-.008	0	0
15	MP ALPHA3	PY	-.008	-.008	0	0
16	MP BETA1	PY	-.008	-.008	0	0
17	MP BETA2	PY	-.008	-.008	0	0
18	MP BETA3	PY	-.008	-.008	0	0
19	MP GAMMA1	PY	-.008	-.008	0	0
20	MP GAMMA2	PY	-.008	-.008	0	0
21	MP GAMMA3	PY	-.008	-.008	0	0
22	PL1	PY	-.007	-.007	0	0
23	PL2	PY	-.007	-.007	0	0
24	PL3	PY	-.007	-.007	0	0
25	PL4	PY	-.007	-.007	0	0
26	PL5	PY	-.007	-.007	0	0
27	PL6	PY	-.007	-.007	0	0
28	RAIL1	PY	-.003	-.003	0	0
29	RAIL2	PY	-.005	-.005	0	0
30	RAIL3	PY	-.005	-.005	0	0
31	RANGLE1	PY	-.036	-.036	0	0
32	RANGLE2	PY	-.018	-.018	0	0
33	RANGLE3	PY	-.018	-.018	0	0
34	SO1	PY	-.007	-.007	0	0
35	SO2	PY	-.007	-.007	0	0
36	SO3	PY	-.007	-.007	0	0
37	SUPP1	PY	-.005	-.005	0	0
38	SUPP2	PY	-.005	-.005	0	0
39	SUPP3	PY	-.005	-.005	0	0
40	SUPP4	PY	-.005	-.005	0	0
41	SUPP5	PY	-.005	-.005	0	0
42	SUPP6	PY	-.005	-.005	0	0
43	CORNER1	PX	.005	.005	0	0
44	CORNER2	PX	.005	.005	0	0
45	CORNER3	PX	.005	.005	0	0
46	CORNER4	PX	.005	.005	0	0
47	CORNER5	PX	.005	.005	0	0
48	CORNER6	PX	.005	.005	0	0
49	FACE1	PX	.002	.002	0	0
50	FACE2	PX	.004	.004	0	0
51	FACE3	PX	.004	.004	0	0
52	FPLATE1	PX	.021	.021	0	0
53	FPLATE2	PX	.01	.01	0	0
54	FPLATE3	PX	.01	.01	0	0
55	MP ALPHA1	PX	.005	.005	0	0
56	MP ALPHA2	PX	.005	.005	0	0
57	MP ALPHA3	PX	.005	.005	0	0
58	MP BETA1	PX	.005	.005	0	0
59	MP BETA2	PX	.005	.005	0	0
60	MP BETA3	PX	.005	.005	0	0
61	MP GAMMA1	PX	.005	.005	0	0
62	MP GAMMA2	PX	.005	.005	0	0
63	MP GAMMA3	PX	.005	.005	0	0

Member Distributed Loads (BLC 14 : Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
64	PL1	PX	.004	.004	0	0
65	PL2	PX	.004	.004	0	0
66	PL3	PX	.004	.004	0	0
67	PL4	PX	.004	.004	0	0
68	PL5	PX	.004	.004	0	0
69	PL6	PX	.004	.004	0	0
70	RAIL1	PX	.001	.001	0	0
71	RAIL2	PX	.003	.003	0	0
72	RAIL3	PX	.003	.003	0	0
73	RANGLE1	PX	.021	.021	0	0
74	RANGLE2	PX	.01	.01	0	0
75	RANGLE3	PX	.01	.01	0	0
76	SO1	PX	.004	.004	0	0
77	SO2	PX	.004	.004	0	0
78	SO3	PX	.004	.004	0	0
79	SUPP1	PX	.003	.003	0	0
80	SUPP2	PX	.003	.003	0	0
81	SUPP3	PX	.003	.003	0	0
82	SUPP4	PX	.003	.003	0	0
83	SUPP5	PX	.003	.003	0	0
84	SUPP6	PX	.003	.003	0	0

Member Distributed Loads (BLC 15 : Maintanence (0))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.000637	-.000637	0	0
2	CORNER2	PY	-.000637	-.000637	0	0
3	CORNER3	PY	-.000637	-.000637	0	0
4	CORNER4	PY	-.000637	-.000637	0	0
5	CORNER5	PY	-.000637	-.000637	0	0
6	CORNER6	PY	-.000637	-.000637	0	0
7	FACE1	PY	-.000258	-.000258	0	0
8	FACE2	PY	-.000517	-.000517	0	0
9	FACE3	PY	-.000517	-.000517	0	0
10	FPLATE1	PY	-.002	-.002	0	0
11	FPLATE2	PY	-.001	-.001	0	0
12	FPLATE3	PY	-.001	-.001	0	0
13	MP ALPHA1	PY	-.000536	-.000536	0	0
14	MP ALPHA2	PY	-.000536	-.000536	0	0
15	MP ALPHA3	PY	-.000536	-.000536	0	0
16	MP BETA1	PY	-.000536	-.000536	0	0
17	MP BETA2	PY	-.000536	-.000536	0	0
18	MP BETA3	PY	-.000536	-.000536	0	0
19	MP GAMMA1	PY	-.000536	-.000536	0	0
20	MP GAMMA2	PY	-.000536	-.000536	0	0
21	MP GAMMA3	PY	-.000536	-.000536	0	0
22	PL1	PY	-.000447	-.000447	0	0
23	PL2	PY	-.000447	-.000447	0	0
24	PL3	PY	-.000447	-.000447	0	0
25	PL4	PY	-.000447	-.000447	0	0
26	PL5	PY	-.000447	-.000447	0	0
27	PL6	PY	-.000447	-.000447	0	0
28	RAIL1	PY	-.000175	-.000175	0	0
29	RAIL2	PY	-.000351	-.000351	0	0
30	RAIL3	PY	-.000351	-.000351	0	0
31	RANGLE1	PY	-.002	-.002	0	0
32	RANGLE2	PY	-.001	-.001	0	0

Member Distributed Loads (BLC 15 : Maintanence (0)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
33	RANGLE3	PY	-.001	-.001	0	0
34	SO1	PY	-.000471	-.000471	0	0
35	SO2	PY	-.000471	-.000471	0	0
36	SO3	PY	-.000471	-.000471	0	0
37	SUPP1	PY	-.000377	-.000377	0	0
38	SUPP2	PY	-.000377	-.000377	0	0
39	SUPP3	PY	-.000377	-.000377	0	0
40	SUPP4	PY	-.000377	-.000377	0	0
41	SUPP5	PY	-.000377	-.000377	0	0
42	SUPP6	PY	-.000377	-.000377	0	0

Member Distributed Loads (BLC 16 : Maintanence (30))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.000551	-.000551	0	0
2	CORNER2	PY	-.000551	-.000551	0	0
3	CORNER3	PY	-.000551	-.000551	0	0
4	CORNER4	PY	-.000551	-.000551	0	0
5	CORNER5	PY	-.000551	-.000551	0	0
6	CORNER6	PY	-.000551	-.000551	0	0
7	FACE1	PY	-.000224	-.000224	0	0
8	FACE2	PY	-.000448	-.000448	0	0
9	FACE3	PY	-.000448	-.000448	0	0
10	FPLATE1	PY	-.002	-.002	0	0
11	FPLATE2	PY	-.001	-.001	0	0
12	FPLATE3	PY	-.001	-.001	0	0
13	MP ALPHA1	PY	-.000464	-.000464	0	0
14	MP ALPHA2	PY	-.000464	-.000464	0	0
15	MP ALPHA3	PY	-.000464	-.000464	0	0
16	MP BETA1	PY	-.000464	-.000464	0	0
17	MP BETA2	PY	-.000464	-.000464	0	0
18	MP BETA3	PY	-.000464	-.000464	0	0
19	MP GAMMA1	PY	-.000464	-.000464	0	0
20	MP GAMMA2	PY	-.000464	-.000464	0	0
21	MP GAMMA3	PY	-.000464	-.000464	0	0
22	PL1	PY	-.000388	-.000388	0	0
23	PL2	PY	-.000388	-.000388	0	0
24	PL3	PY	-.000388	-.000388	0	0
25	PL4	PY	-.000388	-.000388	0	0
26	PL5	PY	-.000388	-.000388	0	0
27	PL6	PY	-.000388	-.000388	0	0
28	RAIL1	PY	-.000152	-.000152	0	0
29	RAIL2	PY	-.000304	-.000304	0	0
30	RAIL3	PY	-.000304	-.000304	0	0
31	RANGLE1	PY	-.002	-.002	0	0
32	RANGLE2	PY	-.001	-.001	0	0
33	RANGLE3	PY	-.001	-.001	0	0
34	SO1	PY	-.000408	-.000408	0	0
35	SO2	PY	-.000408	-.000408	0	0
36	SO3	PY	-.000408	-.000408	0	0
37	SUPP1	PY	-.000326	-.000326	0	0
38	SUPP2	PY	-.000326	-.000326	0	0
39	SUPP3	PY	-.000326	-.000326	0	0
40	SUPP4	PY	-.000326	-.000326	0	0
41	SUPP5	PY	-.000326	-.000326	0	0
42	SUPP6	PY	-.000326	-.000326	0	0
43	CORNER1	PX	-.000318	-.000318	0	0

Member Distributed Loads (BLC 16 : Maintanence (30)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
44	CORNER2	PX	-.000318	-.000318	0	0
45	CORNER3	PX	-.000318	-.000318	0	0
46	CORNER4	PX	-.000318	-.000318	0	0
47	CORNER5	PX	-.000318	-.000318	0	0
48	CORNER6	PX	-.000318	-.000318	0	0
49	FACE1	PX	-.000129	-.000129	0	0
50	FACE2	PX	-.000258	-.000258	0	0
51	FACE3	PX	-.000258	-.000258	0	0
52	FPLATE1	PX	-.001	-.001	0	0
53	FPLATE2	PX	-.000612	-.000612	0	0
54	FPLATE3	PX	-.000612	-.000612	0	0
55	MP ALPHA1	PX	-.000268	-.000268	0	0
56	MP ALPHA2	PX	-.000268	-.000268	0	0
57	MP ALPHA3	PX	-.000268	-.000268	0	0
58	MP BETA1	PX	-.000268	-.000268	0	0
59	MP BETA2	PX	-.000268	-.000268	0	0
60	MP BETA3	PX	-.000268	-.000268	0	0
61	MP GAMMA1	PX	-.000268	-.000268	0	0
62	MP GAMMA2	PX	-.000268	-.000268	0	0
63	MP GAMMA3	PX	-.000268	-.000268	0	0
64	PL1	PX	-.000224	-.000224	0	0
65	PL2	PX	-.000224	-.000224	0	0
66	PL3	PX	-.000224	-.000224	0	0
67	PL4	PX	-.000224	-.000224	0	0
68	PL5	PX	-.000224	-.000224	0	0
69	PL6	PX	-.000224	-.000224	0	0
70	RAIL1	PX	-8.8e-5	-8.8e-5	0	0
71	RAIL2	PX	-.000175	-.000175	0	0
72	RAIL3	PX	-.000175	-.000175	0	0
73	RANGLE1	PX	-.001	-.001	0	0
74	RANGLE2	PX	-.000622	-.000622	0	0
75	RANGLE3	PX	-.000622	-.000622	0	0
76	SO1	PX	-.000236	-.000236	0	0
77	SO2	PX	-.000236	-.000236	0	0
78	SO3	PX	-.000236	-.000236	0	0
79	SUPP1	PX	-.000188	-.000188	0	0
80	SUPP2	PX	-.000188	-.000188	0	0
81	SUPP3	PX	-.000188	-.000188	0	0
82	SUPP4	PX	-.000188	-.000188	0	0
83	SUPP5	PX	-.000188	-.000188	0	0
84	SUPP6	PX	-.000188	-.000188	0	0

Member Distributed Loads (BLC 17 : Maintanence (60))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.000318	-.000318	0	0
2	CORNER2	PY	-.000318	-.000318	0	0
3	CORNER3	PY	-.000318	-.000318	0	0
4	CORNER4	PY	-.000318	-.000318	0	0
5	CORNER5	PY	-.000318	-.000318	0	0
6	CORNER6	PY	-.000318	-.000318	0	0
7	FACE1	PY	-.000129	-.000129	0	0
8	FACE2	PY	-.000258	-.000258	0	0
9	FACE3	PY	-.000258	-.000258	0	0
10	FPLATE1	PY	-.001	-.001	0	0
11	FPLATE2	PY	-.000612	-.000612	0	0
12	FPLATE3	PY	-.000612	-.000612	0	0

Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
13	MP ALPHA1	PY	-.000268	-.000268	0	0
14	MP ALPHA2	PY	-.000268	-.000268	0	0
15	MP ALPHA3	PY	-.000268	-.000268	0	0
16	MP BETA1	PY	-.000268	-.000268	0	0
17	MP BETA2	PY	-.000268	-.000268	0	0
18	MP BETA3	PY	-.000268	-.000268	0	0
19	MP GAMMA1	PY	-.000268	-.000268	0	0
20	MP GAMMA2	PY	-.000268	-.000268	0	0
21	MP GAMMA3	PY	-.000268	-.000268	0	0
22	PL1	PY	-.000224	-.000224	0	0
23	PL2	PY	-.000224	-.000224	0	0
24	PL3	PY	-.000224	-.000224	0	0
25	PL4	PY	-.000224	-.000224	0	0
26	PL5	PY	-.000224	-.000224	0	0
27	PL6	PY	-.000224	-.000224	0	0
28	RAIL1	PY	-8.8e-5	-8.8e-5	0	0
29	RAIL2	PY	-.000175	-.000175	0	0
30	RAIL3	PY	-.000175	-.000175	0	0
31	RANGLE1	PY	-.001	-.001	0	0
32	RANGLE2	PY	-.000622	-.000622	0	0
33	RANGLE3	PY	-.000622	-.000622	0	0
34	SO1	PY	-.000236	-.000236	0	0
35	SO2	PY	-.000236	-.000236	0	0
36	SO3	PY	-.000236	-.000236	0	0
37	SUPP1	PY	-.000188	-.000188	0	0
38	SUPP2	PY	-.000188	-.000188	0	0
39	SUPP3	PY	-.000188	-.000188	0	0
40	SUPP4	PY	-.000188	-.000188	0	0
41	SUPP5	PY	-.000188	-.000188	0	0
42	SUPP6	PY	-.000188	-.000188	0	0
43	CORNER1	PX	-.000551	-.000551	0	0
44	CORNER2	PX	-.000551	-.000551	0	0
45	CORNER3	PX	-.000551	-.000551	0	0
46	CORNER4	PX	-.000551	-.000551	0	0
47	CORNER5	PX	-.000551	-.000551	0	0
48	CORNER6	PX	-.000551	-.000551	0	0
49	FACE1	PX	-.000224	-.000224	0	0
50	FACE2	PX	-.000448	-.000448	0	0
51	FACE3	PX	-.000448	-.000448	0	0
52	FPLATE1	PX	-.002	-.002	0	0
53	FPLATE2	PX	-.001	-.001	0	0
54	FPLATE3	PX	-.001	-.001	0	0
55	MP ALPHA1	PX	-.000464	-.000464	0	0
56	MP ALPHA2	PX	-.000464	-.000464	0	0
57	MP ALPHA3	PX	-.000464	-.000464	0	0
58	MP BETA1	PX	-.000464	-.000464	0	0
59	MP BETA2	PX	-.000464	-.000464	0	0
60	MP BETA3	PX	-.000464	-.000464	0	0
61	MP GAMMA1	PX	-.000464	-.000464	0	0
62	MP GAMMA2	PX	-.000464	-.000464	0	0
63	MP GAMMA3	PX	-.000464	-.000464	0	0
64	PL1	PX	-.000388	-.000388	0	0
65	PL2	PX	-.000388	-.000388	0	0
66	PL3	PX	-.000388	-.000388	0	0
67	PL4	PX	-.000388	-.000388	0	0
68	PL5	PX	-.000388	-.000388	0	0
69	PL6	PX	-.000388	-.000388	0	0

Member Distributed Loads (BLC 17 : Maintanence (60)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
70	RAIL1	PX	-.000152	-.000152	0	0
71	RAIL2	PX	-.000304	-.000304	0	0
72	RAIL3	PX	-.000304	-.000304	0	0
73	RANGLE1	PX	-.002	-.002	0	0
74	RANGLE2	PX	-.001	-.001	0	0
75	RANGLE3	PX	-.001	-.001	0	0
76	SO1	PX	-.000408	-.000408	0	0
77	SO2	PX	-.000408	-.000408	0	0
78	SO3	PX	-.000408	-.000408	0	0
79	SUPP1	PX	-.000326	-.000326	0	0
80	SUPP2	PX	-.000326	-.000326	0	0
81	SUPP3	PX	-.000326	-.000326	0	0
82	SUPP4	PX	-.000326	-.000326	0	0
83	SUPP5	PX	-.000326	-.000326	0	0
84	SUPP6	PX	-.000326	-.000326	0	0

Member Distributed Loads (BLC 18 : Maintanence (90))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PX	-.000637	-.000637	0	0
2	CORNER2	PX	-.000637	-.000637	0	0
3	CORNER3	PX	-.000637	-.000637	0	0
4	CORNER4	PX	-.000637	-.000637	0	0
5	CORNER5	PX	-.000637	-.000637	0	0
6	CORNER6	PX	-.000637	-.000637	0	0
7	FACE2	PX	-.000258	-.000258	0	0
8	FACE3	PX	-.000517	-.000517	0	0
9	FACE1	PX	-.000517	-.000517	0	0
10	FPLATE2	PX	-.002	-.002	0	0
11	FPLATE3	PX	-.001	-.001	0	0
12	FPLATE1	PX	-.001	-.001	0	0
13	MP ALPHA1	PX	-.000536	-.000536	0	0
14	MP ALPHA2	PX	-.000536	-.000536	0	0
15	MP ALPHA3	PX	-.000536	-.000536	0	0
16	MP BETA1	PX	-.000536	-.000536	0	0
17	MP BETA2	PX	-.000536	-.000536	0	0
18	MP BETA3	PX	-.000536	-.000536	0	0
19	MP GAMMA1	PX	-.000536	-.000536	0	0
20	MP GAMMA2	PX	-.000536	-.000536	0	0
21	MP GAMMA3	PX	-.000536	-.000536	0	0
22	PL1	PX	-.000447	-.000447	0	0
23	PL2	PX	-.000447	-.000447	0	0
24	PL3	PX	-.000447	-.000447	0	0
25	PL4	PX	-.000447	-.000447	0	0
26	PL5	PX	-.000447	-.000447	0	0
27	PL6	PX	-.000447	-.000447	0	0
28	RAIL2	PX	-.000175	-.000175	0	0
29	RAIL3	PX	-.000351	-.000351	0	0
30	RAIL1	PX	-.000351	-.000351	0	0
31	RANGLE2	PX	-.002	-.002	0	0
32	RANGLE3	PX	-.001	-.001	0	0
33	RANGLE1	PX	-.001	-.001	0	0
34	SO1	PX	-.000471	-.000471	0	0
35	SO2	PX	-.000471	-.000471	0	0
36	SO3	PX	-.000471	-.000471	0	0
37	SUPP1	PX	-.000377	-.000377	0	0
38	SUPP2	PX	-.000377	-.000377	0	0

Member Distributed Loads (BLC 18 : Maintanence (90)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
39	SUPP3	PX	-.000377	-.000377	0	0
40	SUPP4	PX	-.000377	-.000377	0	0
41	SUPP5	PX	-.000377	-.000377	0	0
42	SUPP6	PX	-.000377	-.000377	0	0

Member Distributed Loads (BLC 19 : Maintanence (120))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.000318	.000318	0	0
2	CORNER2	PY	.000318	.000318	0	0
3	CORNER3	PY	.000318	.000318	0	0
4	CORNER4	PY	.000318	.000318	0	0
5	CORNER5	PY	.000318	.000318	0	0
6	CORNER6	PY	.000318	.000318	0	0
7	FACE2	PY	.000129	.000129	0	0
8	FACE3	PY	.000258	.000258	0	0
9	FACE1	PY	.000258	.000258	0	0
10	FPLATE2	PY	.001	.001	0	0
11	FPLATE3	PY	.000612	.000612	0	0
12	FPLATE1	PY	.000612	.000612	0	0
13	MP ALPHA1	PY	.000268	.000268	0	0
14	MP ALPHA2	PY	.000268	.000268	0	0
15	MP ALPHA3	PY	.000268	.000268	0	0
16	MP BETA1	PY	.000268	.000268	0	0
17	MP BETA2	PY	.000268	.000268	0	0
18	MP BETA3	PY	.000268	.000268	0	0
19	MP GAMMA1	PY	.000268	.000268	0	0
20	MP GAMMA2	PY	.000268	.000268	0	0
21	MP GAMMA3	PY	.000268	.000268	0	0
22	PL1	PY	.000224	.000224	0	0
23	PL2	PY	.000224	.000224	0	0
24	PL3	PY	.000224	.000224	0	0
25	PL4	PY	.000224	.000224	0	0
26	PL5	PY	.000224	.000224	0	0
27	PL6	PY	.000224	.000224	0	0
28	RAIL2	PY	8.8e-5	8.8e-5	0	0
29	RAIL3	PY	.000175	.000175	0	0
30	RAIL1	PY	.000175	.000175	0	0
31	RANGLE2	PY	.001	.001	0	0
32	RANGLE3	PY	.000622	.000622	0	0
33	RANGLE1	PY	.000622	.000622	0	0
34	SO1	PY	.000236	.000236	0	0
35	SO2	PY	.000236	.000236	0	0
36	SO3	PY	.000236	.000236	0	0
37	SUPP1	PY	.000188	.000188	0	0
38	SUPP2	PY	.000188	.000188	0	0
39	SUPP3	PY	.000188	.000188	0	0
40	SUPP4	PY	.000188	.000188	0	0
41	SUPP5	PY	.000188	.000188	0	0
42	SUPP6	PY	.000188	.000188	0	0
43	CORNER1	PX	-.000551	-.000551	0	0
44	CORNER2	PX	-.000551	-.000551	0	0
45	CORNER3	PX	-.000551	-.000551	0	0
46	CORNER4	PX	-.000551	-.000551	0	0
47	CORNER5	PX	-.000551	-.000551	0	0
48	CORNER6	PX	-.000551	-.000551	0	0
49	FACE2	PX	-.000224	-.000224	0	0

Member Distributed Loads (BLC 19 : Maintanence (120)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
50	FACE3	PX	-.000448	-.000448	0	0
51	FACE1	PX	-.000448	-.000448	0	0
52	FPLATE2	PX	-.002	-.002	0	0
53	FPLATE3	PX	-.001	-.001	0	0
54	FPLATE1	PX	-.001	-.001	0	0
55	MP ALPHA1	PX	-.000464	-.000464	0	0
56	MP ALPHA2	PX	-.000464	-.000464	0	0
57	MP ALPHA3	PX	-.000464	-.000464	0	0
58	MP BETA1	PX	-.000464	-.000464	0	0
59	MP BETA2	PX	-.000464	-.000464	0	0
60	MP BETA3	PX	-.000464	-.000464	0	0
61	MP GAMMA1	PX	-.000464	-.000464	0	0
62	MP GAMMA2	PX	-.000464	-.000464	0	0
63	MP GAMMA3	PX	-.000464	-.000464	0	0
64	PL1	PX	-.000388	-.000388	0	0
65	PL2	PX	-.000388	-.000388	0	0
66	PL3	PX	-.000388	-.000388	0	0
67	PL4	PX	-.000388	-.000388	0	0
68	PL5	PX	-.000388	-.000388	0	0
69	PL6	PX	-.000388	-.000388	0	0
70	RAIL2	PX	-.000152	-.000152	0	0
71	RAIL3	PX	-.000304	-.000304	0	0
72	RAIL1	PX	-.000304	-.000304	0	0
73	RANGLE2	PX	-.002	-.002	0	0
74	RANGLE3	PX	-.001	-.001	0	0
75	RANGLE1	PX	-.001	-.001	0	0
76	SO1	PX	-.000408	-.000408	0	0
77	SO2	PX	-.000408	-.000408	0	0
78	SO3	PX	-.000408	-.000408	0	0
79	SUPP1	PX	-.000326	-.000326	0	0
80	SUPP2	PX	-.000326	-.000326	0	0
81	SUPP3	PX	-.000326	-.000326	0	0
82	SUPP4	PX	-.000326	-.000326	0	0
83	SUPP5	PX	-.000326	-.000326	0	0
84	SUPP6	PX	-.000326	-.000326	0	0

Member Distributed Loads (BLC 20 : Maintanence (150))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.000551	.000551	0	0
2	CORNER2	PY	.000551	.000551	0	0
3	CORNER3	PY	.000551	.000551	0	0
4	CORNER4	PY	.000551	.000551	0	0
5	CORNER5	PY	.000551	.000551	0	0
6	CORNER6	PY	.000551	.000551	0	0
7	FACE2	PY	.000224	.000224	0	0
8	FACE3	PY	.000448	.000448	0	0
9	FACE1	PY	.000448	.000448	0	0
10	FPLATE2	PY	.002	.002	0	0
11	FPLATE3	PY	.001	.001	0	0
12	FPLATE1	PY	.001	.001	0	0
13	MP ALPHA1	PY	.000464	.000464	0	0
14	MP ALPHA2	PY	.000464	.000464	0	0
15	MP ALPHA3	PY	.000464	.000464	0	0
16	MP BETA1	PY	.000464	.000464	0	0
17	MP BETA2	PY	.000464	.000464	0	0
18	MP BETA3	PY	.000464	.000464	0	0

Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
19	MP GAMMA1	PY	.000464	.000464	0	0
20	MP GAMMA2	PY	.000464	.000464	0	0
21	MP GAMMA3	PY	.000464	.000464	0	0
22	PL1	PY	.000388	.000388	0	0
23	PL2	PY	.000388	.000388	0	0
24	PL3	PY	.000388	.000388	0	0
25	PL4	PY	.000388	.000388	0	0
26	PL5	PY	.000388	.000388	0	0
27	PL6	PY	.000388	.000388	0	0
28	RAIL2	PY	.000152	.000152	0	0
29	RAIL3	PY	.000304	.000304	0	0
30	RAIL1	PY	.000304	.000304	0	0
31	RANGLE2	PY	.002	.002	0	0
32	RANGLE3	PY	.001	.001	0	0
33	RANGLE1	PY	.001	.001	0	0
34	SO1	PY	.000408	.000408	0	0
35	SO2	PY	.000408	.000408	0	0
36	SO3	PY	.000408	.000408	0	0
37	SUPP1	PY	.000326	.000326	0	0
38	SUPP2	PY	.000326	.000326	0	0
39	SUPP3	PY	.000326	.000326	0	0
40	SUPP4	PY	.000326	.000326	0	0
41	SUPP5	PY	.000326	.000326	0	0
42	SUPP6	PY	.000326	.000326	0	0
43	CORNER1	PX	-.000318	-.000318	0	0
44	CORNER2	PX	-.000318	-.000318	0	0
45	CORNER3	PX	-.000318	-.000318	0	0
46	CORNER4	PX	-.000318	-.000318	0	0
47	CORNER5	PX	-.000318	-.000318	0	0
48	CORNER6	PX	-.000318	-.000318	0	0
49	FACE2	PX	-.000129	-.000129	0	0
50	FACE3	PX	-.000258	-.000258	0	0
51	FACE1	PX	-.000258	-.000258	0	0
52	FPLATE2	PX	-.001	-.001	0	0
53	FPLATE3	PX	-.000612	-.000612	0	0
54	FPLATE1	PX	-.000612	-.000612	0	0
55	MP ALPHA1	PX	-.000268	-.000268	0	0
56	MP ALPHA2	PX	-.000268	-.000268	0	0
57	MP ALPHA3	PX	-.000268	-.000268	0	0
58	MP BETA1	PX	-.000268	-.000268	0	0
59	MP BETA2	PX	-.000268	-.000268	0	0
60	MP BETA3	PX	-.000268	-.000268	0	0
61	MP GAMMA1	PX	-.000268	-.000268	0	0
62	MP GAMMA2	PX	-.000268	-.000268	0	0
63	MP GAMMA3	PX	-.000268	-.000268	0	0
64	PL1	PX	-.000224	-.000224	0	0
65	PL2	PX	-.000224	-.000224	0	0
66	PL3	PX	-.000224	-.000224	0	0
67	PL4	PX	-.000224	-.000224	0	0
68	PL5	PX	-.000224	-.000224	0	0
69	PL6	PX	-.000224	-.000224	0	0
70	RAIL2	PX	-8.8e-5	-8.8e-5	0	0
71	RAIL3	PX	-.000175	-.000175	0	0
72	RAIL1	PX	-.000175	-.000175	0	0
73	RANGLE2	PX	-.001	-.001	0	0
74	RANGLE3	PX	-.000622	-.000622	0	0
75	RANGLE1	PX	-.000622	-.000622	0	0

Member Distributed Loads (BLC 20 : Maintanence (150)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
76	SO1	PX	-.000236	-.000236	0	0
77	SO2	PX	-.000236	-.000236	0	0
78	SO3	PX	-.000236	-.000236	0	0
79	SUPP1	PX	-.000188	-.000188	0	0
80	SUPP2	PX	-.000188	-.000188	0	0
81	SUPP3	PX	-.000188	-.000188	0	0
82	SUPP4	PX	-.000188	-.000188	0	0
83	SUPP5	PX	-.000188	-.000188	0	0
84	SUPP6	PX	-.000188	-.000188	0	0

Member Distributed Loads (BLC 21 : Maintanence (180))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.000637	.000637	0	0
2	CORNER2	PY	.000637	.000637	0	0
3	CORNER3	PY	.000637	.000637	0	0
4	CORNER4	PY	.000637	.000637	0	0
5	CORNER5	PY	.000637	.000637	0	0
6	CORNER6	PY	.000637	.000637	0	0
7	FACE2	PY	.000258	.000258	0	0
8	FACE3	PY	.000517	.000517	0	0
9	FACE1	PY	.000517	.000517	0	0
10	FPLATE2	PY	.002	.002	0	0
11	FPLATE3	PY	.001	.001	0	0
12	FPLATE1	PY	.001	.001	0	0
13	MP ALPHA1	PY	.000536	.000536	0	0
14	MP ALPHA2	PY	.000536	.000536	0	0
15	MP ALPHA3	PY	.000536	.000536	0	0
16	MP BETA1	PY	.000536	.000536	0	0
17	MP BETA2	PY	.000536	.000536	0	0
18	MP BETA3	PY	.000536	.000536	0	0
19	MP GAMMA1	PY	.000536	.000536	0	0
20	MP GAMMA2	PY	.000536	.000536	0	0
21	MP GAMMA3	PY	.000536	.000536	0	0
22	PL1	PY	.000447	.000447	0	0
23	PL2	PY	.000447	.000447	0	0
24	PL3	PY	.000447	.000447	0	0
25	PL4	PY	.000447	.000447	0	0
26	PL5	PY	.000447	.000447	0	0
27	PL6	PY	.000447	.000447	0	0
28	RAIL2	PY	.000175	.000175	0	0
29	RAIL3	PY	.000351	.000351	0	0
30	RAIL1	PY	.000351	.000351	0	0
31	RANGLE2	PY	.002	.002	0	0
32	RANGLE3	PY	.001	.001	0	0
33	RANGLE1	PY	.001	.001	0	0
34	SO1	PY	.000471	.000471	0	0
35	SO2	PY	.000471	.000471	0	0
36	SO3	PY	.000471	.000471	0	0
37	SUPP1	PY	.000377	.000377	0	0
38	SUPP2	PY	.000377	.000377	0	0
39	SUPP3	PY	.000377	.000377	0	0
40	SUPP4	PY	.000377	.000377	0	0
41	SUPP5	PY	.000377	.000377	0	0
42	SUPP6	PY	.000377	.000377	0	0

Member Distributed Loads (BLC 22 : Maintanence (210))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.000551	.000551	0	0
2	CORNER2	PY	.000551	.000551	0	0
3	CORNER3	PY	.000551	.000551	0	0
4	CORNER4	PY	.000551	.000551	0	0
5	CORNER5	PY	.000551	.000551	0	0
6	CORNER6	PY	.000551	.000551	0	0
7	FACE3	PY	.000224	.000224	0	0
8	FACE1	PY	.000448	.000448	0	0
9	FACE2	PY	.000448	.000448	0	0
10	FPLATE3	PY	.002	.002	0	0
11	FPLATE1	PY	.001	.001	0	0
12	FPLATE2	PY	.001	.001	0	0
13	MP ALPHA1	PY	.000464	.000464	0	0
14	MP ALPHA2	PY	.000464	.000464	0	0
15	MP ALPHA3	PY	.000464	.000464	0	0
16	MP BETA1	PY	.000464	.000464	0	0
17	MP BETA2	PY	.000464	.000464	0	0
18	MP BETA3	PY	.000464	.000464	0	0
19	MP GAMMA1	PY	.000464	.000464	0	0
20	MP GAMMA2	PY	.000464	.000464	0	0
21	MP GAMMA3	PY	.000464	.000464	0	0
22	PL1	PY	.000388	.000388	0	0
23	PL2	PY	.000388	.000388	0	0
24	PL3	PY	.000388	.000388	0	0
25	PL4	PY	.000388	.000388	0	0
26	PL5	PY	.000388	.000388	0	0
27	PL6	PY	.000388	.000388	0	0
28	RAIL3	PY	.000152	.000152	0	0
29	RAIL1	PY	.000304	.000304	0	0
30	RAIL2	PY	.000304	.000304	0	0
31	RANGLE3	PY	.002	.002	0	0
32	RANGLE1	PY	.001	.001	0	0
33	RANGLE2	PY	.001	.001	0	0
34	SO1	PY	.000408	.000408	0	0
35	SO2	PY	.000408	.000408	0	0
36	SO3	PY	.000408	.000408	0	0
37	SUPP1	PY	.000326	.000326	0	0
38	SUPP2	PY	.000326	.000326	0	0
39	SUPP3	PY	.000326	.000326	0	0
40	SUPP4	PY	.000326	.000326	0	0
41	SUPP5	PY	.000326	.000326	0	0
42	SUPP6	PY	.000326	.000326	0	0
43	CORNER1	PX	.000318	.000318	0	0
44	CORNER2	PX	.000318	.000318	0	0
45	CORNER3	PX	.000318	.000318	0	0
46	CORNER4	PX	.000318	.000318	0	0
47	CORNER5	PX	.000318	.000318	0	0
48	CORNER6	PX	.000318	.000318	0	0
49	FACE3	PX	.000129	.000129	0	0
50	FACE1	PX	.000258	.000258	0	0
51	FACE2	PX	.000258	.000258	0	0
52	FPLATE3	PX	.001	.001	0	0
53	FPLATE1	PX	.000612	.000612	0	0
54	FPLATE2	PX	.000612	.000612	0	0
55	MP ALPHA1	PX	.000268	.000268	0	0
56	MP ALPHA2	PX	.000268	.000268	0	0
57	MP ALPHA3	PX	.000268	.000268	0	0

Member Distributed Loads (BLC 22 : Maintanence (210)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
58	MP BETA1	PX	.000268	.000268	0	0
59	MP BETA2	PX	.000268	.000268	0	0
60	MP BETA3	PX	.000268	.000268	0	0
61	MP GAMMA1	PX	.000268	.000268	0	0
62	MP GAMMA2	PX	.000268	.000268	0	0
63	MP GAMMA3	PX	.000268	.000268	0	0
64	PL1	PX	.000224	.000224	0	0
65	PL2	PX	.000224	.000224	0	0
66	PL3	PX	.000224	.000224	0	0
67	PL4	PX	.000224	.000224	0	0
68	PL5	PX	.000224	.000224	0	0
69	PL6	PX	.000224	.000224	0	0
70	RAIL3	PX	8.8e-5	8.8e-5	0	0
71	RAIL1	PX	.000175	.000175	0	0
72	RAIL2	PX	.000175	.000175	0	0
73	RANGLE3	PX	.001	.001	0	0
74	RANGLE1	PX	.000622	.000622	0	0
75	RANGLE2	PX	.000622	.000622	0	0
76	SO1	PX	.000236	.000236	0	0
77	SO2	PX	.000236	.000236	0	0
78	SO3	PX	.000236	.000236	0	0
79	SUPP1	PX	.000188	.000188	0	0
80	SUPP2	PX	.000188	.000188	0	0
81	SUPP3	PX	.000188	.000188	0	0
82	SUPP4	PX	.000188	.000188	0	0
83	SUPP5	PX	.000188	.000188	0	0
84	SUPP6	PX	.000188	.000188	0	0

Member Distributed Loads (BLC 23 : Maintanence (240))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.000318	.000318	0	0
2	CORNER2	PY	.000318	.000318	0	0
3	CORNER3	PY	.000318	.000318	0	0
4	CORNER4	PY	.000318	.000318	0	0
5	CORNER5	PY	.000318	.000318	0	0
6	CORNER6	PY	.000318	.000318	0	0
7	FACE3	PY	.000129	.000129	0	0
8	FACE1	PY	.000258	.000258	0	0
9	FACE2	PY	.000258	.000258	0	0
10	FPLATE3	PY	.001	.001	0	0
11	FPLATE1	PY	.000612	.000612	0	0
12	FPLATE2	PY	.000612	.000612	0	0
13	MP ALPHA1	PY	.000268	.000268	0	0
14	MP ALPHA2	PY	.000268	.000268	0	0
15	MP ALPHA3	PY	.000268	.000268	0	0
16	MP BETA1	PY	.000268	.000268	0	0
17	MP BETA2	PY	.000268	.000268	0	0
18	MP BETA3	PY	.000268	.000268	0	0
19	MP GAMMA1	PY	.000268	.000268	0	0
20	MP GAMMA2	PY	.000268	.000268	0	0
21	MP GAMMA3	PY	.000268	.000268	0	0
22	PL1	PY	.000224	.000224	0	0
23	PL2	PY	.000224	.000224	0	0
24	PL3	PY	.000224	.000224	0	0
25	PL4	PY	.000224	.000224	0	0
26	PL5	PY	.000224	.000224	0	0

Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
27	PL6	PY	.000224	.000224	0	0
28	RAIL3	PY	8.8e-5	8.8e-5	0	0
29	RAIL1	PY	.000175	.000175	0	0
30	RAIL2	PY	.000175	.000175	0	0
31	RANGLE3	PY	.001	.001	0	0
32	RANGLE1	PY	.000622	.000622	0	0
33	RANGLE2	PY	.000622	.000622	0	0
34	SO1	PY	.000236	.000236	0	0
35	SO2	PY	.000236	.000236	0	0
36	SO3	PY	.000236	.000236	0	0
37	SUPP1	PY	.000188	.000188	0	0
38	SUPP2	PY	.000188	.000188	0	0
39	SUPP3	PY	.000188	.000188	0	0
40	SUPP4	PY	.000188	.000188	0	0
41	SUPP5	PY	.000188	.000188	0	0
42	SUPP6	PY	.000188	.000188	0	0
43	CORNER1	PX	.000551	.000551	0	0
44	CORNER2	PX	.000551	.000551	0	0
45	CORNER3	PX	.000551	.000551	0	0
46	CORNER4	PX	.000551	.000551	0	0
47	CORNER5	PX	.000551	.000551	0	0
48	CORNER6	PX	.000551	.000551	0	0
49	FACE3	PX	.000224	.000224	0	0
50	FACE1	PX	.000448	.000448	0	0
51	FACE2	PX	.000448	.000448	0	0
52	FPLATE3	PX	.002	.002	0	0
53	FPLATE1	PX	.001	.001	0	0
54	FPLATE2	PX	.001	.001	0	0
55	MP ALPHA1	PX	.000464	.000464	0	0
56	MP ALPHA2	PX	.000464	.000464	0	0
57	MP ALPHA3	PX	.000464	.000464	0	0
58	MP BETA1	PX	.000464	.000464	0	0
59	MP BETA2	PX	.000464	.000464	0	0
60	MP BETA3	PX	.000464	.000464	0	0
61	MP GAMMA1	PX	.000464	.000464	0	0
62	MP GAMMA2	PX	.000464	.000464	0	0
63	MP GAMMA3	PX	.000464	.000464	0	0
64	PL1	PX	.000388	.000388	0	0
65	PL2	PX	.000388	.000388	0	0
66	PL3	PX	.000388	.000388	0	0
67	PL4	PX	.000388	.000388	0	0
68	PL5	PX	.000388	.000388	0	0
69	PL6	PX	.000388	.000388	0	0
70	RAIL3	PX	.000152	.000152	0	0
71	RAIL1	PX	.000304	.000304	0	0
72	RAIL2	PX	.000304	.000304	0	0
73	RANGLE3	PX	.002	.002	0	0
74	RANGLE1	PX	.001	.001	0	0
75	RANGLE2	PX	.001	.001	0	0
76	SO1	PX	.000408	.000408	0	0
77	SO2	PX	.000408	.000408	0	0
78	SO3	PX	.000408	.000408	0	0
79	SUPP1	PX	.000326	.000326	0	0
80	SUPP2	PX	.000326	.000326	0	0
81	SUPP3	PX	.000326	.000326	0	0
82	SUPP4	PX	.000326	.000326	0	0
83	SUPP5	PX	.000326	.000326	0	0

Member Distributed Loads (BLC 23 : Maintanence (240)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
84	SUPP6	PX	.000326	.000326	0	0

Member Distributed Loads (BLC 24 : Maintanence (270))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PX	.000637	.000637	0	0
2	CORNER2	PX	.000637	.000637	0	0
3	CORNER3	PX	.000637	.000637	0	0
4	CORNER4	PX	.000637	.000637	0	0
5	CORNER5	PX	.000637	.000637	0	0
6	CORNER6	PX	.000637	.000637	0	0
7	FACE3	PX	.000258	.000258	0	0
8	FACE1	PX	.000517	.000517	0	0
9	FACE2	PX	.000517	.000517	0	0
10	FPLATE3	PX	.002	.002	0	0
11	FPLATE1	PX	.001	.001	0	0
12	FPLATE2	PX	.001	.001	0	0
13	MP ALPHA1	PX	.000536	.000536	0	0
14	MP ALPHA2	PX	.000536	.000536	0	0
15	MP ALPHA3	PX	.000536	.000536	0	0
16	MP BETA1	PX	.000536	.000536	0	0
17	MP BETA2	PX	.000536	.000536	0	0
18	MP BETA3	PX	.000536	.000536	0	0
19	MP GAMMA1	PX	.000536	.000536	0	0
20	MP GAMMA2	PX	.000536	.000536	0	0
21	MP GAMMA3	PX	.000536	.000536	0	0
22	PL1	PX	.000447	.000447	0	0
23	PL2	PX	.000447	.000447	0	0
24	PL3	PX	.000447	.000447	0	0
25	PL4	PX	.000447	.000447	0	0
26	PL5	PX	.000447	.000447	0	0
27	PL6	PX	.000447	.000447	0	0
28	RAIL3	PX	.000175	.000175	0	0
29	RAIL1	PX	.000351	.000351	0	0
30	RAIL2	PX	.000351	.000351	0	0
31	RANGLE3	PX	.002	.002	0	0
32	RANGLE1	PX	.001	.001	0	0
33	RANGLE2	PX	.001	.001	0	0
34	SO1	PX	.000471	.000471	0	0
35	SO2	PX	.000471	.000471	0	0
36	SO3	PX	.000471	.000471	0	0
37	SUPP1	PX	.000377	.000377	0	0
38	SUPP2	PX	.000377	.000377	0	0
39	SUPP3	PX	.000377	.000377	0	0
40	SUPP4	PX	.000377	.000377	0	0
41	SUPP5	PX	.000377	.000377	0	0
42	SUPP6	PX	.000377	.000377	0	0

Member Distributed Loads (BLC 25 : Maintanence (300))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.000318	-.000318	0	0
2	CORNER2	PY	-.000318	-.000318	0	0
3	CORNER3	PY	-.000318	-.000318	0	0
4	CORNER4	PY	-.000318	-.000318	0	0
5	CORNER5	PY	-.000318	-.000318	0	0
6	CORNER6	PY	-.000318	-.000318	0	0
7	FACE3	PY	-.000129	-.000129	0	0

Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
8	FACE1	PY	-.000258	-.000258	0	0
9	FACE2	PY	-.000258	-.000258	0	0
10	FPLATE3	PY	-.001	-.001	0	0
11	FPLATE1	PY	-.000612	-.000612	0	0
12	FPLATE2	PY	-.000612	-.000612	0	0
13	MP ALPHA1	PY	-.000268	-.000268	0	0
14	MP ALPHA2	PY	-.000268	-.000268	0	0
15	MP ALPHA3	PY	-.000268	-.000268	0	0
16	MP BETA1	PY	-.000268	-.000268	0	0
17	MP BETA2	PY	-.000268	-.000268	0	0
18	MP BETA3	PY	-.000268	-.000268	0	0
19	MP GAMMA1	PY	-.000268	-.000268	0	0
20	MP GAMMA2	PY	-.000268	-.000268	0	0
21	MP GAMMA3	PY	-.000268	-.000268	0	0
22	PL1	PY	-.000224	-.000224	0	0
23	PL2	PY	-.000224	-.000224	0	0
24	PL3	PY	-.000224	-.000224	0	0
25	PL4	PY	-.000224	-.000224	0	0
26	PL5	PY	-.000224	-.000224	0	0
27	PL6	PY	-.000224	-.000224	0	0
28	RAIL3	PY	-8.8e-5	-8.8e-5	0	0
29	RAIL1	PY	-.000175	-.000175	0	0
30	RAIL2	PY	-.000175	-.000175	0	0
31	RANGLE3	PY	-.001	-.001	0	0
32	RANGLE1	PY	-.000622	-.000622	0	0
33	RANGLE2	PY	-.000622	-.000622	0	0
34	SO1	PY	-.000236	-.000236	0	0
35	SO2	PY	-.000236	-.000236	0	0
36	SO3	PY	-.000236	-.000236	0	0
37	SUPP1	PY	-.000188	-.000188	0	0
38	SUPP2	PY	-.000188	-.000188	0	0
39	SUPP3	PY	-.000188	-.000188	0	0
40	SUPP4	PY	-.000188	-.000188	0	0
41	SUPP5	PY	-.000188	-.000188	0	0
42	SUPP6	PY	-.000188	-.000188	0	0
43	CORNER1	PX	.000551	.000551	0	0
44	CORNER2	PX	.000551	.000551	0	0
45	CORNER3	PX	.000551	.000551	0	0
46	CORNER4	PX	.000551	.000551	0	0
47	CORNER5	PX	.000551	.000551	0	0
48	CORNER6	PX	.000551	.000551	0	0
49	FACE3	PX	.000224	.000224	0	0
50	FACE1	PX	.000448	.000448	0	0
51	FACE2	PX	.000448	.000448	0	0
52	FPLATE3	PX	.002	.002	0	0
53	FPLATE1	PX	.001	.001	0	0
54	FPLATE2	PX	.001	.001	0	0
55	MP ALPHA1	PX	.000464	.000464	0	0
56	MP ALPHA2	PX	.000464	.000464	0	0
57	MP ALPHA3	PX	.000464	.000464	0	0
58	MP BETA1	PX	.000464	.000464	0	0
59	MP BETA2	PX	.000464	.000464	0	0
60	MP BETA3	PX	.000464	.000464	0	0
61	MP GAMMA1	PX	.000464	.000464	0	0
62	MP GAMMA2	PX	.000464	.000464	0	0
63	MP GAMMA3	PX	.000464	.000464	0	0
64	PL1	PX	.000388	.000388	0	0

Member Distributed Loads (BLC 25 : Maintanence (300)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
65	PL2	PX	.000388	.000388	0	0
66	PL3	PX	.000388	.000388	0	0
67	PL4	PX	.000388	.000388	0	0
68	PL5	PX	.000388	.000388	0	0
69	PL6	PX	.000388	.000388	0	0
70	RAIL3	PX	.000152	.000152	0	0
71	RAIL1	PX	.000304	.000304	0	0
72	RAIL2	PX	.000304	.000304	0	0
73	RANGLE3	PX	.002	.002	0	0
74	RANGLE1	PX	.001	.001	0	0
75	RANGLE2	PX	.001	.001	0	0
76	SO1	PX	.000408	.000408	0	0
77	SO2	PX	.000408	.000408	0	0
78	SO3	PX	.000408	.000408	0	0
79	SUPP1	PX	.000326	.000326	0	0
80	SUPP2	PX	.000326	.000326	0	0
81	SUPP3	PX	.000326	.000326	0	0
82	SUPP4	PX	.000326	.000326	0	0
83	SUPP5	PX	.000326	.000326	0	0
84	SUPP6	PX	.000326	.000326	0	0

Member Distributed Loads (BLC 26 : Maintanence (330))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.000551	-.000551	0	0
2	CORNER2	PY	-.000551	-.000551	0	0
3	CORNER3	PY	-.000551	-.000551	0	0
4	CORNER4	PY	-.000551	-.000551	0	0
5	CORNER5	PY	-.000551	-.000551	0	0
6	CORNER6	PY	-.000551	-.000551	0	0
7	FACE1	PY	-.000224	-.000224	0	0
8	FACE2	PY	-.000448	-.000448	0	0
9	FACE3	PY	-.000448	-.000448	0	0
10	FPLATE1	PY	-.002	-.002	0	0
11	FPLATE2	PY	-.001	-.001	0	0
12	FPLATE3	PY	-.001	-.001	0	0
13	MP ALPHA1	PY	-.000464	-.000464	0	0
14	MP ALPHA2	PY	-.000464	-.000464	0	0
15	MP ALPHA3	PY	-.000464	-.000464	0	0
16	MP BETA1	PY	-.000464	-.000464	0	0
17	MP BETA2	PY	-.000464	-.000464	0	0
18	MP BETA3	PY	-.000464	-.000464	0	0
19	MP GAMMA1	PY	-.000464	-.000464	0	0
20	MP GAMMA2	PY	-.000464	-.000464	0	0
21	MP GAMMA3	PY	-.000464	-.000464	0	0
22	PL1	PY	-.000388	-.000388	0	0
23	PL2	PY	-.000388	-.000388	0	0
24	PL3	PY	-.000388	-.000388	0	0
25	PL4	PY	-.000388	-.000388	0	0
26	PL5	PY	-.000388	-.000388	0	0
27	PL6	PY	-.000388	-.000388	0	0
28	RAIL1	PY	-.000152	-.000152	0	0
29	RAIL2	PY	-.000304	-.000304	0	0
30	RAIL3	PY	-.000304	-.000304	0	0
31	RANGLE1	PY	-.002	-.002	0	0
32	RANGLE2	PY	-.001	-.001	0	0
33	RANGLE3	PY	-.001	-.001	0	0

Member Distributed Loads (BLC 26 : Maintanence (330)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
34	SO1	PY	-.000408	-.000408	0	0
35	SO2	PY	-.000408	-.000408	0	0
36	SO3	PY	-.000408	-.000408	0	0
37	SUPP1	PY	-.000326	-.000326	0	0
38	SUPP2	PY	-.000326	-.000326	0	0
39	SUPP3	PY	-.000326	-.000326	0	0
40	SUPP4	PY	-.000326	-.000326	0	0
41	SUPP5	PY	-.000326	-.000326	0	0
42	SUPP6	PY	-.000326	-.000326	0	0
43	CORNER1	PX	.000318	.000318	0	0
44	CORNER2	PX	.000318	.000318	0	0
45	CORNER3	PX	.000318	.000318	0	0
46	CORNER4	PX	.000318	.000318	0	0
47	CORNER5	PX	.000318	.000318	0	0
48	CORNER6	PX	.000318	.000318	0	0
49	FACE1	PX	.000129	.000129	0	0
50	FACE2	PX	.000258	.000258	0	0
51	FACE3	PX	.000258	.000258	0	0
52	FPLATE1	PX	.001	.001	0	0
53	FPLATE2	PX	.000612	.000612	0	0
54	FPLATE3	PX	.000612	.000612	0	0
55	MP ALPHA1	PX	.000268	.000268	0	0
56	MP ALPHA2	PX	.000268	.000268	0	0
57	MP ALPHA3	PX	.000268	.000268	0	0
58	MP BETA1	PX	.000268	.000268	0	0
59	MP BETA2	PX	.000268	.000268	0	0
60	MP BETA3	PX	.000268	.000268	0	0
61	MP GAMMA1	PX	.000268	.000268	0	0
62	MP GAMMA2	PX	.000268	.000268	0	0
63	MP GAMMA3	PX	.000268	.000268	0	0
64	PL1	PX	.000224	.000224	0	0
65	PL2	PX	.000224	.000224	0	0
66	PL3	PX	.000224	.000224	0	0
67	PL4	PX	.000224	.000224	0	0
68	PL5	PX	.000224	.000224	0	0
69	PL6	PX	.000224	.000224	0	0
70	RAIL1	PX	8.8e-5	8.8e-5	0	0
71	RAIL2	PX	.000175	.000175	0	0
72	RAIL3	PX	.000175	.000175	0	0
73	RANGLE1	PX	.001	.001	0	0
74	RANGLE2	PX	.000622	.000622	0	0
75	RANGLE3	PX	.000622	.000622	0	0
76	SO1	PX	.000236	.000236	0	0
77	SO2	PX	.000236	.000236	0	0
78	SO3	PX	.000236	.000236	0	0
79	SUPP1	PX	.000188	.000188	0	0
80	SUPP2	PX	.000188	.000188	0	0
81	SUPP3	PX	.000188	.000188	0	0
82	SUPP4	PX	.000188	.000188	0	0
83	SUPP5	PX	.000188	.000188	0	0
84	SUPP6	PX	.000188	.000188	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	Z	-.016	-.016	0	0
2	CORNER2	Z	-.016	-.016	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
3	CORNER3	Z	-.016	-.016	0	0
4	CORNER4	Z	-.016	-.016	0	0
5	CORNER5	Z	-.016	-.016	0	0
6	CORNER6	Z	-.016	-.016	0	0
7	FACE1	Z	-.011	-.011	0	0
8	FACE2	Z	-.011	-.011	0	0
9	FACE3	Z	-.011	-.011	0	0
10	FPLATE1	Z	-.014	-.014	0	0
11	FPLATE2	Z	-.014	-.014	0	0
12	FPLATE3	Z	-.014	-.014	0	0
13	MP ALPHA1	Z	-.009	-.009	0	0
14	MP ALPHA2	Z	-.009	-.009	0	0
15	MP ALPHA3	Z	-.009	-.009	0	0
16	MP BETA1	Z	-.009	-.009	0	0
17	MP BETA2	Z	-.009	-.009	0	0
18	MP BETA3	Z	-.009	-.009	0	0
19	MP GAMMA1	Z	-.009	-.009	0	0
20	MP GAMMA2	Z	-.009	-.009	0	0
21	MP GAMMA3	Z	-.009	-.009	0	0
22	PL1	Z	-.009	-.009	0	0
23	PL2	Z	-.009	-.009	0	0
24	PL3	Z	-.009	-.009	0	0
25	PL4	Z	-.009	-.009	0	0
26	PL5	Z	-.009	-.009	0	0
27	PL6	Z	-.009	-.009	0	0
28	RAIL1	Z	-.009	-.009	0	0
29	RAIL2	Z	-.009	-.009	0	0
30	RAIL3	Z	-.009	-.009	0	0
31	RANGLE1	Z	-.023	-.023	0	0
32	RANGLE2	Z	-.023	-.023	0	0
33	RANGLE3	Z	-.023	-.023	0	0
34	SO1	Z	-.016	-.016	0	0
35	SO2	Z	-.016	-.016	0	0
36	SO3	Z	-.016	-.016	0	0
37	SUPP1	Z	-.01	-.01	0	0
38	SUPP2	Z	-.01	-.01	0	0
39	SUPP3	Z	-.01	-.01	0	0
40	SUPP4	Z	-.01	-.01	0	0
41	SUPP5	Z	-.01	-.01	0	0
42	SUPP6	Z	-.01	-.01	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.003	-.003	0	0
2	CORNER2	PY	-.003	-.003	0	0
3	CORNER3	PY	-.003	-.003	0	0
4	CORNER4	PY	-.003	-.003	0	0
5	CORNER5	PY	-.003	-.003	0	0
6	CORNER6	PY	-.003	-.003	0	0
7	FACE1	PY	-.002	-.002	0	0
8	FACE2	PY	-.004	-.004	0	0
9	FACE3	PY	-.004	-.004	0	0
10	FPLATE1	PY	-.009	-.009	0	0
11	FPLATE2	PY	-.005	-.005	0	0
12	FPLATE3	PY	-.005	-.005	0	0
13	MP ALPHA1	PY	-.003	-.003	0	0

Member Distributed Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
14	MP ALPHA2	PY	-.003	-.003	0	0
15	MP ALPHA3	PY	-.003	-.003	0	0
16	MP BETA1	PY	-.003	-.003	0	0
17	MP BETA2	PY	-.003	-.003	0	0
18	MP BETA3	PY	-.003	-.003	0	0
19	MP GAMMA1	PY	-.003	-.003	0	0
20	MP GAMMA2	PY	-.003	-.003	0	0
21	MP GAMMA3	PY	-.003	-.003	0	0
22	PL1	PY	-.003	-.003	0	0
23	PL2	PY	-.003	-.003	0	0
24	PL3	PY	-.003	-.003	0	0
25	PL4	PY	-.003	-.003	0	0
26	PL5	PY	-.003	-.003	0	0
27	PL6	PY	-.003	-.003	0	0
28	RAIL1	PY	-.002	-.002	0	0
29	RAIL2	PY	-.003	-.003	0	0
30	RAIL3	PY	-.003	-.003	0	0
31	RANGLE1	PY	-.009	-.009	0	0
32	RANGLE2	PY	-.005	-.005	0	0
33	RANGLE3	PY	-.005	-.005	0	0
34	SO1	PY	-.002	-.002	0	0
35	SO2	PY	-.002	-.002	0	0
36	SO3	PY	-.002	-.002	0	0
37	SUPP1	PY	-.002	-.002	0	0
38	SUPP2	PY	-.002	-.002	0	0
39	SUPP3	PY	-.002	-.002	0	0
40	SUPP4	PY	-.002	-.002	0	0
41	SUPP5	PY	-.002	-.002	0	0
42	SUPP6	PY	-.002	-.002	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.003	-.003	0	0
2	CORNER2	PY	-.003	-.003	0	0
3	CORNER3	PY	-.003	-.003	0	0
4	CORNER4	PY	-.003	-.003	0	0
5	CORNER5	PY	-.003	-.003	0	0
6	CORNER6	PY	-.003	-.003	0	0
7	FACE1	PY	-.002	-.002	0	0
8	FACE2	PY	-.003	-.003	0	0
9	FACE3	PY	-.003	-.003	0	0
10	FPLATE1	PY	-.008	-.008	0	0
11	FPLATE2	PY	-.004	-.004	0	0
12	FPLATE3	PY	-.004	-.004	0	0
13	MP ALPHA1	PY	-.003	-.003	0	0
14	MP ALPHA2	PY	-.003	-.003	0	0
15	MP ALPHA3	PY	-.003	-.003	0	0
16	MP BETA1	PY	-.003	-.003	0	0
17	MP BETA2	PY	-.003	-.003	0	0
18	MP BETA3	PY	-.003	-.003	0	0
19	MP GAMMA1	PY	-.003	-.003	0	0
20	MP GAMMA2	PY	-.003	-.003	0	0
21	MP GAMMA3	PY	-.003	-.003	0	0
22	PL1	PY	-.002	-.002	0	0
23	PL2	PY	-.002	-.002	0	0
24	PL3	PY	-.002	-.002	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
25	PL4	PY	-.002	-.002	0	0
26	PL5	PY	-.002	-.002	0	0
27	PL6	PY	-.002	-.002	0	0
28	RAIL1	PY	-.001	-.001	0	0
29	RAIL2	PY	-.003	-.003	0	0
30	RAIL3	PY	-.003	-.003	0	0
31	RANGLE1	PY	-.008	-.008	0	0
32	RANGLE2	PY	-.004	-.004	0	0
33	RANGLE3	PY	-.004	-.004	0	0
34	SO1	PY	-.002	-.002	0	0
35	SO2	PY	-.002	-.002	0	0
36	SO3	PY	-.002	-.002	0	0
37	SUPP1	PY	-.002	-.002	0	0
38	SUPP2	PY	-.002	-.002	0	0
39	SUPP3	PY	-.002	-.002	0	0
40	SUPP4	PY	-.002	-.002	0	0
41	SUPP5	PY	-.002	-.002	0	0
42	SUPP6	PY	-.002	-.002	0	0
43	CORNER1	PX	-.002	-.002	0	0
44	CORNER2	PX	-.002	-.002	0	0
45	CORNER3	PX	-.002	-.002	0	0
46	CORNER4	PX	-.002	-.002	0	0
47	CORNER5	PX	-.002	-.002	0	0
48	CORNER6	PX	-.002	-.002	0	0
49	FACE1	PX	-.000953	-.000953	0	0
50	FACE2	PX	-.002	-.002	0	0
51	FACE3	PX	-.002	-.002	0	0
52	FPLATE1	PX	-.005	-.005	0	0
53	FPLATE2	PX	-.002	-.002	0	0
54	FPLATE3	PX	-.002	-.002	0	0
55	MP ALPHA1	PX	-.002	-.002	0	0
56	MP ALPHA2	PX	-.002	-.002	0	0
57	MP ALPHA3	PX	-.002	-.002	0	0
58	MP BETA1	PX	-.002	-.002	0	0
59	MP BETA2	PX	-.002	-.002	0	0
60	MP BETA3	PX	-.002	-.002	0	0
61	MP GAMMA1	PX	-.002	-.002	0	0
62	MP GAMMA2	PX	-.002	-.002	0	0
63	MP GAMMA3	PX	-.002	-.002	0	0
64	PL1	PX	-.001	-.001	0	0
65	PL2	PX	-.001	-.001	0	0
66	PL3	PX	-.001	-.001	0	0
67	PL4	PX	-.001	-.001	0	0
68	PL5	PX	-.001	-.001	0	0
69	PL6	PX	-.001	-.001	0	0
70	RAIL1	PX	-.0008	-.0008	0	0
71	RAIL2	PX	-.002	-.002	0	0
72	RAIL3	PX	-.002	-.002	0	0
73	RANGLE1	PX	-.005	-.005	0	0
74	RANGLE2	PX	-.002	-.002	0	0
75	RANGLE3	PX	-.002	-.002	0	0
76	SO1	PX	-.001	-.001	0	0
77	SO2	PX	-.001	-.001	0	0
78	SO3	PX	-.001	-.001	0	0
79	SUPP1	PX	-.001	-.001	0	0
80	SUPP2	PX	-.001	-.001	0	0
81	SUPP3	PX	-.001	-.001	0	0

Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
82	SUPP4	PX	-.001	-.001	0	0
83	SUPP5	PX	-.001	-.001	0	0
84	SUPP6	PX	-.001	-.001	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.002	-.002	0	0
2	CORNER2	PY	-.002	-.002	0	0
3	CORNER3	PY	-.002	-.002	0	0
4	CORNER4	PY	-.002	-.002	0	0
5	CORNER5	PY	-.002	-.002	0	0
6	CORNER6	PY	-.002	-.002	0	0
7	FACE1	PY	-.000953	-.000953	0	0
8	FACE2	PY	-.002	-.002	0	0
9	FACE3	PY	-.002	-.002	0	0
10	FPLATE1	PY	-.005	-.005	0	0
11	FPLATE2	PY	-.002	-.002	0	0
12	FPLATE3	PY	-.002	-.002	0	0
13	MP ALPHA1	PY	-.002	-.002	0	0
14	MP ALPHA2	PY	-.002	-.002	0	0
15	MP ALPHA3	PY	-.002	-.002	0	0
16	MP BETA1	PY	-.002	-.002	0	0
17	MP BETA2	PY	-.002	-.002	0	0
18	MP BETA3	PY	-.002	-.002	0	0
19	MP GAMMA1	PY	-.002	-.002	0	0
20	MP GAMMA2	PY	-.002	-.002	0	0
21	MP GAMMA3	PY	-.002	-.002	0	0
22	PL1	PY	-.001	-.001	0	0
23	PL2	PY	-.001	-.001	0	0
24	PL3	PY	-.001	-.001	0	0
25	PL4	PY	-.001	-.001	0	0
26	PL5	PY	-.001	-.001	0	0
27	PL6	PY	-.001	-.001	0	0
28	RAIL1	PY	-.0008	-.0008	0	0
29	RAIL2	PY	-.002	-.002	0	0
30	RAIL3	PY	-.002	-.002	0	0
31	RANGLE1	PY	-.005	-.005	0	0
32	RANGLE2	PY	-.002	-.002	0	0
33	RANGLE3	PY	-.002	-.002	0	0
34	SO1	PY	-.001	-.001	0	0
35	SO2	PY	-.001	-.001	0	0
36	SO3	PY	-.001	-.001	0	0
37	SUPP1	PY	-.001	-.001	0	0
38	SUPP2	PY	-.001	-.001	0	0
39	SUPP3	PY	-.001	-.001	0	0
40	SUPP4	PY	-.001	-.001	0	0
41	SUPP5	PY	-.001	-.001	0	0
42	SUPP6	PY	-.001	-.001	0	0
43	CORNER1	PX	-.003	-.003	0	0
44	CORNER2	PX	-.003	-.003	0	0
45	CORNER3	PX	-.003	-.003	0	0
46	CORNER4	PX	-.003	-.003	0	0
47	CORNER5	PX	-.003	-.003	0	0
48	CORNER6	PX	-.003	-.003	0	0
49	FACE1	PX	-.002	-.002	0	0
50	FACE2	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
51	FACE3	PX	-.003	-.003	0	0
52	FPLATE1	PX	-.008	-.008	0	0
53	FPLATE2	PX	-.004	-.004	0	0
54	FPLATE3	PX	-.004	-.004	0	0
55	MP ALPHA1	PX	-.003	-.003	0	0
56	MP ALPHA2	PX	-.003	-.003	0	0
57	MP ALPHA3	PX	-.003	-.003	0	0
58	MP BETA1	PX	-.003	-.003	0	0
59	MP BETA2	PX	-.003	-.003	0	0
60	MP BETA3	PX	-.003	-.003	0	0
61	MP GAMMA1	PX	-.003	-.003	0	0
62	MP GAMMA2	PX	-.003	-.003	0	0
63	MP GAMMA3	PX	-.003	-.003	0	0
64	PL1	PX	-.002	-.002	0	0
65	PL2	PX	-.002	-.002	0	0
66	PL3	PX	-.002	-.002	0	0
67	PL4	PX	-.002	-.002	0	0
68	PL5	PX	-.002	-.002	0	0
69	PL6	PX	-.002	-.002	0	0
70	RAIL1	PX	-.001	-.001	0	0
71	RAIL2	PX	-.003	-.003	0	0
72	RAIL3	PX	-.003	-.003	0	0
73	RANGLE1	PX	-.008	-.008	0	0
74	RANGLE2	PX	-.004	-.004	0	0
75	RANGLE3	PX	-.004	-.004	0	0
76	SO1	PX	-.002	-.002	0	0
77	SO2	PX	-.002	-.002	0	0
78	SO3	PX	-.002	-.002	0	0
79	SUPP1	PX	-.002	-.002	0	0
80	SUPP2	PX	-.002	-.002	0	0
81	SUPP3	PX	-.002	-.002	0	0
82	SUPP4	PX	-.002	-.002	0	0
83	SUPP5	PX	-.002	-.002	0	0
84	SUPP6	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 31 : Ice Wind Load (90))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PX	-.003	-.003	0	0
2	CORNER2	PX	-.003	-.003	0	0
3	CORNER3	PX	-.003	-.003	0	0
4	CORNER4	PX	-.003	-.003	0	0
5	CORNER5	PX	-.003	-.003	0	0
6	CORNER6	PX	-.003	-.003	0	0
7	FACE2	PX	-.002	-.002	0	0
8	FACE3	PX	-.004	-.004	0	0
9	FACE1	PX	-.004	-.004	0	0
10	FPLATE2	PX	-.009	-.009	0	0
11	FPLATE3	PX	-.005	-.005	0	0
12	FPLATE1	PX	-.005	-.005	0	0
13	MP ALPHA1	PX	-.003	-.003	0	0
14	MP ALPHA2	PX	-.003	-.003	0	0
15	MP ALPHA3	PX	-.003	-.003	0	0
16	MP BETA1	PX	-.003	-.003	0	0
17	MP BETA2	PX	-.003	-.003	0	0
18	MP BETA3	PX	-.003	-.003	0	0
19	MP GAMMA1	PX	-.003	-.003	0	0

Member Distributed Loads (BLC 31 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
20	MP GAMMA2	PX	-.003	-.003	0	0
21	MP GAMMA3	PX	-.003	-.003	0	0
22	PL1	PX	-.003	-.003	0	0
23	PL2	PX	-.003	-.003	0	0
24	PL3	PX	-.003	-.003	0	0
25	PL4	PX	-.003	-.003	0	0
26	PL5	PX	-.003	-.003	0	0
27	PL6	PX	-.003	-.003	0	0
28	RAIL2	PX	-.002	-.002	0	0
29	RAIL3	PX	-.003	-.003	0	0
30	RAIL1	PX	-.003	-.003	0	0
31	RANGLE2	PX	-.009	-.009	0	0
32	RANGLE3	PX	-.005	-.005	0	0
33	RANGLE1	PX	-.005	-.005	0	0
34	SO1	PX	-.002	-.002	0	0
35	SO2	PX	-.002	-.002	0	0
36	SO3	PX	-.002	-.002	0	0
37	SUPP1	PX	-.002	-.002	0	0
38	SUPP2	PX	-.002	-.002	0	0
39	SUPP3	PX	-.002	-.002	0	0
40	SUPP4	PX	-.002	-.002	0	0
41	SUPP5	PX	-.002	-.002	0	0
42	SUPP6	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.002	.002	0	0
2	CORNER2	PY	.002	.002	0	0
3	CORNER3	PY	.002	.002	0	0
4	CORNER4	PY	.002	.002	0	0
5	CORNER5	PY	.002	.002	0	0
6	CORNER6	PY	.002	.002	0	0
7	FACE2	PY	.000953	.000953	0	0
8	FACE3	PY	.002	.002	0	0
9	FACE1	PY	.002	.002	0	0
10	FPLATE2	PY	.005	.005	0	0
11	FPLATE3	PY	.002	.002	0	0
12	FPLATE1	PY	.002	.002	0	0
13	MP ALPHA1	PY	.002	.002	0	0
14	MP ALPHA2	PY	.002	.002	0	0
15	MP ALPHA3	PY	.002	.002	0	0
16	MP BETA1	PY	.002	.002	0	0
17	MP BETA2	PY	.002	.002	0	0
18	MP BETA3	PY	.002	.002	0	0
19	MP GAMMA1	PY	.002	.002	0	0
20	MP GAMMA2	PY	.002	.002	0	0
21	MP GAMMA3	PY	.002	.002	0	0
22	PL1	PY	.001	.001	0	0
23	PL2	PY	.001	.001	0	0
24	PL3	PY	.001	.001	0	0
25	PL4	PY	.001	.001	0	0
26	PL5	PY	.001	.001	0	0
27	PL6	PY	.001	.001	0	0
28	RAIL2	PY	.0008	.0008	0	0
29	RAIL3	PY	.002	.002	0	0
30	RAIL1	PY	.002	.002	0	0

Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
31	RANGLE2	PY	.005	.005	0	0
32	RANGLE3	PY	.002	.002	0	0
33	RANGLE1	PY	.002	.002	0	0
34	SO1	PY	.001	.001	0	0
35	SO2	PY	.001	.001	0	0
36	SO3	PY	.001	.001	0	0
37	SUPP1	PY	.001	.001	0	0
38	SUPP2	PY	.001	.001	0	0
39	SUPP3	PY	.001	.001	0	0
40	SUPP4	PY	.001	.001	0	0
41	SUPP5	PY	.001	.001	0	0
42	SUPP6	PY	.001	.001	0	0
43	CORNER1	PX	-.003	-.003	0	0
44	CORNER2	PX	-.003	-.003	0	0
45	CORNER3	PX	-.003	-.003	0	0
46	CORNER4	PX	-.003	-.003	0	0
47	CORNER5	PX	-.003	-.003	0	0
48	CORNER6	PX	-.003	-.003	0	0
49	FACE2	PX	-.002	-.002	0	0
50	FACE3	PX	-.003	-.003	0	0
51	FACE1	PX	-.003	-.003	0	0
52	FPLATE2	PX	-.008	-.008	0	0
53	FPLATE3	PX	-.004	-.004	0	0
54	FPLATE1	PX	-.004	-.004	0	0
55	MP ALPHA1	PX	-.003	-.003	0	0
56	MP ALPHA2	PX	-.003	-.003	0	0
57	MP ALPHA3	PX	-.003	-.003	0	0
58	MP BETA1	PX	-.003	-.003	0	0
59	MP BETA2	PX	-.003	-.003	0	0
60	MP BETA3	PX	-.003	-.003	0	0
61	MP GAMMA1	PX	-.003	-.003	0	0
62	MP GAMMA2	PX	-.003	-.003	0	0
63	MP GAMMA3	PX	-.003	-.003	0	0
64	PL1	PX	-.002	-.002	0	0
65	PL2	PX	-.002	-.002	0	0
66	PL3	PX	-.002	-.002	0	0
67	PL4	PX	-.002	-.002	0	0
68	PL5	PX	-.002	-.002	0	0
69	PL6	PX	-.002	-.002	0	0
70	RAIL2	PX	-.001	-.001	0	0
71	RAIL3	PX	-.003	-.003	0	0
72	RAIL1	PX	-.003	-.003	0	0
73	RANGLE2	PX	-.008	-.008	0	0
74	RANGLE3	PX	-.004	-.004	0	0
75	RANGLE1	PX	-.004	-.004	0	0
76	SO1	PX	-.002	-.002	0	0
77	SO2	PX	-.002	-.002	0	0
78	SO3	PX	-.002	-.002	0	0
79	SUPP1	PX	-.002	-.002	0	0
80	SUPP2	PX	-.002	-.002	0	0
81	SUPP3	PX	-.002	-.002	0	0
82	SUPP4	PX	-.002	-.002	0	0
83	SUPP5	PX	-.002	-.002	0	0
84	SUPP6	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150))

Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]

Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.003	.003	0	0
2	CORNER2	PY	.003	.003	0	0
3	CORNER3	PY	.003	.003	0	0
4	CORNER4	PY	.003	.003	0	0
5	CORNER5	PY	.003	.003	0	0
6	CORNER6	PY	.003	.003	0	0
7	FACE2	PY	.002	.002	0	0
8	FACE3	PY	.003	.003	0	0
9	FACE1	PY	.003	.003	0	0
10	FPLATE2	PY	.008	.008	0	0
11	FPLATE3	PY	.004	.004	0	0
12	FPLATE1	PY	.004	.004	0	0
13	MP ALPHA1	PY	.003	.003	0	0
14	MP ALPHA2	PY	.003	.003	0	0
15	MP ALPHA3	PY	.003	.003	0	0
16	MP BETA1	PY	.003	.003	0	0
17	MP BETA2	PY	.003	.003	0	0
18	MP BETA3	PY	.003	.003	0	0
19	MP GAMMA1	PY	.003	.003	0	0
20	MP GAMMA2	PY	.003	.003	0	0
21	MP GAMMA3	PY	.003	.003	0	0
22	PL1	PY	.002	.002	0	0
23	PL2	PY	.002	.002	0	0
24	PL3	PY	.002	.002	0	0
25	PL4	PY	.002	.002	0	0
26	PL5	PY	.002	.002	0	0
27	PL6	PY	.002	.002	0	0
28	RAIL2	PY	.001	.001	0	0
29	RAIL3	PY	.003	.003	0	0
30	RAIL1	PY	.003	.003	0	0
31	RANGLE2	PY	.008	.008	0	0
32	RANGLE3	PY	.004	.004	0	0
33	RANGLE1	PY	.004	.004	0	0
34	SO1	PY	.002	.002	0	0
35	SO2	PY	.002	.002	0	0
36	SO3	PY	.002	.002	0	0
37	SUPP1	PY	.002	.002	0	0
38	SUPP2	PY	.002	.002	0	0
39	SUPP3	PY	.002	.002	0	0
40	SUPP4	PY	.002	.002	0	0
41	SUPP5	PY	.002	.002	0	0
42	SUPP6	PY	.002	.002	0	0
43	CORNER1	PX	-.002	-.002	0	0
44	CORNER2	PX	-.002	-.002	0	0
45	CORNER3	PX	-.002	-.002	0	0
46	CORNER4	PX	-.002	-.002	0	0
47	CORNER5	PX	-.002	-.002	0	0
48	CORNER6	PX	-.002	-.002	0	0
49	FACE2	PX	-.000953	-.000953	0	0
50	FACE3	PX	-.002	-.002	0	0
51	FACE1	PX	-.002	-.002	0	0
52	FPLATE2	PX	-.005	-.005	0	0
53	FPLATE3	PX	-.002	-.002	0	0
54	FPLATE1	PX	-.002	-.002	0	0
55	MP ALPHA1	PX	-.002	-.002	0	0
56	MP ALPHA2	PX	-.002	-.002	0	0
57	MP ALPHA3	PX	-.002	-.002	0	0

Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
58	MP BETA1	PX	-.002	-.002	0	0
59	MP BETA2	PX	-.002	-.002	0	0
60	MP BETA3	PX	-.002	-.002	0	0
61	MP GAMMA1	PX	-.002	-.002	0	0
62	MP GAMMA2	PX	-.002	-.002	0	0
63	MP GAMMA3	PX	-.002	-.002	0	0
64	PL1	PX	-.001	-.001	0	0
65	PL2	PX	-.001	-.001	0	0
66	PL3	PX	-.001	-.001	0	0
67	PL4	PX	-.001	-.001	0	0
68	PL5	PX	-.001	-.001	0	0
69	PL6	PX	-.001	-.001	0	0
70	RAIL2	PX	-.0008	-.0008	0	0
71	RAIL3	PX	-.002	-.002	0	0
72	RAIL1	PX	-.002	-.002	0	0
73	RANGLE2	PX	-.005	-.005	0	0
74	RANGLE3	PX	-.002	-.002	0	0
75	RANGLE1	PX	-.002	-.002	0	0
76	SO1	PX	-.001	-.001	0	0
77	SO2	PX	-.001	-.001	0	0
78	SO3	PX	-.001	-.001	0	0
79	SUPP1	PX	-.001	-.001	0	0
80	SUPP2	PX	-.001	-.001	0	0
81	SUPP3	PX	-.001	-.001	0	0
82	SUPP4	PX	-.001	-.001	0	0
83	SUPP5	PX	-.001	-.001	0	0
84	SUPP6	PX	-.001	-.001	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.003	.003	0	0
2	CORNER2	PY	.003	.003	0	0
3	CORNER3	PY	.003	.003	0	0
4	CORNER4	PY	.003	.003	0	0
5	CORNER5	PY	.003	.003	0	0
6	CORNER6	PY	.003	.003	0	0
7	FACE2	PY	.002	.002	0	0
8	FACE3	PY	.004	.004	0	0
9	FACE1	PY	.004	.004	0	0
10	FPLATE2	PY	.009	.009	0	0
11	FPLATE3	PY	.005	.005	0	0
12	FPLATE1	PY	.005	.005	0	0
13	MP ALPHA1	PY	.003	.003	0	0
14	MP ALPHA2	PY	.003	.003	0	0
15	MP ALPHA3	PY	.003	.003	0	0
16	MP BETA1	PY	.003	.003	0	0
17	MP BETA2	PY	.003	.003	0	0
18	MP BETA3	PY	.003	.003	0	0
19	MP GAMMA1	PY	.003	.003	0	0
20	MP GAMMA2	PY	.003	.003	0	0
21	MP GAMMA3	PY	.003	.003	0	0
22	PL1	PY	.003	.003	0	0
23	PL2	PY	.003	.003	0	0
24	PL3	PY	.003	.003	0	0
25	PL4	PY	.003	.003	0	0
26	PL5	PY	.003	.003	0	0

Member Distributed Loads (BLC 34 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
27	PL6	PY	.003	.003	0	0
28	RAIL2	PY	.002	.002	0	0
29	RAIL3	PY	.003	.003	0	0
30	RAIL1	PY	.003	.003	0	0
31	RANGLE2	PY	.009	.009	0	0
32	RANGLE3	PY	.005	.005	0	0
33	RANGLE1	PY	.005	.005	0	0
34	SO1	PY	.002	.002	0	0
35	SO2	PY	.002	.002	0	0
36	SO3	PY	.002	.002	0	0
37	SUPP1	PY	.002	.002	0	0
38	SUPP2	PY	.002	.002	0	0
39	SUPP3	PY	.002	.002	0	0
40	SUPP4	PY	.002	.002	0	0
41	SUPP5	PY	.002	.002	0	0
42	SUPP6	PY	.002	.002	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.003	.003	0	0
2	CORNER2	PY	.003	.003	0	0
3	CORNER3	PY	.003	.003	0	0
4	CORNER4	PY	.003	.003	0	0
5	CORNER5	PY	.003	.003	0	0
6	CORNER6	PY	.003	.003	0	0
7	FACE3	PY	.002	.002	0	0
8	FACE1	PY	.003	.003	0	0
9	FACE2	PY	.003	.003	0	0
10	FPLATE3	PY	.008	.008	0	0
11	FPLATE1	PY	.004	.004	0	0
12	FPLATE2	PY	.004	.004	0	0
13	MP ALPHA1	PY	.003	.003	0	0
14	MP ALPHA2	PY	.003	.003	0	0
15	MP ALPHA3	PY	.003	.003	0	0
16	MP BETA1	PY	.003	.003	0	0
17	MP BETA2	PY	.003	.003	0	0
18	MP BETA3	PY	.003	.003	0	0
19	MP GAMMA1	PY	.003	.003	0	0
20	MP GAMMA2	PY	.003	.003	0	0
21	MP GAMMA3	PY	.003	.003	0	0
22	PL1	PY	.002	.002	0	0
23	PL2	PY	.002	.002	0	0
24	PL3	PY	.002	.002	0	0
25	PL4	PY	.002	.002	0	0
26	PL5	PY	.002	.002	0	0
27	PL6	PY	.002	.002	0	0
28	RAIL3	PY	.001	.001	0	0
29	RAIL1	PY	.003	.003	0	0
30	RAIL2	PY	.003	.003	0	0
31	RANGLE3	PY	.008	.008	0	0
32	RANGLE1	PY	.004	.004	0	0
33	RANGLE2	PY	.004	.004	0	0
34	SO1	PY	.002	.002	0	0
35	SO2	PY	.002	.002	0	0
36	SO3	PY	.002	.002	0	0
37	SUPP1	PY	.002	.002	0	0

Member Distributed Loads (BLC 35 : Ice Wind Load (210)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
38	SUPP2	PY	.002	.002	0	0
39	SUPP3	PY	.002	.002	0	0
40	SUPP4	PY	.002	.002	0	0
41	SUPP5	PY	.002	.002	0	0
42	SUPP6	PY	.002	.002	0	0
43	CORNER1	PX	.002	.002	0	0
44	CORNER2	PX	.002	.002	0	0
45	CORNER3	PX	.002	.002	0	0
46	CORNER4	PX	.002	.002	0	0
47	CORNER5	PX	.002	.002	0	0
48	CORNER6	PX	.002	.002	0	0
49	FACE3	PX	.000953	.000953	0	0
50	FACE1	PX	.002	.002	0	0
51	FACE2	PX	.002	.002	0	0
52	FPLATE3	PX	.005	.005	0	0
53	FPLATE1	PX	.002	.002	0	0
54	FPLATE2	PX	.002	.002	0	0
55	MP ALPHA1	PX	.002	.002	0	0
56	MP ALPHA2	PX	.002	.002	0	0
57	MP ALPHA3	PX	.002	.002	0	0
58	MP BETA1	PX	.002	.002	0	0
59	MP BETA2	PX	.002	.002	0	0
60	MP BETA3	PX	.002	.002	0	0
61	MP GAMMA1	PX	.002	.002	0	0
62	MP GAMMA2	PX	.002	.002	0	0
63	MP GAMMA3	PX	.002	.002	0	0
64	PL1	PX	.001	.001	0	0
65	PL2	PX	.001	.001	0	0
66	PL3	PX	.001	.001	0	0
67	PL4	PX	.001	.001	0	0
68	PL5	PX	.001	.001	0	0
69	PL6	PX	.001	.001	0	0
70	RAIL3	PX	.0008	.0008	0	0
71	RAIL1	PX	.002	.002	0	0
72	RAIL2	PX	.002	.002	0	0
73	RANGLE3	PX	.005	.005	0	0
74	RANGLE1	PX	.002	.002	0	0
75	RANGLE2	PX	.002	.002	0	0
76	SO1	PX	.001	.001	0	0
77	SO2	PX	.001	.001	0	0
78	SO3	PX	.001	.001	0	0
79	SUPP1	PX	.001	.001	0	0
80	SUPP2	PX	.001	.001	0	0
81	SUPP3	PX	.001	.001	0	0
82	SUPP4	PX	.001	.001	0	0
83	SUPP5	PX	.001	.001	0	0
84	SUPP6	PX	.001	.001	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	.002	.002	0	0
2	CORNER2	PY	.002	.002	0	0
3	CORNER3	PY	.002	.002	0	0
4	CORNER4	PY	.002	.002	0	0
5	CORNER5	PY	.002	.002	0	0
6	CORNER6	PY	.002	.002	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
7	FACE3	PY	.000953	.000953	0	0
8	FACE1	PY	.002	.002	0	0
9	FACE2	PY	.002	.002	0	0
10	FPLATE3	PY	.005	.005	0	0
11	FPLATE1	PY	.002	.002	0	0
12	FPLATE2	PY	.002	.002	0	0
13	MP ALPHA1	PY	.002	.002	0	0
14	MP ALPHA2	PY	.002	.002	0	0
15	MP ALPHA3	PY	.002	.002	0	0
16	MP BETA1	PY	.002	.002	0	0
17	MP BETA2	PY	.002	.002	0	0
18	MP BETA3	PY	.002	.002	0	0
19	MP GAMMA1	PY	.002	.002	0	0
20	MP GAMMA2	PY	.002	.002	0	0
21	MP GAMMA3	PY	.002	.002	0	0
22	PL1	PY	.001	.001	0	0
23	PL2	PY	.001	.001	0	0
24	PL3	PY	.001	.001	0	0
25	PL4	PY	.001	.001	0	0
26	PL5	PY	.001	.001	0	0
27	PL6	PY	.001	.001	0	0
28	RAIL3	PY	.0008	.0008	0	0
29	RAIL1	PY	.002	.002	0	0
30	RAIL2	PY	.002	.002	0	0
31	RANGLE3	PY	.005	.005	0	0
32	RANGLE1	PY	.002	.002	0	0
33	RANGLE2	PY	.002	.002	0	0
34	SO1	PY	.001	.001	0	0
35	SO2	PY	.001	.001	0	0
36	SO3	PY	.001	.001	0	0
37	SUPP1	PY	.001	.001	0	0
38	SUPP2	PY	.001	.001	0	0
39	SUPP3	PY	.001	.001	0	0
40	SUPP4	PY	.001	.001	0	0
41	SUPP5	PY	.001	.001	0	0
42	SUPP6	PY	.001	.001	0	0
43	CORNER1	PX	.003	.003	0	0
44	CORNER2	PX	.003	.003	0	0
45	CORNER3	PX	.003	.003	0	0
46	CORNER4	PX	.003	.003	0	0
47	CORNER5	PX	.003	.003	0	0
48	CORNER6	PX	.003	.003	0	0
49	FACE3	PX	.002	.002	0	0
50	FACE1	PX	.003	.003	0	0
51	FACE2	PX	.003	.003	0	0
52	FPLATE3	PX	.008	.008	0	0
53	FPLATE1	PX	.004	.004	0	0
54	FPLATE2	PX	.004	.004	0	0
55	MP ALPHA1	PX	.003	.003	0	0
56	MP ALPHA2	PX	.003	.003	0	0
57	MP ALPHA3	PX	.003	.003	0	0
58	MP BETA1	PX	.003	.003	0	0
59	MP BETA2	PX	.003	.003	0	0
60	MP BETA3	PX	.003	.003	0	0
61	MP GAMMA1	PX	.003	.003	0	0
62	MP GAMMA2	PX	.003	.003	0	0
63	MP GAMMA3	PX	.003	.003	0	0

Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
64	PL1	PX	.002	.002	0	0
65	PL2	PX	.002	.002	0	0
66	PL3	PX	.002	.002	0	0
67	PL4	PX	.002	.002	0	0
68	PL5	PX	.002	.002	0	0
69	PL6	PX	.002	.002	0	0
70	RAIL3	PX	.001	.001	0	0
71	RAIL1	PX	.003	.003	0	0
72	RAIL2	PX	.003	.003	0	0
73	RANGLE3	PX	.008	.008	0	0
74	RANGLE1	PX	.004	.004	0	0
75	RANGLE2	PX	.004	.004	0	0
76	SO1	PX	.002	.002	0	0
77	SO2	PX	.002	.002	0	0
78	SO3	PX	.002	.002	0	0
79	SUPP1	PX	.002	.002	0	0
80	SUPP2	PX	.002	.002	0	0
81	SUPP3	PX	.002	.002	0	0
82	SUPP4	PX	.002	.002	0	0
83	SUPP5	PX	.002	.002	0	0
84	SUPP6	PX	.002	.002	0	0

Member Distributed Loads (BLC 37 : Ice Wind Load (270))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PX	.003	.003	0	0
2	CORNER2	PX	.003	.003	0	0
3	CORNER3	PX	.003	.003	0	0
4	CORNER4	PX	.003	.003	0	0
5	CORNER5	PX	.003	.003	0	0
6	CORNER6	PX	.003	.003	0	0
7	FACE3	PX	.002	.002	0	0
8	FACE1	PX	.004	.004	0	0
9	FACE2	PX	.004	.004	0	0
10	FPLATE3	PX	.009	.009	0	0
11	FPLATE1	PX	.005	.005	0	0
12	FPLATE2	PX	.005	.005	0	0
13	MP ALPHA1	PX	.003	.003	0	0
14	MP ALPHA2	PX	.003	.003	0	0
15	MP ALPHA3	PX	.003	.003	0	0
16	MP BETA1	PX	.003	.003	0	0
17	MP BETA2	PX	.003	.003	0	0
18	MP BETA3	PX	.003	.003	0	0
19	MP GAMMA1	PX	.003	.003	0	0
20	MP GAMMA2	PX	.003	.003	0	0
21	MP GAMMA3	PX	.003	.003	0	0
22	PL1	PX	.003	.003	0	0
23	PL2	PX	.003	.003	0	0
24	PL3	PX	.003	.003	0	0
25	PL4	PX	.003	.003	0	0
26	PL5	PX	.003	.003	0	0
27	PL6	PX	.003	.003	0	0
28	RAIL3	PX	.002	.002	0	0
29	RAIL1	PX	.003	.003	0	0
30	RAIL2	PX	.003	.003	0	0
31	RANGLE3	PX	.009	.009	0	0
32	RANGLE1	PX	.005	.005	0	0

Member Distributed Loads (BLC 37 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
33	RANGLE2	PX	.005	.005	0	0
34	SO1	PX	.002	.002	0	0
35	SO2	PX	.002	.002	0	0
36	SO3	PX	.002	.002	0	0
37	SUPP1	PX	.002	.002	0	0
38	SUPP2	PX	.002	.002	0	0
39	SUPP3	PX	.002	.002	0	0
40	SUPP4	PX	.002	.002	0	0
41	SUPP5	PX	.002	.002	0	0
42	SUPP6	PX	.002	.002	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.002	-.002	0	0
2	CORNER2	PY	-.002	-.002	0	0
3	CORNER3	PY	-.002	-.002	0	0
4	CORNER4	PY	-.002	-.002	0	0
5	CORNER5	PY	-.002	-.002	0	0
6	CORNER6	PY	-.002	-.002	0	0
7	FACE3	PY	-.000953	-.000953	0	0
8	FACE1	PY	-.002	-.002	0	0
9	FACE2	PY	-.002	-.002	0	0
10	FPLATE3	PY	-.005	-.005	0	0
11	FPLATE1	PY	-.002	-.002	0	0
12	FPLATE2	PY	-.002	-.002	0	0
13	MP ALPHA1	PY	-.002	-.002	0	0
14	MP ALPHA2	PY	-.002	-.002	0	0
15	MP ALPHA3	PY	-.002	-.002	0	0
16	MP BETA1	PY	-.002	-.002	0	0
17	MP BETA2	PY	-.002	-.002	0	0
18	MP BETA3	PY	-.002	-.002	0	0
19	MP GAMMA1	PY	-.002	-.002	0	0
20	MP GAMMA2	PY	-.002	-.002	0	0
21	MP GAMMA3	PY	-.002	-.002	0	0
22	PL1	PY	-.001	-.001	0	0
23	PL2	PY	-.001	-.001	0	0
24	PL3	PY	-.001	-.001	0	0
25	PL4	PY	-.001	-.001	0	0
26	PL5	PY	-.001	-.001	0	0
27	PL6	PY	-.001	-.001	0	0
28	RAIL3	PY	-.0008	-.0008	0	0
29	RAIL1	PY	-.002	-.002	0	0
30	RAIL2	PY	-.002	-.002	0	0
31	RANGLE3	PY	-.005	-.005	0	0
32	RANGLE1	PY	-.002	-.002	0	0
33	RANGLE2	PY	-.002	-.002	0	0
34	SO1	PY	-.001	-.001	0	0
35	SO2	PY	-.001	-.001	0	0
36	SO3	PY	-.001	-.001	0	0
37	SUPP1	PY	-.001	-.001	0	0
38	SUPP2	PY	-.001	-.001	0	0
39	SUPP3	PY	-.001	-.001	0	0
40	SUPP4	PY	-.001	-.001	0	0
41	SUPP5	PY	-.001	-.001	0	0
42	SUPP6	PY	-.001	-.001	0	0
43	CORNER1	PX	.003	.003	0	0

Member Distributed Loads (BLC 38 : Ice Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
44	CORNER2	PX	.003	.003	0	0
45	CORNER3	PX	.003	.003	0	0
46	CORNER4	PX	.003	.003	0	0
47	CORNER5	PX	.003	.003	0	0
48	CORNER6	PX	.003	.003	0	0
49	FACE3	PX	.002	.002	0	0
50	FACE1	PX	.003	.003	0	0
51	FACE2	PX	.003	.003	0	0
52	FPLATE3	PX	.008	.008	0	0
53	FPLATE1	PX	.004	.004	0	0
54	FPLATE2	PX	.004	.004	0	0
55	MP ALPHA1	PX	.003	.003	0	0
56	MP ALPHA2	PX	.003	.003	0	0
57	MP ALPHA3	PX	.003	.003	0	0
58	MP BETA1	PX	.003	.003	0	0
59	MP BETA2	PX	.003	.003	0	0
60	MP BETA3	PX	.003	.003	0	0
61	MP GAMMA1	PX	.003	.003	0	0
62	MP GAMMA2	PX	.003	.003	0	0
63	MP GAMMA3	PX	.003	.003	0	0
64	PL1	PX	.002	.002	0	0
65	PL2	PX	.002	.002	0	0
66	PL3	PX	.002	.002	0	0
67	PL4	PX	.002	.002	0	0
68	PL5	PX	.002	.002	0	0
69	PL6	PX	.002	.002	0	0
70	RAIL3	PX	.001	.001	0	0
71	RAIL1	PX	.003	.003	0	0
72	RAIL2	PX	.003	.003	0	0
73	RANGLE3	PX	.008	.008	0	0
74	RANGLE1	PX	.004	.004	0	0
75	RANGLE2	PX	.004	.004	0	0
76	SO1	PX	.002	.002	0	0
77	SO2	PX	.002	.002	0	0
78	SO3	PX	.002	.002	0	0
79	SUPP1	PX	.002	.002	0	0
80	SUPP2	PX	.002	.002	0	0
81	SUPP3	PX	.002	.002	0	0
82	SUPP4	PX	.002	.002	0	0
83	SUPP5	PX	.002	.002	0	0
84	SUPP6	PX	.002	.002	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330))

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	CORNER1	PY	-.003	-.003	0	0
2	CORNER2	PY	-.003	-.003	0	0
3	CORNER3	PY	-.003	-.003	0	0
4	CORNER4	PY	-.003	-.003	0	0
5	CORNER5	PY	-.003	-.003	0	0
6	CORNER6	PY	-.003	-.003	0	0
7	FACE1	PY	-.002	-.002	0	0
8	FACE2	PY	-.003	-.003	0	0
9	FACE3	PY	-.003	-.003	0	0
10	FPLATE1	PY	-.008	-.008	0	0
11	FPLATE2	PY	-.004	-.004	0	0
12	FPLATE3	PY	-.004	-.004	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
13	MP ALPHA1	PY	-.003	-.003	0	0
14	MP ALPHA2	PY	-.003	-.003	0	0
15	MP ALPHA3	PY	-.003	-.003	0	0
16	MP BETA1	PY	-.003	-.003	0	0
17	MP BETA2	PY	-.003	-.003	0	0
18	MP BETA3	PY	-.003	-.003	0	0
19	MP GAMMA1	PY	-.003	-.003	0	0
20	MP GAMMA2	PY	-.003	-.003	0	0
21	MP GAMMA3	PY	-.003	-.003	0	0
22	PL1	PY	-.002	-.002	0	0
23	PL2	PY	-.002	-.002	0	0
24	PL3	PY	-.002	-.002	0	0
25	PL4	PY	-.002	-.002	0	0
26	PL5	PY	-.002	-.002	0	0
27	PL6	PY	-.002	-.002	0	0
28	RAIL1	PY	-.001	-.001	0	0
29	RAIL2	PY	-.003	-.003	0	0
30	RAIL3	PY	-.003	-.003	0	0
31	RANGLE1	PY	-.008	-.008	0	0
32	RANGLE2	PY	-.004	-.004	0	0
33	RANGLE3	PY	-.004	-.004	0	0
34	SO1	PY	-.002	-.002	0	0
35	SO2	PY	-.002	-.002	0	0
36	SO3	PY	-.002	-.002	0	0
37	SUPP1	PY	-.002	-.002	0	0
38	SUPP2	PY	-.002	-.002	0	0
39	SUPP3	PY	-.002	-.002	0	0
40	SUPP4	PY	-.002	-.002	0	0
41	SUPP5	PY	-.002	-.002	0	0
42	SUPP6	PY	-.002	-.002	0	0
43	CORNER1	PX	.002	.002	0	0
44	CORNER2	PX	.002	.002	0	0
45	CORNER3	PX	.002	.002	0	0
46	CORNER4	PX	.002	.002	0	0
47	CORNER5	PX	.002	.002	0	0
48	CORNER6	PX	.002	.002	0	0
49	FACE1	PX	.000953	.000953	0	0
50	FACE2	PX	.002	.002	0	0
51	FACE3	PX	.002	.002	0	0
52	FPLATE1	PX	.005	.005	0	0
53	FPLATE2	PX	.002	.002	0	0
54	FPLATE3	PX	.002	.002	0	0
55	MP ALPHA1	PX	.002	.002	0	0
56	MP ALPHA2	PX	.002	.002	0	0
57	MP ALPHA3	PX	.002	.002	0	0
58	MP BETA1	PX	.002	.002	0	0
59	MP BETA2	PX	.002	.002	0	0
60	MP BETA3	PX	.002	.002	0	0
61	MP GAMMA1	PX	.002	.002	0	0
62	MP GAMMA2	PX	.002	.002	0	0
63	MP GAMMA3	PX	.002	.002	0	0
64	PL1	PX	.001	.001	0	0
65	PL2	PX	.001	.001	0	0
66	PL3	PX	.001	.001	0	0
67	PL4	PX	.001	.001	0	0
68	PL5	PX	.001	.001	0	0
69	PL6	PX	.001	.001	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
70	RAIL1	PX	.0008	.0008	0	0
71	RAIL2	PX	.002	.002	0	0
72	RAIL3	PX	.002	.002	0	0
73	RANGLE1	PX	.005	.005	0	0
74	RANGLE2	PX	.002	.002	0	0
75	RANGLE3	PX	.002	.002	0	0
76	SO1	PX	.001	.001	0	0
77	SO2	PX	.001	.001	0	0
78	SO3	PX	.001	.001	0	0
79	SUPP1	PX	.001	.001	0	0
80	SUPP2	PX	.001	.001	0	0
81	SUPP3	PX	.001	.001	0	0
82	SUPP4	PX	.001	.001	0	0
83	SUPP5	PX	.001	.001	0	0
84	SUPP6	PX	.001	.001	0	0

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	SO3	Z	-.018	-.018	0	1.966
2	SUPP5	Z	-.009	-.009	.319	2.275
3	SUPP6	Z	-.009	-.009	.319	2.275
4	SO2	Z	-.018	-.018	0	1.966
5	SUPP3	Z	-.009	-.009	.319	2.275
6	SUPP4	Z	-.009	-.009	.319	2.275
7	SO1	Z	-.018	-.018	0	1.966
8	SUPP1	Z	-.009	-.009	.319	2.275
9	SUPP2	Z	-.009	-.009	.319	2.275

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k...	End Magnitude[k/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	SO3	Z	-.031	-.031	0	1.966
2	SUPP5	Z	-.016	-.016	.319	2.275
3	SUPP6	Z	-.016	-.016	.319	2.275
4	SO2	Z	-.031	-.031	0	1.966
5	SUPP3	Z	-.016	-.016	.319	2.275
6	SUPP4	Z	-.016	-.016	.319	2.275
7	SO1	Z	-.031	-.031	0	1.966
8	SUPP1	Z	-.016	-.016	.319	2.275
9	SUPP2	Z	-.016	-.016	.319	2.275

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	P31	P34	P33	P32	Z	Two Way	-.01
2	P9	P12	P11	P10	Z	Two Way	-.01
3	P20	P23	P22	P21	Z	Two Way	-.01

Member Area Loads (BLC 27 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	P31	P34	P33	P32	Z	Two Way	-.017
2	P9	P12	P11	P10	Z	Two Way	-.017
3	P20	P23	P22	P21	Z	Two Way	-.017

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Live Load	DL					1			
2	Wind Load (0)	DL					13	42		
3	Dead Load	DL			-1.1		13		3	
4	Wind Load (30)	DL					26	84		
5	Wind Load (60)	DL					26	84		
6	Wind Load (90)	DL					13	42		
7	Wind Load (120)	DL					26	84		
8	Wind Load (150)	DL					26	84		
9	Wind Load (180)	DL					13	42		
10	Wind Load (210)	DL					26	84		
11	Wind Load (240)	DL					26	84		
12	Wind Load (270)	DL					13	42		
13	Wind Load (300)	DL					26	84		
14	Wind Load (330)	DL					26	84		
15	Maintanence (0)	DL					13	42		
16	Maintanence (30)	DL					26	84		
17	Maintanence (60)	DL					26	84		
18	Maintanence (90)	DL					13	42		
19	Maintanence (120)	DL					26	84		
20	Maintanence (150)	DL					26	84		
21	Maintanence (180)	DL					13	42		
22	Maintanence (210)	DL					26	84		
23	Maintanence (240)	DL					26	84		
24	Maintanence (270)	DL					13	42		
25	Maintanence (300)	DL					26	84		
26	Maintanence (330)	DL					26	84		
27	Ice Dead Load	DL					13	42	3	
28	Ice Wind Load (0)	DL					13	42		
29	Ice Wind Load (30)	DL					26	84		
30	Ice Wind Load (60)	DL					26	84		
31	Ice Wind Load (90)	DL					13	42		
32	Ice Wind Load (120)	DL					26	84		
33	Ice Wind Load (150)	DL					26	84		
34	Ice Wind Load (180)	DL					13	42		
35	Ice Wind Load (210)	DL					26	84		
36	Ice Wind Load (240)	DL					26	84		
37	Ice Wind Load (270)	DL					13	42		
38	Ice Wind Load (300)	DL					26	84		
39	Ice Wind Load (330)	DL					26	84		
40	Earthquake (x-directi...	DL	-.107				13			
41	Earthquake (y-directio...	DL		-.107			13			
42	Earthquake (z-directi...	DL			-.043		13			
43	BLC 3 Transient Area...	None						9		
44	BLC 27 Transient Are...	None						9		

Load Combinations

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
1	1.4D	Yes	Y		3	1.4																		
2	1.2D + 1.0W(0)	Yes	Y		3	1.2	2	1																
3	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	28	1														
4	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	15	1														
5	1.2D + 1.0W(30)	Yes	Y		3	1.2	4	1																
6	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	29	1														
7	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	16	1														

Load Combinations (Continued)

	Description	So...	P...	S...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...	BLC	Fac...
8	1.2D + 1.0W(60)	Yes	Y		3	1.2	5	1																
9	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	30	1														
10	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	17	1														
11	1.2D + 1.0W(90)	Yes	Y		3	1.2	6	1																
12	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	31	1														
13	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	18	1														
14	1.2D + 1.0W(120)	Yes	Y		3	1.2	7	1																
15	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	32	1														
16	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	19	1														
17	1.2D + 1.0W(150)	Yes	Y		3	1.2	8	1																
18	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	33	1														
19	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	20	1														
20	1.2D + 1.0W(180)	Yes	Y		3	1.2	9	1																
21	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	34	1														
22	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	21	1														
23	1.2D + 1.0W(210)	Yes	Y		3	1.2	10	1																
24	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	35	1														
25	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	22	1														
26	1.2D + 1.0W(240)	Yes	Y		3	1.2	11	1																
27	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	36	1														
28	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	23	1														
29	1.2D + 1.0W(270)	Yes	Y		3	1.2	12	1																
30	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	37	1														
31	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	24	1														
32	1.2D + 1.0W(300)	Yes	Y		3	1.2	13	1																
33	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	38	1														
34	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	25	1														
35	1.2D + 1.0W(330)	Yes	Y		3	1.2	14	1																
36	1.2D + 1.0Di + 1...	Yes	Y		3	1.2	27	1	39	1														
37	1.2D + 1.5L + 1....	Yes	Y		3	1.2	1	1.5	26	1														
38	1.2D + 1.0E(x) +...	Yes	Y		3	1.2	40	1	42	1	1	1												
39	1.2D + 1.0E(y) +...	Yes	Y		3	1.2	41	1	42	1	1	1												
40	1.2D - 1.0E(x) + ...	Yes	Y		3	1.2	40	-1	42	1	1	1												
41	1.2D - 1.0E(y) + ...	Yes	Y		3	1.2	41	-1	42	1	1	1												

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	P24	max	.726	14	1.177	35	2.156	9	-.328	23	3.973	9	1.645	17
2		min	-.78	32	-1.155	17	.5	26	-2.795	7	.724	29	-1.665	35
3	P13	max	1.182	11	.503	2	2.091	21	4.57	21	.423	11	1.446	29
4		min	-1.183	29	-.446	20	.467	2	.774	2	-.347	29	-1.448	11
5	P1	max	.751	8	1.149	5	2.147	33	-.301	17	-.718	11	1.659	5
6		min	-.775	26	-1.127	23	.498	14	-2.347	36	-4.065	30	-1.643	23
7	Totals:	max	2.484	11	2.614	2	6.166	9						
8		min	-2.484	29	-2.571	20	2.318	23						

Envelope AISC 14th(360-10): LRFD Steel Code Checks

	Member	Shape	Code Che...	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*M...	phi*M...	...	Eqn
1	CORNER4	C3.38x2....	.287	0	33	.034	0	y	9	47.76	56.7	2.203	5.752	...	H1-1b
2	CORNER5	C3.38x2....	.285	0	9	.036	0	y	30	47.76	56.7	2.203	5.752	...	H1-1b
3	CORNER6	C3.38x2....	.279	0	9	.033	0	y	21	47.76	56.7	2.203	5.752	...	H1-1b
4	CORNER3	C3.38x2....	.275	0	33	.034	0	y	18	47.76	56.7	2.203	5.752	...	H1-1b
5	CORNER2	C3.38x2....	.274	0	21	.033	0	y	33	47.76	56.7	2.203	5.752	...	H1-1b
6	CORNER1	C3.38x2....	.270	0	21	.034	0	y	6	47.76	56.7	2.203	5.752	...	H1-1b

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

	Member	Shape	Code Che...	Loc[...	LC	Shear Check	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*M...	phi*M...	...	Eqn
7	MP ALPHA2	Pipe2.38...	.240	3	32	.070	3		32	12.838	26.838	1.609	1.609	...	H1-1b
8	SO3	HSS4X4...	.226	3.333	3	.079	3.333	y	4	188.25	197.892	22.046	22.046	...	H1-1b
9	SO2	HSS4X4...	.224	3.333	27	.048	3.333	z	23	188.25	197.892	22.046	22.046	...	H1-1b
10	MP GAMMA2	Pipe2.38...	.220	3	20	.065	3		20	12.838	26.838	1.609	1.609	...	H1-1b
11	SO1	HSS4X4...	.219	3.333	15	.050	3.333	y	15	188.25	197.892	22.046	22.046	...	H1-1b
12	MP BETA2	Pipe2.38...	.217	3	32	.062	3		5	12.838	26.838	1.609	1.609	...	H1-1b
13	PL1	PL 2.375...	.200	0	5	.342	0	y	18	38.257	38.475	.401	1.904	...	H1-1b
14	PL3	PL 2.375...	.199	0	35	.350	0	y	30	38.257	38.475	.401	1.904	...	H1-1b
15	PL5	PL 2.375...	.199	0	11	.368	0	y	6	38.257	38.475	.401	1.904	...	H1-1b
16	PL6	PL 2.375...	.198	0	5	.358	0	y	12	38.257	38.475	.401	1.904	...	H1-1b
17	PL4	PL 2.375...	.198	0	29	.374	0	y	36	38.257	38.475	.401	1.904	...	H1-1b
18	PL2	PL 2.375...	.197	0	35	.349	0	y	24	38.257	38.475	.401	1.904	...	H1-1b
19	MP BETA1	Pipe2.38...	.186	6.25	35	.050	3		35	12.838	26.838	1.609	1.609	...	H1-1b
20	MP ALPHA1	Pipe2.38...	.183	6.25	23	.053	3		23	12.838	26.838	1.609	1.609	...	H1-1b
21	MP ALPHA3	Pipe2.38...	.181	3	14	.054	3		17	12.838	26.838	1.609	1.609	...	H1-1b
22	MP GAMMA3	Pipe2.38...	.181	3	2	.051	3		5	12.838	26.838	1.609	1.609	...	H1-1b
23	MP BETA3	Pipe2.38...	.168	3	26	.049	3		29	12.838	26.838	1.609	1.609	...	H1-1b
24	MP GAMMA1	Pipe2.38...	.168	3	14	.048	3		11	12.838	26.838	1.609	1.609	...	H1-1b
25	FPLATE3	PL 6.5x....	.166	1.75	28	.072	.474	y	21	3.658	78.975	.617	8.43	...	H1-1b
26	FACE1	Pipe3.5x...	.151	4	18	.046	.25		37	38.822	54.464	4.822	4.822	...	H1-1b
27	FACE3	Pipe3.5x...	.134	4	6	.042	4		2	38.822	54.464	4.822	4.822	...	H1-1b
28	FACE2	Pipe3.5x...	.133	4	27	.041	5.333		2	38.822	54.464	4.822	4.822	...	H1-1b
29	FPLATE1	PL 6.5x....	.133	1.75	20	.067	.474	y	33	3.658	78.975	.617	7.623	...	H1-1b
30	FPLATE2	PL 6.5x....	.132	1.75	32	.067	1.75	y	27	3.658	78.975	.617	7.568	...	H1-1b
31	RAIL1	PIPE_2.0	.131	7.5	32	.194	.5		35	14.916	32.13	1.872	1.872	...	H1-1b
32	SUPP5	L2x2x4	.130	0	5	.024	0	y	21	23.539	30.586	.691	1.577	...	H2-1
33	RAIL3	PIPE_2.0	.130	7.5	20	.195	.5		23	14.916	32.13	1.872	1.872	...	H1-1b
34	SUPP3	L2x2x4	.129	0	32	.024	2.275	y	12	23.539	30.586	.691	1.577	...	H2-1
35	SUPP1	L2x2x4	.125	0	20	.023	2.275	y	33	23.539	30.586	.691	1.577	...	H2-1
36	SUPP6	L2x2x4	.125	0	8	.026	2.275	z	33	23.539	30.586	.691	1.577	...	H2-1
37	RAIL2	PIPE_2.0	.123	7.5	8	.193	7.5		17	14.916	32.13	1.872	1.872	...	H1-1b
38	RANGLE3	L6.6x4.4...	.122	0	20	.015	0	y	17	50.616	87.561	2.465	7.125	...	H2-1
39	SUPP4	L2x2x4	.121	0	32	.026	2.275	z	21	23.539	30.586	.691	1.577	...	H2-1
40	SUPP2	L2x2x4	.120	0	20	.025	2.275	z	9	23.539	30.586	.691	1.577	...	H2-1
41	RANGLE2	L6.6x4.4...	.116	3.5	20	.014	0	y	5	50.616	87.561	2.465	7.125	...	H2-1
42	RANGLE1	L6.6x4.4...	.104	0	32	.014	0	y	29	50.616	87.561	2.465	7.125	...	H2-1

APPENDIX D

Additional Calculations

POD
POWER OF DESIGN

POD Job #	**21-108453**
Site Number	**826217**
Site Name	**Newington_1**

Calculations Based on *TIA-222-H*

Reactions from RISA-3D

Moment	4.57	ft-kip
Axial	0.128	kips
Shear	2.091	kips

Capacities

Bolts	*3.9%*
Flange Plate	*29.9%*

Bolt Information

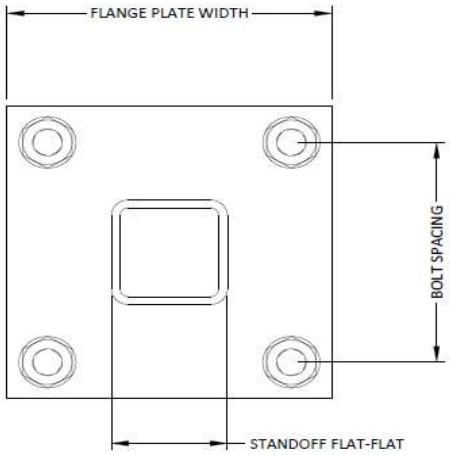
Grade	A325	
Threads in Shear Plane	Included	
Diameter	0.625	in.
Bolt Spacing	7	in.
Number of Rods	4	

Flange Plate Inforation

Width	9	in.
Thickness	0.625	in.
Grade	A572-50	

Standoff Information

Standoff Member	HSS	
Flat-Flat	4	in.
Thickness	0.375	in.



Bolt Calculations

ϕ	0.75	
A_{nt}	0.226	in^2
A_b	0.307	in^2
Fu	120	ksi
ϕR_{nV}	13.81	kips
ϕR_{nt}	20.34	kips
V	0.52	kips
F	3.94	kips
Capacity	3.9%	

Flange Plate Calculations

ϕ	0.9	
Fy	50	ksi
t_{min}	0.21	in
Z	0.9	in^3
ϕM_n	39.6	in-kip
M_u	11.8	in-kip
Capacity	29.9%	

Ver 1.0 - 3/5/2019

POD
POWER OF DESIGN

POD Job #	**21-108453**
Site Number	**826217**
Site Name	**Newington_1**

Connection Type	Single Shear

RISA 3D Forces

Axial (Bolts)	0.134	kips
Shear (Bolts)	0.734	kips
Axial Force (Member)	0.734	kips

Bolt/Member Information

Member Label	CORNER4	
# of Bolts	2	
Diameter	0.5	inches
Bolt Grade	A325	
Member Grade	A36	
Threads Included?	Yes	
L_b	1.5	inches
L_c	1	inches
t	0.25	inches

Shear Capacity	**4.2%**
Axial Capacity	**0.5%**
Bearing Capacity	**2.6%**
Combined Capacity	**0.7%**

Ver 1.0 - 2/28/2020

APPENDIX E

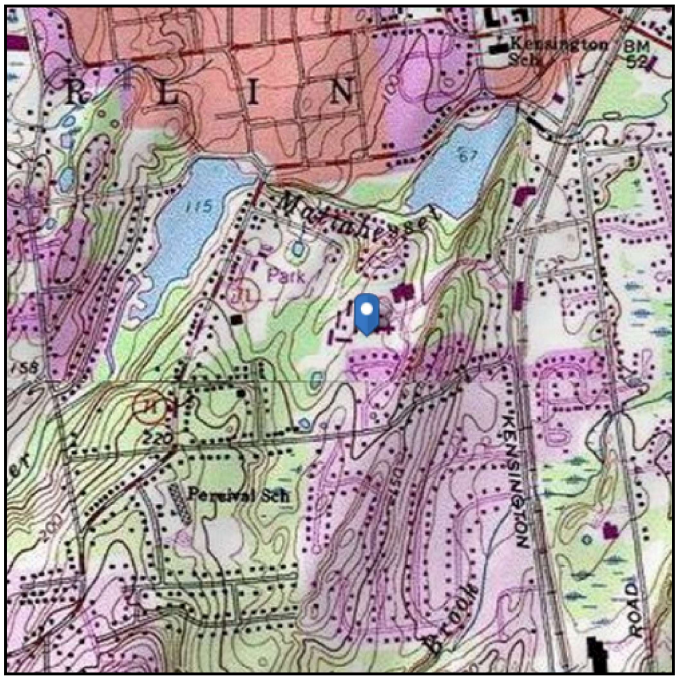
Design Criteria

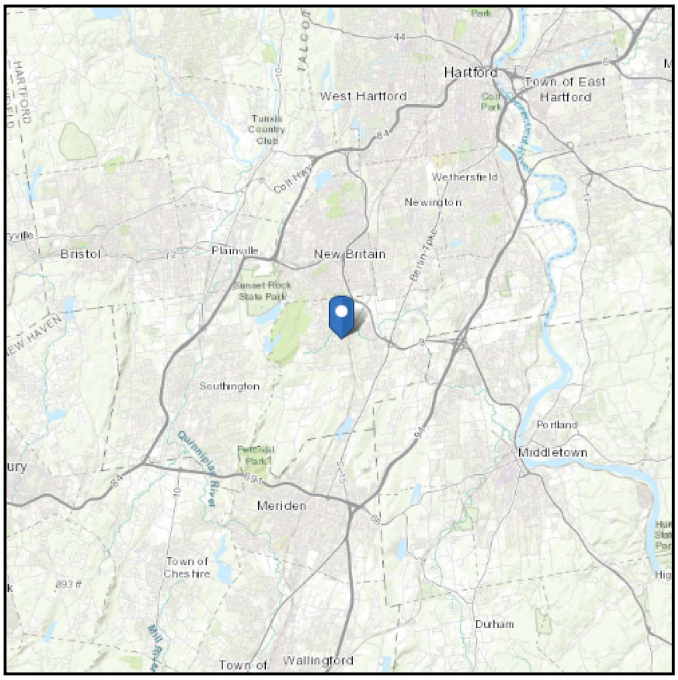
ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 133.49 ft (NAVD 88)
Latitude: 41.626194
Longitude: -72.775647





Wind

Results:

Wind Speed:	123 Vmph
10-year MRI	77 Vmph
25-year MRI	86 Vmph
50-year MRI	93 Vmph
100-year MRI	100 Vmph

Data Accessed: Mon Sep 13 2021

Date Source: ASCE/SEI 7-10, Fig. 26.5-1A and Figs. CC-1–CC-4, and Section 26.5.2, incorporating errata of March 12, 2014

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-10 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

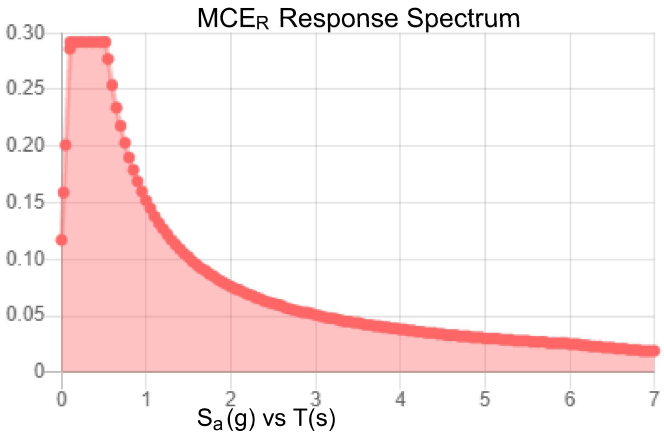
Seismic

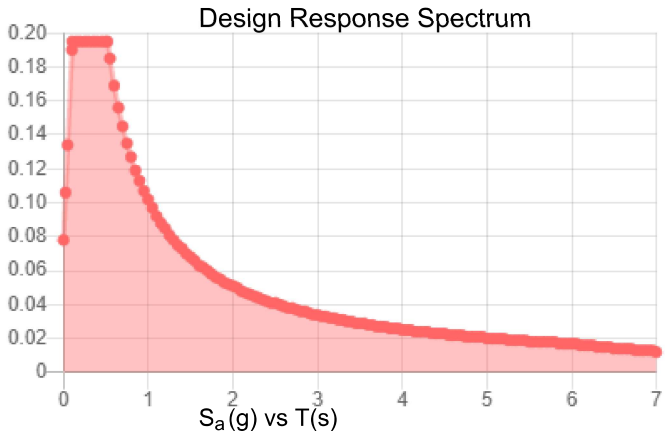
Site Soil Class: D - Stiff Soil

Results:

S_S :	0.183	S_{DS} :	0.195
S_1 :	0.063	S_{D1} :	0.102
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.093
S_{MS} :	0.292	PGA_M :	0.149
S_{M1} :	0.152	F_{PGA} :	1.6
		I_e :	1

Seismic Design Category B





Data Accessed: Mon Sep 13 2021

Date Source: USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness:	1.50 in.
Concurrent Temperature:	15 F
Gust Speed:	50 mph
Data Source:	Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8
Date Accessed:	Mon Sep 13 2021

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

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

APPENDIX F

Mount Specification Sheets

NOTES:

1.0 GENERAL
- 1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS
- 1.2 FOR PATENTS, SEE WWW.CS-PAT.COM

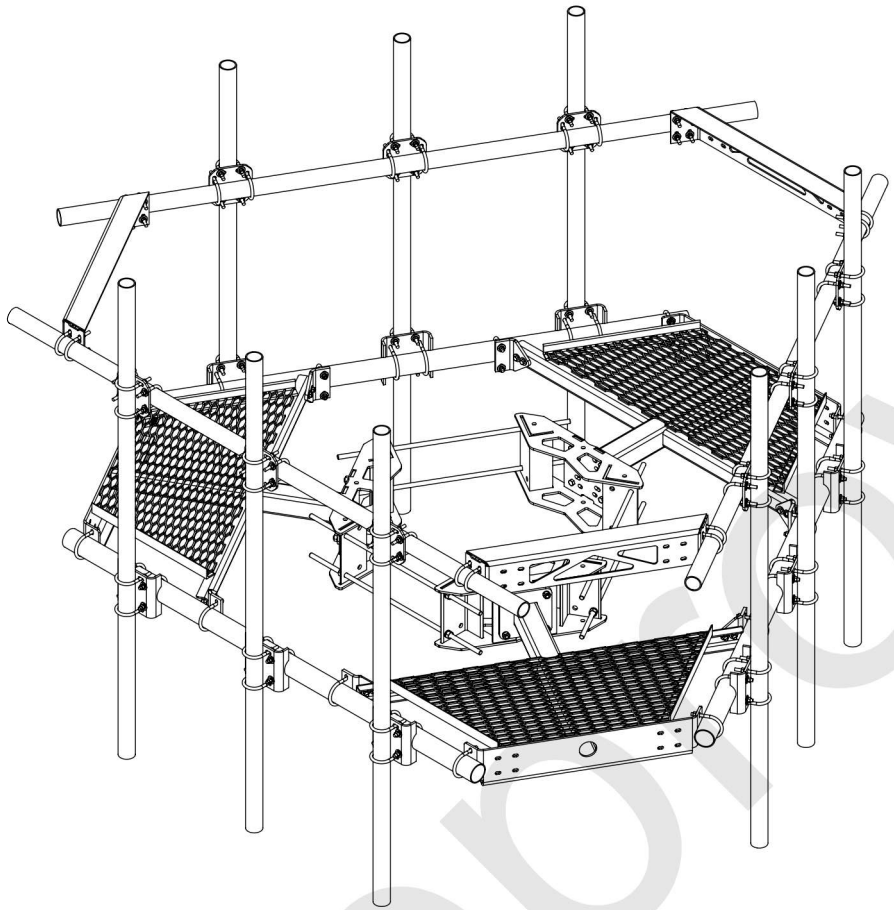
2.0 DESIGN NOTES
- 2.1 TORQUE U-BOLTS TO 44 FT-LBS

3.0 MANUFACTURING/SPECIAL REQUIREMENTS

4.0 TEST

5.0 PACKAGING

REVISIONS				
REV.	ECN	DESCRIPTION	BY	DATE
A	10272PC	INITIAL RELEASE	HDAI	03/08/2021



PATENT PENDING

DENSITY	lbs/in³
MASS	lbs
VOLUME	in³
SURFACE AREA	in²
HEIGHT	96"
LENGTH	46"
WIDTH	29'

COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES
1 PLACE .X ± .25
2 PLACE .XX ± 0.12
3 PLACE .XXX ± 0.06
ANGLES ± 2°

SAP MATERIAL MASTER: MC-PK8-DSH

FINISH: GALV A123

MATERIAL: A500, A1011/A1018

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1994

	NAME	DATE
CE	MRC	02/17/20
RW	ROGHANSON	03/16/2021
AD	BCROSS	03/17/2021
RE	FA1024	02/27/2020

ECN 10272PC

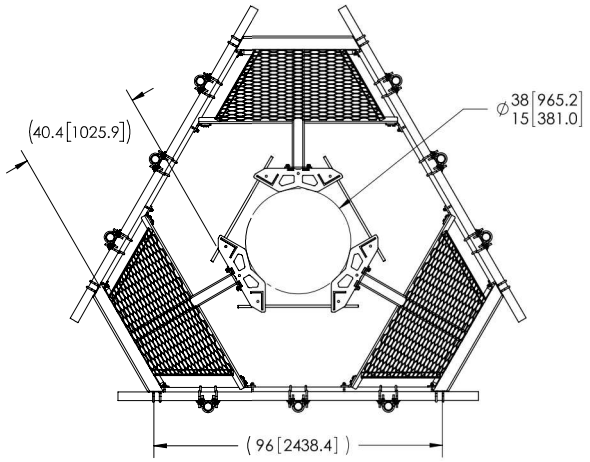
TITLE: **LOW PROFILE PLATFORM FACE**

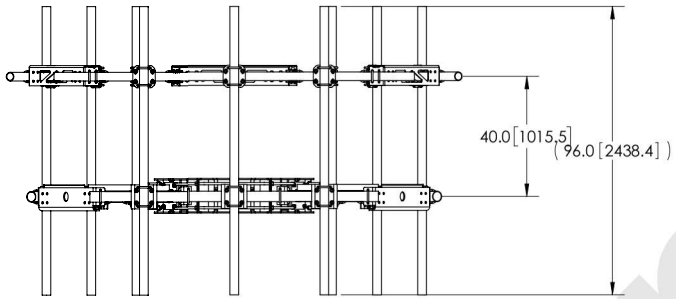
SCALE: 1:32

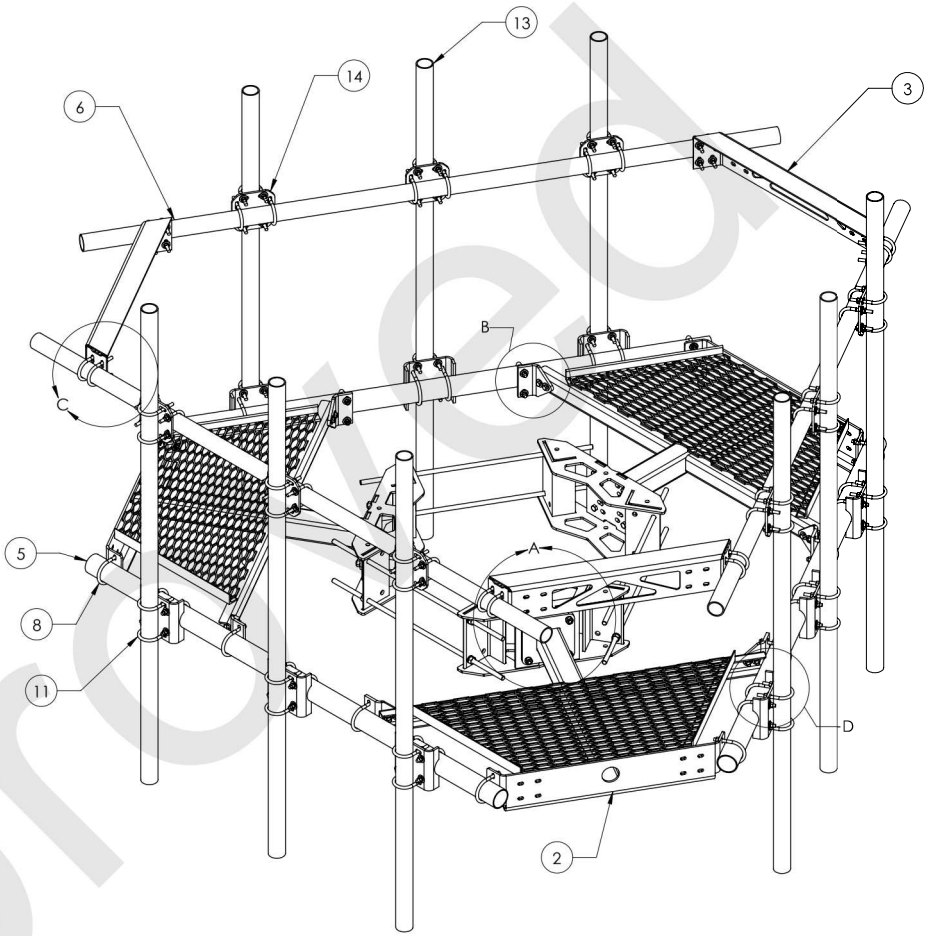
DOCUMENT NO.: MC-PK8-DSH

SIZE	Auth Group	INSL	MODEL			DRAWING			SHEET
			VERSION	STATUS	REVISION	VERSION	STATUS	REVISION	
C			01	AD		00	AD	A	1 OF 3

NOTES:







ITEM	PART NO.	DESCRIPTION	QTY.
1	MC-RM1550-3	12" - 50" OD RINGMOUNT	1
2	MTC300602	SECTOR WELDMENT FOR SNUB NOSE PLATFORM	3
3	MT195801	Corner Weldment Snub Nose Handrail	3
4	GB-0520A	5/8" X 2" GALV BOLT KIT (A325)	12
5	MT54796	3.50" OD X 96" GALV PIPE	3
6	MT546120	2.875" O.D. X 120" PIPE	3
7	GWF-04	1/2" GALV FLAT WASHER	12
8	GUB-4355	1/2" X 3-5/8" X 5" GALV U-BOLT	12
9	MTC300618	MOUNTING PLATE FOR MT-196	6
10	GB-04205	1/2" X 2" GALV BOLT KIT	12
11	MT-219M-H	3.5" OD X 2-7/8" OD Clamp Bracket Assembly	9
12	GUB-4352	1/2" X 3" X 5-1/4" GALV U-BOLT	12
13	MT54696	Ø2.875" O.D. X 96 PIPE	9
14	XP-2525	CROSSOVER PLATE KIT, 2-7/8 OD X 2-7/8 OD	9

COMMSCOPE, INC. OF NORTH CAROLINA

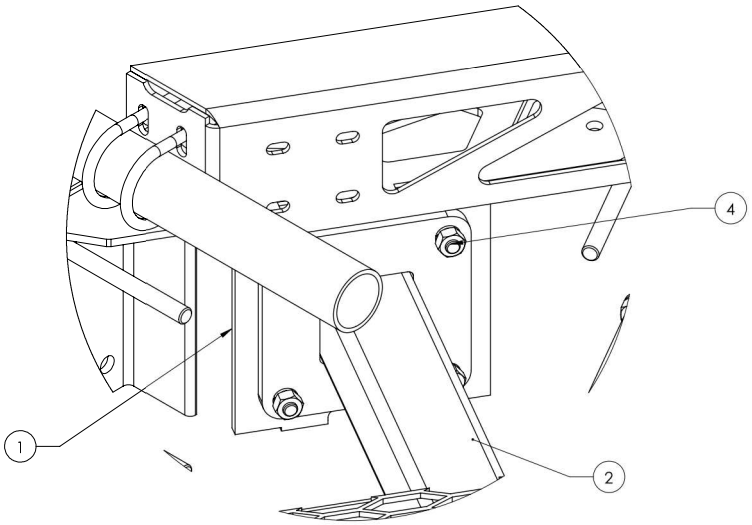
TITLE

LOW PROFILE PLATFORM FACE

SIZE	SCALE	DOCUMENT NO.
C	1:32	MC-PK8-DSH

DRAWING			SHEET
VERSION	STATUS	REVISION	
00	AD	A	

NOTES:



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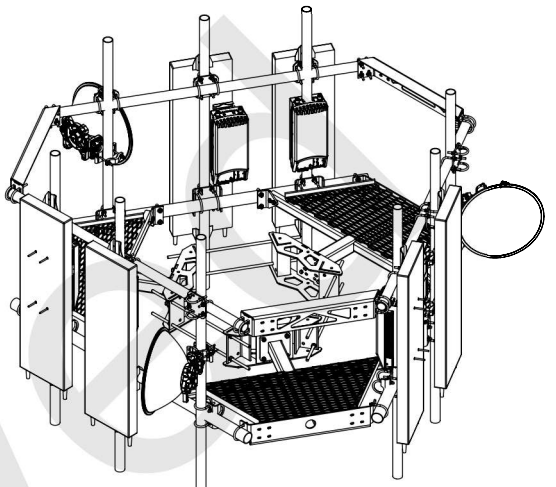
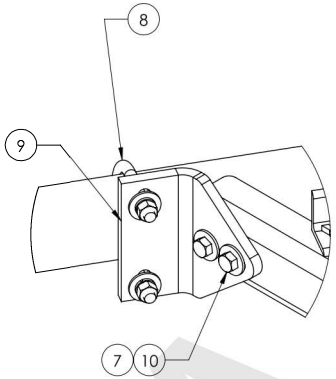


WITH ANTENNAS



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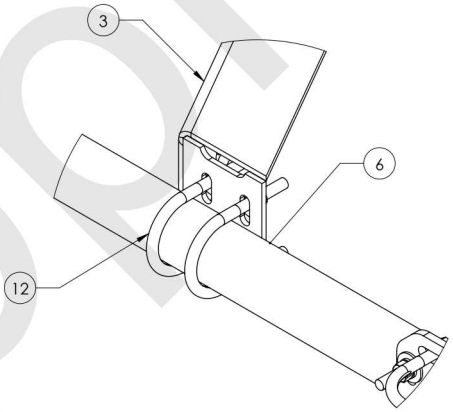

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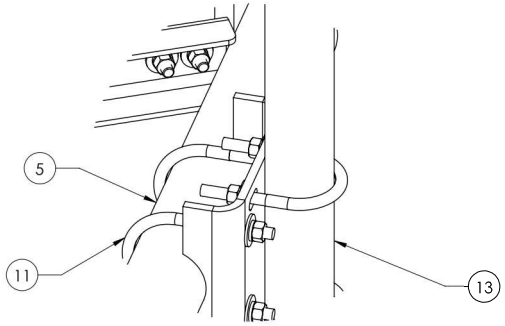


DETAIL D
SCALE 1 : 4

COMMSCOPE, INC. OF NORTH CAROLINA			
TITLE: LOW PROFILE PLATFORM FACE			
SIZE: C	SCALE: 1:24	DOCUMENT NO.: MC-PK8-DSH	
		DRAWING: VERSION 00 / STATUS AD / REVISION A	SHEET: 3 OF 3

Exhibit F

Power Density/RF Emissions Report

EBI Consulting

environmental | engineering | due diligence

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

Dish Wireless Existing Facility

Site ID: BOBDL00057A

826217
240 Kensington Road
Berlin, Connecticut 06037

November 18, 2021

EBI Project Number: 6221007180

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**20.58%**

21 B Street, Burlington, MA 01803 · Tel: (781) 273.2500 · Fax: (781) 273.3311

November 18, 2021

Dish Wireless

Emissions Analysis for Site: BOBDL00057A - 826217

EBI Consulting was directed to analyze the proposed Dish Wireless facility located at **240 Kensington Road** in **Berlin, Connecticut** for the purpose of determining whether the emissions from the Proposed Dish Wireless Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu W/cm^2$). The number of $\mu W/cm^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits; therefore, it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu W/cm^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately 400 $\mu W/cm^2$ and 467 $\mu W/cm^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is 1000 $\mu W/cm^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure.

Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed Dish Wireless Wireless antenna facility located at 240 Kensington Road in Berlin, Connecticut using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since Dish Wireless is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 20 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report, the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

1) 4 n71 channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.

2) 4 n70 channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.

3) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.

4) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 20 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

5) The antennas used in this modeling are the JMA MX08FRO665-21 for the 600 MHz / 1900 MHz channel(s) in Sector A, the JMA MX08FRO665-21 for the 600 MHz / 1900 MHz channel(s) in Sector B, the JMA MX08FRO665-21 for the 600 MHz / 1900 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 20 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

6) The antenna mounting height centerline of the proposed antennas is 171 feet above ground level (AGL).

7) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

8) All calculations were done with respect to uncontrolled / general population threshold limits.

Dish Wireless Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	JMA MX08FRO665-21	Make / Model:	JMA MX08FRO665-21	Make / Model:	JMA MX08FRO665-21
Frequency Bands:	600 MHz / 1900 MHz	Frequency Bands:	600 MHz / 1900 MHz	Frequency Bands:	600 MHz / 1900 MHz
Gain:	17.45 dBd / 22.65 dBd	Gain:	17.45 dBd / 22.65 dBd	Gain:	17.45 dBd / 22.65 dBd
Height (AGL):	171 feet	Height (AGL):	171 feet	Height (AGL):	171 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	280 Watts	Total TX Power (W):	280 Watts	Total TX Power (W):	280 Watts
ERP (W):	3,065.51	ERP (W):	3,065.51	ERP (W):	3,065.51
Antenna A1 MPE %:	**0.58%**	Antenna B1 MPE %:	**0.58%**	Antenna C1 MPE %:	**0.58%**

Site Composite MPE %	
Carrier	**MPE %**
Dish Wireless (Max at Sector A):	0.58%
AT&T	1.64%
Clearwire	0.14%
Metro PCS	0.23%
T-Mobile	3.88%
Sprint	5.47%
Town	5.61%
Verizon	3.03%
Site Total MPE % :	20.58%

Dish Wireless MPE % Per Sector	
Dish Wireless Sector A Total:	0.58%
Dish Wireless Sector B Total:	0.58%
Dish Wireless Sector C Total:	0.58%
Site Total MPE % :	20.58%

Dish Wireless Maximum MPE Power Values (Sector A)

Dish Wireless Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
Dish Wireless 600 MHz n71	4	223.68	171.0	1.18	600 MHz n71	400	0.30%
Dish Wireless 1900 MHz n70	4	542.70	171.0	2.87	1900 MHz n70	1000	0.29%
						Total:	**0.58%**

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the Dish Wireless facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

Dish Wireless Sector	Power Density Value (%)
Sector A:	0.58%
Sector B:	0.58%
Sector C:	0.58%
Dish Wireless Maximum MPE % (Sector A):	0.58%
Site Total:	20.58%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **20.58%** of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

Exhibit G

Letter of Authorization

4545 E River Rd, Suite 320
West Henrietta, NY 14586

Phone: (585) 445-5896
Fax: (724) 416-4461
www.crowncastle.com

Crown Castle Letter of Authorization

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

Re: Tower Share Application
Crown Castle telecommunications site at:
240 KENSINGTON ROAD, BERLIN, CT 06037

T-MOBILE USA TOWER LLC ("Crown Castle") hereby authorizes DISH Wireless, LLC, including their Agent, to act as our Agent in the processing of all zoning applications, building permits and approvals through the CT - CONNECTICUT SITING COUNCIL for the existing wireless communications site described below:

Crown Site ID/Name: **826217/Newington_1**
Customer Site ID: **BOBDL00057A/CT-CCI-T-826217**
Site Address: **240 Kensington Road, Berlin, CT 06037**

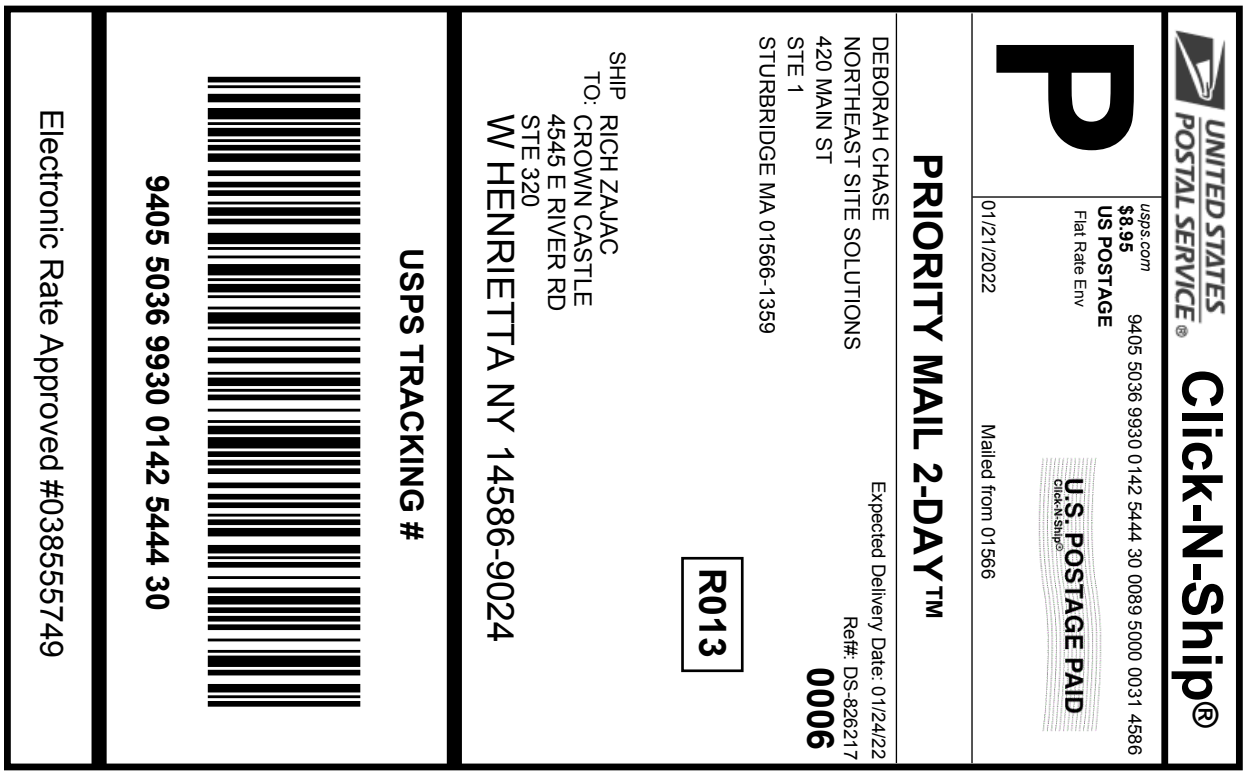
Crown Castle

By: _____ Date: 1/7/2022

Richard Zajac
Site Acquisition Specialist

Exhibit H

Recipient Mailings



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2. **Place your label so it does not wrap around the edge of the package.**
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5. **Mail your package on the "Ship Date" you selected when creating this label.**

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9405 5036 9930 0142 5444 30

Trans. #:	554596636
Print Date:	01/21/2022
Ship Date:	01/21/2022
Expected Delivery Date:	01/24/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: DS-826217

To: RICH ZAJAC
CROWN CASTLE
4545 E RIVER RD
STE 320
W HENRIETTA NY 14586-9024

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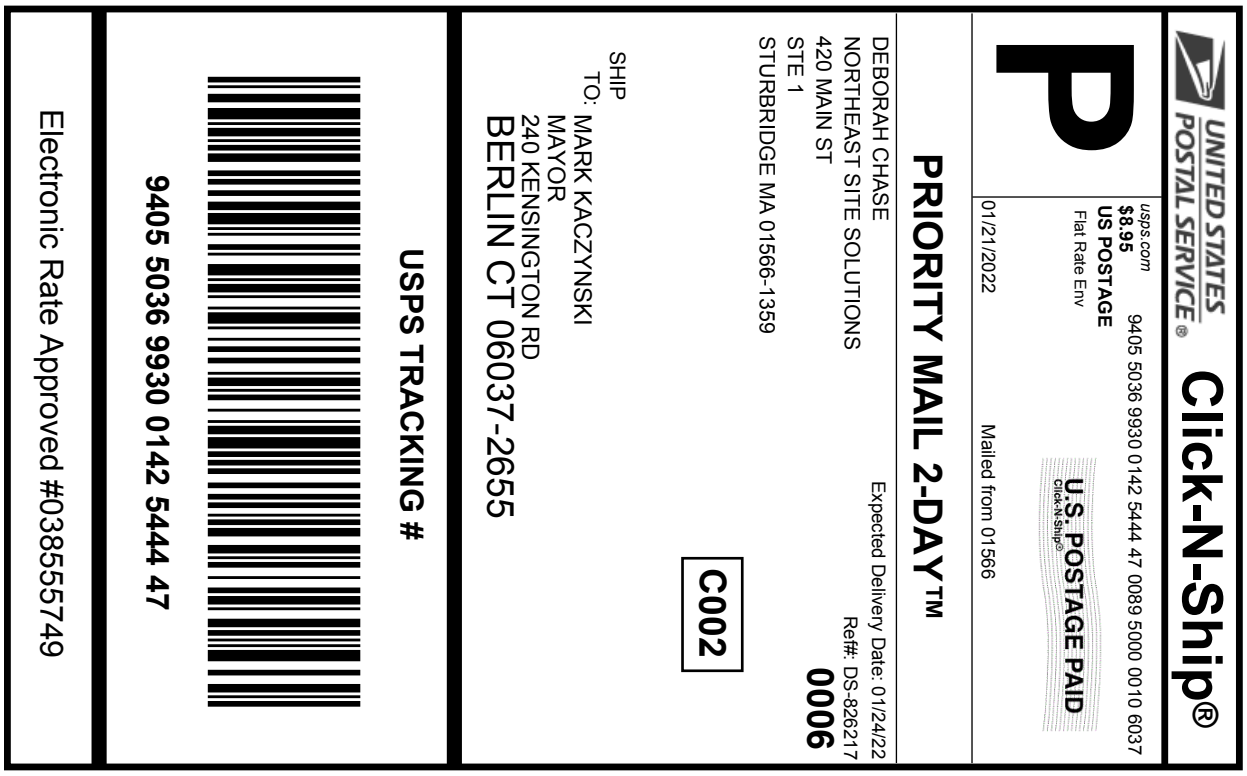

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9405 5036 9930 0142 5444 47

Trans. #:	554596636
Print Date:	01/21/2022
Ship Date:	01/21/2022
Expected Delivery Date:	01/24/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: DS-826217

To: MARK KACZYNSKI
MAYOR
240 KENSINGTON RD
BERLIN CT 06037-2655

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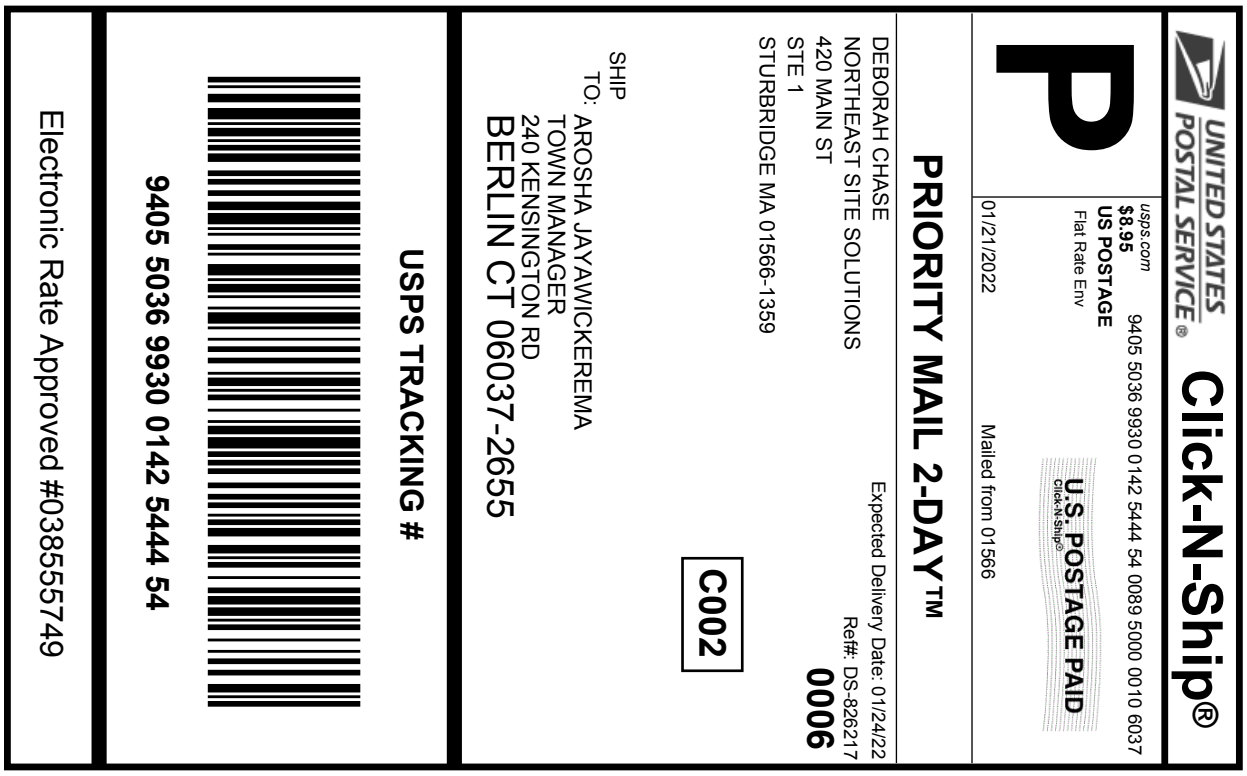

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9405 5036 9930 0142 5444 54

Trans. #:	554596636
Print Date:	01/21/2022
Ship Date:	01/21/2022
Expected Delivery Date:	01/24/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: DS-826217

To: AROSHA JAYAWICKEREMA
TOWN MANAGER
240 KENSINGTON RD
BERLIN CT 06037-2655

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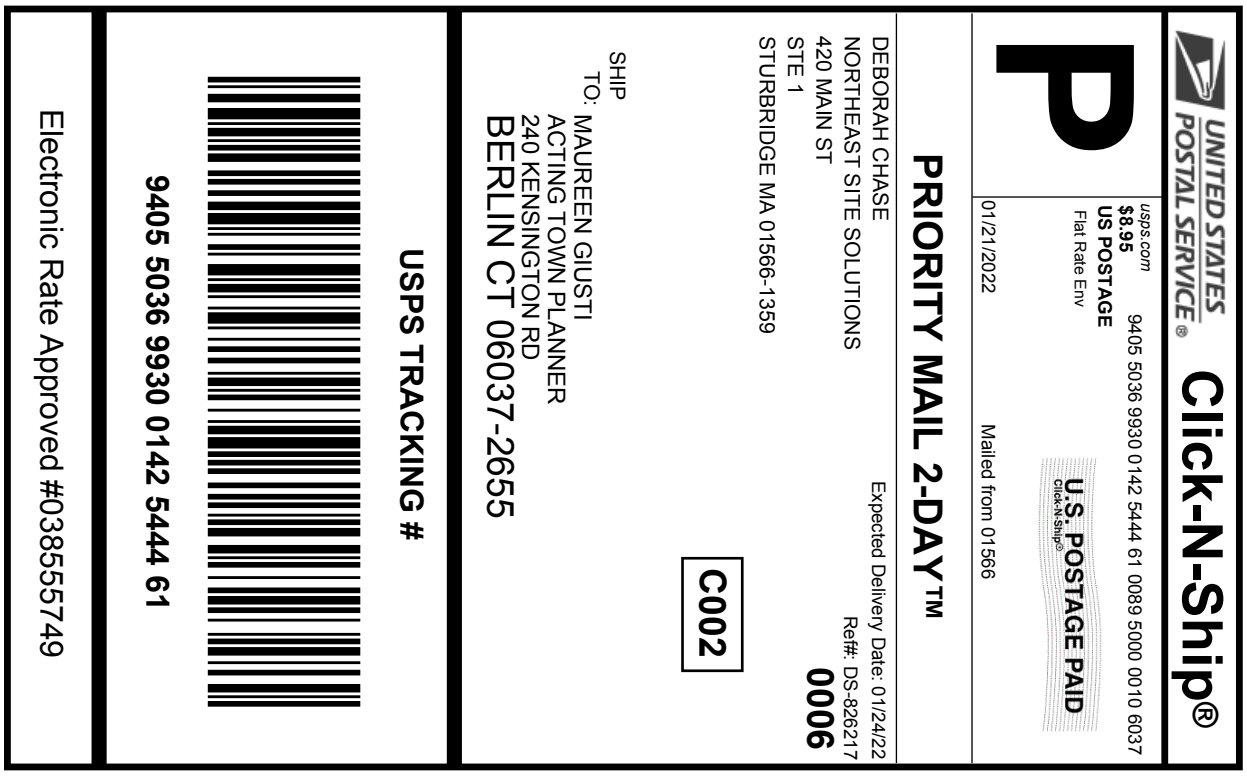

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Trans. #:	554596636
Print Date:	01/21/2022
Ship Date:	01/21/2022
Expected Delivery Date:	01/24/2022

Priority Mail® Postage:	**$8.95**
Total:	**$8.95**

From: DEBORAH CHASE
NORTHEAST SITE SOLUTIONS
420 MAIN ST
STE 1
STURBRIDGE MA 01566-1359

Ref#: DS-826217

To: MAUREEN GIUSTI
ACTING TOWN PLANNER
240 KENSINGTON RD
BERLIN CT 06037-2655

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UNITED STATES POSTAL SERVICE.

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210 MAIN ST
FARMINGTON, CT 06032-9998
(800)275-8777

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Product	Qty	Unit Price	Price
Prepaid Mail West Henrietta, NY 14586 Weight: 0 lb 1.90 oz Acceptance Date: Wed 01/26/2022 Tracking #: 9405 5036 9930 0142 5444 30	1		$0.00
Prepaid Mail Berlin, CT 06037 Weight: 0 lb 7.20 oz Acceptance Date: Wed 01/26/2022 Tracking #: 9405 5036 9930 0142 5444 47	1		$0.00
Prepaid Mail Berlin, CT 06037 Weight: 0 lb 7.20 oz Acceptance Date: Wed 01/26/2022 Tracking #: 9405 5036 9930 0142 5444 61	1		$0.00
Prepaid Mail Berlin, CT 06037 Weight: 0 lb 7.20 oz Acceptance Date: Wed 01/26/2022 Tracking #: 9405 5036 9930 0142 5444 54	1		$0.00