



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

May 18, 2022

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

RE: Tower Share Application
218 Wheeler Road, Torrington, CT 06790
Latitude: 41.780638
Longitude: -73.136055
Site #: 828540_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 218 Wheeler Road (a/k/a Richard Road), Torrington, Connecticut.

Dish Wireless LLC proposes to install three (3) 600/1900 MHz 5G antennas and six (6) RRUs, at the 120-foot level of the existing 160-foot tower, one (1) Fiber cable will also be installed. Dish Wireless LLC equipment cabinets will be placed within a 7' x 5' lease area within the existing fenced compound. Included are plans by NB+C, dated May 11, 2022, Exhibit C. Also included is a structural analysis prepared by Crown Castle, dated July 22, 2021, confirming that the existing tower is structurally capable of supporting the proposed equipment. Attached as Exhibit D. The facility was originally approved by the City of Torrington; however, a copy of the original decision was not available.

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 Elinor Carbone and Jeremy Leifert, City Planner for the City of Torrington, as well as the tower owner (Crown Castle) and property owner (Lucille Lefebvre).

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 existing tower is 160-feet and the Dish Wireless LLC antennas will be located at a centerline height of 120-feet.
2. The proposed modifications will not result in an increase of the site boundary as depicted on the attached site plan.



NSS **NORTHEAST**
SITE SOLUTIONS

Turnkey Wireless Development

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.

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. The combined site operations will result in a total power density of 27.29% 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 submits that the shared use of this facility satisfies these criteria.

A. Technical Feasibility. The existing tower 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 tower in Torrington. 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 120-foot level of the existing 160-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 Torrington.

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



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Turnkey Wireless Development

Attachments

Cc: Mayor Elinor Carbone
City of Torrington
140 Main Street
Torrington, CT 06790

Jeremy Leifert - City Planner
140 Main Street - Room 324
Torrington, CT 06790

Lucille Lefebvre - Property Owner
C/O Lorraine Fabbri
264 Cathole Road
Litchfield, CT 06759

Crown Castle - Tower Owner

Exhibit A

Original Facility Approval

Exhibit B

Property Card



Property Information

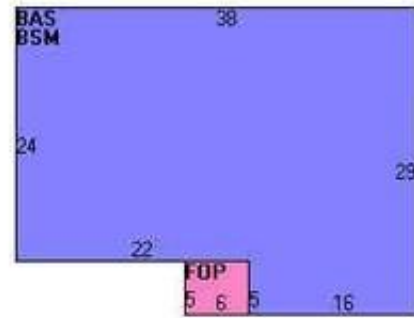
Property Location	218 WHEELER RD
Owner	LEFEBVRE LUCILLE G
Co-Owner	C/O FABBRI LORRAINE
Mailing Address	264 CATHOLE RD LITCHFIELD CT 06759-3124
Land Use	101 Res Dwelling
Land Class	R
Zoning Code	5
Census Tract	3

Street Index	170
Acreage	4
Utilities	UNKNOWN
Lot Setting/Desc	UNKNOWN UNKNOWN
Additional Info	

Photo



Sketch



Primary Construction Details

Year Built	1955
Stories	1.00
Building Style	Ranch
Building Use	Residential
Building Condition	A
Interior Floors 1	Hardwood
Interior Floors 2	NA
Total Rooms	5
Basement Garages	
Occupancy	1.00
Building Grade	C

Bedrooms	3 Bedrooms
Full Bathrooms	1
Half Bathrooms	0
Extra Fixtures	0
Bath Style	Average
Kitchen Style	Average
Roof Style	Gable
Roof Cover	Asphalt
AC Type	None
Fireplaces	1

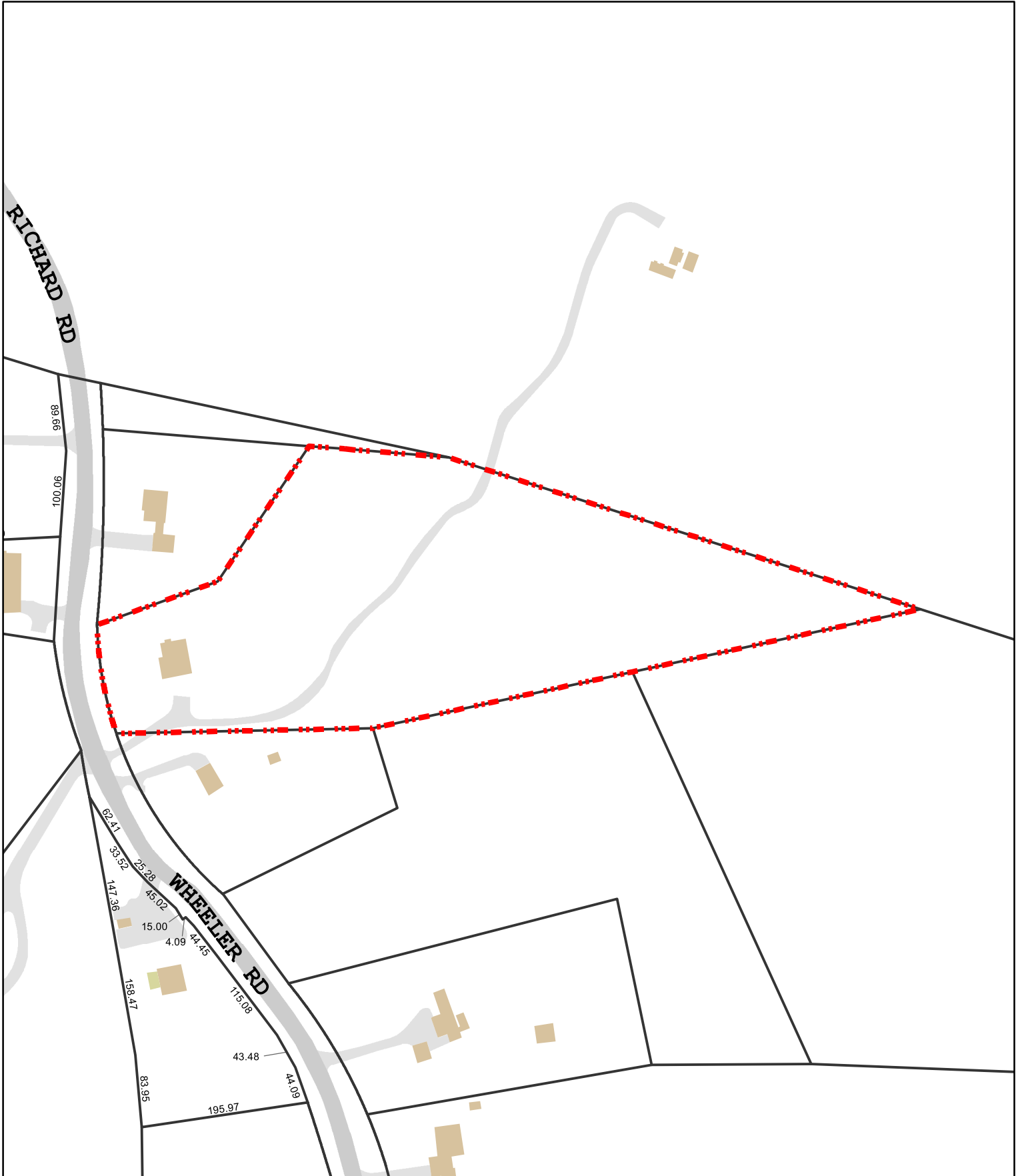
Exterior Walls	Brick
Exterior Walls 2	NA
Interior Walls	Drywall
Interior Walls 2	NA
Heating Type	Hot Water
Heating Fuel	Oil
Sq. Ft. Basement	
Fin BSMT Quality	
Extra Kitchens	



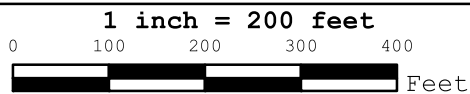
Town of Litchfield, CT: Parcel Map

MBL: 147-01A-003

LOCATION: 218 WHEELER RD



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



Map Produced
 May 2021

Exhibit C

Construction Drawings



DISH Wireless L.L.C. SITE ID:

BOHVN00201A

DISH Wireless L.L.C. SITE ADDRESS:

**218 WHEELER ROAD
TORRINGTON, CT 06790**

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:
<ul style="list-style-type: none"> • INSTALL (3) PROPOSED PANEL ANTENNAS (1 PER SECTOR) • INSTALL (1) PROPOSED ANTENNA PLATFORM MOUNT • INSTALL PROPOSED JUMPERS • INSTALL (6) PROPOSED RRU's (2 PER SECTOR) • INSTALL (1) PROPOSED OVER VOLTAGE PROTECTION DEVICE (OVP) • INSTALL (1) PROPOSED HYBRID CABLE • INSTALL (3) DOUBLE Z-BRACKETS (1 PER SECTOR) • REMOVE EXISTING ABANDONED ANTENNA MOUNT
GROUND SCOPE OF WORK:
<ul style="list-style-type: none"> • INSTALL (1) PROPOSED METAL PLATFORM • 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 FIBER NID • REMOVE (1) GENERATOR PAD • REMOVE (1) CONCRETE PAD • REMOVE (1) H-FRAME

SITE INFORMATION	PROJECT DIRECTORY
PROPERTY OWNER: LUCILLE LEFEBVRE ADDRESS: 264 CATHOLE ROAD CT 06759	APPLICANT: DISH WIRELESS, LLC. 5701 SOUTH SANTA FE DRIVE LITTLETON, CO 80120
TOWER TYPE: MONOPOLE	TOWER OWNER: CROWN CASTLE USA INC. 2000 CORPORATE DR. CANONSBURG, PA 15317 (877) 486-9377
TOWER CO SITE ID: 828540	SITE DESIGNER: NB+C ENGINEERING SERVICES 8601 SIX FORKS RD, SUITE 540 RALEIGH, NC 27615 (919) 657-9131
TOWER APP NUMBER: 553393	
COUNTY: LITCHFIELD	SITE ACQUISITION: CORWIN DIXON CORWIN.DIXON@CROWNCastle.COM
LATITUDE (NAD 83): 41° 46' 50.33" N 41.780647 N	CONSTRUCTION MANAGER: JAVIER SOTO JAVIER.SOTO@DISH.COM
LONGITUDE (NAD 83): -73° 8' 10.02" W -73.136117 W	RF ENGINEER: SYED ZAIDI SYED.ZAIDI@DISH.COM
ZONING JURISDICTION: LITCHFIELD COUNTY	
ZONING DISTRICT: 5	
PARCEL NUMBER: LITC-000012-000101	
OCCUPANCY GROUP: U	
CONSTRUCTION TYPE: II-B	
POWER COMPANY: CONNECTICUT LIGHT & POWER CO	
TELEPHONE COMPANY: TBD	

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

TOTALLY COMMITTED.
NB+C ENGINEERING SERVICES, LLC.
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(919) 657-9131

05/11/2022
KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

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

CONNECTICUT CODE 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:								
<table border="0"> <tr> <td>CODE TYPE</td> <td>CODE</td> </tr> <tr> <td>BUILDING</td> <td>2018 CT STATE BUILDING CODE/2015 IBC W/ CT AMENDMENTS</td> </tr> <tr> <td>MECHANICAL</td> <td>2018 CT STATE BUILDING CODE/2015 IMC W/ CT AMENDMENTS</td> </tr> <tr> <td>ELECTRICAL</td> <td>2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS</td> </tr> </table>	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
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ELECTRICAL	2018 CT STATE BUILDING CODE/2017 NEC W/ CT AMENDMENTS							

SHEET INDEX	
SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
A-1	OVERALL AND ENLARGED SITE PLAN
A-2	ELEVATION, ANTENNA LAYOUT AND SCHEDULE
A-3	EQUIPMENT PLATFORM AND H-FRAME DETAILS
A-4	EQUIPMENT DETAILS
A-5	EQUIPMENT DETAILS
A-6	EQUIPMENT DETAILS
E-1	ELECTRICAL/FIBER ROUTE PLAN AND NOTES
E-2	ELECTRICAL DETAILS
E-3	ELECTRICAL ONE-LINE, FAULT CALCS & PANEL SCHEDULE
G-1	GROUNDING PLANS AND NOTES
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
RF-1	RF CABLE COLOR CODE
GN-1	LEGEND AND ABBREVIATIONS
GN-2	GENERAL NOTES
GN-3	GENERAL NOTES
GN-4	GENERAL NOTES



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

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.

DIRECTIONS

DIRECTIONS FROM BRADLEY INTERNATIONAL AIRPORT :
START OUT GOING NORTHWEST ON SCHOEPHOESTER RD TOWARD BRADLEY INTERNATIONAL AIRPORT CONNECTOR. SCHOEPHOESTER RD BECOMES BRADLEY INTERNATIONAL AIRPORT CONNECTOR. TURN LEFT TO STAY ON BRADLEY INTERNATIONAL AIRPORT CONNECTOR. MERGE ONTO CT-20 W TOWARD E GRANBY/GRANBY. TURN LEFT ONTO BARKHAMSTED RD/CT-219. CONTINUE TO FOLLOW CT-219. CT-219 IS 0.1 MILES PAST HIGLEY RD IF YOU REACH FOX RD YOU'VE GONE ABOUT 0.1 MILES TOO FAR TURN LEFT ONTO E HARTLAND RD/CT-219. CONTINUE TO FOLLOW E HARTLAND RD/CT-219. TURN SLIGHT RIGHT ONTO SAVILLE DAM RD/CT-318. TURN LEFT ONTO PLEASANT VALLEY RD/CT-181/CT-318. CONTINUE TO FOLLOW CT-318. TURN RIGHT ONTO NEW HARTFORD RD/US-44 W. CONTINUE TO FOLLOW US-44 W. MERGE ONTO CT-8 S VIA THE RAMP ON THE LEFT TOWARD WATERBURY/TORRINGTON. TURN LEFT ONTO WINSTED RD. 06790, CT, WELCOME TO TORRINGTON, CT.

VICINITY MAP

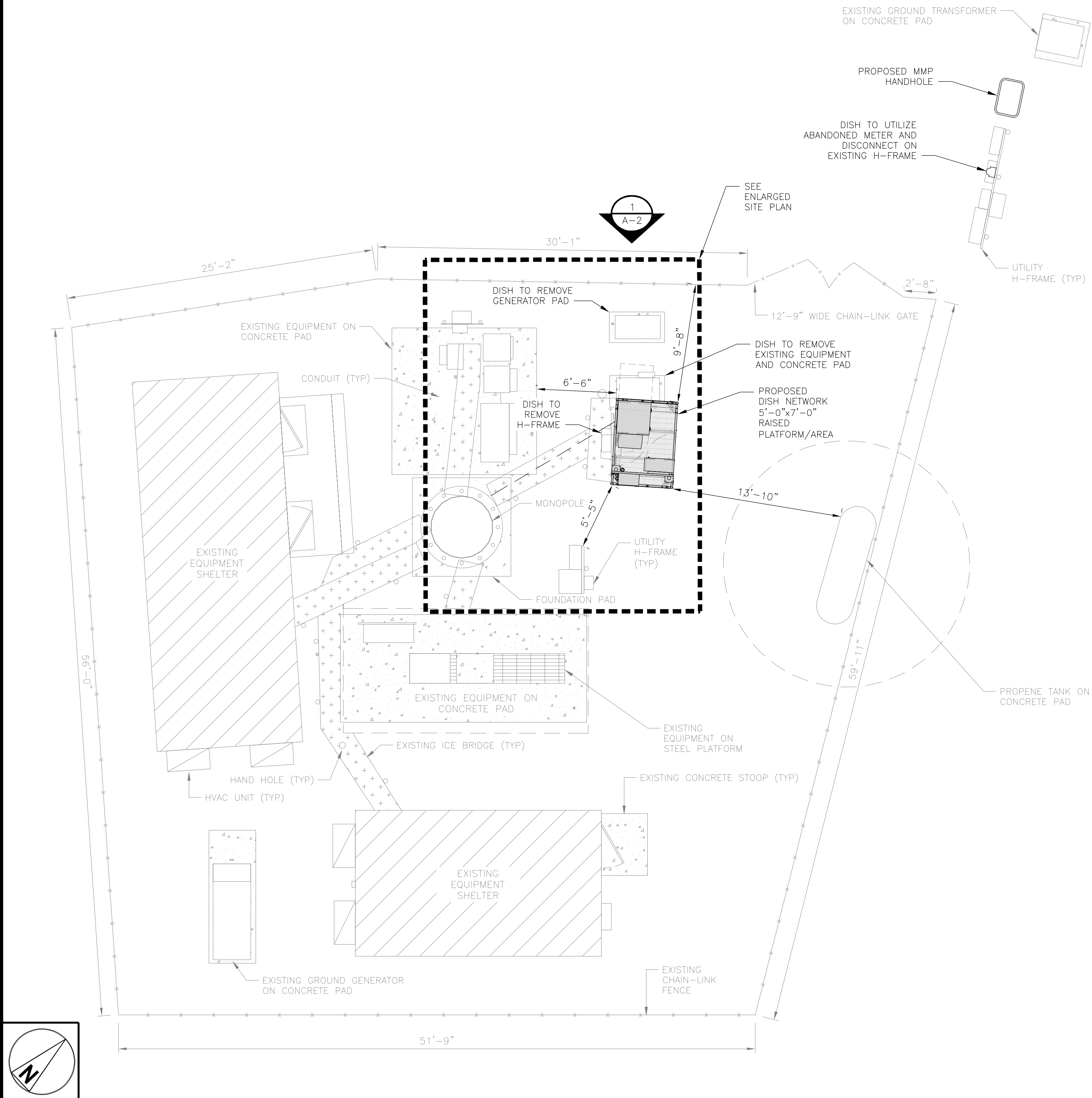
SITE LOCATION

NO SCALE

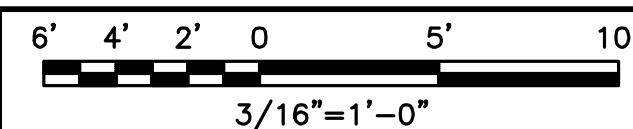
DRAWN BY: AN	CHECKED BY: BRN	APPROVED BY: TA
RFDS REV #:	---	
CONSTRUCTION DOCUMENTS		
SUBMITTALS		
REV	DATE	DESCRIPTION
0	12/21/2021	ISSUED FOR CONSTRUCTION
1	03/01/2022	ISSUED FOR CONSTRUCTION
2	05/11/2022	ISSUED FOR CONSTRUCTION
A&E PROJECT NUMBER 828540		
DISH WIRELESS, LLC. PROJECT INFORMATION BOHVN00201A 218 WHEELER ROAD TORRINGTON, CT 06790		
SHEET TITLE TITLE SHEET		
SHEET NUMBER T-1		

NOTES

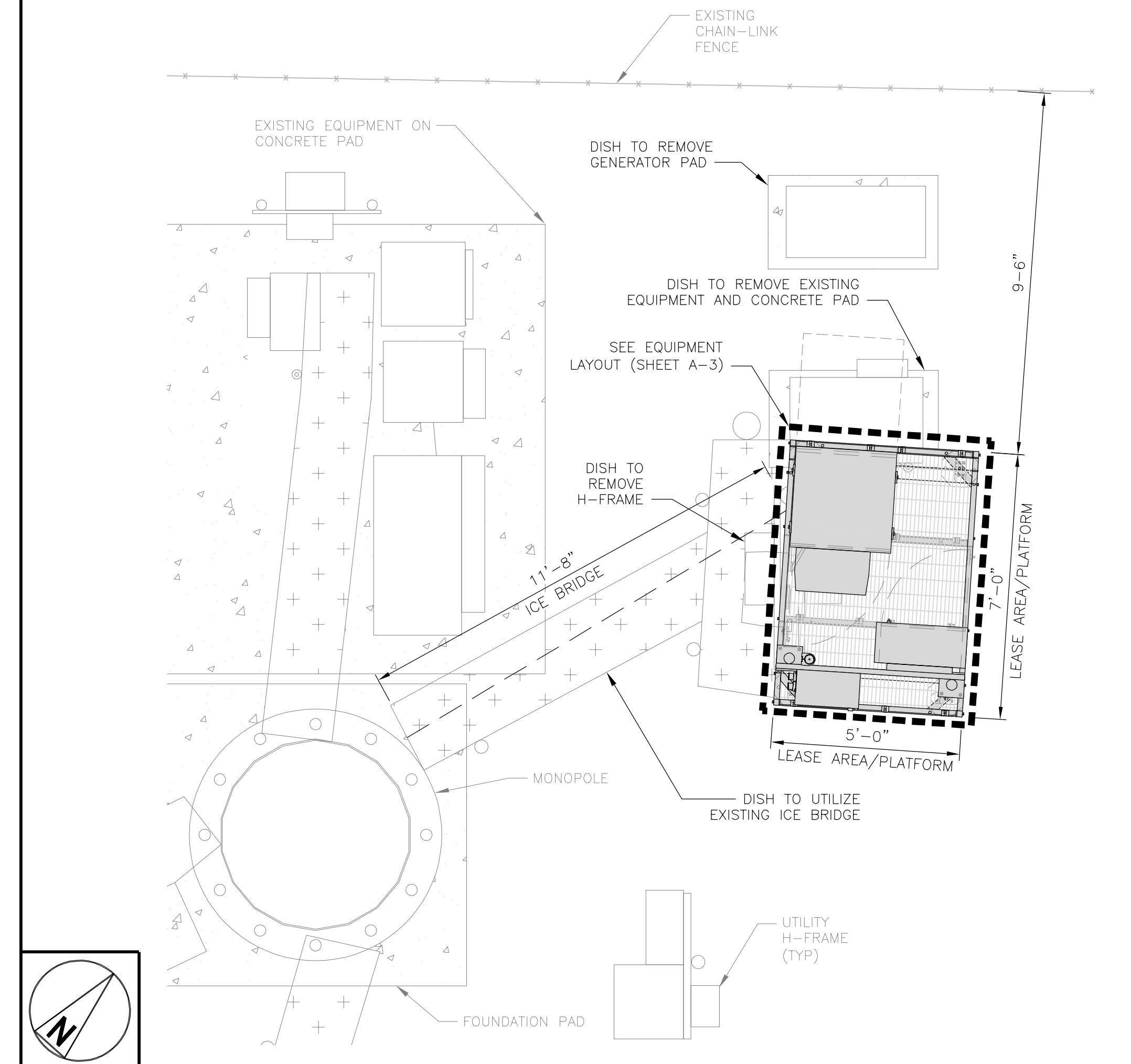
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. CONTRACTOR SHALL MAINTAIN A 10'-0" MINIMUM SEPARATION BETWEEN THE PROPOSED GPS UNIT, TRANSMITTING ANTENNAS AND EXISTING GPS UNITS.
3. ANTENNAS AND MOUNTS OMITTED FOR CLARITY.



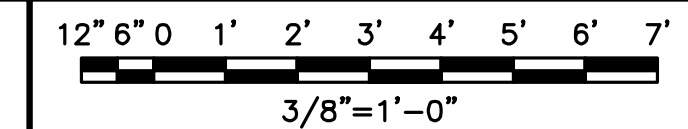
OVERALL SITE PLAN



1



ENLARGED SITE PLAN



2



AERIAL VIEW

3

dish
wireless.

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

NB+C
TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
8601 SIX FORKS ROAD, SUITE 540
RALEIGH, NC 27615
(919) 657-9131



05/11/2022

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

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AN	BRN	TA

RFDS REV #: ---

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PROJECT INFORMATION

BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

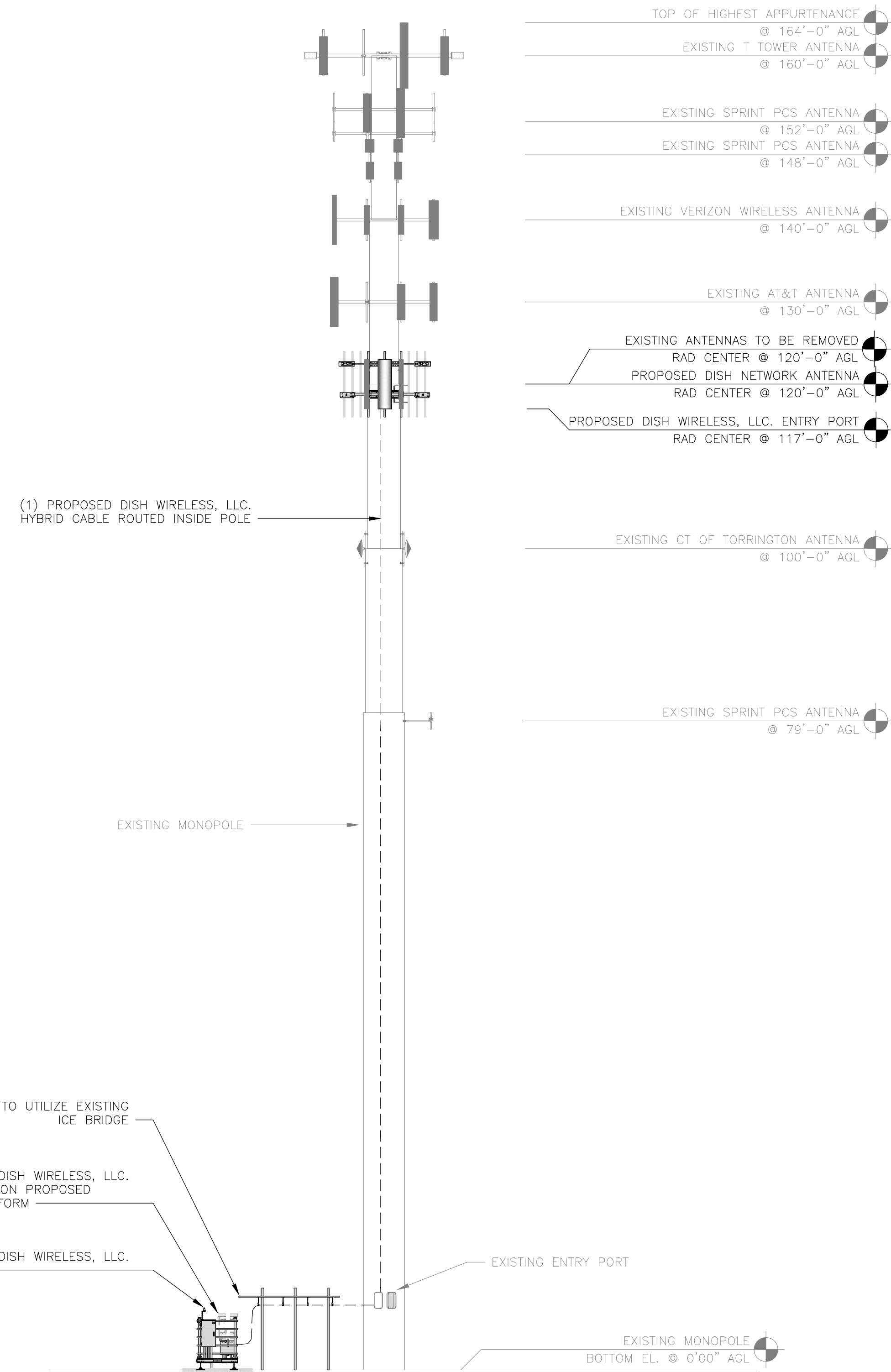
SHEET TITLE
OVERALL AND ENLARGED
SITE PLAN

SHEET NUMBER

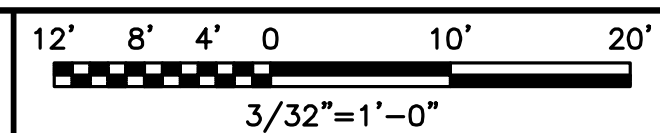
A-1

NOTES

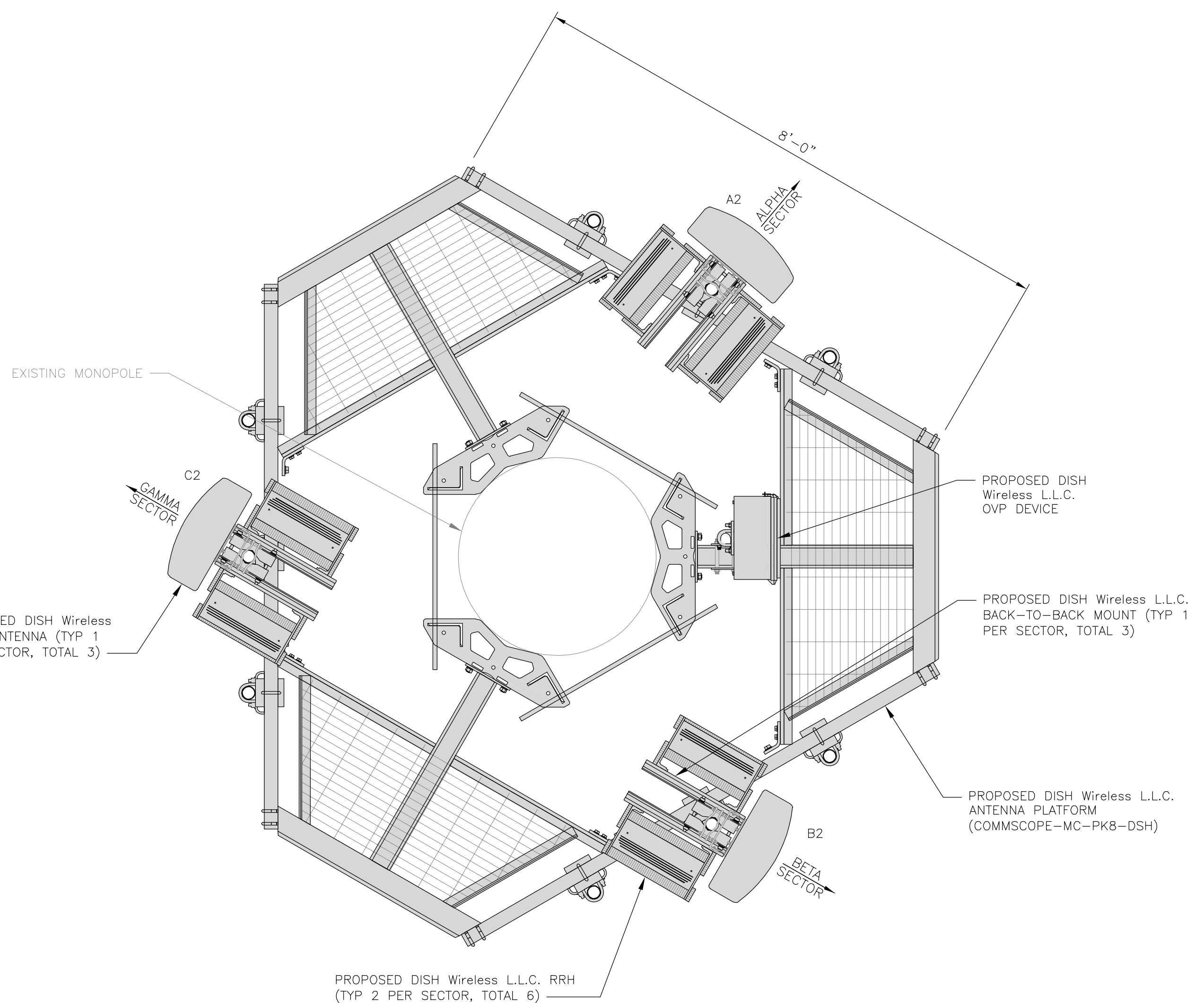
1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
2. ANTENNA AND MW DISH SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS
3. EXISTING EQUIPMENT AND FENCE OMITTED FOR CLARITY.



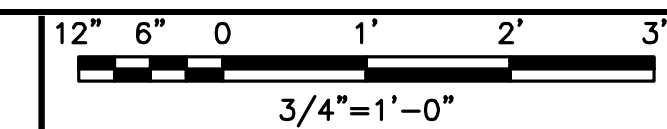
PROPOSED NORTH ELEVATION



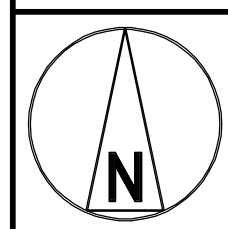
1



ANTENNA LAYOUT



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.
A1	--	--	--	--	--	(1) HIGH-CAPACITY 1.5" DIA. HYBRID CABLE (161' LONG)	FUJITSU - TA08025-B604	5G	A2	RAYCAP - RDIDC-9181 -PF-48
A2	PROPOSED	JMA - MX08FR0665-21	5G	40'	120'-0"		FUJITSU - TA08025-B605	5G	A2	
A3	--	--	--	--	--		--	--	--	
B1	--	--	--	--	--	SHARED W/ALPHA	FUJITSU - TA08025-B604	5G	B2	SHARED W/ALPHA
B2	PROPOSED	JMA - MX08FR0665-21	5G	120'	120'-0"		FUJITSU - TA08025-B605	5G	B2	
B3	--	--	--	--	--		--	--	--	
C1	--	--	--	--	--	SHARED W/ALPHA	FUJITSU - TA08025-B604	5G	C2	SHARED W/ALPHA
C2	PROPOSED	JMA - MX08FR0665-21	5G	300'	120'-0"		FUJITSU - TA08025-B605	5G	C2	
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



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



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CHECKED BY: BRN
APPROVED BY: TA

RFDS REV #: ---

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PROJECT INFORMATION
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218 WHEELER ROAD
TORRINGTON, CT 06790

SHEET TITLE
ELEVATION, ANTENNA LAYOUT AND SCHEDULE

SHEET NUMBER
A-2



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



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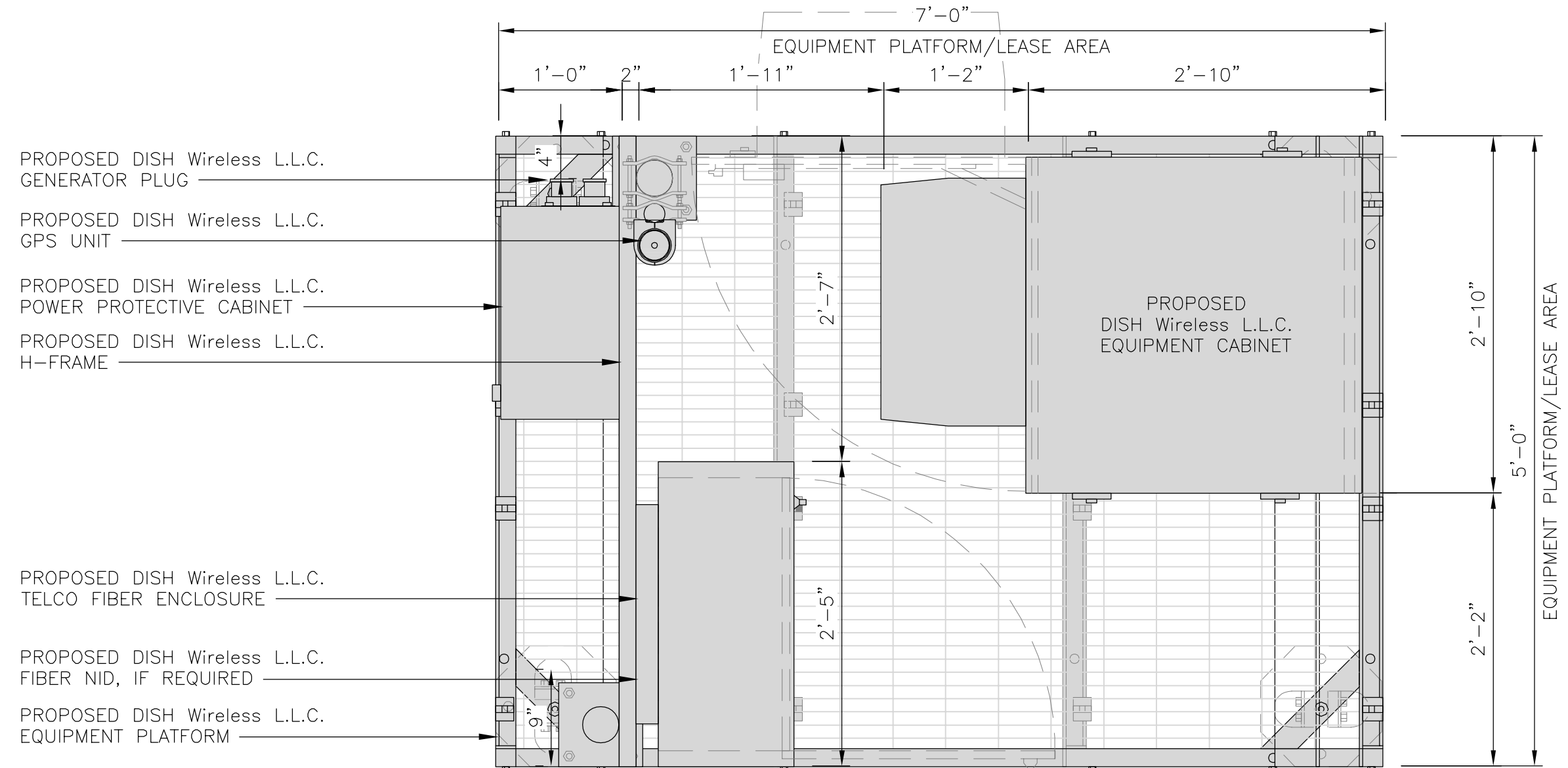
SHEET TITLE
EQUIPMENT PLATFORM AND H-FRAME DETAIL

SHEET NUMBER

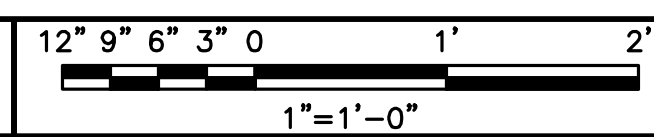
A-3

NOTES

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



PLATFORM EQUIPMENT PLAN

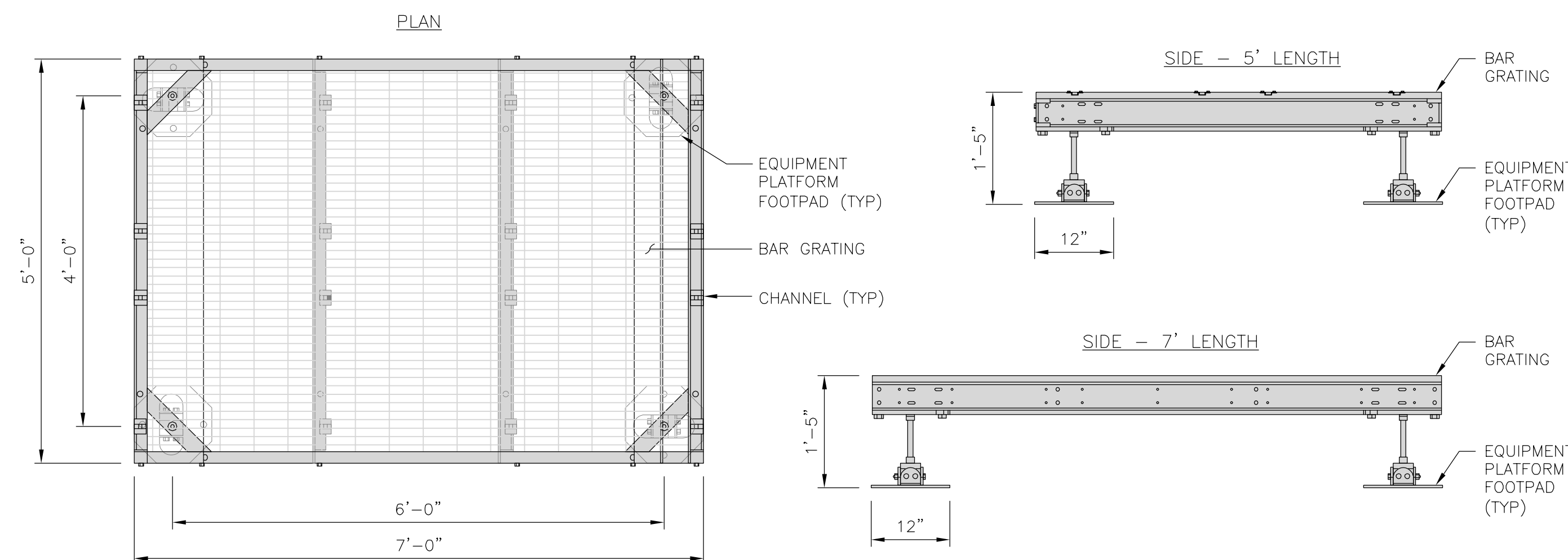


1

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

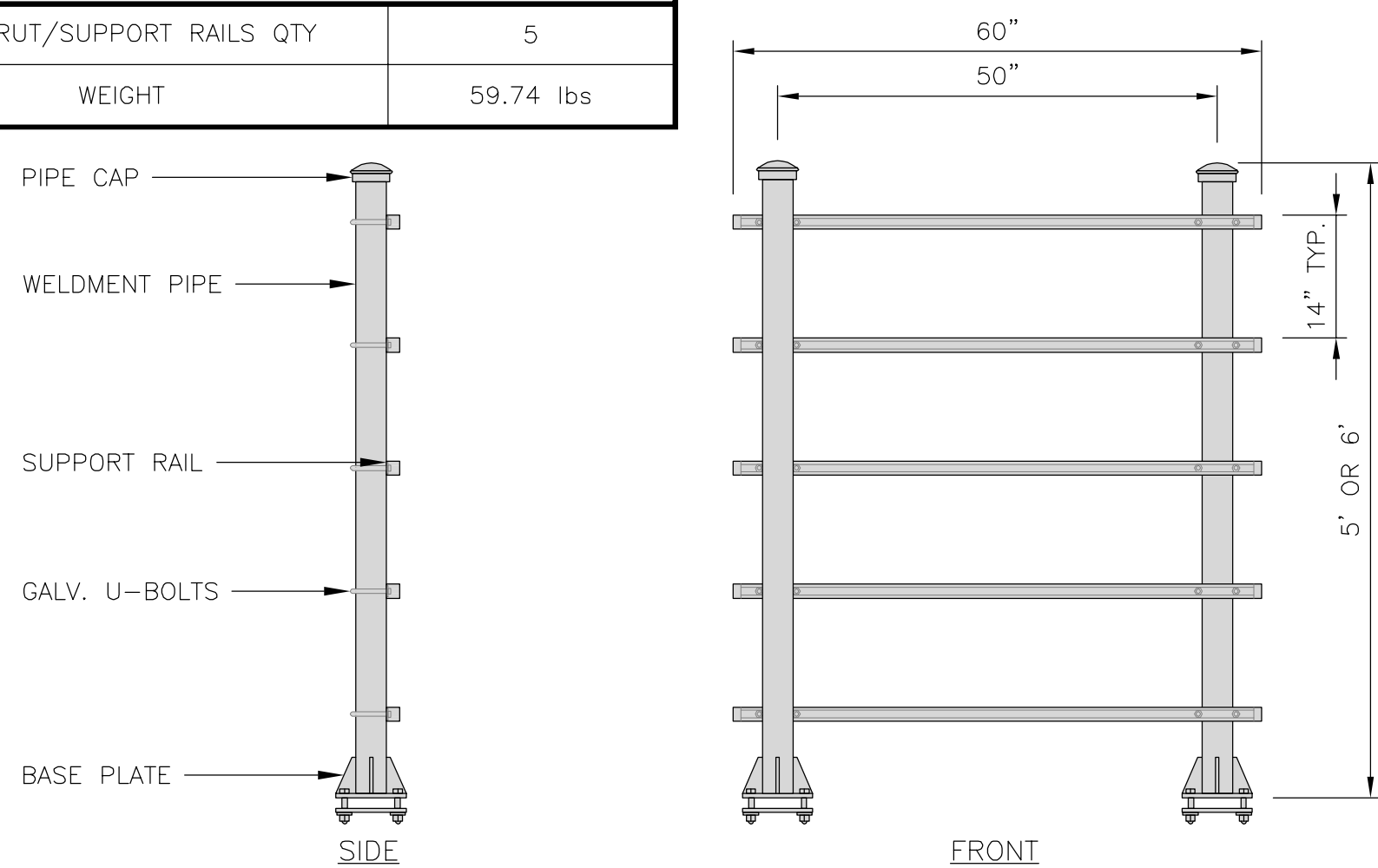
NO SCALE

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

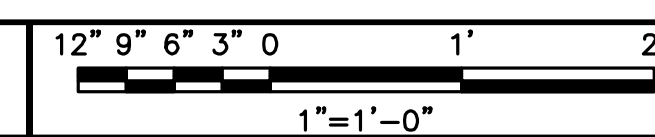
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NOT USED

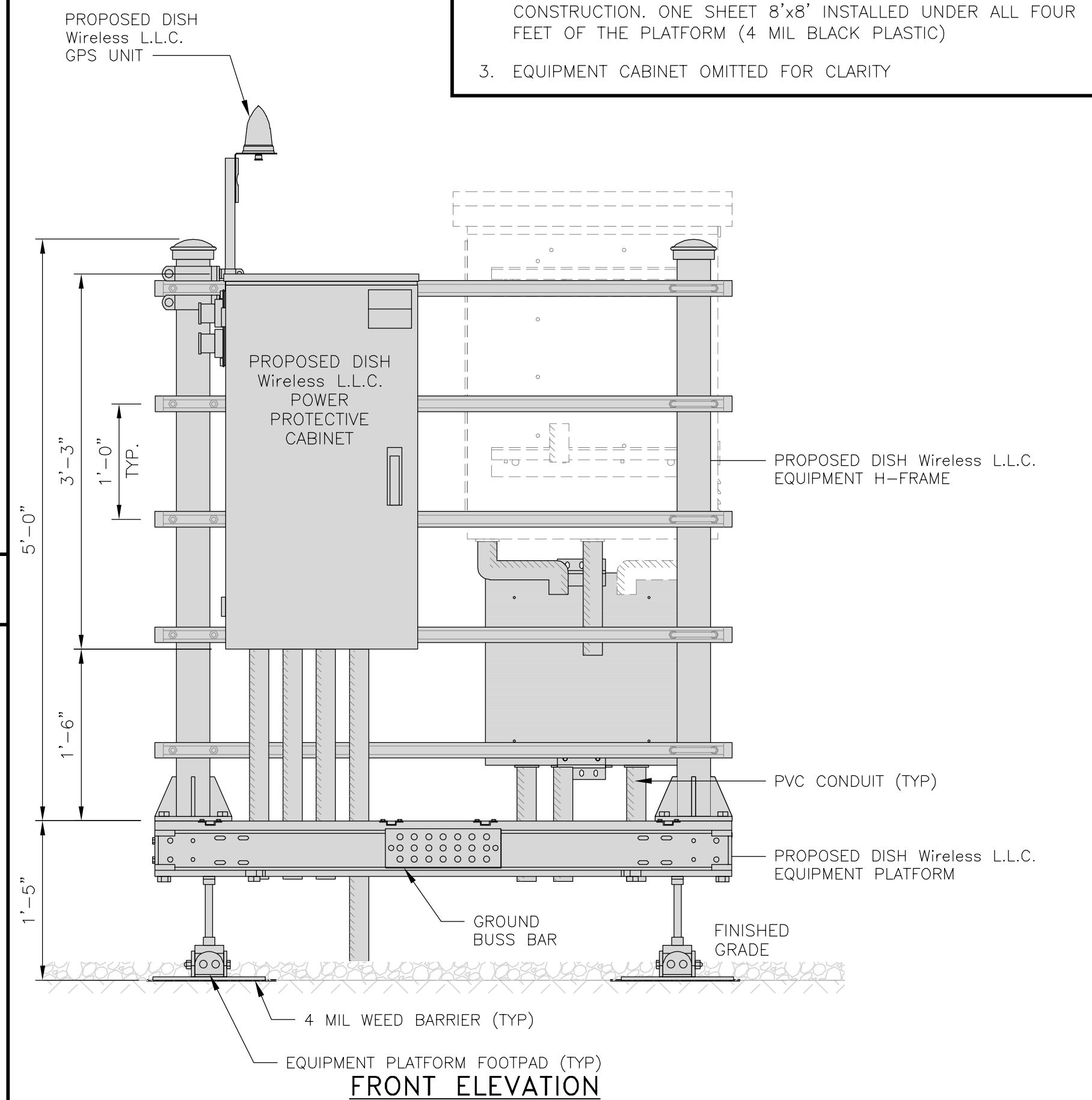
NO SCALE

4

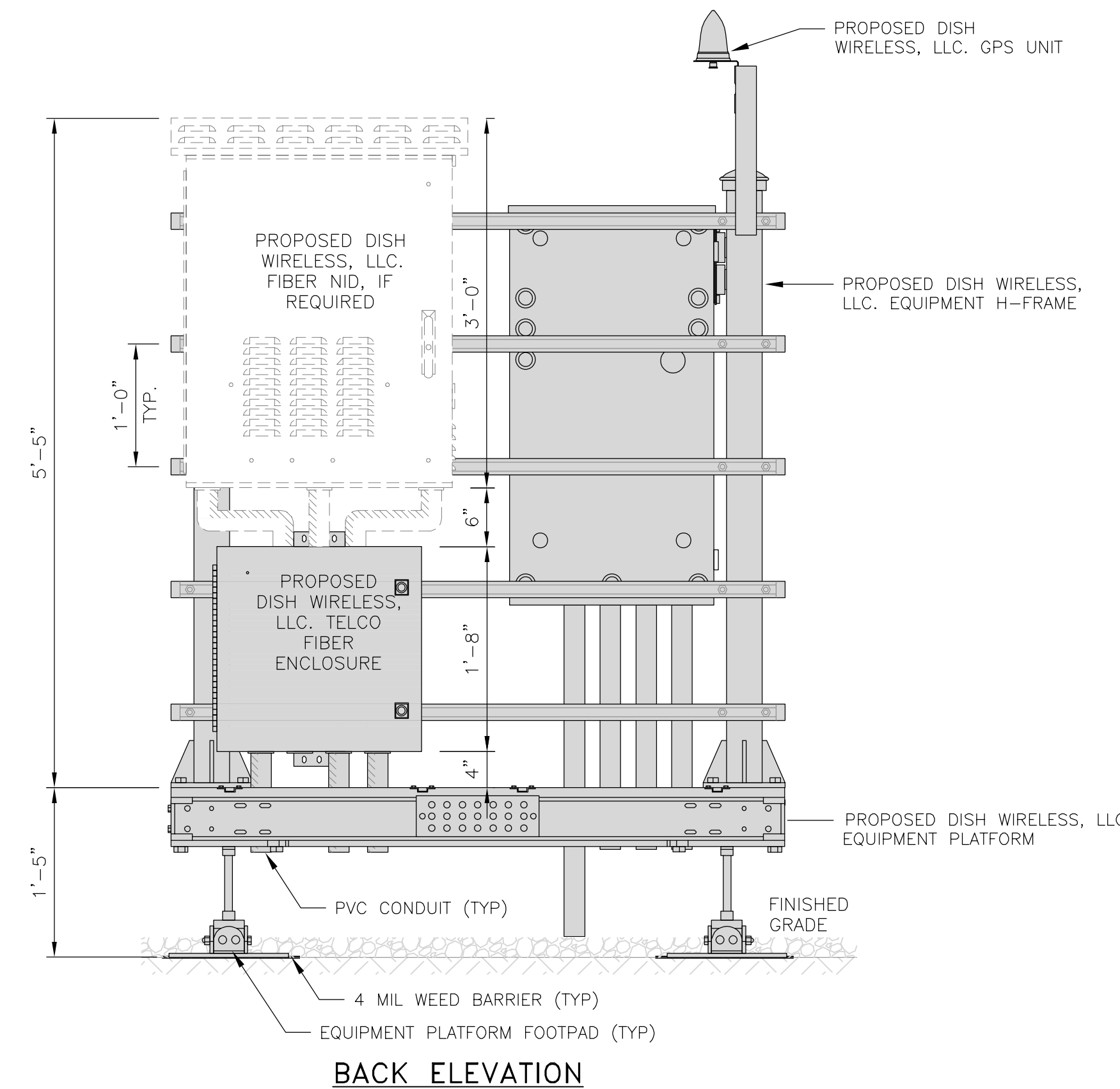
H-FRAME EQUIPMENT ELEVATION



5

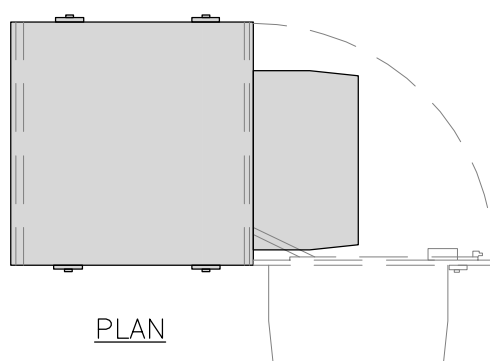
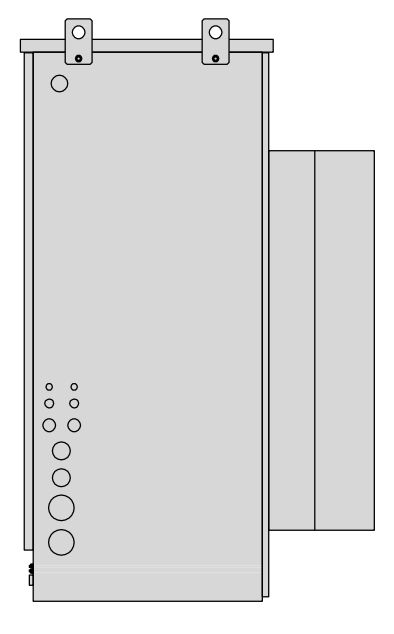
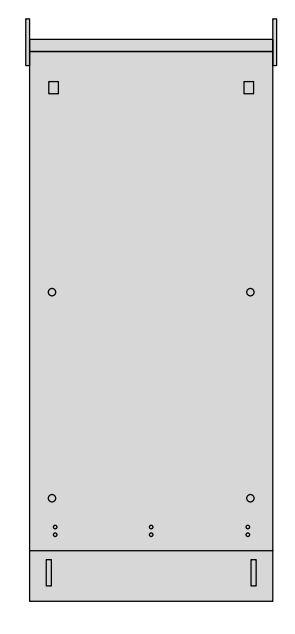
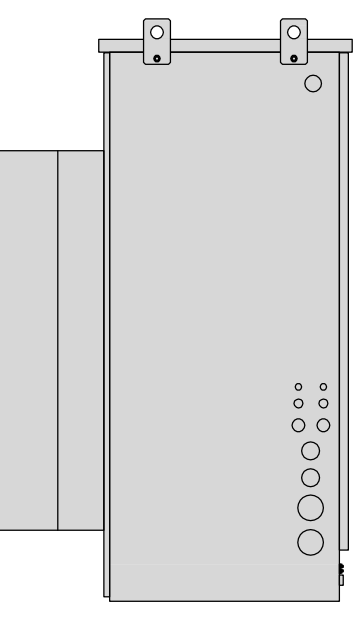
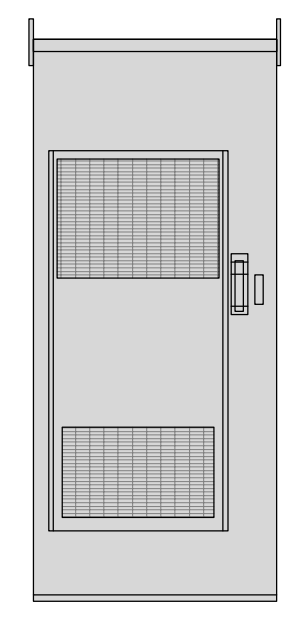


FRONT ELEVATION



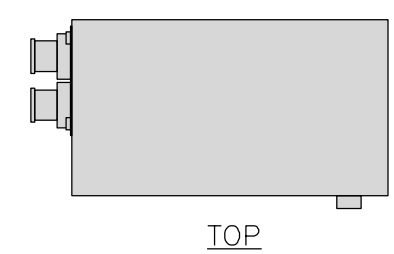
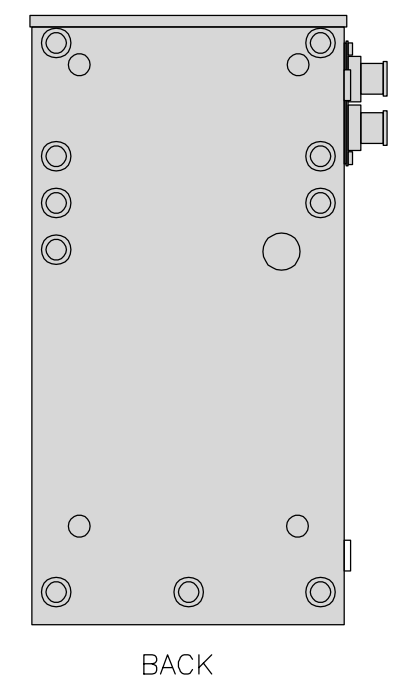
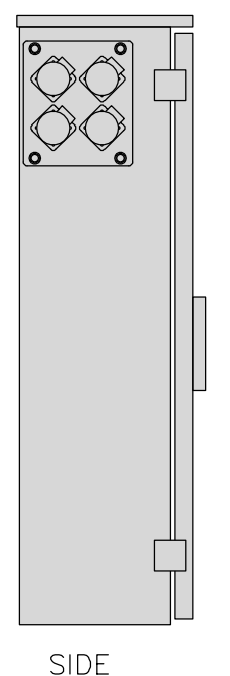
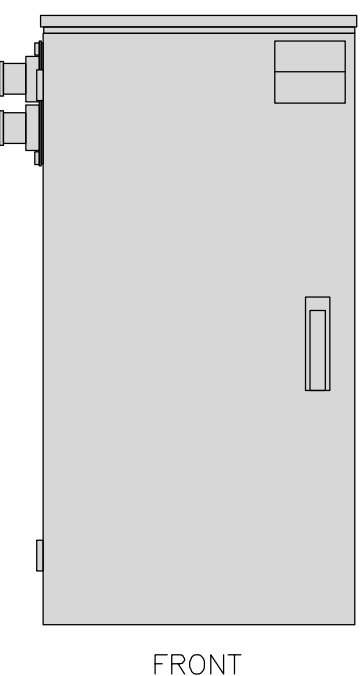
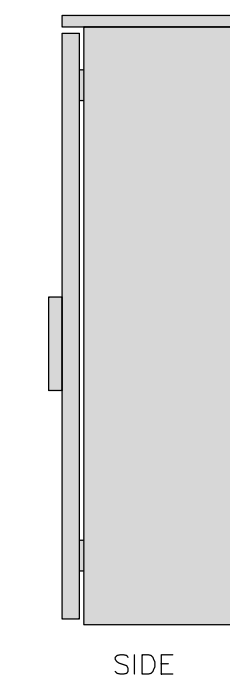
BACK ELEVATION

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

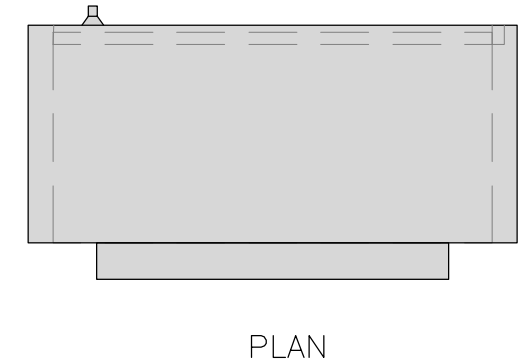
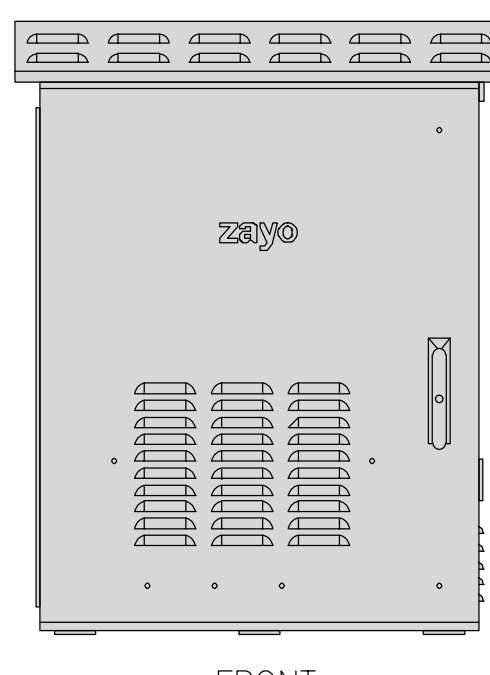
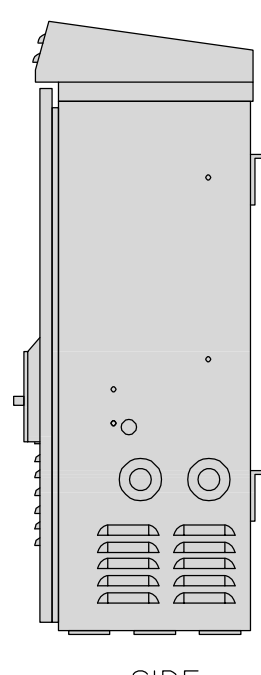
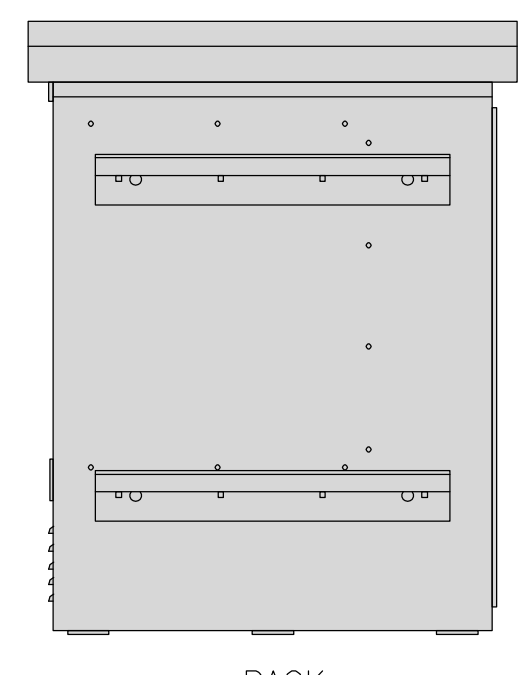
CABINET DETAIL NO SCALE 1

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

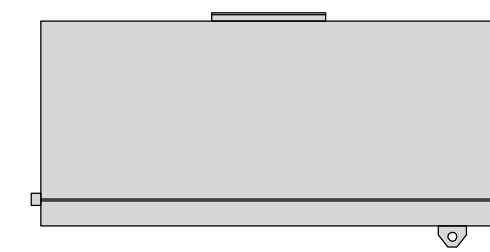
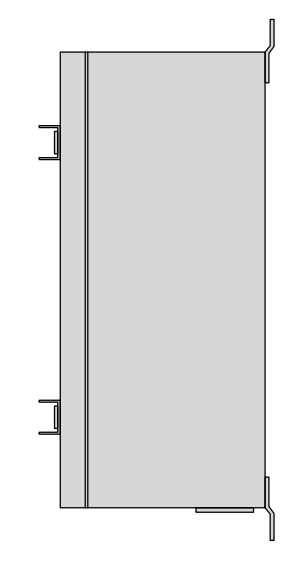
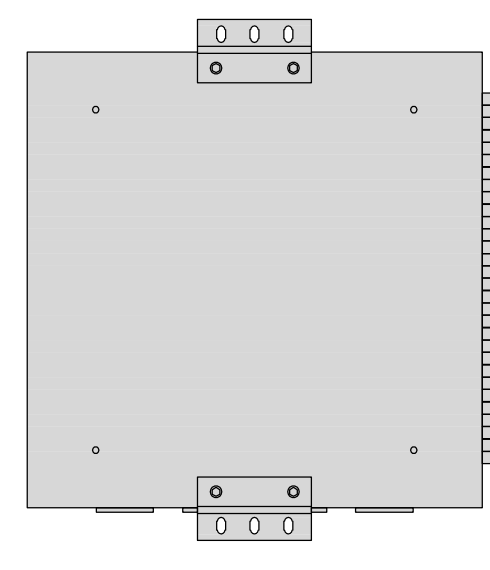
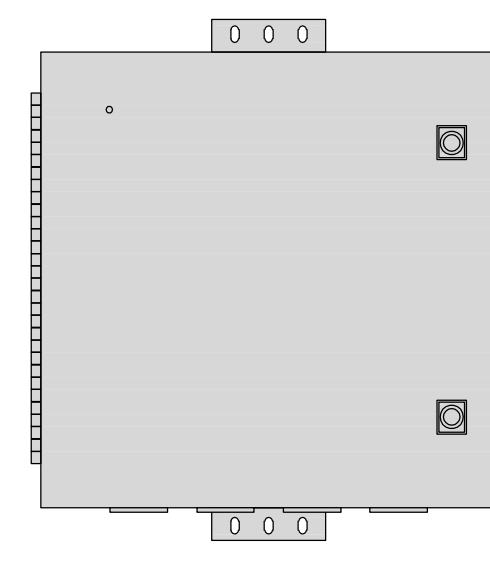
POWER PROTECTION CABINET (PPC) DETAIL NO SCALE 2

ZAYO 5RU CABINET LEFT SWING DOOR ("LIT" SITES)	
DIMENSIONS (HxWxD)	36.115"x29"x12.9"
WEIGHT	85 LBS
POWER INPUT	20A, -48VDC

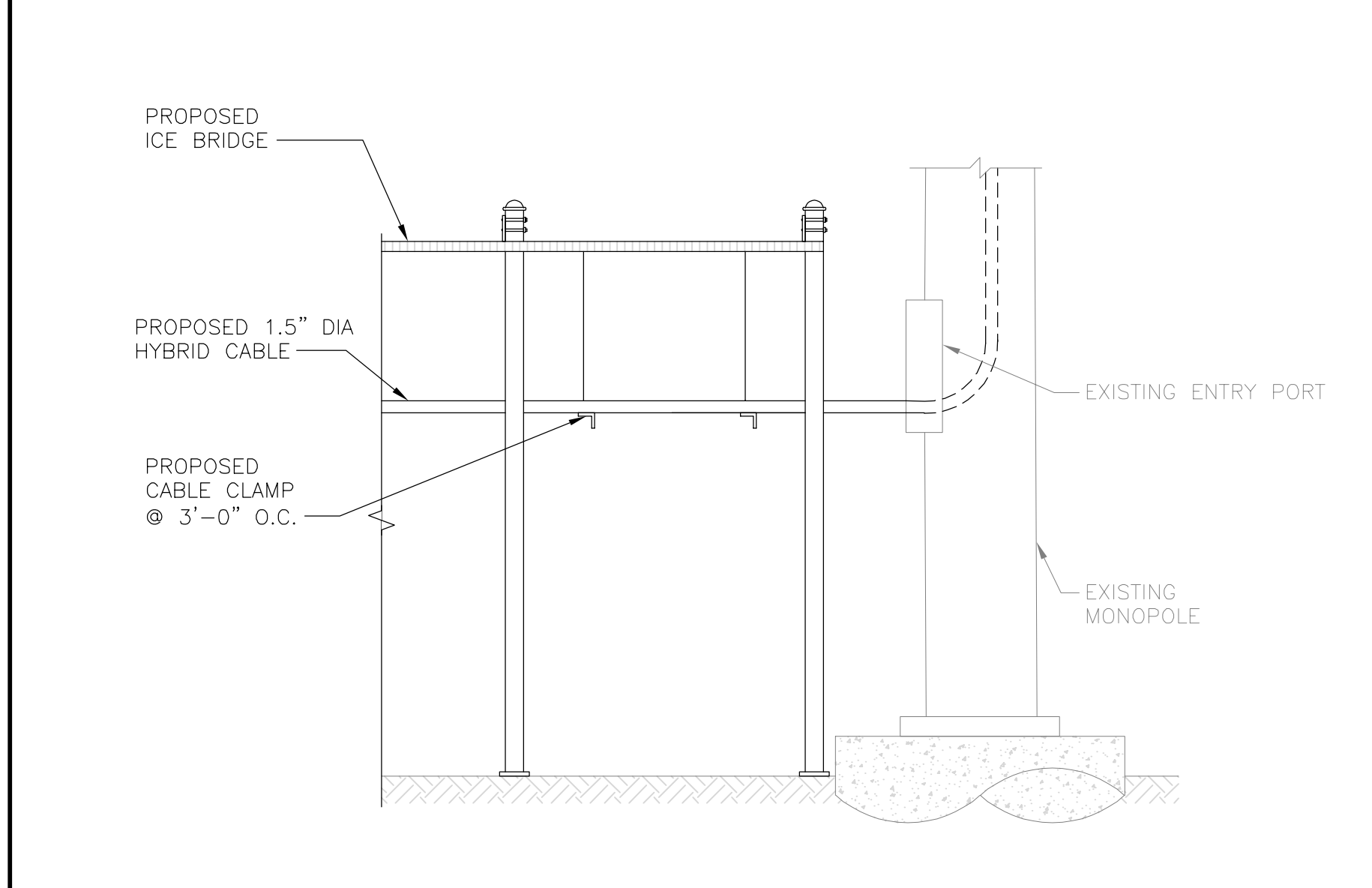





NETWORK INTERFACE UNIT DETAIL NO SCALE 3

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 4



HYBRID CABLE RUN NO SCALE 5

NOT USED

NOT USED NO SCALE 6

NOT USED


NOT USED NO SCALE 7

NOT USED

NOT USED NO SCALE 8

NOT USED

NOT USED NO SCALE 9



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



TOTALLY COMMITTED.

NB+C ENGINEERING SERVICES, LLC.
8601 SIX FORKS ROAD, SUITE 540
RALEIGH, NC 27615
(919) 657-9131



05/11/2022

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

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

DRAWN BY:	CHECKED BY:	APPROVED BY:
AN	BRN	TA

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS		
REV	DATE	DESCRIPTION
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1	03/01/2022	ISSUED FOR CONSTRUCTION
2	05/11/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
828540

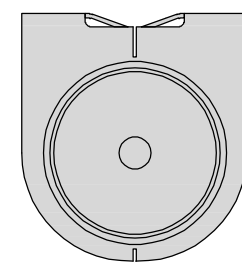
DISH WIRELESS, LLC.
PROJECT INFORMATION

BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

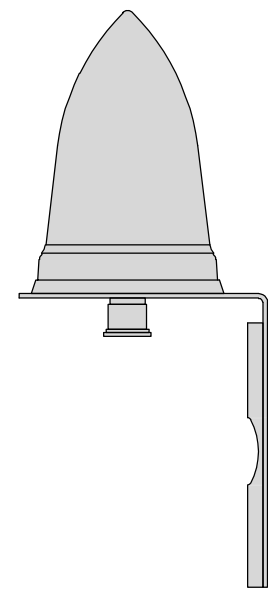
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-4

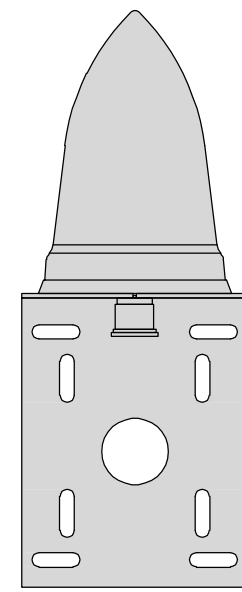
PCTEL GPSGL-TMG-SPI-40NCB	
DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"
WEIGHT W/ACCESSORIES	075 lbs
CONNECTOR	N-FEMALE
FREQUENCY RANGE	1590 ± 30MHz



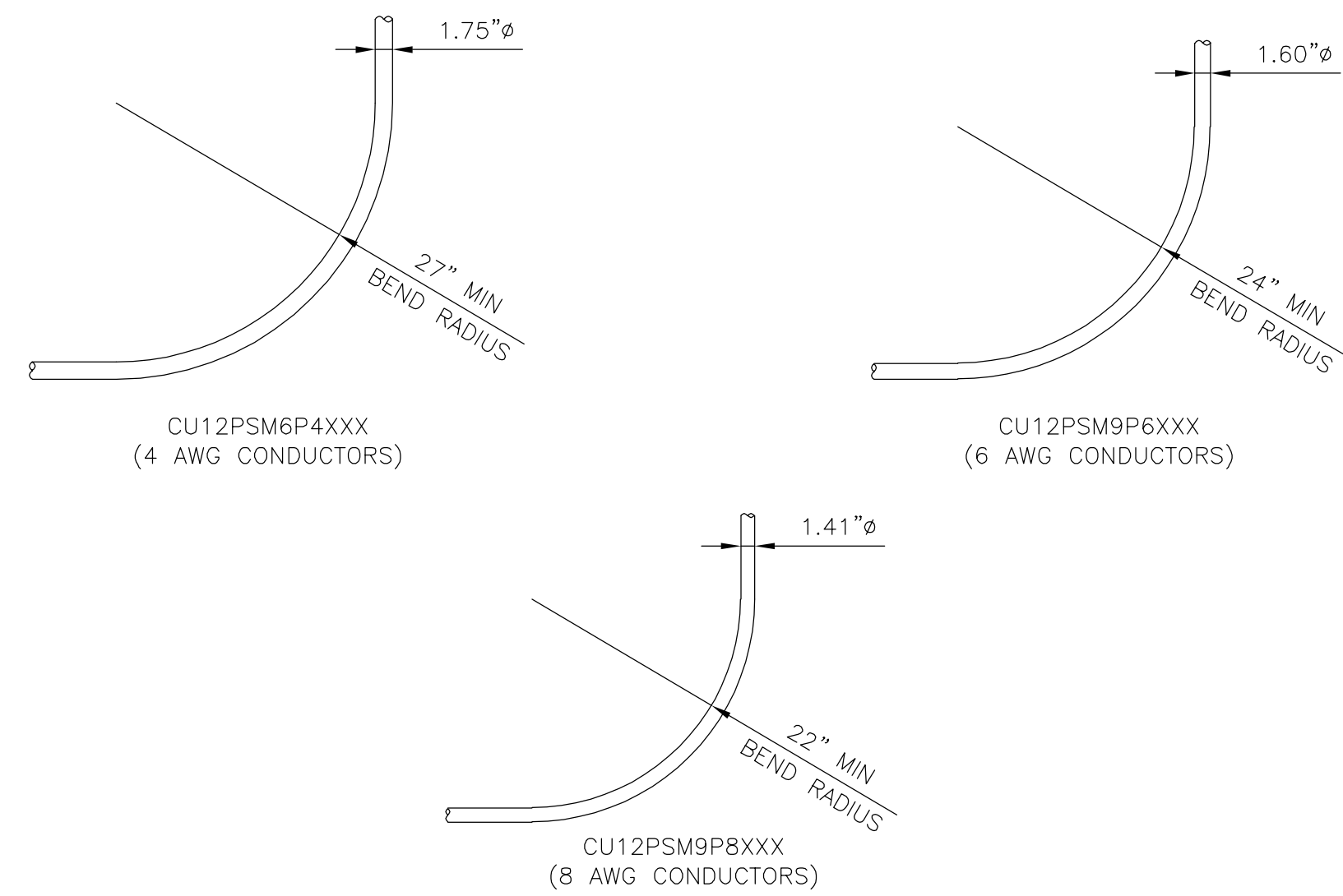
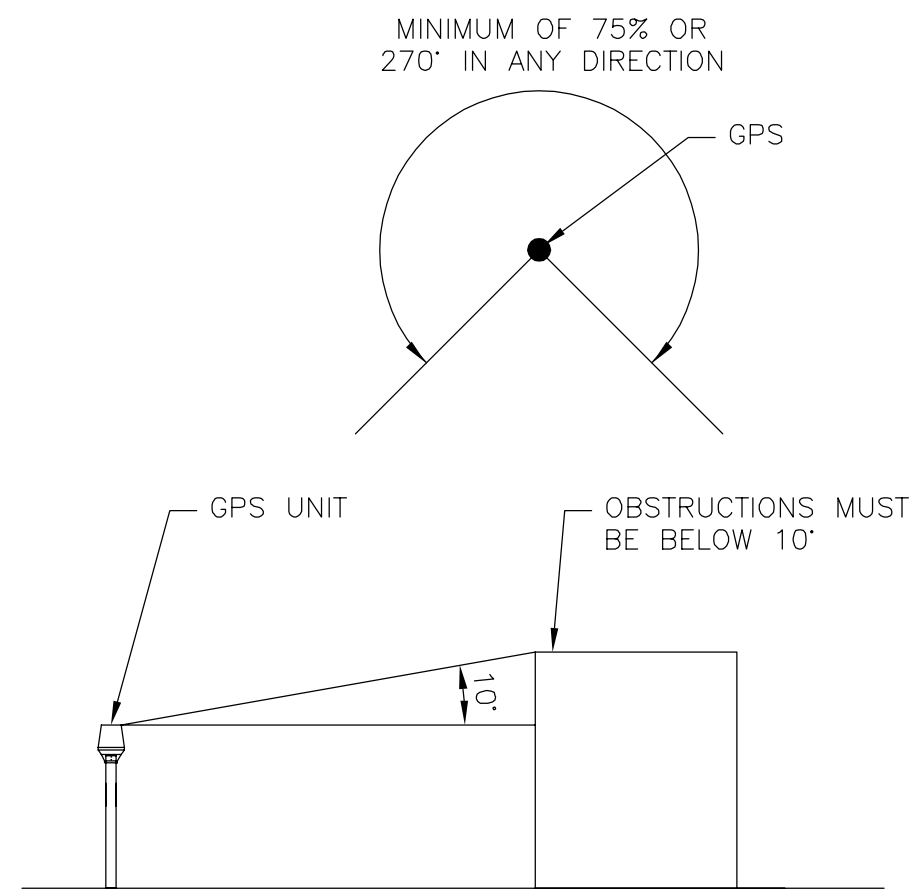
TOP



BACK



SIDE



GPS DETAIL

NO SCALE

1

GPS MINIMUM SKY VIEW REQUIREMENTS

NO SCALE

2

CABLES UNLIMITED HYBRID CABLE
MINIMUM BEND RADIUSES

NO SCALE

3

DESC	QTY	
SITE ID #:	BOHVN00201A	
TWR TYPE:	MONOPOLE	
HYBRID BEND RADIUS	30"	The preparer must determine the lengths below.
RAD CENTER (ft)	120.0	This is the RAD center for the antennas on towers. For a rooftop, this is the total length of all vertical sections of the hybrid.
ICE BRIDGE HEIGHT (ft)	10.0	This is the height of the bridge coverings.
ICE BRIDGE LENGTH (ft)	12.0	This is the length of the total ice bridge coverings, if more than one ice bridge is used or total horizontal lengths of hybrid if this is inside a building.
LENGTH ACROSS PLATFORM (ft)	6.0	This is the length from the cabinet to the first bend up the ice bridge or inside a radio room.
LENGTH FROM TOWER TOP TO OVP (ft)	6.0	This is the horizontal length from the tower to the OVP at the antenna level or the total horizontal lengths of hybrid on a building or large self supporting tower.
VERTICAL LENGTH OF HYBRID INTO TOWER TOP OVP (ft)	1.0	This is the vertical length of hybrid that comes out to the tower top OVP to the beginning of the first bend that is going into the monopole port.
	LENGTH (ft)	
Additional Excess Hybrid to be added (To be determined by preparer)	0	
Total Hybrid Length to Order (Rounded up to nearest whole number)	161	

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

dish
wireless.

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AN BRN TA

RFDS REV #: ---

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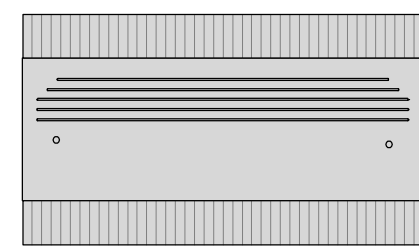
A&E PROJECT NUMBER
828540

DISH WIRELESS, LLC.
PROJECT INFORMATION
BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

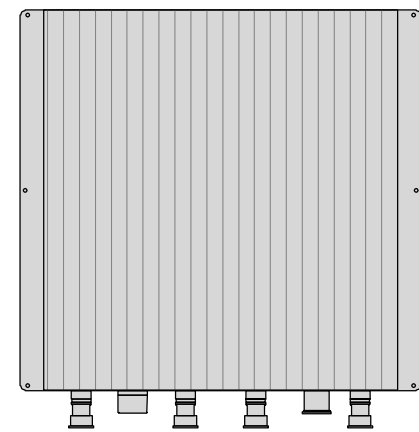
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
A-5

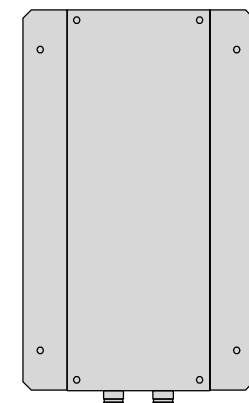
FUJITSU TRIPLE BAND TA08025-B605	
DIMENSIONS (HxWxD)	14.9"x15.7"x9"
WEIGHT	74.95 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



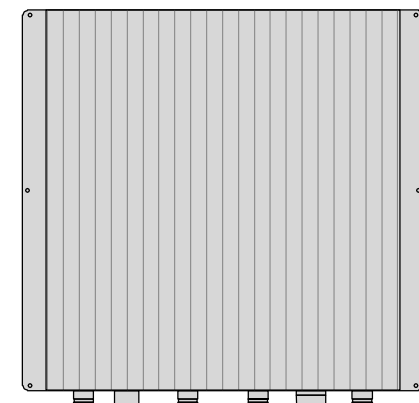
PLAN



BACK

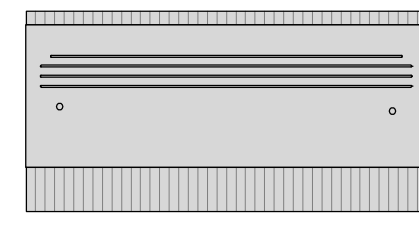


SIDE

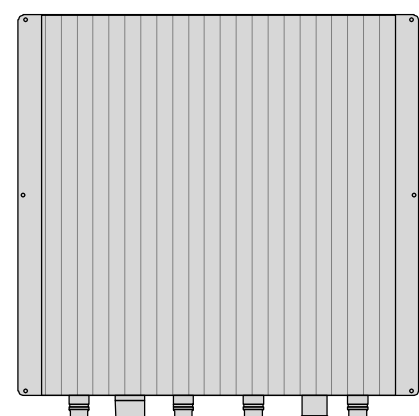


FRONT

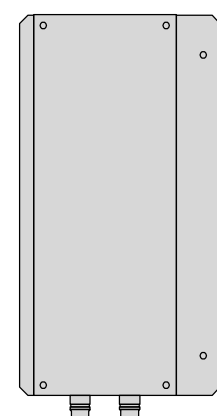
FUJITSU DUAL BAND TA08025-B604	
DIMENSIONS (HxWxD)	14.9"x15.7"x7.8"
WEIGHT	63.9 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



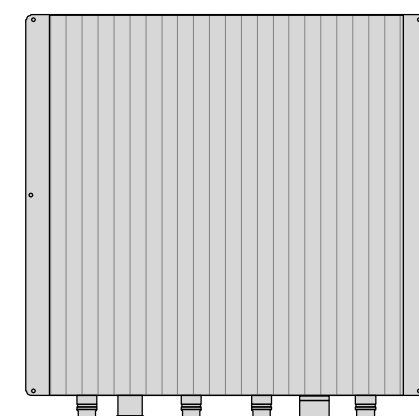
PLAN



BACK

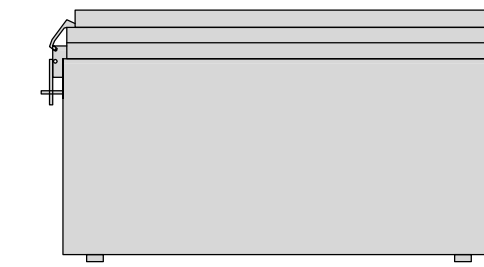


SIDE

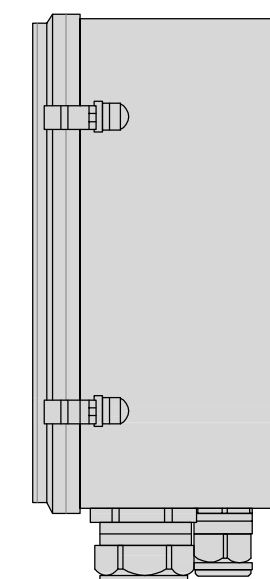


FRONT

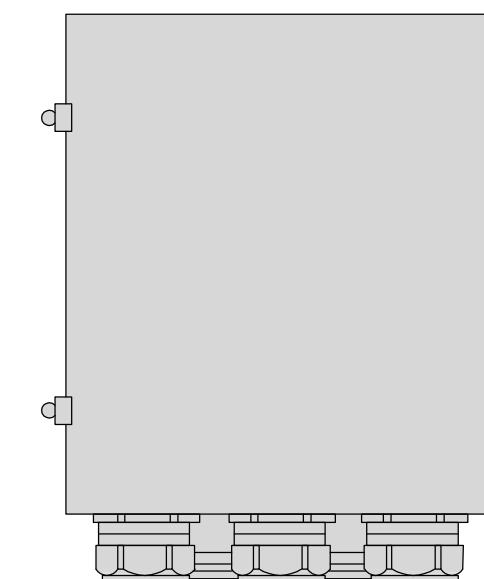
RAYCAP RDIDC-9181-PF-48 DC SURGE PROTECTION (OVP)	
DIMENSIONS (HxWxD)	18.98"x14.39"x8.15"
WEIGHT	21.82 LBS



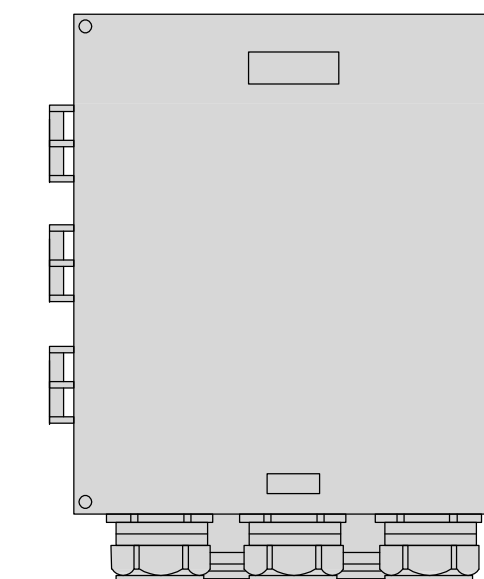
PLAN



SIDE



BACK



FRONT

RRH DETAIL

NO SCALE

1

RRH DETAIL

NO SCALE

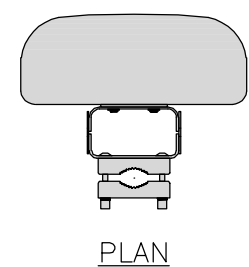
2

SURGE SUPPRESSION DETAIL (OVP)

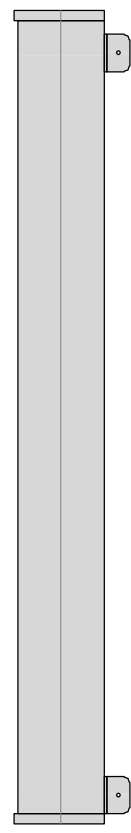
NO SCALE

3

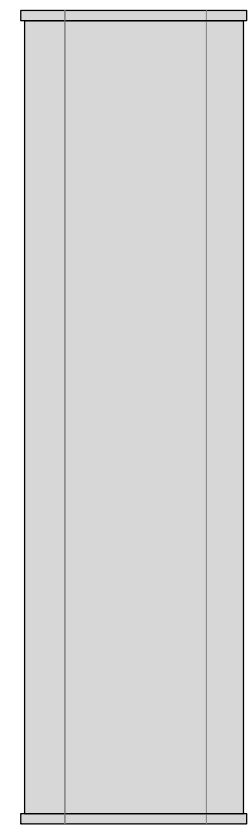
JMA MX08FRO665-21	
DIMENSIONS (HxWxD)	72"x20.0"x8.0"
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE
WEIGHT	64.5 lbs
WEIGHT WITH BRACKETS	82.5 lbs



PLAN



SIDE



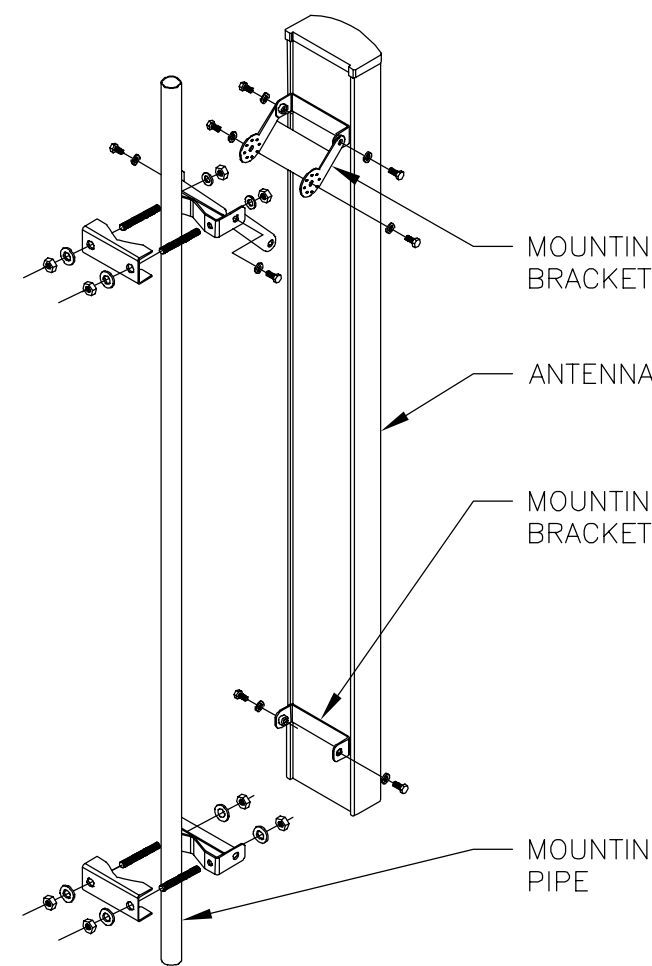
FRONT

ANTENNA DETAIL

NO SCALE

4

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

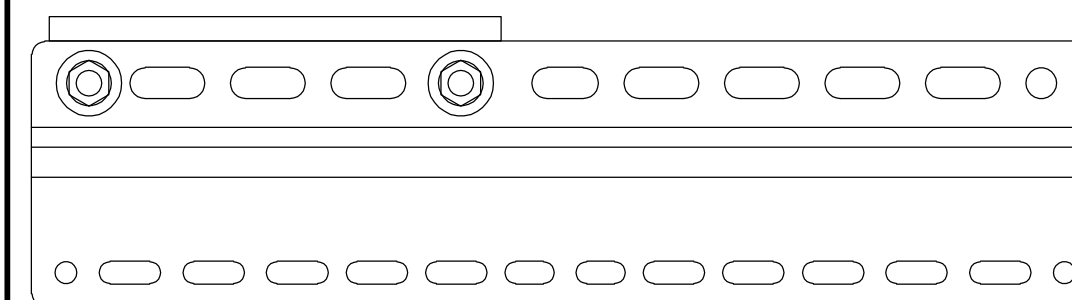
ANTENNA MOUNTING DETAIL

NO SCALE

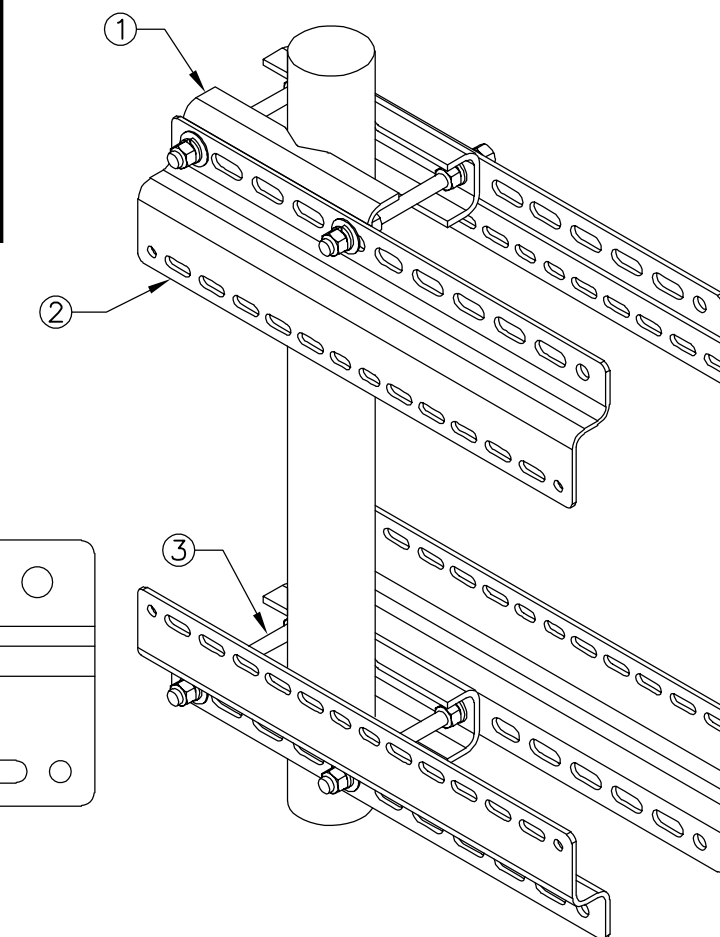
5

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



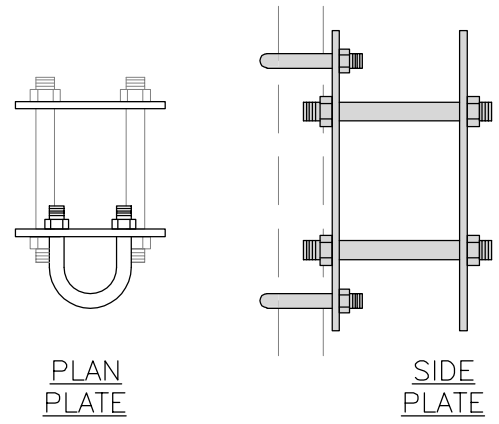
RRH MOUNT DETAIL

NO SCALE

6

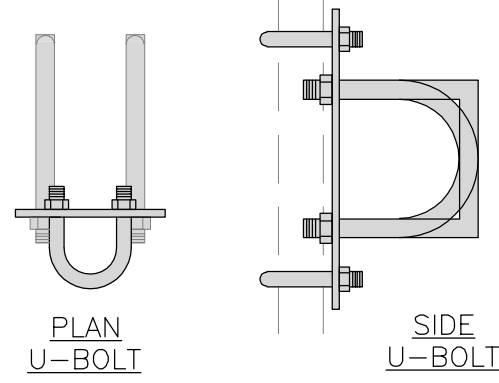
COMMSCOPE XP-2040 CROSSOVER PLATE	
DIMENSIONS (HxW)	10"x12"
WEIGHT	11 lbs

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



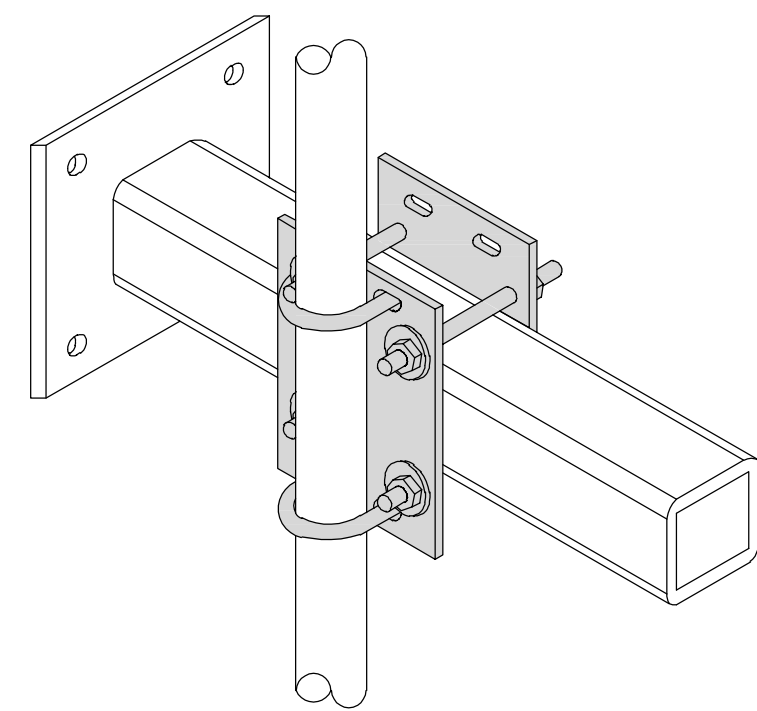
PLAN
PLATE

SIDE
PLATE



PLAN
U-BOLT

SIDE
U-BOLT



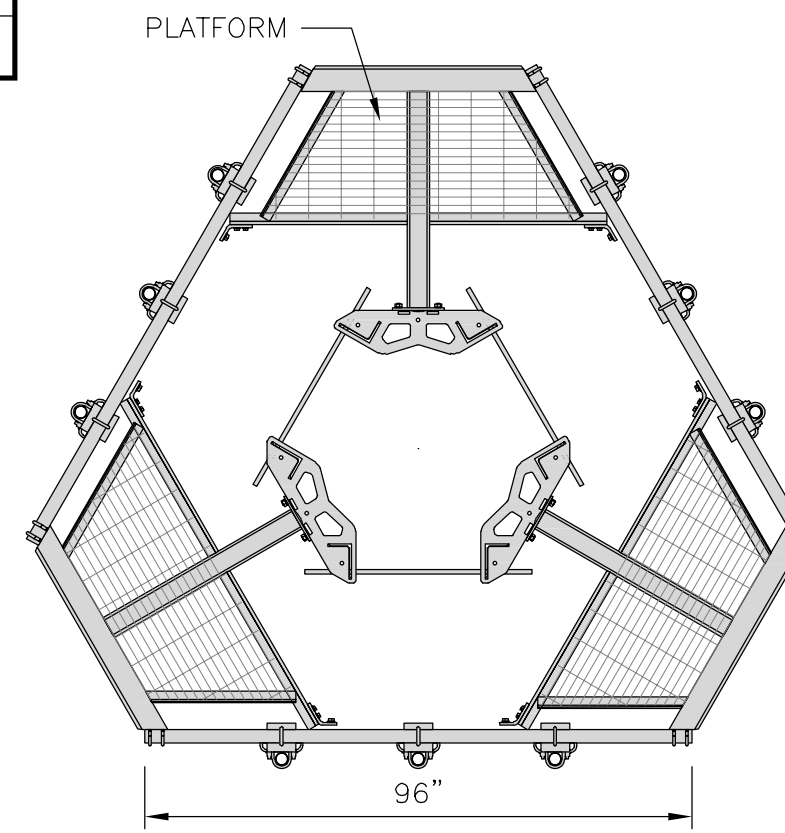
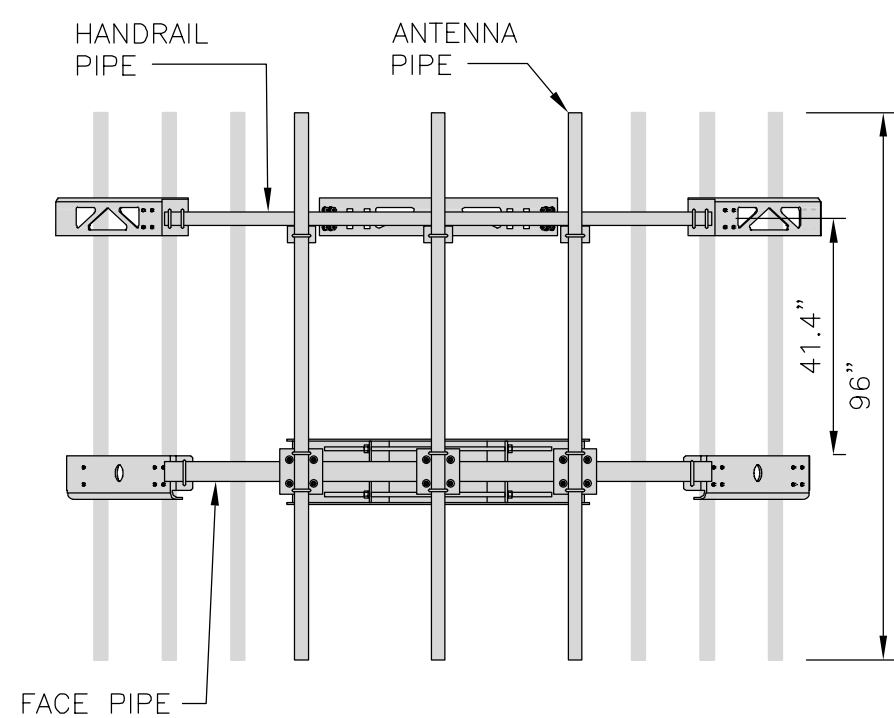
RRH/OVP MOUNT DETAIL

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

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wireless.

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LITTLETON, CO 80120

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A&E PROJECT NUMBER
828540

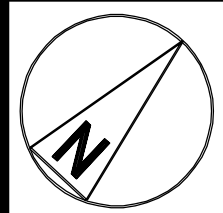
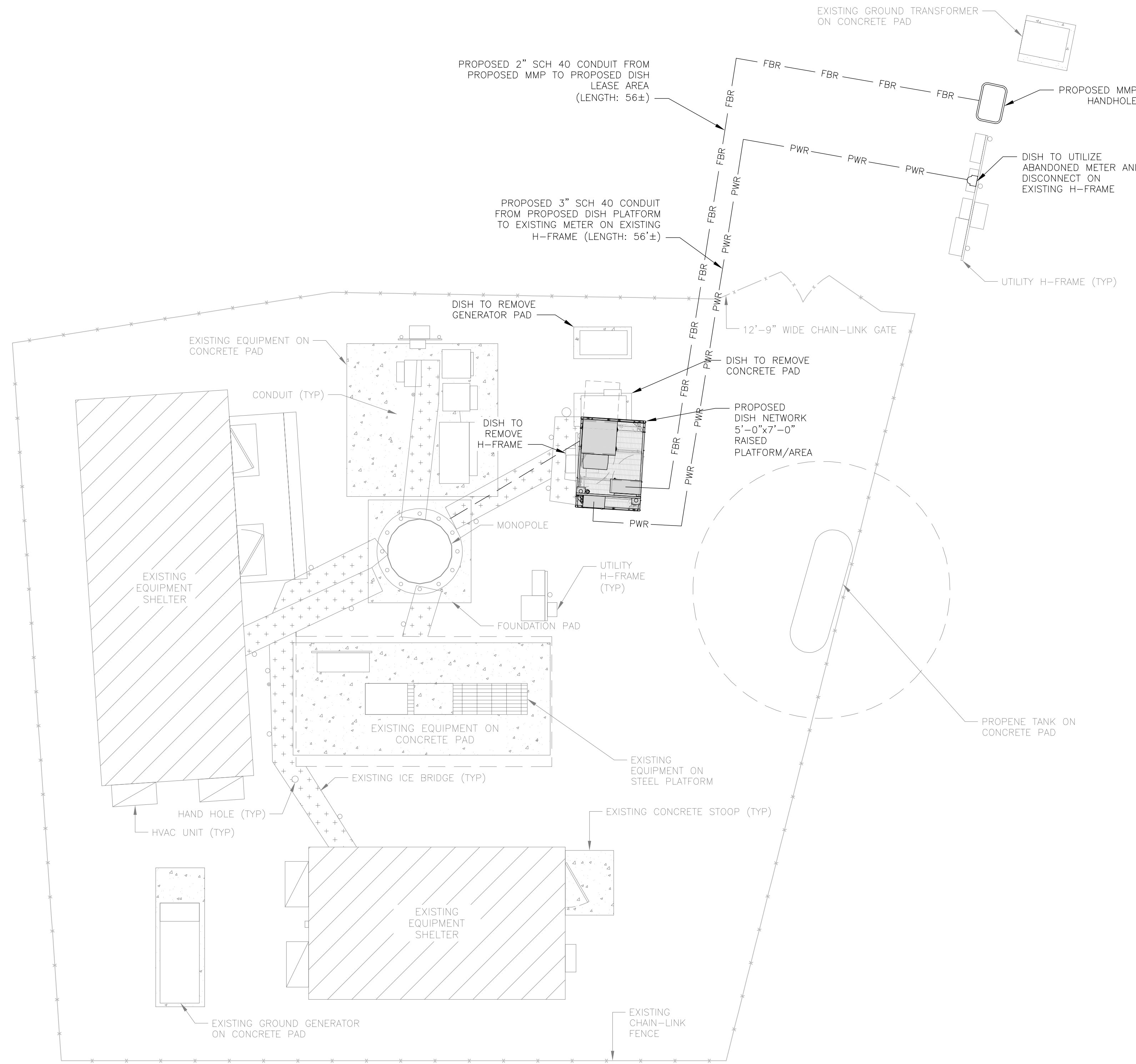
DISH WIRELESS, LLC.
PROJECT INFORMATION
BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

SHEET TITLE
EQUIPMENT DETAILS

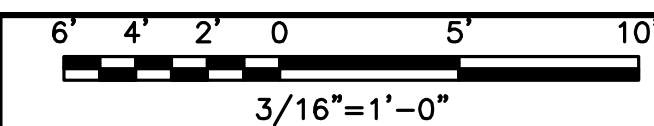
SHEET NUMBER
A-6

EASEMENT RIGHTS

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 PROPERTY RIGHTS DOCUMENTS. WHEN INSTALLING THE UTILITIES PLEASE LOCATE AND FOLLOW EXISTING PATH. IF EXISTING PATH IS MATERIALLY INCONSISTENT WITH THE "PWR" AND "FBR" PATH DEPICTED ON A-1 AND E-1 AND SAID VARIANCE IS NOT NOTED ON CDS, PLEASE NOTIFY CROWN CASTLE REAL ESTATE AS FURTHER COORDINATION MAY BE NEEDED.



UTILITY ROUTE PLAN



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

NO SCALE

2



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



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05/11/2022

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

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AN	BRN	TA

RFDS REV #: ---

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A&E PROJECT NUMBER
828540

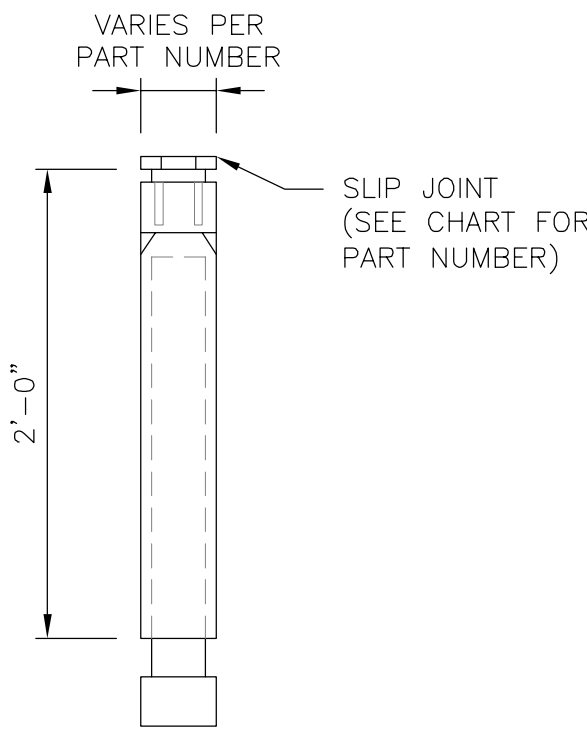
DISH WIRELESS, LLC.
PROJECT INFORMATION
BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

SHEET TITLE
**ELECTRICAL/FIBER
ROUTE PLAN AND NOTES**

SHEET NUMBER
E-1

CARLON EXPANSION FITTINGS

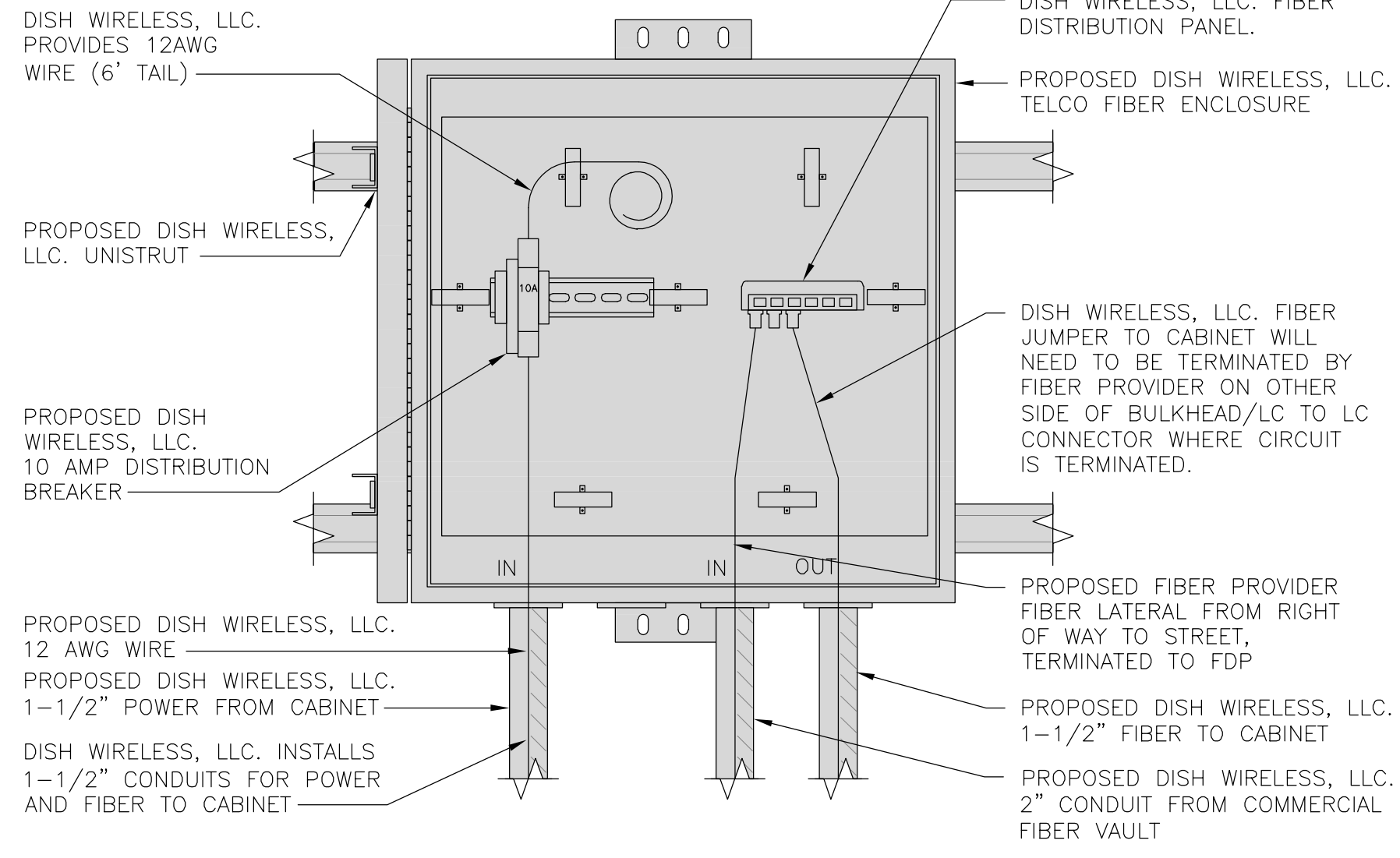
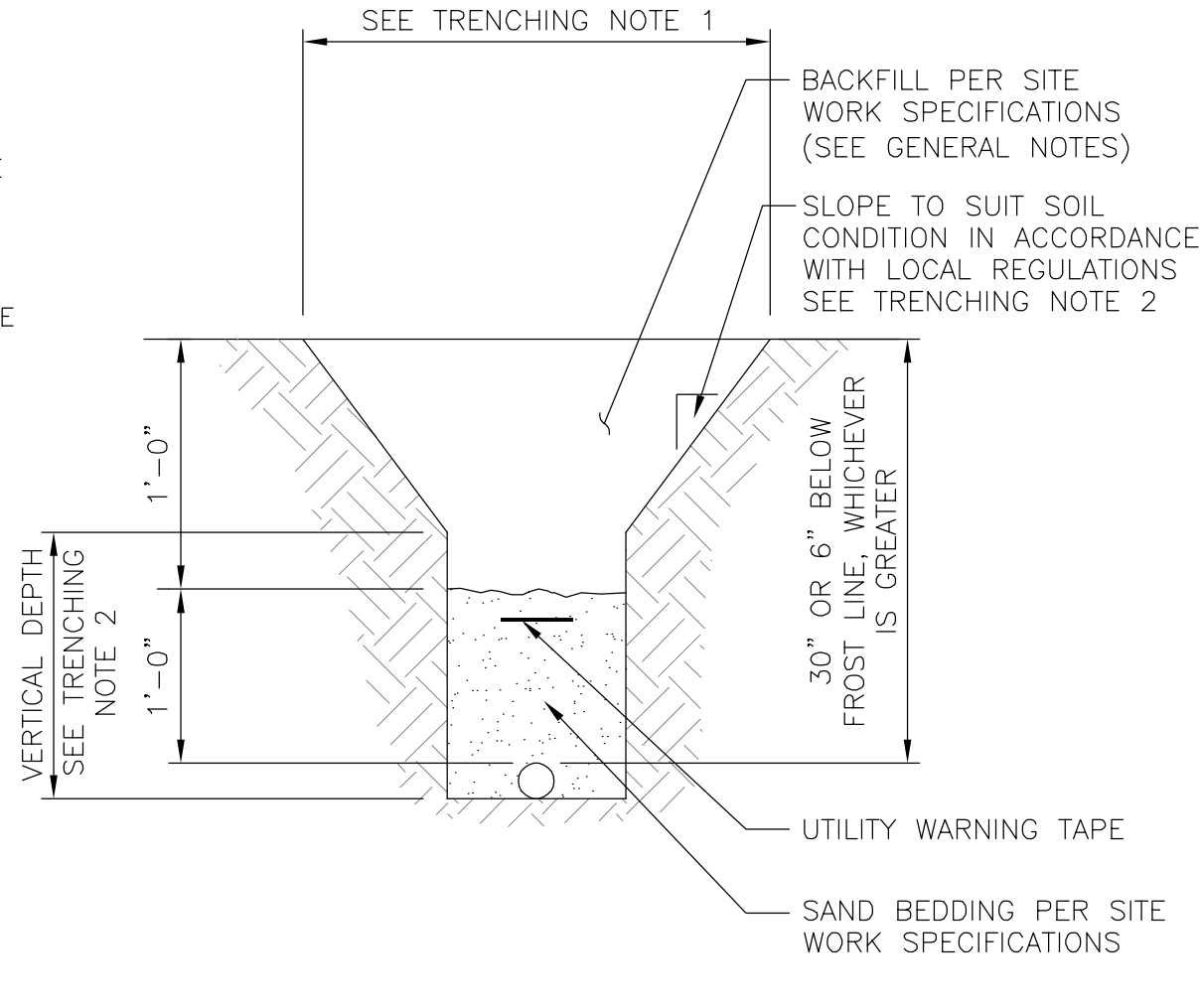
COUPLING END PART#	MALE TERMINAL ADAPTER END PART#	SIZE	STD CTN QTY.	TRAVEL LENGTH
E945D	E945DX	1/2"	20	4"
E945E	E945EX	3/4"	15	4"
E945F	E945FX	1"	10	4"
E945G	E945GX	1 1/4"	5	4"
E945H	E945HX	1 1/2"	5	4"
E945J	E945JX	2"	15	8"
E945K	E945KX	2 1/2"	10	8"
E945L	E945LX	3"	10	8"
E945M	E945MX	3 1/2"	5	8"
E945N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

TRENCHING NOTES

- 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.
- TRENCHING SAFETY; INCLUDING, BUT NOT LIMITED TO SOIL CLASSIFICATION, SLOPING, AND SHORING, SHALL BE GOVERNED BY THE CURRENT OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.
- 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.



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EXPANSION JOINT DETAIL

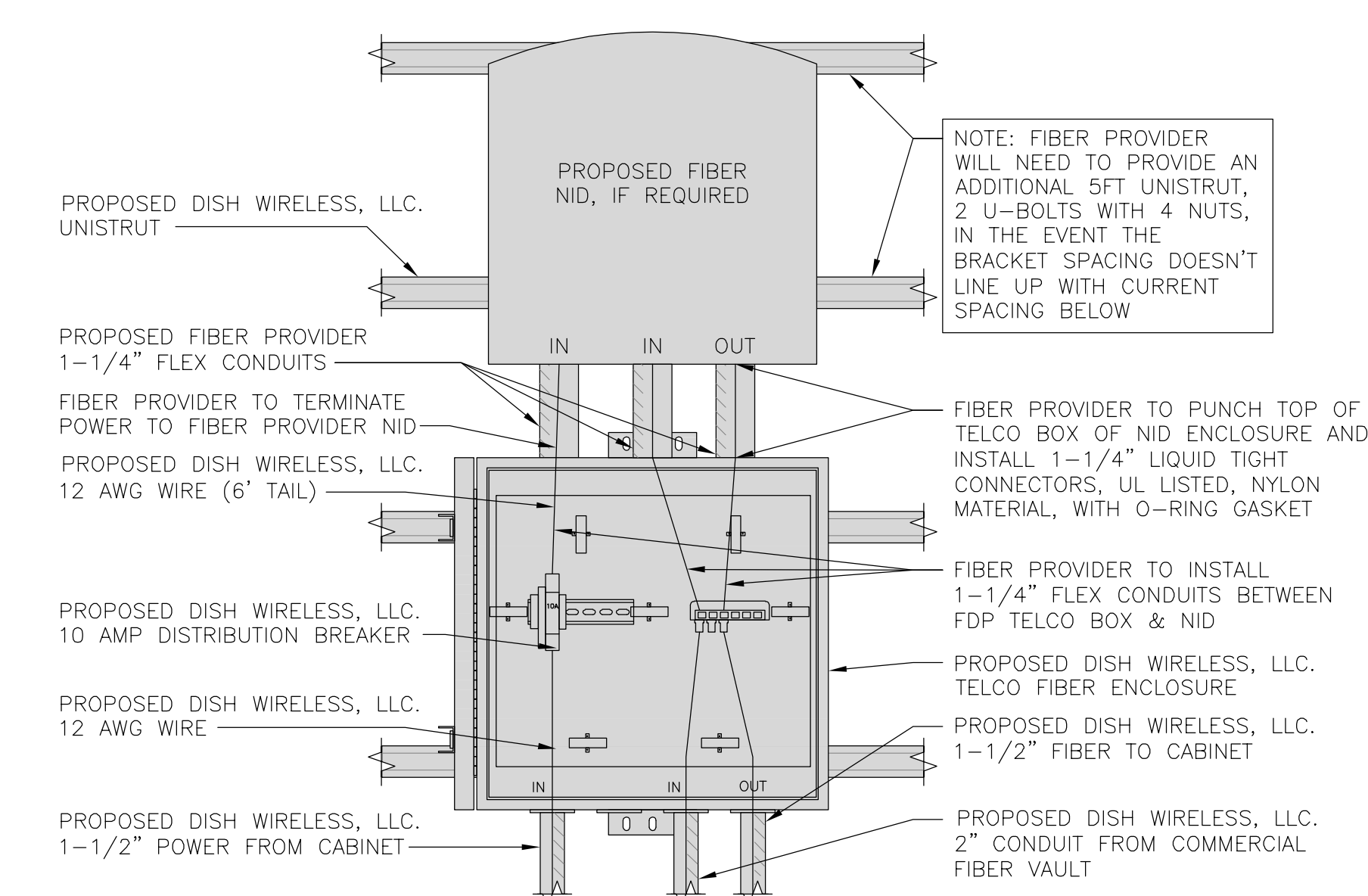
NO SCALE 1

TYPICAL UNDERGROUND TRENCH DETAIL

NO SCALE 2

DARK TELCO BOX – INTERIOR WIRING LAYOUT

NO SCALE 3



LIT TELCO BOX – INTERIOR WIRING LAYOUT (OPTIONAL)

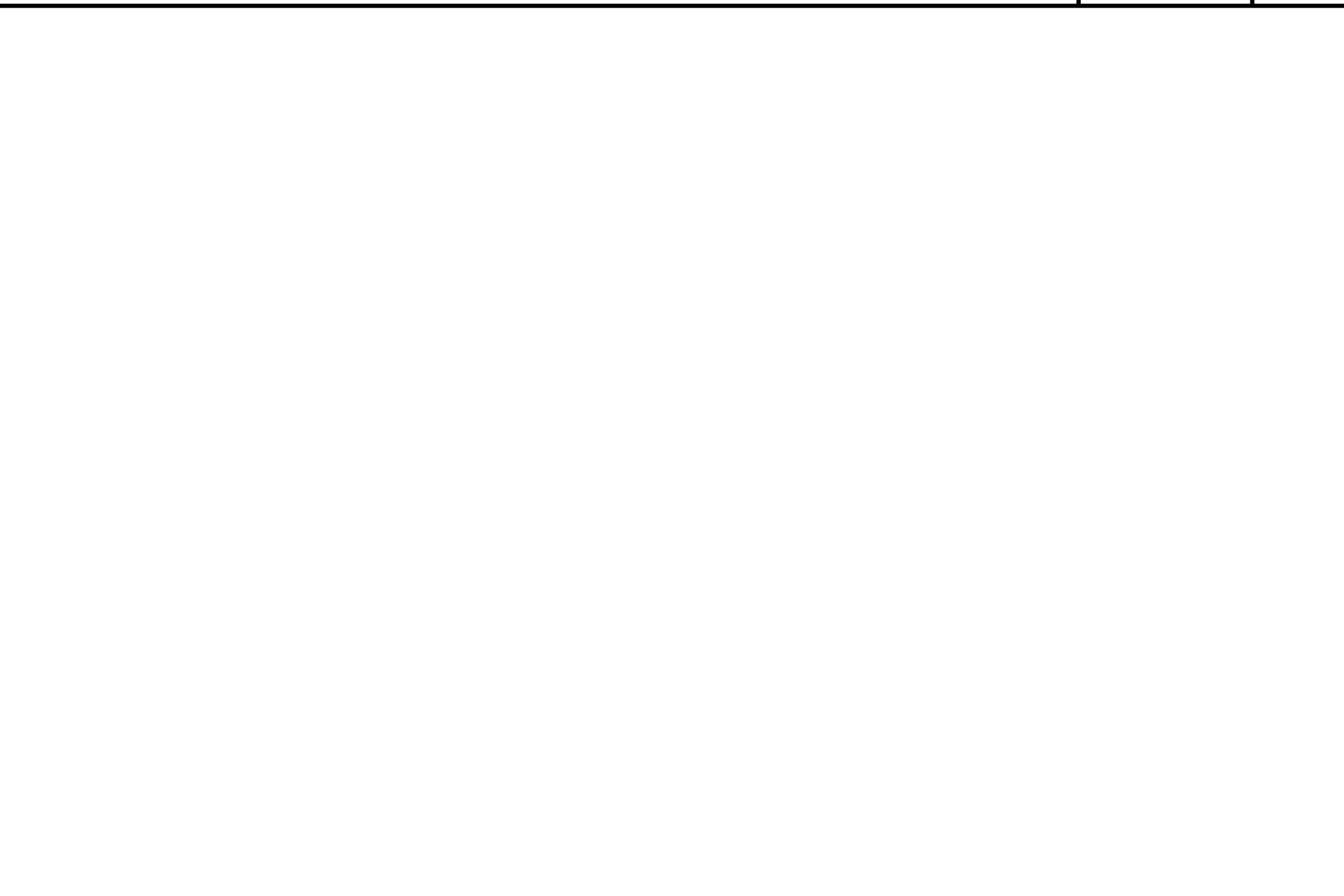
NO SCALE 4

NOT USED

NO SCALE 5

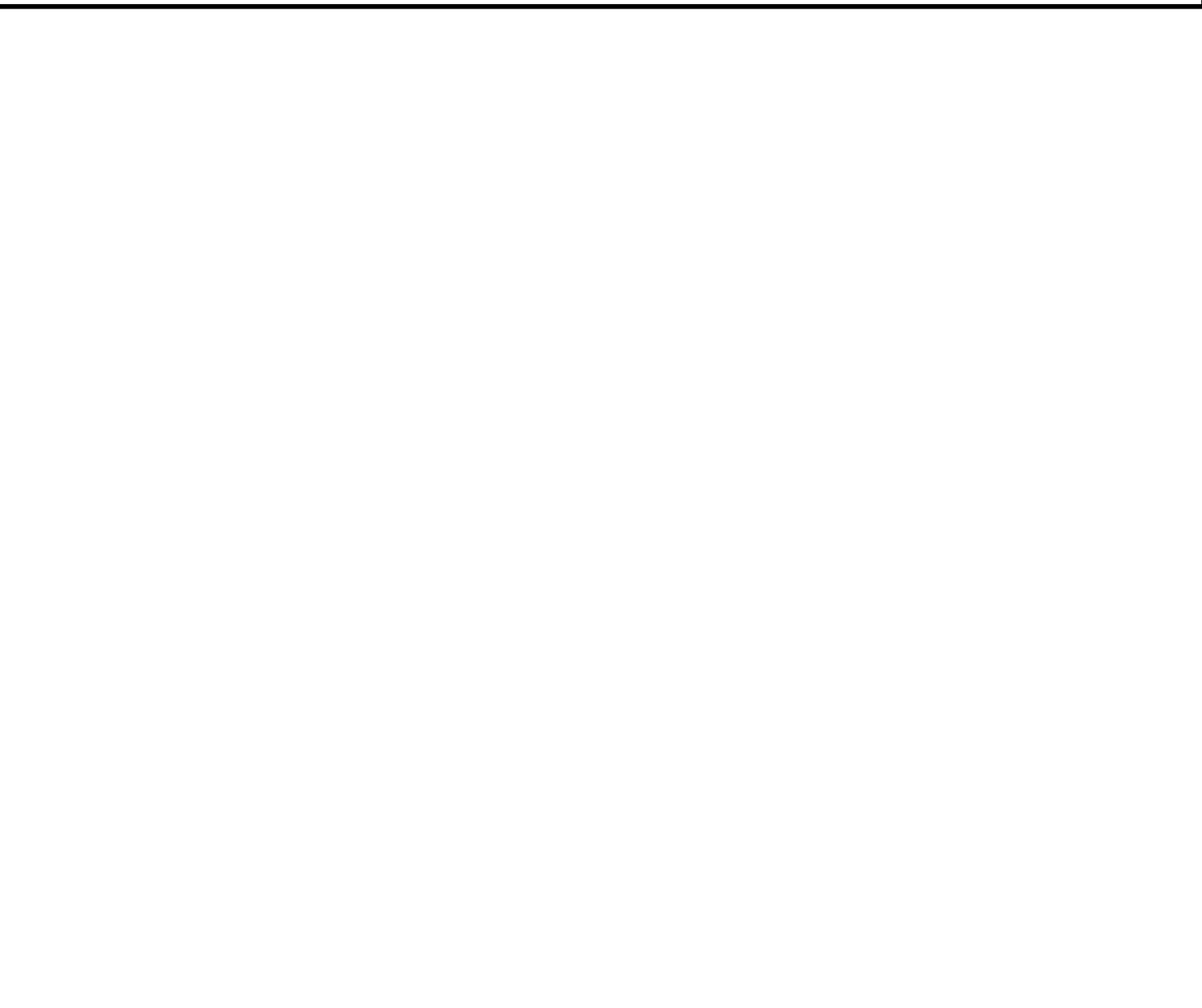
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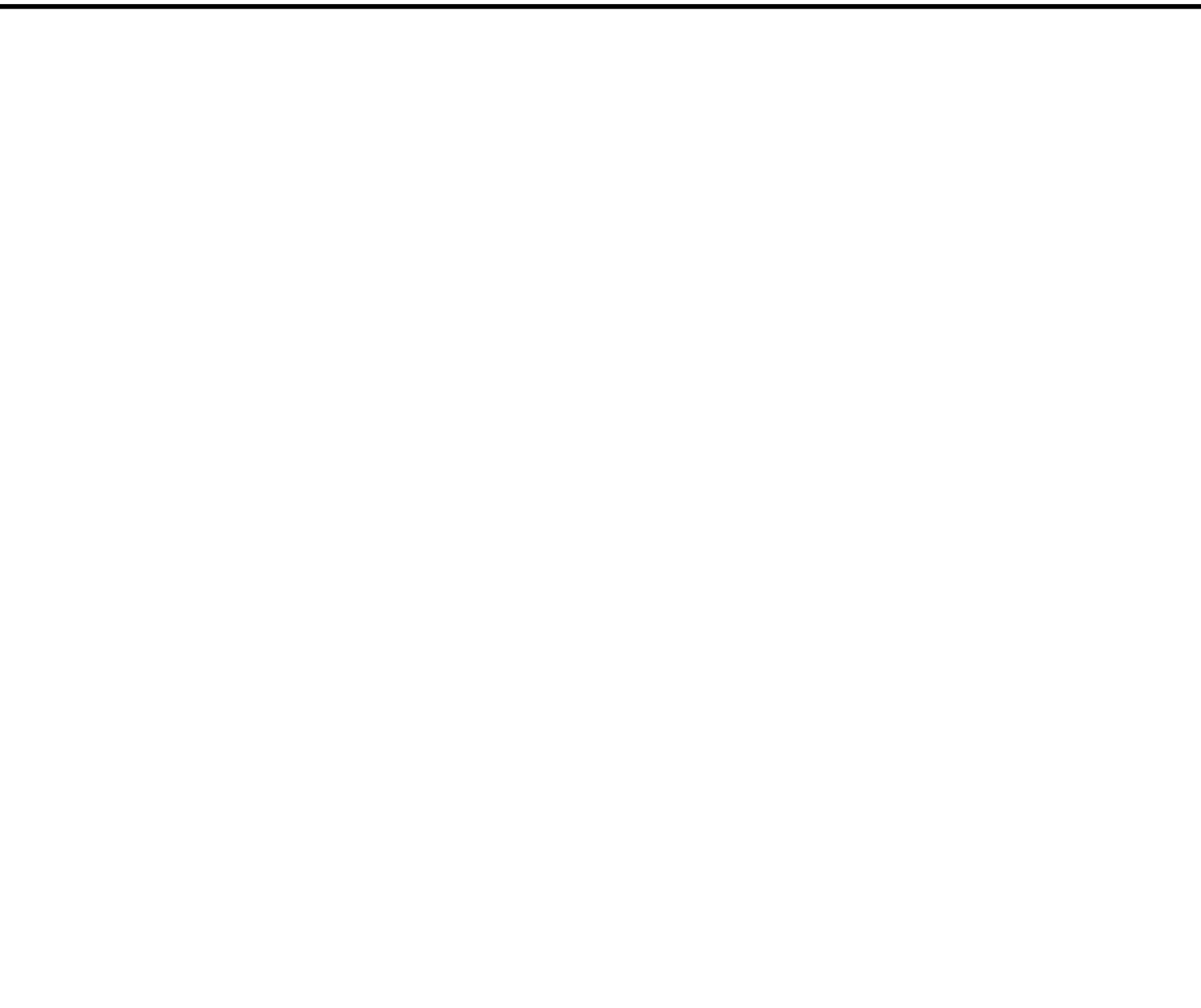
NOT USED

NO SCALE 7



NOT USED

NO SCALE 8



NOT USED

NO SCALE 9

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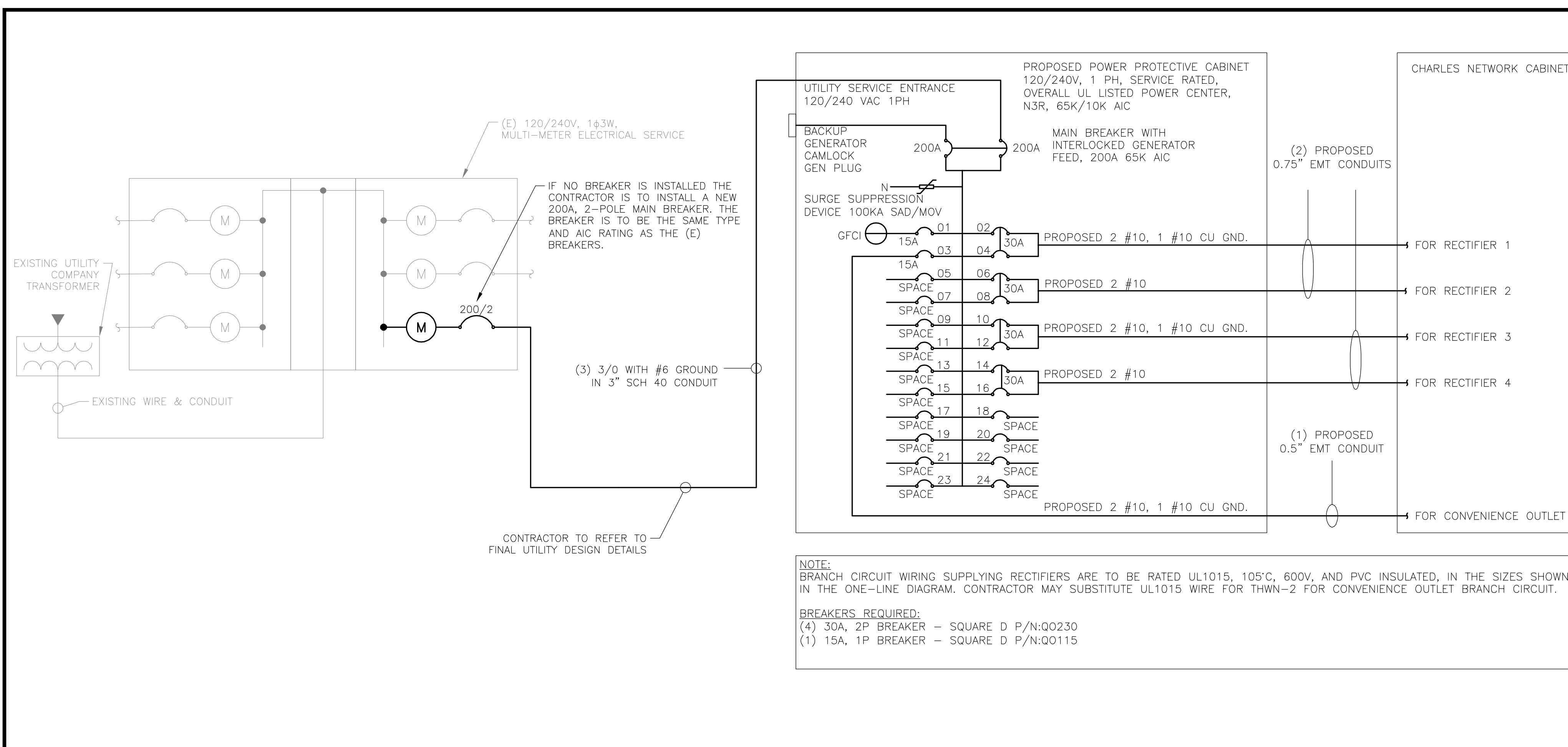
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PROJECT INFORMATION
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218 WHEELER ROAD
TORRINGTON, CT 06790

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-2



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)(g) 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)		TRIP	CKT #	PHASE	CKT #	TRIP	VOLT AMPS (WATTS)		LOAD SERVED
	L1	L2						L1	L2	
PPC GFCI OUTLET	180	180	15A	1	A	2	30A	2880	2880	ABB/GE INFINITY RECTIFIER 1
CHARLES GFCI OUTLET			15A	3	B	4	30A	2880	2880	ABB/GE INFINITY RECTIFIER 2
--SPACE--				5	A	6	30A	2880	2880	ABB/GE INFINITY RECTIFIER 3
--SPACE--				7	B	8	30A	2880	2880	ABB/GE INFINITY RECTIFIER 4
--SPACE--				9	A	10				--SPACE--
--SPACE--				11	B	12				--SPACE--
--SPACE--				13	A	14				--SPACE--
--SPACE--				15	B	16				--SPACE--
--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					
				98	98					
				98						
				123						

PANEL SCHEDULE

NO SCALE 2

NOT USED

NO SCALE 3



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CHECKED BY: BRN
APPROVED BY: TA

RFDS REV #: ---

CONSTRUCTION DOCUMENTS

SUBMITTALS

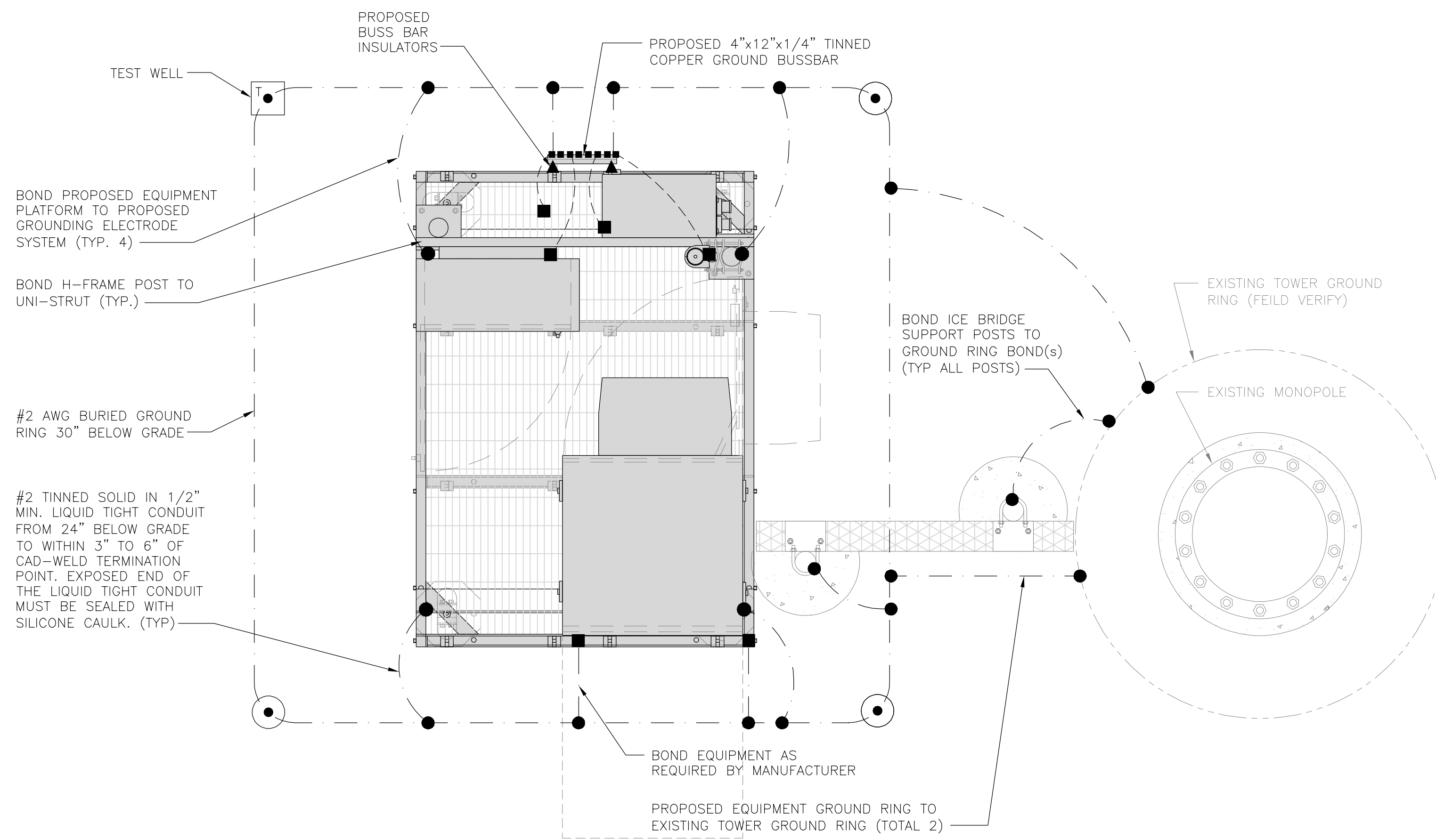
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A&E PROJECT NUMBER
828540

DISH WIRELESS, LLC.
PROJECT INFORMATION
BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

SHEET TITLE
ELEC. ONE-LINE, FAULT
CALCS & PLANEL SCHED.

SHEET NUMBER
E-3

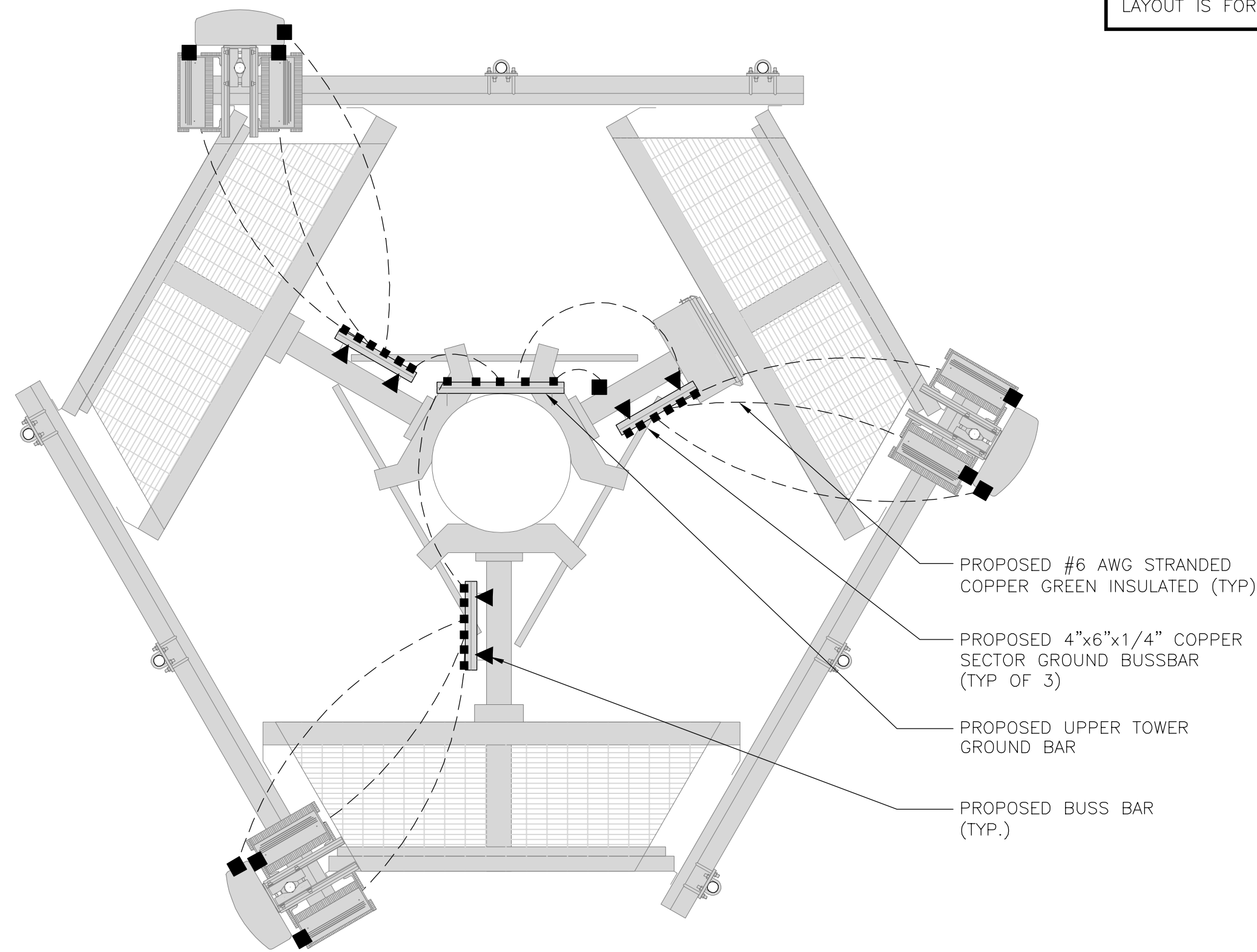


TYPICAL EQUIPMENT GROUNDING PLAN

NO SCALE 1

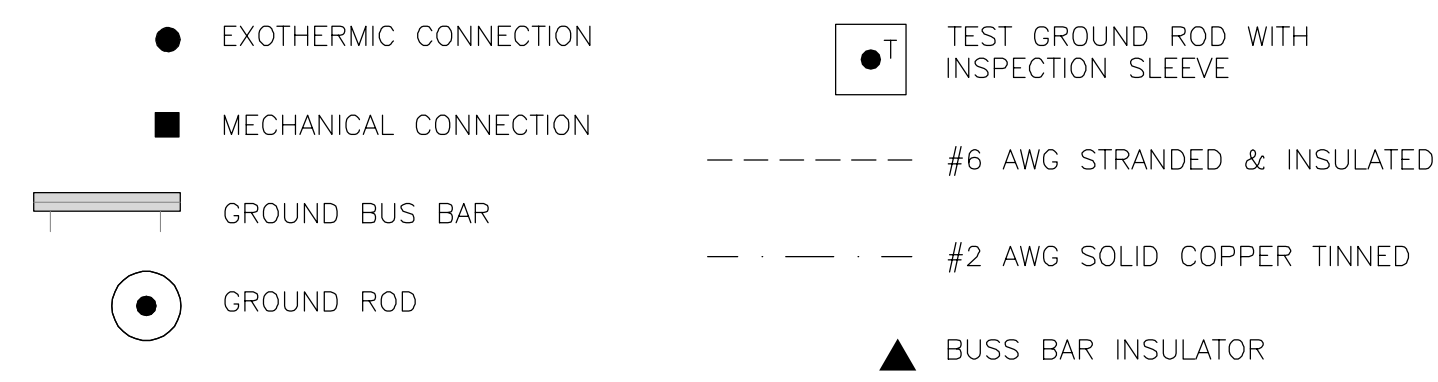
NOTES

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



TYPICAL ANTENNA GROUNDING PLAN

NO SCALE 2



GROUNDING LEGEND

- GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY.
- CONTRACTOR SHALL GROUND ALL EQUIPMENT AS A COMPLETE SYSTEM. GROUNDING SHALL BE IN COMPLIANCE WITH NEC SECTION 250 AND DISH WIRELESS, LLC. GROUNDING AND BONDING REQUIREMENTS AND MANUFACTURER'S SPECIFICATIONS.
- 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, LLC. GROUNDING NOTES.

GROUNDING KEY NOTES

NO SCALE 3



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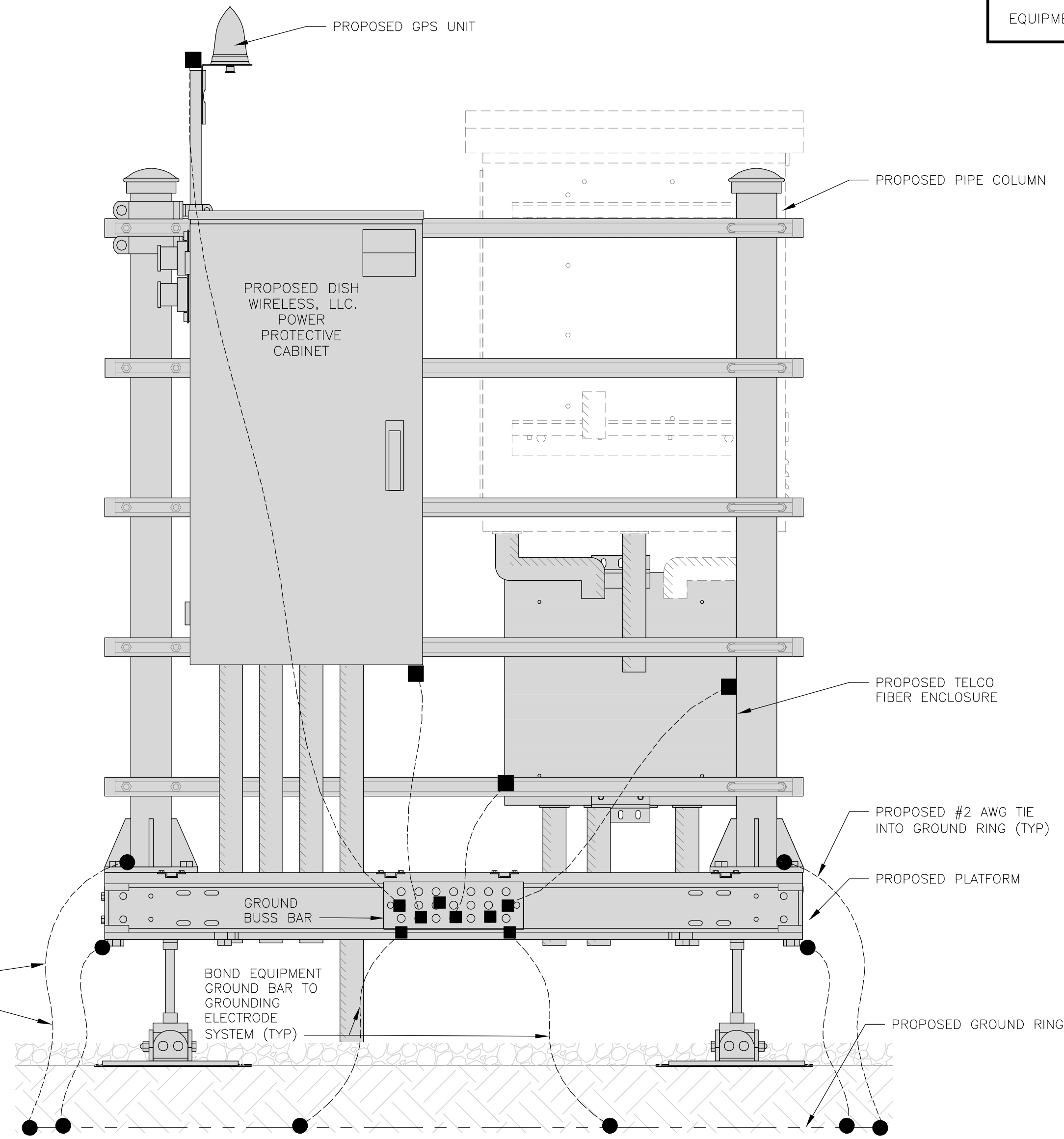
SHEET TITLE
GROUNDING PLAN
AND NOTES

SHEET NUMBER

G-1

NOTES

EQUIPMENT CABINET OMITTED FOR CLARITY

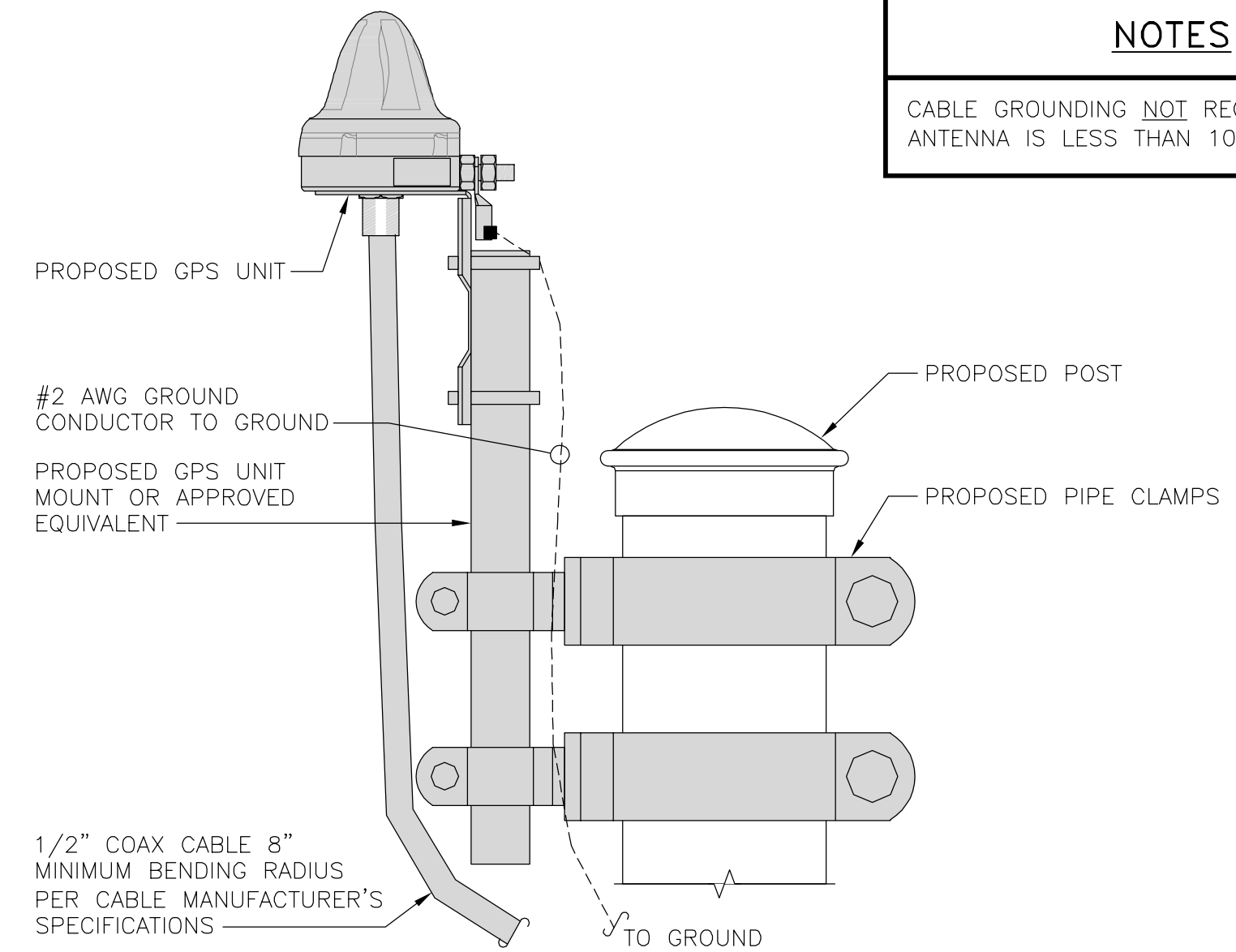


H-FRAME GROUNDING DETAIL

NO SCALE 1

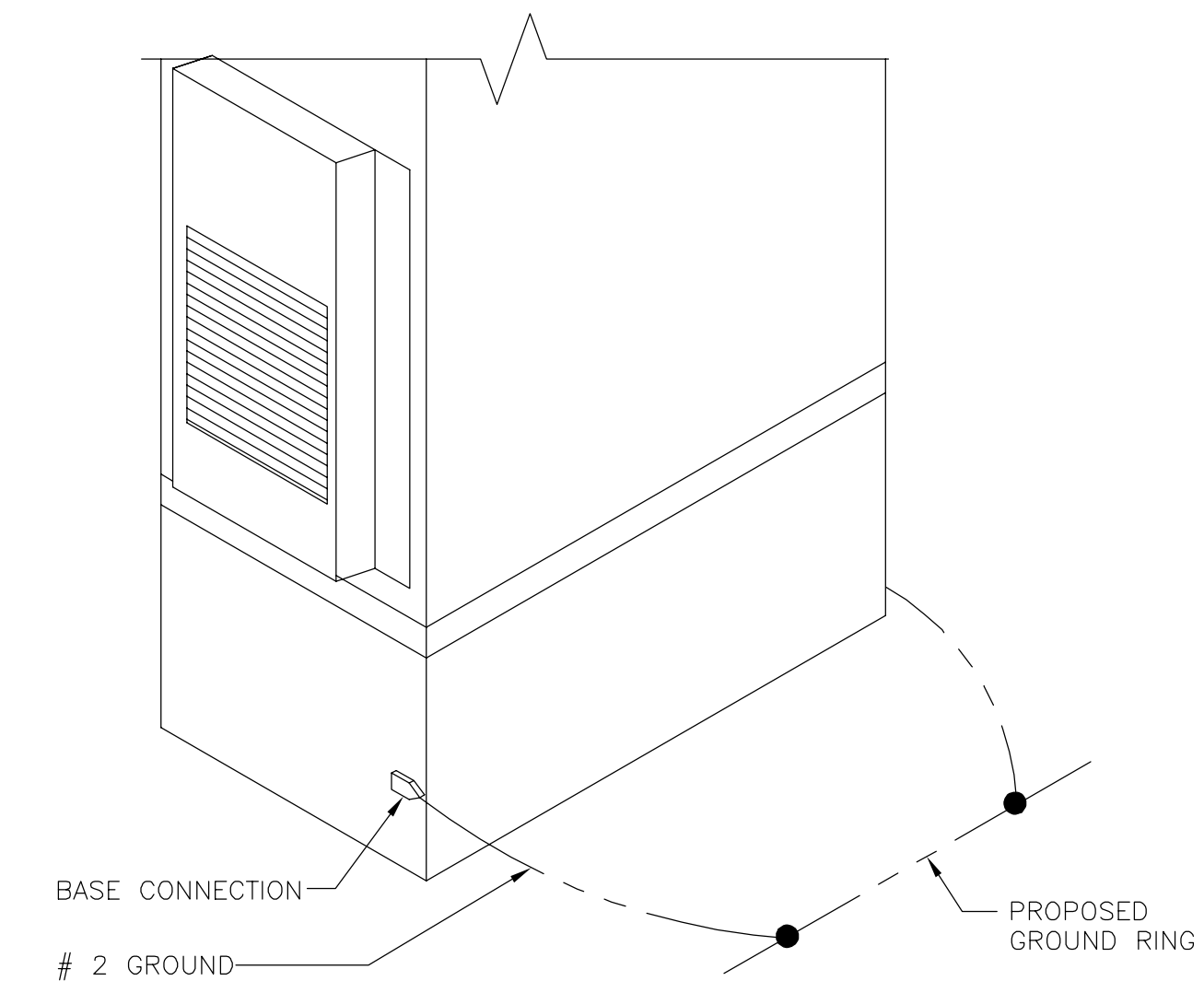
NOTES

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



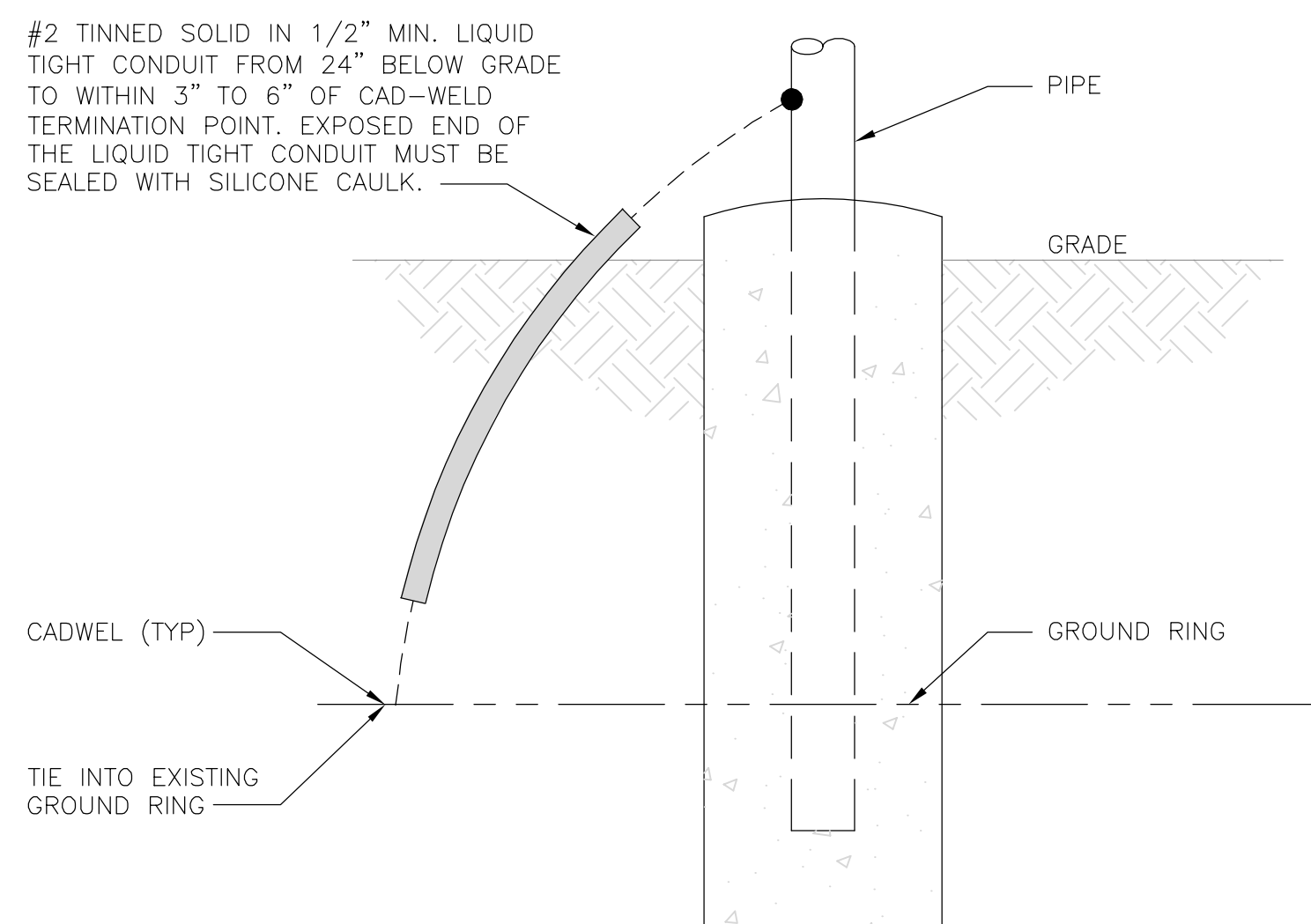
TYPICAL GPS UNIT GROUNDING

NO SCALE 2



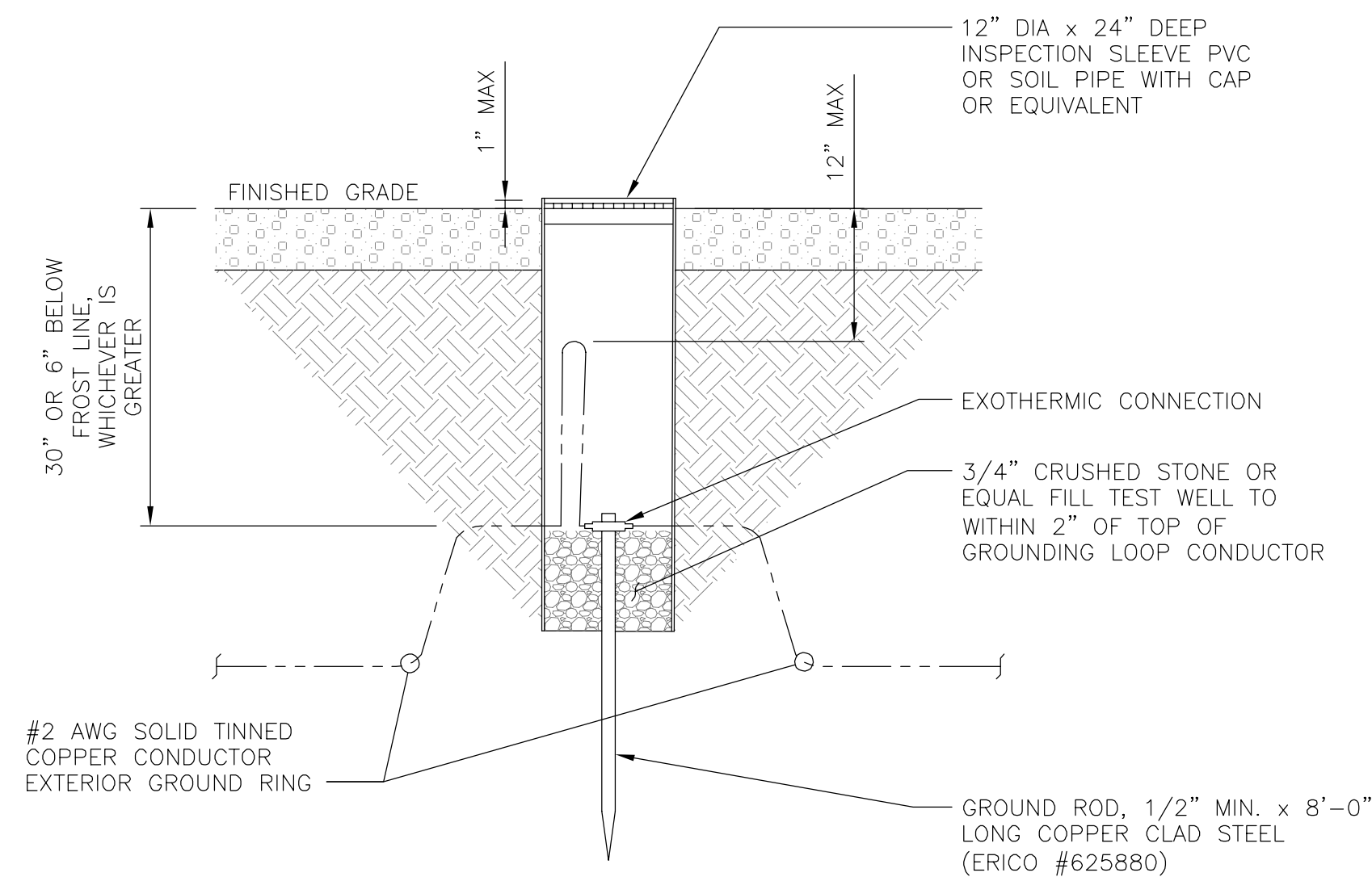
OUTDOOR CABINET GROUNDING

NO SCALE 3



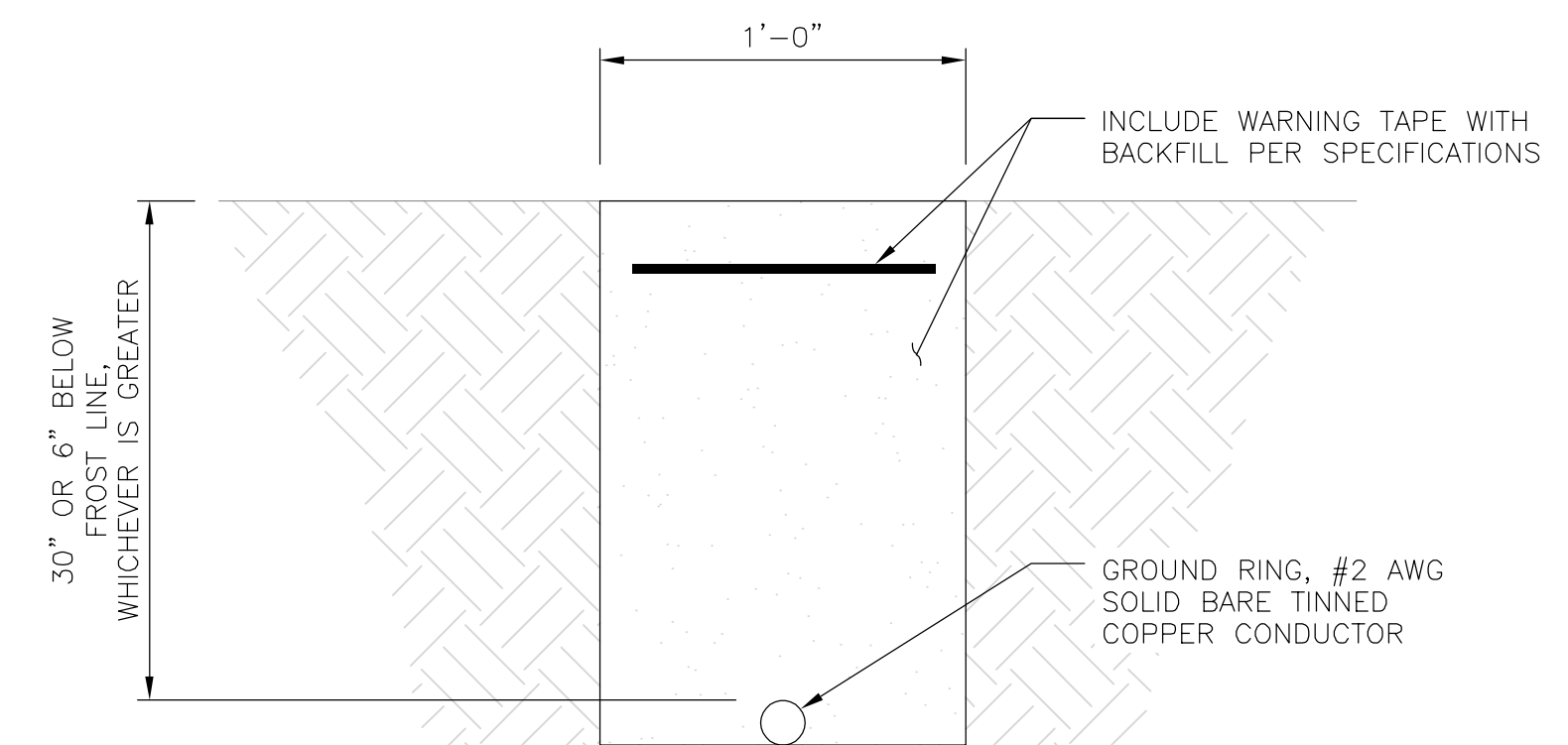
TRANSITIONING GROUND DETAIL

NO SCALE 4



TYPICAL TEST GROUND ROD WITH INSPECTION SLEEVE

NO SCALE 5



TYPICAL GROUND RING TRENCH

NO SCALE 6

dish
wireless.

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NB+C
TOTALLY COMMITTED.

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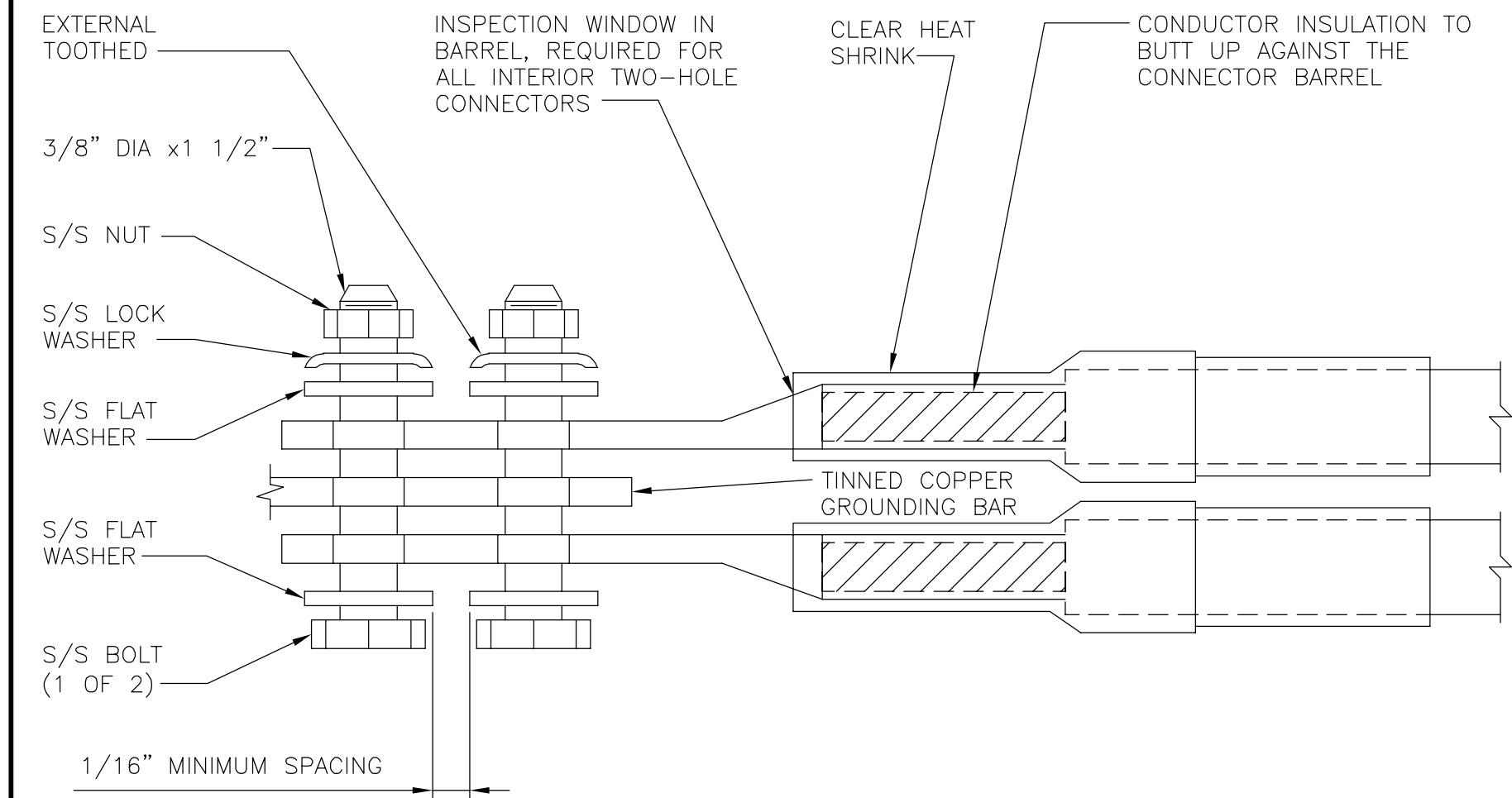
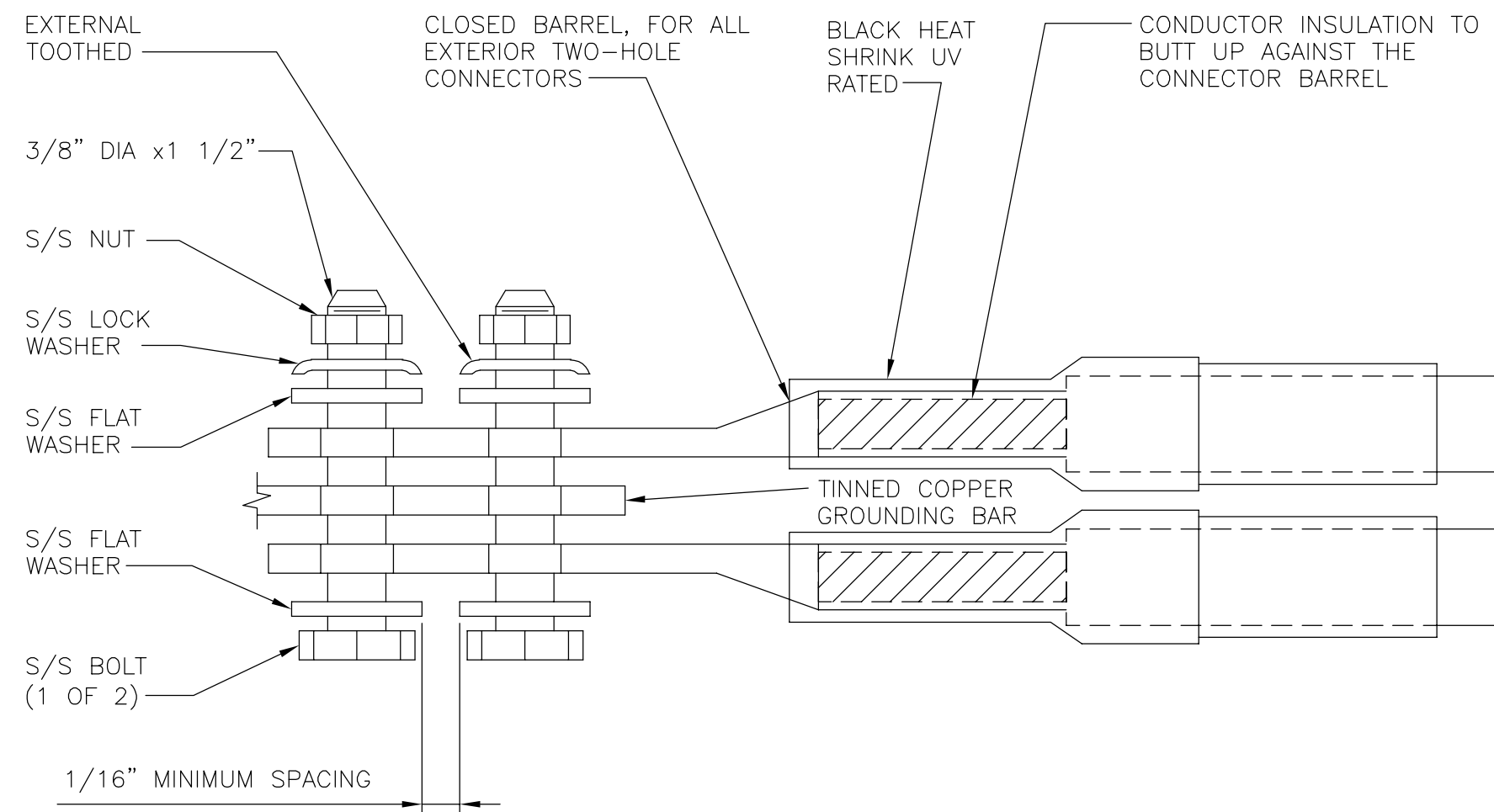
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GROUNDING DETAILS

SHEET NUMBER

G-2

- 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.
- 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.
- FOR GROUND BOND TO STEEL ONLY: COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- DO NOT INSTALL CABLE GROUNDING KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUNDING BUS.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE.
- ALL GROUNDING PARTS AND EQUIPMENT TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).

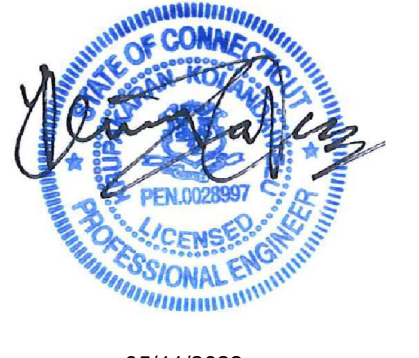


dish
wireless™

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NB+C
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NB+C ENGINEERING SERVICES, LLC.
8601 SIX FORKS ROAD, SUITE 540
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(919) 657-9131



05/11/2022

KRUPAKARAN KOLANDAIVELU, P.E.
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
LICENSE #PEN.0028997

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AN	BRN	TA

RFDS REV #: ---

CONSTRUCTION
DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
0	12/21/2021	ISSUED FOR CONSTRUCTION
1	03/01/2022	ISSUED FOR CONSTRUCTION
2	05/11/2022	ISSUED FOR CONSTRUCTION

A&E PROJECT NUMBER
828540

DISH WIRELESS, LLC.
PROJECT INFORMATION
BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-3

TYPICAL GROUNDING NOTES

NO SCALE

1

TYPICAL EXTERIOR TWO HOLE LUG

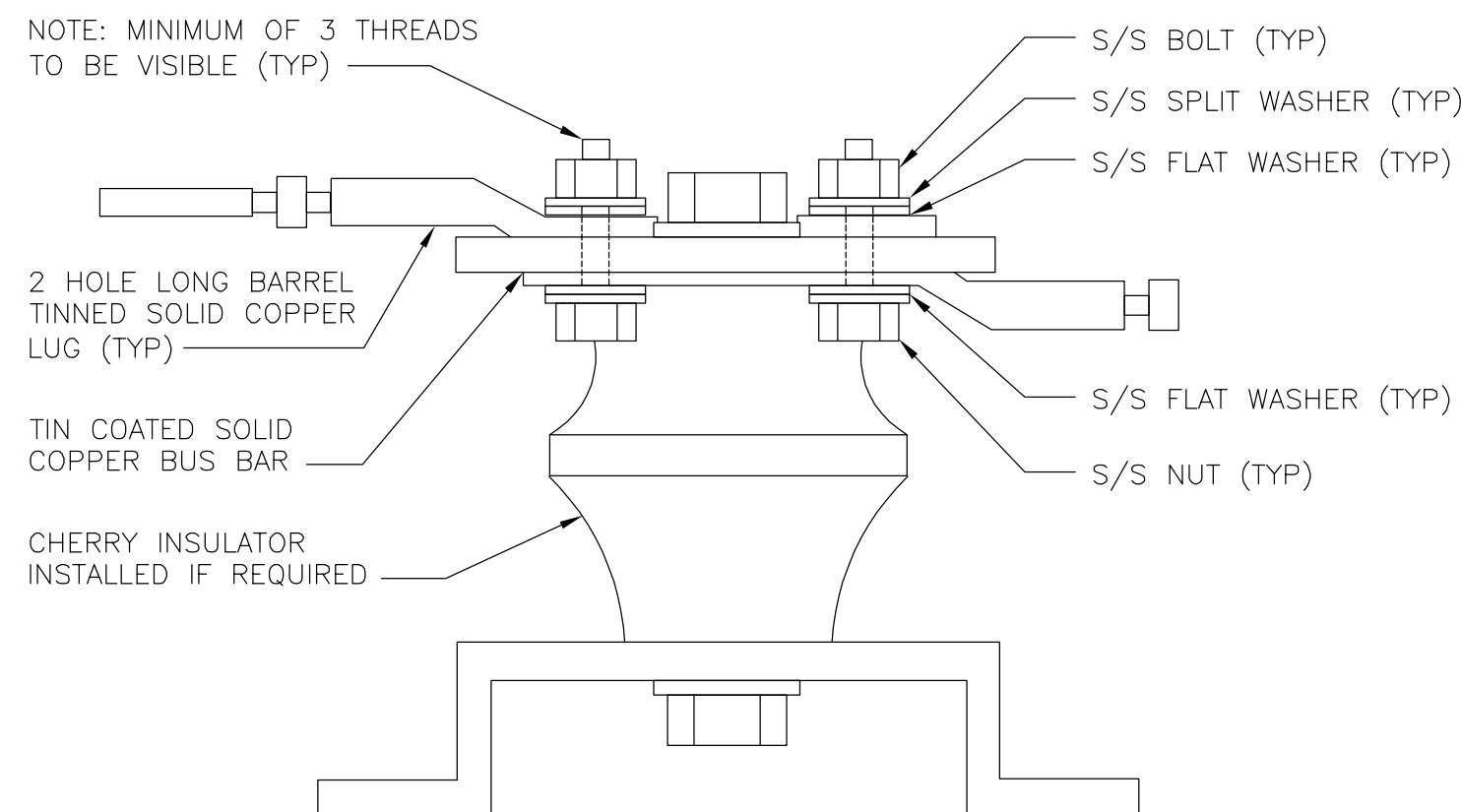
NO SCALE

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

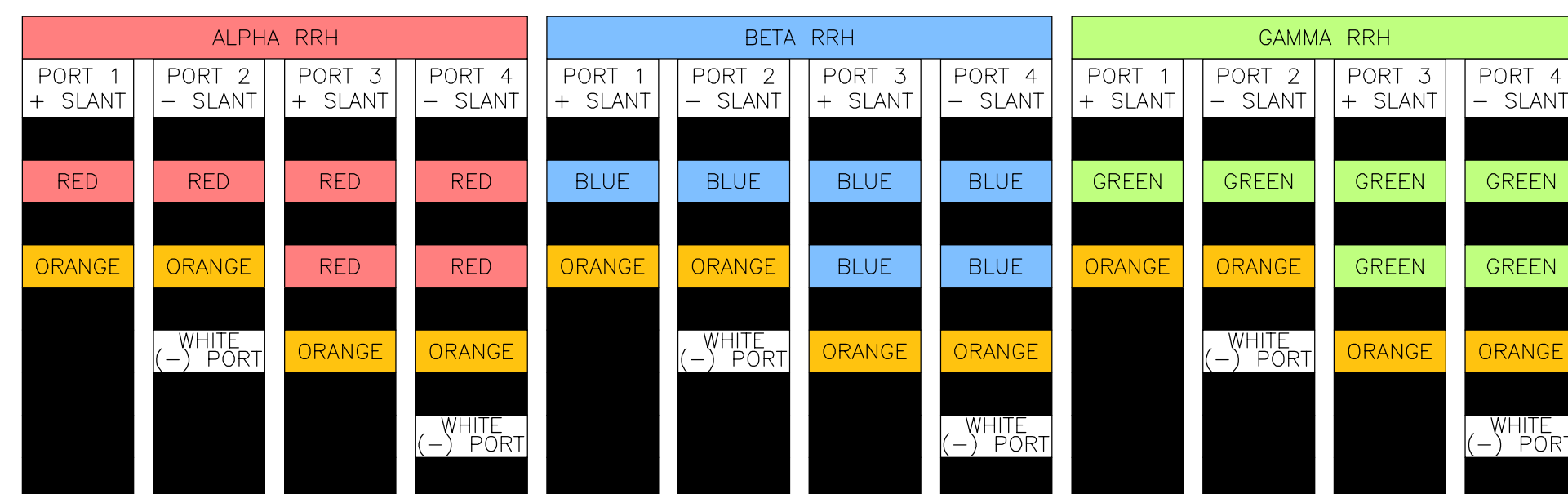
NO SCALE

9

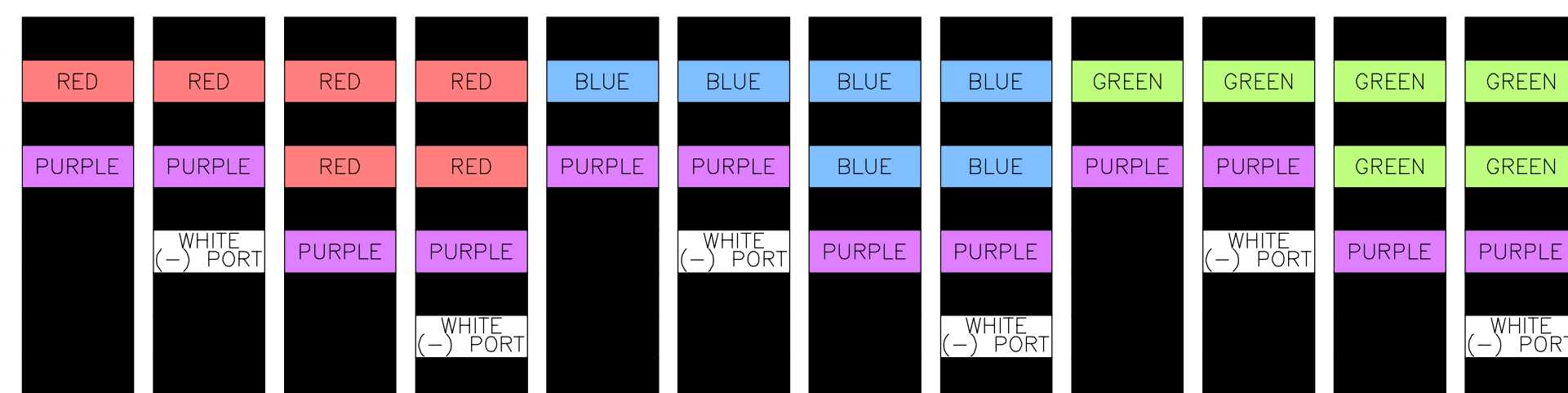
HYBRID/DISCREET CABLES

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

LOW-BAND RRH
(600 MHz N71 BASEBAND) +
(850 MHz N26 BAND) +
(700 MHz N29 BAND) - OPTIONAL PER MARKET
ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BAND)



MID-BAND RRH
(AWS BANDS N66+N70)
ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BANDS)



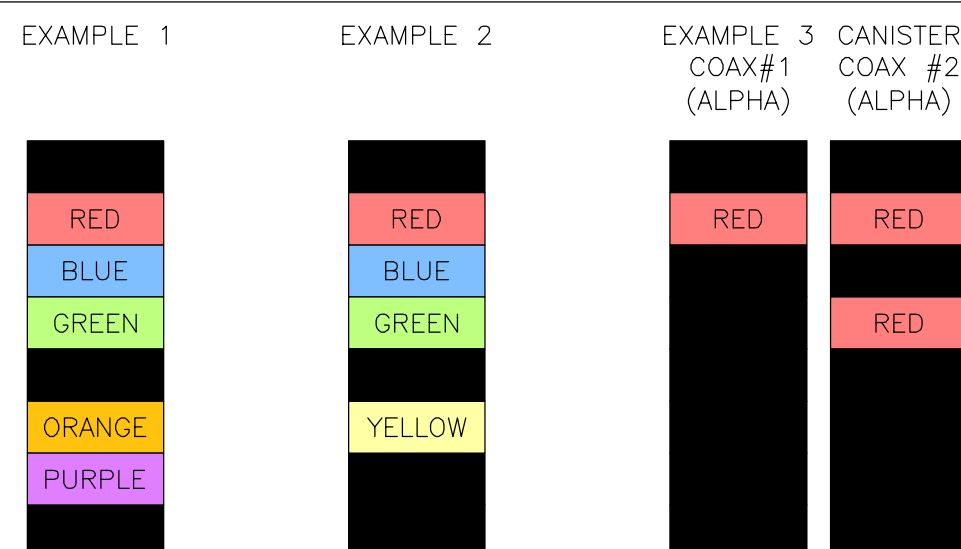
HYBRID/DISCREET CABLES

INCLUDE SECTOR BANDS BEING SUPPORTED
ALONG WITH FREQUENCY BANDS.

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

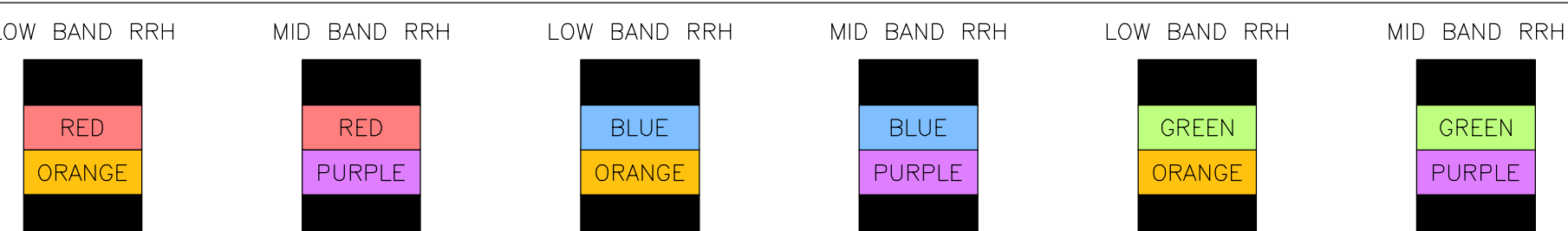
EXAMPLE 2 - HYBRID, OR DISCREET, SUPPORTS
CBRS ONLY, ALL SECTORS.

EXAMPLE 3 - MAIN COAX WITH GROUND
MOUNTED RRHS.



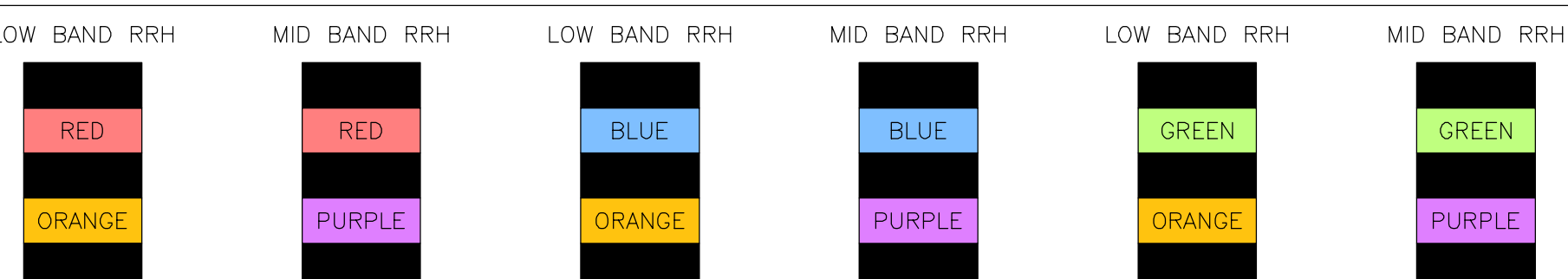
FIBER JUMPERS TO RRHS

LOW-BAND HHR FIBER CABLES HAVE SECTOR
STRIPE ONLY.



POWER CABLES TO RRHS

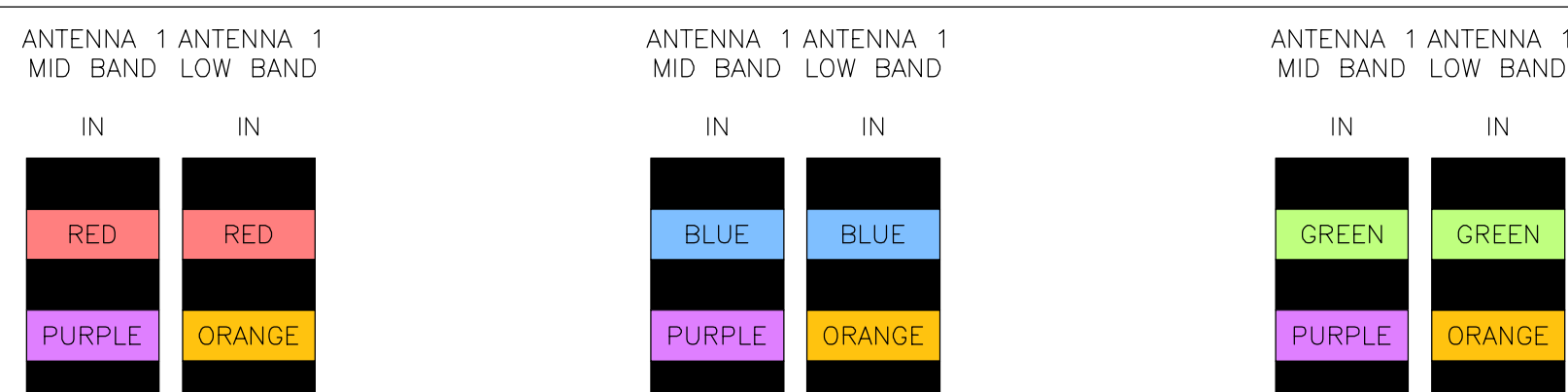
LOW-BAND RRH POWER CABLES HAVE SECTOR
STRIPE ONLY



RET MOTORS AT ANTENNAS

RET CONTROL IS HANDLED BY THE MID-BAND
RRH WHEN ONE SET OF RET PORTS EXIST ON
ANTENNA.

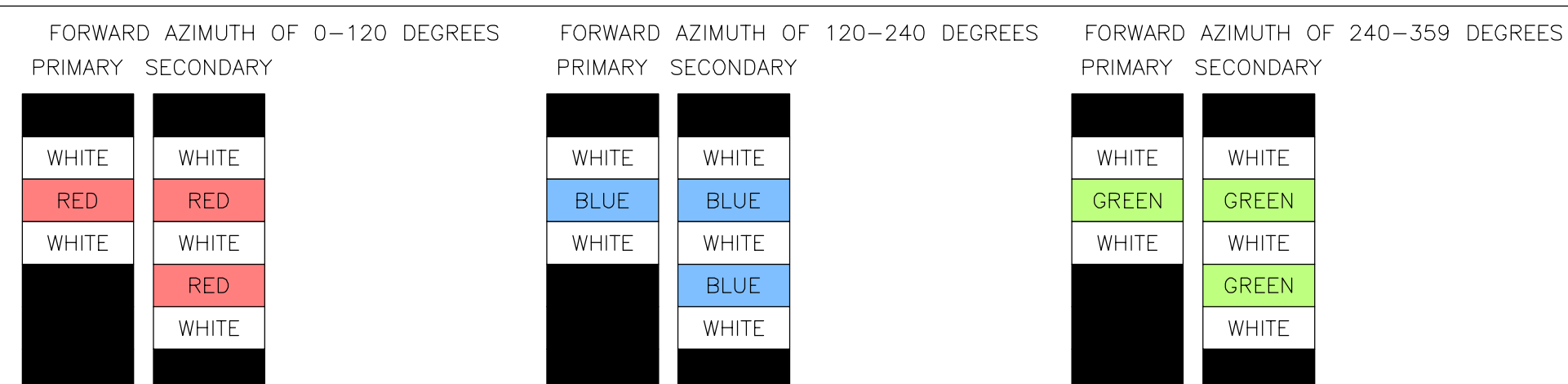
SEPARATE RET CABLES ARE USED WHEN
ANTENNA PORTS PROVIDE INPUTS FOR BOTH
LOW AND MID BANDS.



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.



LOW BANDS (N71+N26)
OPTIONAL - (N29)



AWS
(N66+N70+H-BLOCK)



CBRS TECH
(3 GHz)



NEGATIVE SLANT PORT
ON ANT/RRH



ALPHA SECTOR



BETA SECTOR



GAMMA SECTOR



COLOR IDENTIFIER

2

NOT USED

3

RF CABLE COLOR CODES

1

NOT USED

4



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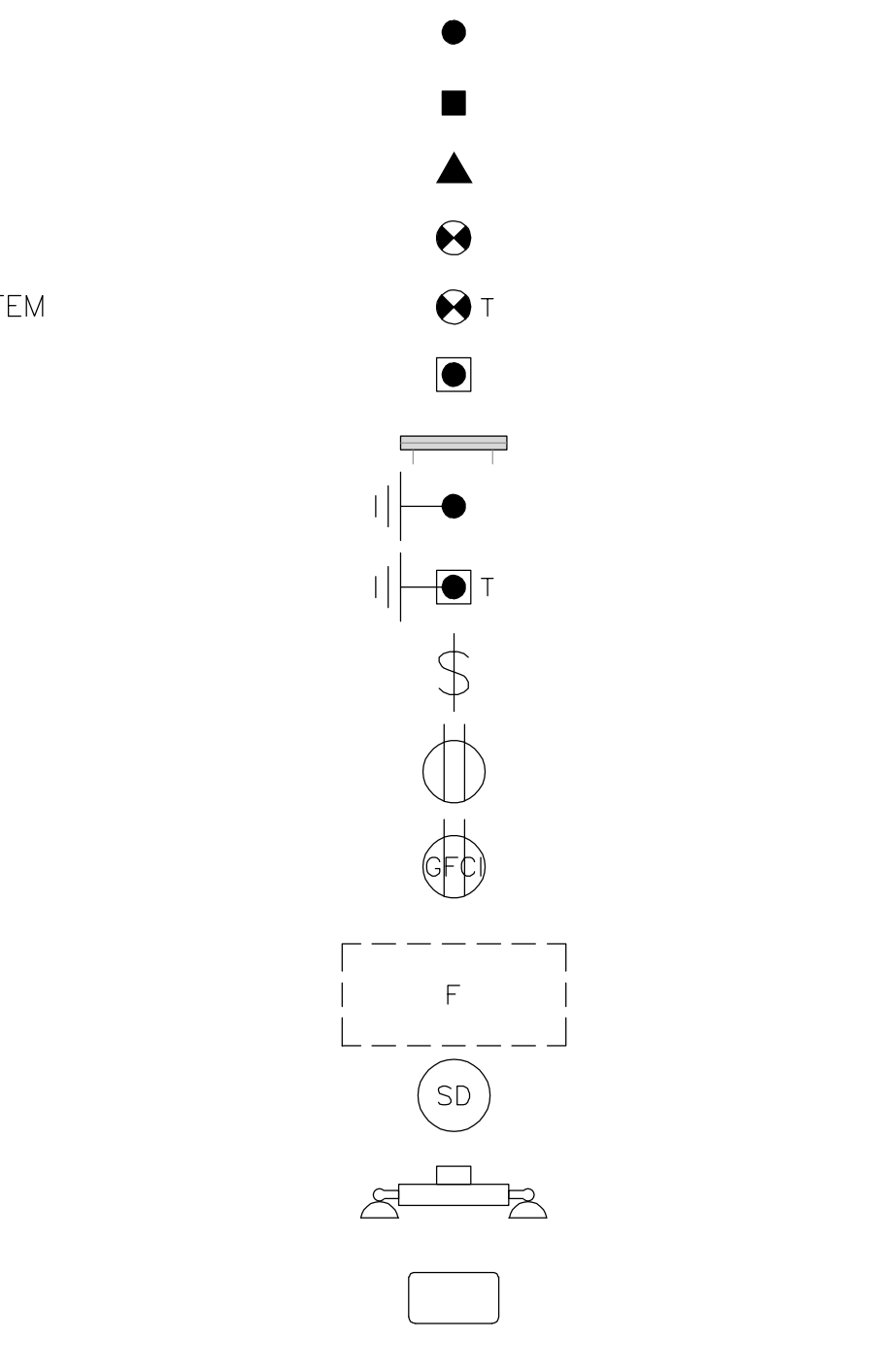
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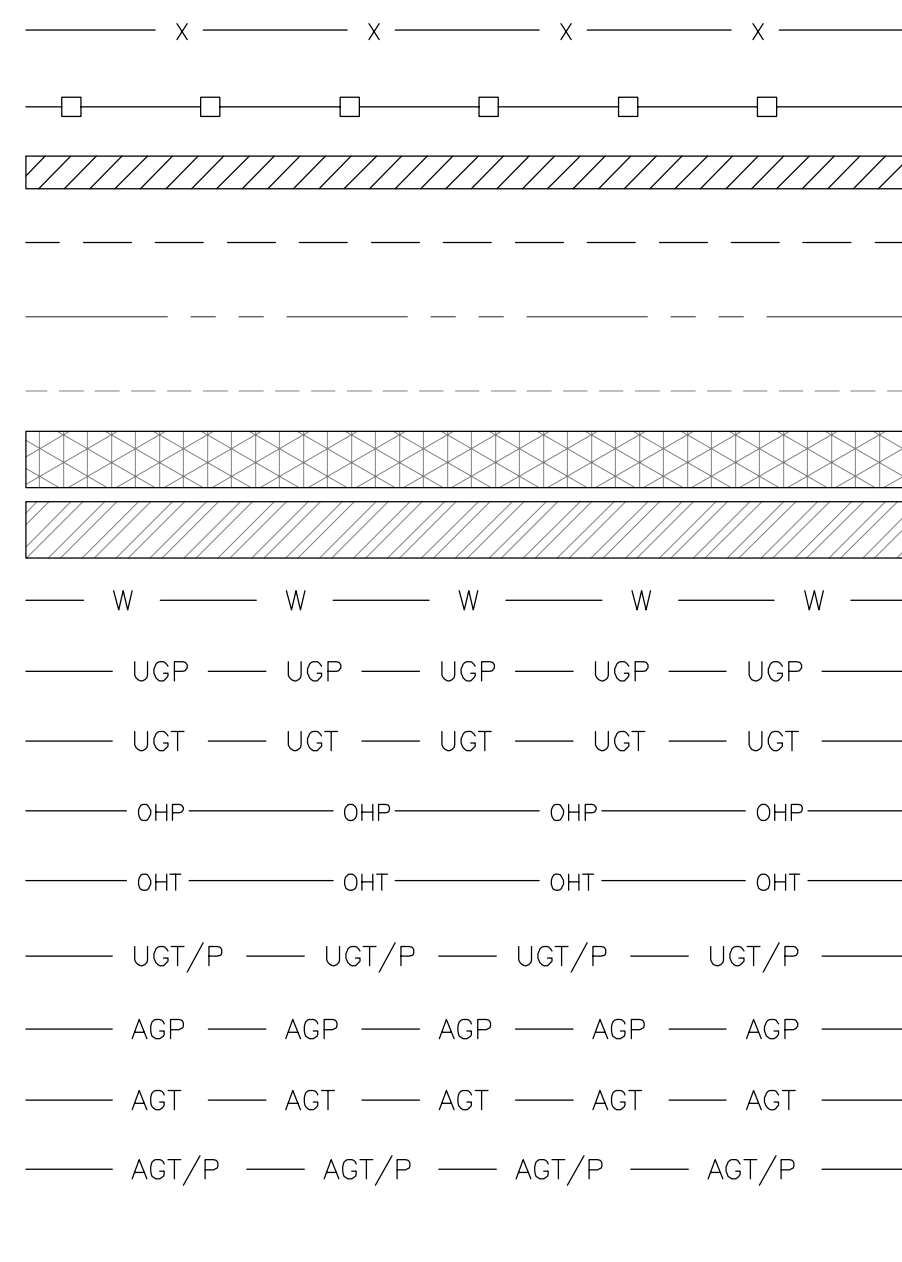
SHEET TITLE
RF CABLE
COLOR CODE

SHEET NUMBER
RF-1

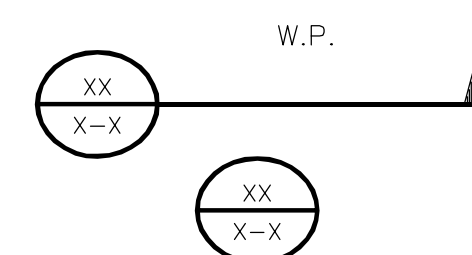
EXOTHERMIC CONNECTION
 MECHANICAL CONNECTION
 BUSS BAR INSULATOR
 CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
 TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
 EXOTHERMIC WITH INSPECTION SLEEVE
 GROUNDING BAR
 GROUND ROD
 TEST GROUND ROD WITH INSPECTION SLEEVE
 SINGLE POLE SWITCH
 DUPLEX RECEPTACLE
 DUPLEX GFCI RECEPTACLE
 FLUORESCENT LIGHTING FIXTURE
 (2) TWO LAMPS 48-T8
 SMOKE DETECTION (DC)
 EMERGENCY LIGHTING (DC)
 SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW
 LED-1-25A400/51K-SR4-120-PE-DEBTDX



CHAIN LINK FENCE
 WOOD/WROUGHT IRON FENCE
 WALL STRUCTURE
 LEASE AREA
 PROPERTY LINE (PL)
 SETBACKS
 ICE BRIDGE
 CABLE TRAY
 WATER LINE
 UNDERGROUND POWER
 UNDERGROUND TELCO
 OVERHEAD POWER
 OVERHEAD TELCO
 UNDERGROUND TELCO/POWER
 ABOVE GROUND POWER
 ABOVE GROUND TELCO
 ABOVE GROUND TELCO/POWER
 WORKPOINT



SECTION REFERENCE
 DETAIL REFERENCE



LEGEND

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 UNINTERRUPTIBLE POWER SYSTEM (DC POWER PLANT)
 VIF VERIFIED IN FIELD
 W WIDE
 W/ WITH
 WD WOOD
 WP WEATHERPROOF
 WT WEIGHT

ABBREVIATIONS



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A&E PROJECT NUMBER
828540

DISH WIRELESS, LLC.
 PROJECT INFORMATION
BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

SHEET TITLE
LEGEND AND ABBREVIATIONS

SHEET NUMBER

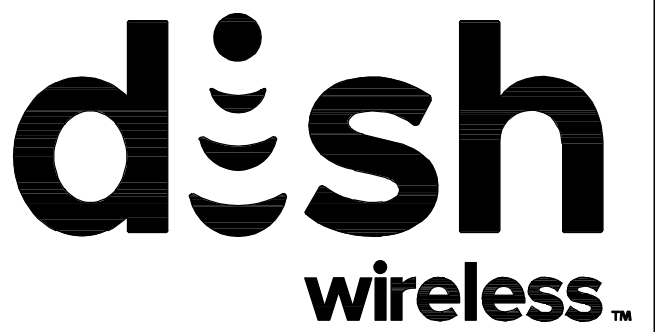
GN-1

SITE ACTIVITY REQUIREMENTS:

- 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.
- "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.
- 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.
- 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).
- 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."
- 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.
- 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.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES INCLUDING PRIVATE LOCATES SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 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.
- ALL SITE WORK SHALL BE AS INDICATED ON THE STAMPED CONSTRUCTION DRAWINGS AND DISH PROJECT SPECIFICATIONS, LATEST APPROVED REVISION.
- 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.
- 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.
- 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.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE CARRIER'S EQUIPMENT AND TOWER AREAS.
- THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.
- 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:

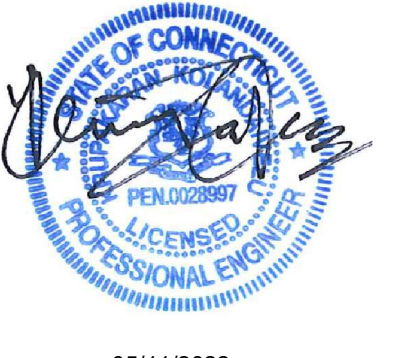
- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR:GENERAL CONTRACTOR RESPONSIBLE FOR CONSTRUCTION
CARRIER:DISH Wireless L.L.C.
TOWER OWNER:TOWER OWNER
- THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 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.
- 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.
- 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
- 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.
- CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION. TRASH AND DEBRIS SHOULD BE REMOVED FROM SITE ON A DAILY BASIS.



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05/11/2022

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TORRINGTON, CT 06790

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-2

CONCRETE, FOUNDATIONS, AND REINFORCING STEEL:

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

- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES/ORDINANCES.
- CONDUIT ROUTINGS ARE SCHEMATIC. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC.
 - ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE NATIONAL ELECTRICAL CODE.
 - 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.
- 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.
- 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).
- PANEL BOARDS (ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
- TIE WRAPS ARE NOT ALLOWED.
- 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.
- 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.
- POWER AND CONTROL WIRING IN FLEXIBLE CORD SHALL BE MULTI-CONDUCTOR, TYPE SOOW CORD (#14 OR LARGER) UNLESS OTHERWISE SPECIFIED.
- 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.
- 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).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
- ELECTRICAL METALLIC TUBING (EMT), INTERMEDIATE METAL CONDUIT (IMC), OR RIGID METAL CONDUIT (RMC) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

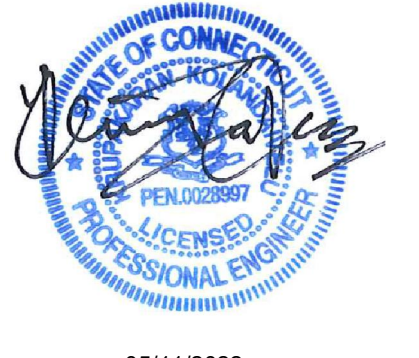
- ELECTRICAL METALLIC TUBING (EMT) OR METAL-CLAD CABLE (MC) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- SCHEDULE 40 PVC UNDERGROUND ON STRAIGHTS AND SCHEDULE 80 PVC FOR ALL ELBOWS/90s AND ALL APPROVED ABOVE GRADE PVC CONDUIT.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SET SCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND THE NEC.
- WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).
- SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- INSTALL LAMICOID LABEL ON THE METER CENTER TO SHOW "DISH Wireless L.L.C.".
- ALL EMPTY/SPARE CONDUITS THAT ARE INSTALLED ARE TO HAVE A METERED MULE TAPE PULL CORD INSTALLED.



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A&E PROJECT NUMBER
828540

DISH WIRELESS, LLC.
PROJECT INFORMATION
BOHVN00201A
218 WHEELER ROAD
TORRINGTON, CT 06790

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-3

GROUNDING NOTES:

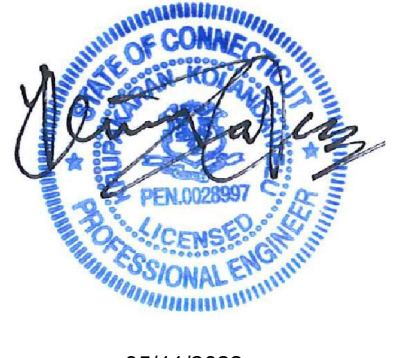
1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE CONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (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.



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SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-4

Exhibit D

Structural Analysis Report

Date: July 21, 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: BOHVN00201A
Site Name: CT-CCI-T-828540

Crown Castle Designation:
BU Number: 828540
Site Name: Torrington/RT 8
JDE Job Number: 645139
Work Order Number: 1966251
Order Number: 553393 Rev. 0

Engineering Firm Designation: Morrison Hershfield Project Number: CN8-315R1 / 2101398

Site Data: 218 Wheeler Road, Torrington, Litchfield County, CT 06790
Latitude 41° 46' 50.33", Longitude -73° 8' 10.02"
160 Foot – PiRod Monopole Tower

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

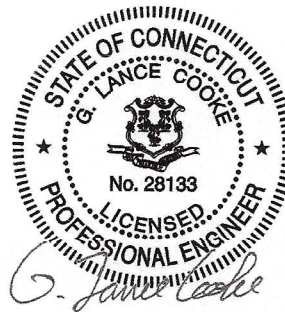
The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Proposed Equipment Configuration **Sufficient Capacity**

This analysis utilizes an ultimate 3-second gust wind speed of 120 mph as required by the 2018 Connecticut State Building Code. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Respectfully submitted by:

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



Digitally signed by
G. Lance Cooke
Date: 2021.07.22
16:18:04-07'00'

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1) INTRODUCTION

This tower is a 160 ft Monopole tower designed by Pirod Manufacturers INC..

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	II
Wind Speed:	120 mph
Exposure Category:	B
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
120.0	120.0	3	jma wireless	MX08FRO665-21 w/ Mount Pipe	1	1-1/2
		3	fujitsu	TA08025-B604		
		3	fujitsu	TA08025-B605		
		1	raycap	RDIDC-9181-PF-48		
		1	-	Commscope MC-PK8-DSH		

Table 2 - Non-Carrier Equipment To Be Removed

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
120.0	120.0	3	Rfs / Celwave	APXV18-206517-C	6	1-5/8
		1	-	Pipe Mount [PM 601-3]		

Table 3 - 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)
160.0	160.0	1		OA40-41	4 1	1-5/8 7/8
		3	ericsson	AIR 32 B2A B66AA w/ Mount Pipe		
		3	ericsson	AIR6449 B41 w/ Mount Pipe		
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe		
		3	rfs celwave	APXVAARR24_43-U-NA20 w/ Mount Pipe		
		3	ericsson	RADIO 4449 B71 B85A_T-MOBILE		
		3	ericsson	RRUS 4415 B25		
		3	ericsson	KRY 112 144/1		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		1	-	Platform Mount [LP 405-1_HR-1]		
152.0	153.0	3	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe	4	1-1/4
		3	rfs celwave	APXVTM14-ALU-I20 w/ Mount Pipe		
	152.0	3	alcatel lucent	TD-RRH8X20-25		
		1	tower mounts	Platform Mount [LP 1201-1_HR-3]		
148.0	148.0	3	alcatel lucent	800MHz 2X50W RRH W/FILTER	-	-
		3	alcatel lucent	PCS 1900MHz 4x45W-65MHz		
		1	tower mounts	Pipe Mount [PM 601-3]		
140.0	140.0	3	vzw	Sub6 Antenna - VZS01 w/ Mount Pipe	6 1	1-5/8 7/8
		3	antel	BXA-70063-4CF-EDIN-5 w/ Mount Pipe		
		1	gps	GPS_A		
		6	quintel technology	QS6656-5D		
		1	rfs celwave	DB-C1-12C-24AB-0Z		
		3	samsung telecommunications	RFV01U-D1A		
		3	samsung telecommunications	RFV01U-D2A		
		3	-	2" Edge-to-Edge Bracket w/Mount Pipe		
		1	-	Platform Mount [LP 304-1]		
130.0	130.0	1	andrew	SBNHH-1D65A w/ Mount Pipe	12 2 1 1	1-5/8 3/4 3/8 2C
		2	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe		
		1	kathrein	800 10764 w/ Mount Pipe		
		2	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe		
		3	powerwave technologies	7770.00 w/ Mount Pipe		
		3	ericsson	RRUS 32 B2		
		6	ericsson	RRUS 11		
		1	raycap	DC6-48-60-18-8F		
		1	-	Platform Mount [LP 304-1]		
		100.0	100.0	2		
2	-			Side Arm Mount [SO 203-1]		
79.0	79.0	1	gps	GPS_A	1	1/2
		1	-	Side Arm Mount [SO 702-1]		

3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Reference	Source
4-GEOTECHNICAL REPORTS	3463255	CCISITES
4-TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	3464896	CCISITES
4-TOWER MANUFACTURER DRAWINGS	3463264	CCISITES

3.1) Analysis Method

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

3.2) Assumptions

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

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 5 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
L1	160 - 140	Pole	P36x0.375	1	-13.34	1564.60	10.4	Pass
L2	140 - 120	Pole	P42x0.375	2	-24.13	1752.31	23.2	Pass
L3	120 - 100	Pole	P48x0.375	3	-32.72	1939.86	35.1	Pass
L4	100 - 80	Pole	P54x0.375	4	-96.91	2127.30	50.5	Pass
L5	80 - 60	Pole	P60x0.375	5	-103.62	2314.65	55.5	Pass
L6	60 - 40	Pole	P60x0.5	6	-112.20	3281.97	51.2	Pass
L7	40 - 20	Pole	P60x0.5	7	-120.87	3281.97	62.8	Pass
L8	20 - 0	Pole	P60x0.625	8	-131.43	4346.11	58.5	Pass
							Summary	
						Pole (L7)	62.8	Pass
						Rating =	62.8	Pass

Table 6 - Tower Component Stresses vs. Capacity – LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Connection	140	11.0	Pass
1	Flange Connection	120	22.5	Pass
1	Flange Connection	100	35.3	Pass
1	Flange Connection	80	44.9	Pass
1	Flange Connection	60	35.3	Pass
1	Flange Connection	40	58.8	Pass
1	Flange Connection	20	85.3	Pass
1	Anchor Rods	0	49.4	Pass
1	Base Plate		62.8	Pass
1	Base Foundation (Structure)	0	48.2	Pass
1	Base Foundation (Soil Interaction)		51.8	Pass

Structure Rating (max from all components) =	85.3%*
---	---------------

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/shaft.
- 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

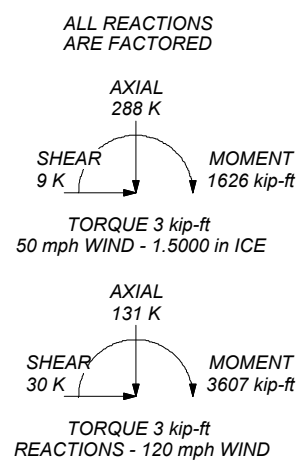
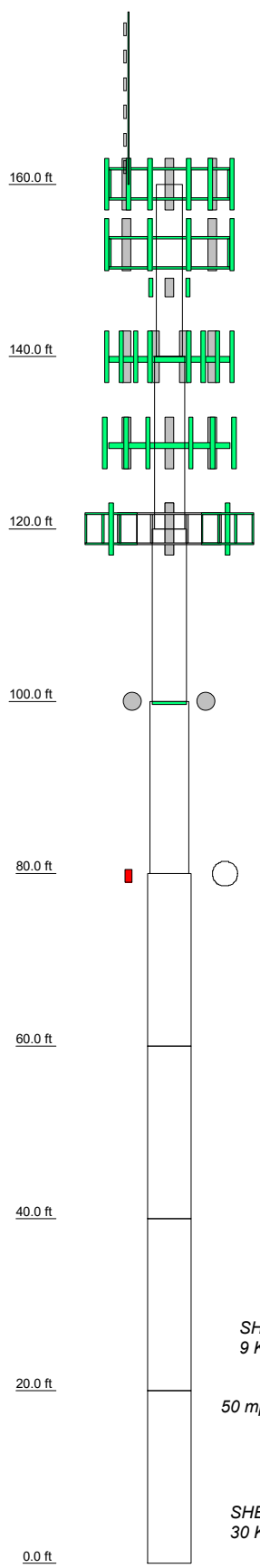
MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Litchfield County, Connecticut.
2. Tower designed for Exposure B to the TIA-222-H Standard.
3. Tower designed for a 120 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 62.8%

Section	1	2	3	4	5	6	7	8
Size	P36x0.375	P42x0.375	P48x0.375	P54x0.375	P60x0.375	P60x0.5	P60x0.5	P60x0.625
Length (ft)	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Grade	A53-B-42							
Weight (K)	2.9	3.3	3.8	4.3	4.8	6.4	6.4	7.9
								39.7



Morrison Hershfield
 1455 Lincoln Parkway, Suite 500
 Atlanta, GA 30346
 Phone: (770) 379-8500
 FAX: (770) 379-8501

Job: CN8-315R1 / 2101398		
Project: 828540 / Torrington/RT 8		
Client: Crown Castle USA	Drawn by: KV	App'd:
Code: TIA-222-H	Date: 07/21/21	Scale: NTS
Path:		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 Litchfield County, Connecticut.

Tower base elevation above sea level: 1027.00 ft.

Basic wind speed of 120 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 1.5000 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
- Consider Moments - Horizontals
- Consider Moments - Diagonals
- Use Moment Magnification
- √ Use Code Stress Ratios
- √ Use Code Safety Factors - Guys
- Escalate Ice
- Always Use Max Kz
- Use Special Wind Profile

- Include Bolts In Member Capacity

- Leg Bolts Are At Top Of Section
- Secondary Horizontal Braces Leg
- Use Diamond Inner Bracing (4 Sided)
- SR Members Have Cut Ends
- SR Members Are Concentric

- Distribute Leg Loads As Uniform
- Assume Legs Pinned
- √ Assume Rigid Index Plate
- √ Use Clear Spans For Wind Area
- Use Clear Spans For KL/r
- Retension Guys To Initial Tension
- √ Bypass Mast Stability Checks
- √ Use Azimuth Dish Coefficients
- √ Project Wind Area of Appurt.

- Autocalc Torque Arm Areas

- Add IBC .6D+W Combination
- √ Sort Capacity Reports By Component
- Triangulate Diamond Inner Bracing
- Treat Feed Line Bundles As Cylinder
- Ignore KL/ry For 60 Deg. Angle Legs

- Use ASCE 10 X-Brace Ly Rules
- Calculate Redundant Bracing Forces
- Ignore Redundant Members in FEA
- SR Leg Bolts Resist Compression
- All Leg Panels Have Same Allowable
- Offset Girt At Foundation
- √ Consider Feed Line Torque
- Include Angle Block Shear Check
- Use TIA-222-H Bracing Resist. Exemption
- Use TIA-222-H Tension Splice Exemption

Poles

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

Pole Section Geometry

Section	Elevation ft	Section Length ft	Pole Size	Pole Grade	Socket Length ft
L1	160.00-140.00	20.00	P36x0.375	A53-B-42 (42 ksi)	
L2	140.00-120.00	20.00	P42x0.375	A53-B-42 (42 ksi)	
L3	120.00-100.00	20.00	P48x0.375	A53-B-42 (42 ksi)	
L4	100.00-80.00	20.00	P54x0.375	A53-B-42 (42 ksi)	
L5	80.00-60.00	20.00	P60x0.375	A53-B-42 (42 ksi)	
L6	60.00-40.00	20.00	P60x0.5	A53-B-42 (42 ksi)	
L7	40.00-20.00	20.00	P60x0.5	A53-B-42 (42 ksi)	
L8	20.00-0.00	20.00	P60x0.625	A53-B-42 (42 ksi)	

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
L1 160.00-140.00				1	1	1			
L2 140.00-120.00				1	1	1			
L3 120.00-100.00				1	1	1			
L4 100.00-80.00				1	1	1			
L5 80.00-60.00				1	1	1			
L6 60.00-40.00				1	1	1			
L7 40.00-20.00				1	1	1			
L8 20.00-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Start/End Position	Width or Diameter in	Perimeter in	Weight plf
*** PiRod Ladder	A	No	Surface Ar (CaAa)	160.00 - 0.00	1	1	0.500 0.500	0.5400		2.00
Safety Line 3/8	A	No	Surface Ar (CaAa)	160.00 - 0.00	1	1	0.500 0.500	0.3750		0.22
*** 810921-001(7/8)	C	No	Surface Ar (CaAa)	160.00 - 0.00	1	1	-0.320 -0.300	1.1120		0.40
*** LDF7-50A(1-5/8)	C	No	Surface Ar (CaAa)	140.00 - 0.00	6	6	0.210 0.480	1.9800		0.82
LDF5-50A(7/8)	C	No	Surface Ar (CaAa)	140.00 - 0.00	1	1	0.480 0.500	1.0900		0.33
** CU12PSM9P6XXX(1-1/2)	B	No	Surface Ar (CaAa)	120.00 - 0.00	1	1	-0.300 -0.300	1.6000		2.35

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

CAT5E(1/4)	C	No	Surface Ar (CaAa)	100.00 - 0.00	4	1	-0.300 -0.250	0.2500		0.10

LDF4-50A(1/2)	B	No	Surface Ar (CaAa)	79.00 - 0.00	1	1	-0.250 -0.250	0.6250		0.15

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} ft ² /ft	Weight plf

MLE HYBRID 9POWER/18FIBER RL 2(1-5/8)	A	No	No	Inside Pole	160.00 - 0.00	1	No Ice	0.00	1.07
							1/2" Ice	0.00	1.07
							1" Ice	0.00	1.07
							2" Ice	0.00	1.07
HCS 6X12 4AWG(1-5/8)	A	No	No	Inside Pole	160.00 - 0.00	3	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
HB114-1-08U4-M5J(1-1/4)	C	No	No	Inside Pole	152.00 - 0.00	3	No Ice	0.00	1.08
							1/2" Ice	0.00	1.08
							1" Ice	0.00	1.08
							2" Ice	0.00	1.08
HB114-21U3M12-XXXF(1-1/4)	C	No	No	Inside Pole	152.00 - 0.00	1	No Ice	0.00	1.22
							1/2" Ice	0.00	1.22
							1" Ice	0.00	1.22
							2" Ice	0.00	1.22
AVA7-50(1-5/8)	A	No	No	Inside Pole	130.00 - 0.00	12	No Ice	0.00	0.70
							1/2" Ice	0.00	0.70
							1" Ice	0.00	0.70
							2" Ice	0.00	0.70
FB-L98-002-XXX(3/8)	A	No	No	Inside Pole	130.00 - 0.00	1	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
WR-VG86T(3/4)	A	No	No	Inside Pole	130.00 - 0.00	2	No Ice	0.00	0.53
							1/2" Ice	0.00	0.53
							1" Ice	0.00	0.53
							2" Ice	0.00	0.53
Conduit(2)	A	No	No	Inside Pole	130.00 - 0.00	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

Feed Line/Linear Appurtenances Section Areas

Tower Sectio n	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L1	160.00-140.00	A	0.000	0.000	1.830	0.000	0.21
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	2.224	0.000	0.06
L2	140.00-120.00	A	0.000	0.000	1.830	0.000	0.33
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	28.164	0.000	0.20
L3	120.00-100.00	A	0.000	0.000	1.830	0.000	0.46
		B	0.000	0.000	3.200	0.000	0.05
		C	0.000	0.000	28.164	0.000	0.20
L4	100.00-80.00	A	0.000	0.000	1.830	0.000	0.46
		B	0.000	0.000	3.200	0.000	0.05
		C	0.000	0.000	28.664	0.000	0.21
L5	80.00-60.00	A	0.000	0.000	1.830	0.000	0.46
		B	0.000	0.000	4.388	0.000	0.05
		C	0.000	0.000	28.664	0.000	0.21
L6	60.00-40.00	A	0.000	0.000	1.830	0.000	0.46
		B	0.000	0.000	4.450	0.000	0.05
		C	0.000	0.000	28.664	0.000	0.21
L7	40.00-20.00	A	0.000	0.000	1.830	0.000	0.46
		B	0.000	0.000	4.450	0.000	0.05
		C	0.000	0.000	28.664	0.000	0.21
L8	20.00-0.00	A	0.000	0.000	1.830	0.000	0.46
		B	0.000	0.000	4.450	0.000	0.05
		C	0.000	0.000	28.664	0.000	0.21

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Sectio n	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft ²	A_F ft ²	C_{AA} In Face ft ²	C_{AA} Out Face ft ²	Weight K
L1	160.00-140.00	A	1.483	0.000	0.000	13.697	0.000	0.35
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	8.158	0.000	0.16
L2	140.00-120.00	A	1.462	0.000	0.000	13.529	0.000	0.47
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	53.115	0.000	0.77
L3	120.00-100.00	A	1.438	0.000	0.000	13.335	0.000	0.59
		B		0.000	0.000	8.953	0.000	0.15
		C		0.000	0.000	52.800	0.000	0.75
L4	100.00-80.00	A	1.410	0.000	0.000	13.106	0.000	0.58
		B		0.000	0.000	8.838	0.000	0.15
		C		0.000	0.000	58.566	0.000	0.98
L5	80.00-60.00	A	1.375	0.000	0.000	12.827	0.000	0.58
		B		0.000	0.000	15.109	0.000	0.21
		C		0.000	0.000	57.972	0.000	0.95
L6	60.00-40.00	A	1.329	0.000	0.000	12.463	0.000	0.57
		B		0.000	0.000	15.083	0.000	0.21
		C		0.000	0.000	57.199	0.000	0.92
L7	40.00-20.00	A	1.263	0.000	0.000	11.933	0.000	0.56
		B		0.000	0.000	14.553	0.000	0.20
		C		0.000	0.000	56.073	0.000	0.87
L8	20.00-0.00	A	1.132	0.000	0.000	10.882	0.000	0.54
		B		0.000	0.000	13.502	0.000	0.17
		C		0.000	0.000	53.840	0.000	0.78

Feed Line Center of Pressure

Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
L1	160.00-140.00	0.6229	-0.0125	0.9171	-1.2940
L2	140.00-120.00	-4.9548	5.7723	-3.4428	3.2682
L3	120.00-100.00	-4.5956	4.9235	-3.0028	2.2355
L4	100.00-80.00	-4.6804	5.2364	-2.6270	2.9876
L5	80.00-60.00	-4.5996	5.0294	-2.2475	2.2948
L6	60.00-40.00	-4.5866	5.0088	-2.2494	2.2876
L7	40.00-20.00	-4.5866	5.0088	-2.2913	2.3409
L8	20.00-0.00	-4.5866	5.0088	-2.3777	2.4508

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	2	PiRod Ladder	140.00 - 160.00	1.0000	1.0000
L1	3	Safety Line 3/8	140.00 - 160.00	1.0000	1.0000
L1	11	810921-001(7/8)	140.00 - 160.00	1.0000	1.0000
L2	2	PiRod Ladder	120.00 - 140.00	1.0000	1.0000
L2	3	Safety Line 3/8	120.00 - 140.00	1.0000	1.0000
L2	11	810921-001(7/8)	120.00 - 140.00	1.0000	1.0000
L2	16	LDF7-50A(1-5/8)	120.00 - 140.00	1.0000	1.0000
L2	18	LDF5-50A(7/8)	120.00 - 140.00	1.0000	1.0000
L3	2	PiRod Ladder	100.00 - 120.00	1.0000	1.0000
L3	3	Safety Line 3/8	100.00 - 120.00	1.0000	1.0000
L3	11	810921-001(7/8)	100.00 - 120.00	1.0000	1.0000
L3	16	LDF7-50A(1-5/8)	100.00 - 120.00	1.0000	1.0000
L3	18	LDF5-50A(7/8)	100.00 - 120.00	1.0000	1.0000
L3	27	CU12PSM9P6XXX(1-1/2)	100.00 - 120.00	1.0000	1.0000
L4	2	PiRod Ladder	80.00 - 100.00	1.0000	1.0000
L4	3	Safety Line 3/8	80.00 - 100.00	1.0000	1.0000
L4	11	810921-001(7/8)	80.00 - 100.00	1.0000	1.0000
L4	16	LDF7-50A(1-5/8)	80.00 - 100.00	1.0000	1.0000
L4	18	LDF5-50A(7/8)	80.00 - 100.00	1.0000	1.0000
L4	27	CU12PSM9P6XXX(1-1/2)	80.00 - 100.00	1.0000	1.0000
L4	29	CAT5E(1/4)	80.00 - 100.00	1.0000	1.0000
L5	2	PiRod Ladder	60.00 - 80.00	1.0000	1.0000
L5	3	Safety Line 3/8	60.00 - 80.00	1.0000	1.0000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L5	11	810921-001(7/8)	60.00 - 80.00	1.0000	1.0000
L5	16	LDF7-50A(1-5/8)	60.00 - 80.00	1.0000	1.0000
L5	18	LDF5-50A(7/8)	60.00 - 80.00	1.0000	1.0000
L5	27	CU12PSM9P6XXX(1-1/2)	60.00 - 80.00	1.0000	1.0000
L5	29	CAT5E(1/4)	60.00 - 80.00	1.0000	1.0000
L5	31	LDF4-50A(1/2)	60.00 - 79.00	1.0000	1.0000
L6	2	PiRod Ladder	40.00 - 60.00	1.0000	1.0000
L6	3	Safety Line 3/8	40.00 - 60.00	1.0000	1.0000
L6	11	810921-001(7/8)	40.00 - 60.00	1.0000	1.0000
L6	16	LDF7-50A(1-5/8)	40.00 - 60.00	1.0000	1.0000
L6	18	LDF5-50A(7/8)	40.00 - 60.00	1.0000	1.0000
L6	27	CU12PSM9P6XXX(1-1/2)	40.00 - 60.00	1.0000	1.0000
L6	29	CAT5E(1/4)	40.00 - 60.00	1.0000	1.0000
L6	31	LDF4-50A(1/2)	40.00 - 60.00	1.0000	1.0000
L7	2	PiRod Ladder	20.00 - 40.00	1.0000	1.0000
L7	3	Safety Line 3/8	20.00 - 40.00	1.0000	1.0000
L7	11	810921-001(7/8)	20.00 - 40.00	1.0000	1.0000
L7	16	LDF7-50A(1-5/8)	20.00 - 40.00	1.0000	1.0000
L7	18	LDF5-50A(7/8)	20.00 - 40.00	1.0000	1.0000
L7	27	CU12PSM9P6XXX(1-1/2)	20.00 - 40.00	1.0000	1.0000
L7	29	CAT5E(1/4)	20.00 - 40.00	1.0000	1.0000
L7	31	LDF4-50A(1/2)	20.00 - 40.00	1.0000	1.0000
L8	2	PiRod Ladder	0.00 - 20.00	1.0000	1.0000
L8	3	Safety Line 3/8	0.00 - 20.00	1.0000	1.0000
L8	11	810921-001(7/8)	0.00 - 20.00	1.0000	1.0000
L8	16	LDF7-50A(1-5/8)	0.00 - 20.00	1.0000	1.0000
L8	18	LDF5-50A(7/8)	0.00 - 20.00	1.0000	1.0000
L8	27	CU12PSM9P6XXX(1-1/2)	0.00 - 20.00	1.0000	1.0000
L8	29	CAT5E(1/4)	0.00 - 20.00	1.0000	1.0000
L8	31	LDF4-50A(1/2)	0.00 - 20.00	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustmen t	Placement	C _A A _A Front	C _A A _A Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	K

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K

OA40-41	C	From Leg	4.00 0.00 10.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	5.27 7.04 8.83 12.45	5.27 7.04 8.83 12.45	0.05 0.09 0.14 0.27
6' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	160.00	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

ERICSSON AIR 21 B2A B4P 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	3.14 3.45 3.77 4.43	2.59 2.88 3.19 3.84	0.11 0.16 0.23 0.38
ERICSSON AIR 21 B2A B4P 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	3.14 3.45 3.77 4.43	2.59 2.88 3.19 3.84	0.11 0.16 0.23 0.38
ERICSSON AIR 21 B2A B4P 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	3.14 3.45 3.77 4.43	2.59 2.88 3.19 3.84	0.11 0.16 0.23 0.38
KRY 112 144/1	A	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.35 0.43 0.51 0.70	0.17 0.23 0.30 0.46	0.01 0.01 0.02 0.03
KRY 112 144/1	B	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.35 0.43 0.51 0.70	0.17 0.23 0.30 0.46	0.01 0.01 0.02 0.03
KRY 112 144/1	C	From Leg	4.00 0.00 0.00	0.0000	160.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.35 0.43 0.51 0.70	0.17 0.23 0.30 0.46	0.01 0.01 0.02 0.03
Platform Mount [LP 405-1_HR-1]	A	None		0.0000	160.00	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
*									
APXVAARR24_43-U-NA20 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	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	B	From Leg	4.00 0.00 0.00	0.0000	160.00	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	160.00	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
AIR 32 B2A B66AA w/ Mount Pipe	A	From Leg	4.00 0.00	0.0000	160.00	No Ice 1/2"	3.76 4.12	3.15 3.49	0.19 0.25

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			0.00			Ice 4.48	3.84	0.32
						1" Ice 5.24	4.58	0.48
						2" Ice		
AIR 32 B2A B66AA w/ Mount Pipe	B	From Leg	4.00	0.0000	160.00	No Ice 3.76	3.15	0.19
			0.00			1/2" 4.12	3.49	0.25
			0.00			Ice 4.48	3.84	0.32
						1" Ice 5.24	4.58	0.48
						2" Ice		
AIR 32 B2A B66AA w/ Mount Pipe	C	From Leg	4.00	0.0000	160.00	No Ice 3.76	3.15	0.19
			0.00			1/2" 4.12	3.49	0.25
			0.00			Ice 4.48	3.84	0.32
						1" Ice 5.24	4.58	0.48
						2" Ice		
AIR6449 B41 w/ Mount Pipe	A	From Leg	4.00	0.0000	160.00	No Ice 5.89	3.28	0.12
			0.00			1/2" 6.26	3.74	0.17
			0.00			Ice 6.63	4.22	0.22
						1" Ice 7.41	5.21	0.35
						2" Ice		
AIR6449 B41 w/ Mount Pipe	B	From Leg	4.00	0.0000	160.00	No Ice 5.89	3.28	0.12
			0.00			1/2" 6.26	3.74	0.17
			0.00			Ice 6.63	4.22	0.22
						1" Ice 7.41	5.21	0.35
						2" Ice		
AIR6449 B41 w/ Mount Pipe	C	From Leg	4.00	0.0000	160.00	No Ice 5.89	3.28	0.12
			0.00			1/2" 6.26	3.74	0.17
			0.00			Ice 6.63	4.22	0.22
						1" Ice 7.41	5.21	0.35
						2" Ice		
RADIO 4449 B71 B85A_T- MOBILE	A	From Leg	4.00	0.0000	160.00	No Ice 1.97	1.59	0.07
			0.00			1/2" 2.15	1.75	0.09
			0.00			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	0.0000	160.00	No Ice 1.97	1.59	0.07
			0.00			1/2" 2.15	1.75	0.09
			0.00			Ice 2.33	1.92	0.12
						1" Ice 2.72	2.28	0.17
						2" Ice		
RADIO 4449 B71 B85A_T- MOBILE	C	From Leg	4.00	0.0000	160.00	No Ice 1.97	1.59	0.07
			0.00			1/2" 2.15	1.75	0.09
			0.00			Ice 2.33	1.92	0.12
						1" Ice 2.72	2.28	0.17
						2" Ice		
RRUS 4415 B25	A	From Leg	4.00	0.0000	160.00	No Ice 1.64	0.68	0.04
			0.00			1/2" 1.80	0.79	0.06
			0.00			Ice 1.97	0.91	0.07
						1" Ice 2.33	1.18	0.11
						2" Ice		
RRUS 4415 B25	B	From Leg	4.00	0.0000	160.00	No Ice 1.64	0.68	0.04
			0.00			1/2" 1.80	0.79	0.06
			0.00			Ice 1.97	0.91	0.07
						1" Ice 2.33	1.18	0.11
						2" Ice		
RRUS 4415 B25	C	From Leg	4.00	0.0000	160.00	No Ice 1.64	0.68	0.04
			0.00			1/2" 1.80	0.79	0.06
			0.00			Ice 1.97	0.91	0.07
						1" Ice 2.33	1.18	0.11
						2" Ice		

APXVSP18-C-A20 w/ Mount Pipe	A	From Leg	4.00	0.0000	152.00	No Ice 4.60	4.01	0.10
			0.00			1/2" 5.05	4.45	0.16
			1.00			Ice 5.50	4.89	0.23
						1" Ice 6.44	5.82	0.42
						2" Ice		
APXVSP18-C-A20 w/ Mount Pipe	B	From Leg	4.00	0.0000	152.00	No Ice 4.60	4.01	0.10

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight	
			Horz	Lateral						Vert
			ft	ft	°	ft	ft ²	ft ²	K	
Mount Pipe			0.00			1/2"	5.05	4.45	0.16	
			1.00			Ice	5.50	4.89	0.23	
						1" Ice	6.44	5.82	0.42	
						2" Ice				
APXVSP18-C-A20 w/ Mount Pipe	C	From Leg	4.00		0.0000	152.00	No Ice	4.60	4.01	0.10
			0.00				1/2"	5.05	4.45	0.16
			1.00				Ice	5.50	4.89	0.23
							1" Ice	6.44	5.82	0.42
APXVTM14-ALU-I20 w/ Mount Pipe	A	From Leg	4.00		0.0000	152.00	No Ice	4.09	2.86	0.08
			0.00				1/2"	4.48	3.23	0.13
			1.00				Ice	4.88	3.61	0.19
							1" Ice	5.71	4.40	0.33
APXVTM14-ALU-I20 w/ Mount Pipe	B	From Leg	4.00		0.0000	152.00	No Ice	4.09	2.86	0.08
			0.00				1/2"	4.48	3.23	0.13
			1.00				Ice	4.88	3.61	0.19
							1" Ice	5.71	4.40	0.33
APXVTM14-ALU-I20 w/ Mount Pipe	C	From Leg	4.00		0.0000	152.00	No Ice	4.09	2.86	0.08
			0.00				1/2"	4.48	3.23	0.13
			1.00				Ice	4.88	3.61	0.19
							1" Ice	5.71	4.40	0.33
TD-RRH8X20-25	A	From Leg	4.00		0.0000	152.00	No Ice	4.05	1.53	0.07
			0.00				1/2"	4.30	1.71	0.10
			0.00				Ice	4.56	1.90	0.13
							1" Ice	5.10	2.30	0.20
TD-RRH8X20-25	B	From Leg	4.00		0.0000	152.00	No Ice	4.05	1.53	0.07
			0.00				1/2"	4.30	1.71	0.10
			0.00				Ice	4.56	1.90	0.13
							1" Ice	5.10	2.30	0.20
TD-RRH8X20-25	C	From Leg	4.00		0.0000	152.00	No Ice	4.05	1.53	0.07
			0.00				1/2"	4.30	1.71	0.10
			0.00				Ice	4.56	1.90	0.13
							1" Ice	5.10	2.30	0.20
Platform Mount [LP 1201- 1_HR-3]	A	None			0.0000	152.00	No Ice	29.96	29.96	2.62
							1/2"	36.80	36.80	3.38
							Ice	43.24	43.24	4.28
							1" Ice	55.52	55.52	6.43
*** PCS 1900MHz 4x45W- 65MHz	A	From Leg	1.00		0.0000	148.00	No Ice	2.32	2.24	0.06
			0.00				1/2"	2.53	2.44	0.08
			0.00				Ice	2.74	2.65	0.11
							1" Ice	3.19	3.09	0.17
PCS 1900MHz 4x45W- 65MHz	B	From Leg	1.00		0.0000	148.00	No Ice	2.32	2.24	0.06
			0.00				1/2"	2.53	2.44	0.08
			0.00				Ice	2.74	2.65	0.11
							1" Ice	3.19	3.09	0.17
PCS 1900MHz 4x45W- 65MHz	C	From Leg	1.00		0.0000	148.00	No Ice	2.32	2.24	0.06
			0.00				1/2"	2.53	2.44	0.08
			0.00				Ice	2.74	2.65	0.11
							1" Ice	3.19	3.09	0.17
800MHz 2X50W RRH W/FILTER	A	From Leg	1.00		0.0000	148.00	No Ice	2.06	1.93	0.06
			0.00				1/2"	2.24	2.11	0.09
			0.00				Ice	2.43	2.29	0.11
							1" Ice	2.83	2.68	0.17
				2" Ice						

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _A A _A Front ft ²	C _A A _A Side ft ²	Weight K
800MHz 2X50W RRH W/FILTER	B	From Leg	1.00 0.00 0.00	0.0000	148.00	No Ice	2.06	1.93	0.06
						1/2" Ice	2.24	2.11	0.09
						Ice	2.43	2.29	0.11
						1" Ice	2.83	2.68	0.17
						2" Ice			
800MHz 2X50W RRH W/FILTER	C	From Leg	1.00 0.00 0.00	0.0000	148.00	No Ice	2.06	1.93	0.06
						1/2" Ice	2.24	2.11	0.09
						Ice	2.43	2.29	0.11
						1" Ice	2.83	2.68	0.17
						2" Ice			
Pipe Mount [PM 601-3]	A	None		0.0000	148.00	No Ice	3.17	3.17	0.20
						1/2" Ice	3.79	3.79	0.23
						Ice	4.42	4.42	0.28
						1" Ice	5.76	5.76	0.40
						2" Ice			
*** GPS_A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	0.26	0.26	0.00
						1/2" Ice	0.32	0.32	0.00
						Ice	0.39	0.39	0.01
						1" Ice	0.56	0.56	0.02
						2" Ice			
Platform Mount [LP 304-1]	A	None		0.0000	140.00	No Ice	17.49	17.49	1.35
						1/2" Ice	21.37	21.37	1.71
						Ice	25.28	25.28	2.13
						1" Ice	33.17	33.17	3.16
						2" Ice			
* BXA-70063-4CF-EDIN-5 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.84	3.54	0.04
						1/2" Ice	5.35	4.03	0.08
						Ice	5.88	4.53	0.12
						1" Ice	6.99	5.59	0.24
						2" Ice			
BXA-70063-4CF-EDIN-5 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.84	3.54	0.04
						1/2" Ice	5.35	4.03	0.08
						Ice	5.88	4.53	0.12
						1" Ice	6.99	5.59	0.24
						2" Ice			
BXA-70063-4CF-EDIN-5 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.84	3.54	0.04
						1/2" Ice	5.35	4.03	0.08
						Ice	5.88	4.53	0.12
						1" Ice	6.99	5.59	0.24
						2" Ice			
Sub6 Antenna - VZS01 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.92	2.69	0.10
						1/2" Ice	5.26	3.15	0.14
						Ice	5.62	3.63	0.19
						1" Ice	6.37	4.64	0.29
						2" Ice			
Sub6 Antenna - VZS01 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.92	2.69	0.10
						1/2" Ice	5.26	3.15	0.14
						Ice	5.62	3.63	0.19
						1" Ice	6.37	4.64	0.29
						2" Ice			
Sub6 Antenna - VZS01 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.92	2.69	0.10
						1/2" Ice	5.26	3.15	0.14
						Ice	5.62	3.63	0.19
						1" Ice	6.37	4.64	0.29
						2" Ice			
(2) QS6656-5D	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.01	3.37	0.09
						1/2" Ice	4.41	3.76	0.15
						Ice	4.81	4.15	0.21
						1" Ice	5.65	4.97	0.36
						2" Ice			
(2) QS6656-5D	B	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.01	3.37	0.09
						1/2" Ice	4.41	3.76	0.15
						Ice	4.81	4.15	0.21
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
(2) QS6656-5D	C	From Leg	4.00 0.00 0.00	0.0000	140.00	1" Ice	5.65	4.97	0.36
						2" Ice			
						No Ice	4.01	3.37	0.09
						1/2" Ice	4.41	3.76	0.15
(3) RFV01U-D1A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	1" Ice	4.81	4.15	0.21
						2" Ice	5.65	4.97	0.36
						No Ice	1.88	1.25	0.08
						1/2" Ice	2.05	1.39	0.10
(3) RFV01U-D2A	B	From Leg	4.00 0.00 0.00	0.0000	140.00	Ice	2.22	1.54	0.12
						1" Ice	2.60	1.86	0.18
						2" Ice			
						No Ice	1.88	1.01	0.07
DB-C1-12C-24AB-0Z	B	From Leg	4.00 0.00 0.00	0.0000	140.00	1/2" Ice	2.05	1.14	0.09
						Ice	2.22	1.28	0.11
						1" Ice	2.60	1.59	0.15
						2" Ice			
2" Edge-to-Edge Bracket w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	140.00	No Ice	4.06	3.10	0.03
						1/2" Ice	4.32	3.34	0.07
						Ice	4.58	3.58	0.11
						1" Ice	5.14	4.09	0.20
2" Edge-to-Edge Bracket w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	140.00	2" Ice			
						No Ice	1.90	1.90	0.03
						1/2" Ice	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
2" Edge-to-Edge Bracket w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	140.00	1" Ice	4.40	4.40	0.12
						2" Ice			
						No Ice	1.90	1.90	0.03
						1/2" Ice	2.73	2.73	0.04
*** 7770.00 w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	130.00	Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
						No Ice	1.90	1.90	0.03
7770.00 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	130.00	1/2" Ice	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
7770.00 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	130.00	No Ice	5.75	4.25	0.06
						1/2" Ice	6.18	5.01	0.10
						Ice	6.61	5.71	0.16
						1" Ice	7.49	7.16	0.29
800 10764 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	130.00	2" Ice			
						No Ice	5.75	4.25	0.06
						1/2" Ice	6.18	5.01	0.10
						Ice	6.61	5.71	0.16
AM-X-CD-16-65-00T-RET w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	130.00	1" Ice	7.49	7.16	0.29
						2" Ice			
						No Ice	4.33	3.12	0.07
						1/2" Ice	4.77	3.53	0.11
AM-X-CD-16-65-00T-RET w/ Mount Pipe	B	From Leg	4.00 0.00	0.0000	130.00	Ice	5.22	3.96	0.17
						1" Ice	6.15	4.85	0.31
						2" Ice			
						No Ice	4.63	3.27	0.07
AM-X-CD-16-65-00T-RET w/ Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	130.00	1/2" Ice	5.06	3.69	0.13
						Ice	5.51	4.12	0.20
						1" Ice	6.43	5.00	0.38
						2" Ice			
AM-X-CD-16-65-00T-RET w/ Mount Pipe	B	From Leg	4.00 0.00	0.0000	130.00	No Ice	4.63	3.27	0.07
						1/2" Ice	5.06	3.69	0.13

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
			0.00			Ice	5.51	4.12	0.20
						1" Ice	6.43	5.00	0.38
						2" Ice			
(2) RRUS 11	A	From Leg	4.00	0.0000	130.00	No Ice	2.78	1.19	0.05
			0.00			1/2"	2.99	1.33	0.07
			0.00			Ice	3.21	1.49	0.09
						1" Ice	3.66	1.83	0.15
						2" Ice			
(2) RRUS 11	B	From Leg	4.00	0.0000	130.00	No Ice	2.78	1.19	0.05
			0.00			1/2"	2.99	1.33	0.07
			0.00			Ice	3.21	1.49	0.09
						1" Ice	3.66	1.83	0.15
						2" Ice			
(2) RRUS 11	C	From Leg	4.00	0.0000	130.00	No Ice	2.78	1.19	0.05
			0.00			1/2"	2.99	1.33	0.07
			0.00			Ice	3.21	1.49	0.09
						1" Ice	3.66	1.83	0.15
						2" Ice			
DC6-48-60-18-8F	B	From Leg	4.00	0.0000	130.00	No Ice	0.92	0.92	0.02
			0.00			1/2"	1.46	1.46	0.04
			0.00			Ice	1.64	1.64	0.06
						1" Ice	2.04	2.04	0.11
						2" Ice			
Platform Mount [LP 304-1]	A	None		0.0000	130.00	No Ice	17.49	17.49	1.35
						1/2"	21.37	21.37	1.71
						Ice	25.28	25.28	2.13
						1" Ice	33.17	33.17	3.16
						2" Ice			
*									
HPA-65R-BUU-H6 w/ Mount Pipe	A	From Leg	4.00	0.0000	130.00	No Ice	9.22	6.25	0.07
			0.00			1/2"	9.98	6.96	0.14
			0.00			Ice	10.76	7.70	0.22
						1" Ice	12.36	9.22	0.42
						2" Ice			
HPA-65R-BUU-H6 w/ Mount Pipe	B	From Leg	4.00	0.0000	130.00	No Ice	9.22	6.25	0.07
			0.00			1/2"	9.98	6.96	0.14
			0.00			Ice	10.76	7.70	0.22
						1" Ice	12.36	9.22	0.42
						2" Ice			
SBNHH-1D65A w/ Mount Pipe	C	From Leg	4.00	0.0000	130.00	No Ice	3.04	2.45	0.05
			0.00			1/2"	3.34	2.75	0.10
			0.00			Ice	3.65	3.05	0.16
						1" Ice	4.31	3.68	0.31
						2" Ice			
RRUS 32 B2	A	From Leg	4.00	0.0000	130.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			0.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			
RRUS 32 B2	B	From Leg	4.00	0.0000	130.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			0.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			
RRUS 32 B2	C	From Leg	4.00	0.0000	130.00	No Ice	2.73	1.67	0.05
			0.00			1/2"	2.95	1.86	0.07
			0.00			Ice	3.18	2.05	0.10
						1" Ice	3.66	2.46	0.16
						2" Ice			

MX08FRO665-21 w/ Mount Pipe	A	From Leg	4.00	0.0000	120.00	No Ice	12.73	7.53	0.11
			0.00			1/2"	13.33	8.72	0.20
			0.00			Ice	13.89	9.62	0.30
						1" Ice	15.05	11.45	0.53

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
MX08FRO665-21 w/ Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00	2" Ice			
						No Ice	12.73	7.53	0.11
						1/2"	13.33	8.72	0.20
						Ice	13.89	9.62	0.30
MX08FRO665-21 w/ Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00	1" Ice	15.05	11.45	0.53
						2" Ice			
						No Ice	12.73	7.53	0.11
						1/2"	13.33	8.72	0.20
TA08025-B604	A	From Leg	4.00 0.00 0.00	0.0000	120.00	Ice	13.89	9.62	0.30
						1" Ice	15.05	11.45	0.53
						2" Ice			
						No Ice	1.96	0.98	0.06
TA08025-B604	B	From Leg	4.00 0.00 0.00	0.0000	120.00	1/2"	2.14	1.11	0.08
						Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
						2" Ice			
TA08025-B604	C	From Leg	4.00 0.00 0.00	0.0000	120.00	No Ice	1.96	0.98	0.06
						1/2"	2.14	1.11	0.08
						Ice	2.32	1.25	0.10
						1" Ice	2.71	1.55	0.15
TA08025-B605	A	From Leg	4.00 0.00 0.00	0.0000	120.00	2" Ice			
						No Ice	1.96	1.13	0.08
						1/2"	2.14	1.27	0.09
						Ice	2.32	1.41	0.11
TA08025-B605	B	From Leg	4.00 0.00 0.00	0.0000	120.00	1" Ice	2.71	1.72	0.16
						2" Ice			
						No Ice	1.96	1.13	0.08
						1/2"	2.14	1.27	0.09
TA08025-B605	C	From Leg	4.00 0.00 0.00	0.0000	120.00	Ice	2.32	1.41	0.11
						1" Ice	2.71	1.72	0.16
						2" Ice			
						No Ice	1.96	1.13	0.08
RDIDC-9181-PF-48	B	From Leg	4.00 0.00 0.00	0.0000	120.00	1/2"	2.19	1.31	0.04
						Ice	2.37	1.46	0.06
						1" Ice	2.76	1.78	0.11
						2" Ice			
Commscope MC-PK8-DSH	C	None		0.0000	120.00	No Ice	34.24	34.24	1.75
						1/2"	62.95	62.95	2.10
						Ice	91.66	91.66	2.45
						1" Ice	149.08	149.08	3.15
(2) 8' x 2" Mount Pipe	A	From Leg	4.00 0.00 0.00	0.0000	120.00	2" Ice			
						No Ice	1.90	1.90	0.03
						1/2"	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
(2) 8' x 2" Mount Pipe	B	From Leg	4.00 0.00 0.00	0.0000	120.00	1" Ice	4.40	4.40	0.12
						2" Ice			
						No Ice	1.90	1.90	0.03
						1/2"	2.73	2.73	0.04
(2) 8' x 2" Mount Pipe	C	From Leg	4.00 0.00 0.00	0.0000	120.00	Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			
						No Ice	1.90	1.90	0.03
(2) 8' x 2" Mount Pipe						1/2"	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
						2" Ice			

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
						2" Ice			

6'x4' Ice Shield	C	From Face	0.00 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" 2"	5.00 6.61 8.22 11.44	9.50 12.44 15.38 21.26	0.22 0.40 0.58 0.94
Side Arm Mount [SO 203-1]	A	From Face	1.50 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" 2"	1.78 2.24 2.75 3.89	3.79 4.47 5.21 6.78	0.13 0.15 0.19 0.29
Side Arm Mount [SO 203-1]	B	From Face	1.50 0.00 0.00	0.0000	100.00	No Ice 1/2" Ice 1" 2"	1.78 2.24 2.75 3.89	3.79 4.47 5.21 6.78	0.13 0.15 0.19 0.29

GPS_A	C	From Leg	3.00 0.00 0.00	0.0000	79.00	No Ice 1/2" Ice 1" 2"	0.26 0.32 0.39 0.56	0.26 0.32 0.39 0.56	0.00 0.00 0.01 0.02
Side Arm Mount [SO 702-1]	C	From Leg	1.00 0.00 0.00	0.0000	79.00	No Ice 1/2" Ice 1" 2"	0.62 0.74 0.89 1.25	1.49 2.07 2.54 3.55	0.03 0.04 0.06 0.12

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K	

MPRC2449	A	Paraboloid w/Radome	From Face	3.00 0.00 0.00	3.0000		100.00	2.17	No Ice 1/2" Ice 1" Ice 2" Ice	3.69 3.98 4.27 4.84	24.00 40.00 60.00 110.00
MPRC2449	B	Paraboloid w/Radome	From Face	3.00 0.00 0.00	-53.0000		100.00	2.17	No Ice 1/2" Ice 1" Ice 2" Ice	3.69 3.98 4.27 4.84	24.00 40.00 60.00 110.00

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

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

Sectio n No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	160 - 140	Pole	Max Tension	32	0.00	0.01	0.00
			Max. Compression	26	-25.87	1.56	1.85
			Max. Mx	20	-13.35	133.18	0.26
			Max. My	2	-13.34	0.44	132.90
			Max. Vy	8	8.50	-132.27	0.20
			Max. Vx	2	-8.53	0.44	132.90
			Max. Torque	24			1.51
L2	140 - 120	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-46.71	-4.60	3.42
			Max. Mx	8	-24.14	-404.84	-2.50
			Max. My	14	-24.17	-4.39	-401.65
			Max. Vy	8	15.64	-404.84	-2.50
			Max. Vx	2	-15.64	-0.63	400.24
			Max. Torque	6			-1.72
L3	120 - 100	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
L4	100 - 80	Pole	Max. Compression	26	-60.57	-5.10	9.88
			Max. Mx	8	-32.74	-793.48	-3.85
			Max. My	2	-32.70	1.61	788.54
			Max. Vy	8	20.30	-793.48	-3.85
			Max. Vx	2	-20.31	1.61	788.54
			Max. Torque	6			-1.90
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-242.84	-5.38	465.57
			Max. Mx	8	-96.94	-1258.81	140.35
			Max. My	2	-96.91	4.11	1397.42
L5	80 - 60	Pole	Max. Vy	8	24.03	-1258.81	140.35
			Max. Vx	2	-24.00	4.11	1397.42
			Max. Torque	30			3.23
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-252.63	-5.38	483.97
			Max. Mx	8	-103.65	-1755.54	139.45
			Max. My	2	-103.63	6.92	1893.16
			Max. Vy	8	25.61	-1755.54	139.45
			Max. Vx	2	-25.55	6.92	1893.16
			Max. Torque	30			3.23
L6	60 - 40	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-264.10	-5.65	496.56
			Max. Mx	8	-112.24	-2280.92	137.92
			Max. My	2	-112.23	9.62	2416.87
			Max. Vy	8	26.92	-2280.92	137.92
			Max. Vx	2	-26.84	9.62	2416.87
			Max. Torque	30			3.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-275.39	-5.86	503.44
			Max. Mx	8	-120.89	-2827.97	135.74
L7	40 - 20	Pole	Max. My	2	-120.88	12.27	2961.61
			Max. Vy	8	27.77	-2827.97	135.74
			Max. Vx	2	-27.65	12.27	2961.61
			Max. Torque	30			3.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-288.25	-5.99	504.72
			Max. Mx	8	-131.43	-3391.02	132.90
			Max. My	2	-131.43	14.87	3521.70
			Max. Vy	8	28.53	-3391.02	132.90
			Max. Vx	14	28.44	-21.81	-3223.37
L8	20 - 0	Pole	Max. Torque	30			3.19
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-288.25	-5.99	504.72
			Max. Mx	8	-131.43	-3391.02	132.90
			Max. My	2	-131.43	14.87	3521.70
			Max. Vy	8	28.53	-3391.02	132.90
			Max. Vx	14	28.44	-21.81	-3223.37
			Max. Torque	30			3.19

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Pole	Max. Vert	26	288.25	-0.00	0.00
	Max. H _x	20	131.44	28.48	0.11
	Max. H _z	2	131.44	0.13	28.36
	Max. M _x	2	3521.70	0.13	28.36
	Max. M _z	8	3391.02	-28.51	-0.15
	Max. Torsion	30	3.19	-9.14	-0.03
	Min. Vert	17	98.58	14.13	-24.53
	Min. H _x	8	131.44	-28.51	-0.15
	Min. H _z	14	131.44	-0.14	-28.42
	Min. M _x	14	-3223.37	-0.14	-28.42
	Min. M _z	20	-3382.36	28.48	0.11
	Min. Torsion	36	-3.16	9.14	0.02

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	109.53	0.00	-0.00	-125.26	-2.32	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	131.44	-0.13	-28.36	-3521.70	14.87	1.13
0.9 Dead+1.0 Wind 0 deg - No Ice	98.58	-0.13	-28.36	-3433.81	15.36	1.10
1.2 Dead+1.0 Wind 30 deg - No Ice	131.44	14.14	-24.48	-3060.15	-1681.60	-0.21
0.9 Dead+1.0 Wind 30 deg - No Ice	98.58	14.14	-24.48	-2978.76	-1657.21	0.25
1.2 Dead+1.0 Wind 60 deg - No Ice	131.44	24.61	-14.05	-1820.20	-2926.61	-1.53
0.9 Dead+1.0 Wind 60 deg - No Ice	98.58	24.61	-14.05	-1756.27	-2884.67	-0.71
1.2 Dead+1.0 Wind 90 deg - No Ice	131.44	28.51	0.15	-132.90	-3391.02	-2.42
0.9 Dead+1.0 Wind 90 deg - No Ice	98.58	28.51	0.15	-92.74	-3342.54	-1.45
1.2 Dead+1.0 Wind 120 deg - No Ice	131.44	26.22	15.16	1618.38	-3063.21	-2.66
0.9 Dead+1.0 Wind 120 deg - No Ice	98.58	26.22	15.16	1634.04	-3019.63	-1.78
1.2 Dead+1.0 Wind 150 deg - No Ice	131.44	14.51	24.89	2807.60	-1729.85	-2.15
0.9 Dead+1.0 Wind 150 deg - No Ice	98.58	14.51	24.89	2806.34	-1704.76	-1.63
1.2 Dead+1.0 Wind 180 deg - No Ice	131.44	0.14	28.42	3223.37	-21.81	-1.14
0.9 Dead+1.0 Wind 180 deg - No Ice	98.58	0.14	28.42	3216.24	-20.79	-1.11
1.2 Dead+1.0 Wind 210 deg - No Ice	131.44	-14.13	24.53	2760.36	1674.74	0.10
0.9 Dead+1.0 Wind 210 deg - No Ice	98.58	-14.13	24.53	2759.76	1651.86	-0.36
1.2 Dead+1.0 Wind 240 deg - No Ice	131.44	-24.60	14.08	1518.77	2920.22	1.39
0.9 Dead+1.0 Wind 240 deg - No Ice	98.58	-24.60	14.08	1535.67	2879.78	0.56
1.2 Dead+1.0 Wind 270 deg - No Ice	131.44	-28.48	-0.11	-168.46	3382.36	2.24
0.9 Dead+1.0 Wind 270 deg - No Ice	98.58	-28.48	-0.11	-127.78	3335.42	1.27
1.2 Dead+1.0 Wind 300 deg - No Ice	131.44	-26.19	-15.12	-1918.39	3054.40	2.54
0.9 Dead+1.0 Wind 300 deg - No Ice	98.58	-26.19	-15.12	-1853.23	3012.37	1.66
1.2 Dead+1.0 Wind 330 deg - No Ice	131.44	-14.47	-24.83	-3105.68	1720.47	2.04
0.9 Dead+1.0 Wind 330 deg - No Ice	98.58	-14.47	-24.83	-3023.65	1696.95	1.52
1.2 Dead+1.0 Ice+1.0 Temp	288.25	0.00	-0.00	-504.72	-5.99	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	288.25	-0.03	-9.10	-1626.15	-2.14	0.16
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	288.25	4.55	-7.86	-1473.68	-566.28	-1.46
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	288.25	7.90	-4.52	-1061.75	-979.92	-2.69
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	288.25	9.14	0.03	-500.45	-1133.25	-3.19
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	288.25	7.93	4.58	60.23	-984.48	-2.82
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	288.25	4.60	7.91	470.11	-573.57	-1.72
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	288.25	0.03	9.11	618.15	-10.15	-0.15
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	288.25	-4.55	7.87	465.38	553.99	1.44
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	288.25	-7.90	4.53	53.07	967.77	2.66
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	288.25	-9.14	-0.02	-508.21	1120.58	3.16

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
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 300	288.25	-7.93	-4.57	-1068.58	971.76	2.80
deg+1.0 Ice+1.0 Temp 1.2 Dead+1.0 Wind 330	288.25	-4.59	-7.89	-1478.03	560.75	1.70
deg+1.0 Ice+1.0 Temp Dead+Wind 0 deg - Service	109.53	-0.03	-6.68	-911.44	1.81	0.27
Dead+Wind 30 deg - Service	109.53	3.33	-5.76	-803.74	-394.02	0.03
Dead+Wind 60 deg - Service	109.53	5.80	-3.31	-514.43	-684.50	-0.22
Dead+Wind 90 deg - Service	109.53	6.71	0.03	-120.74	-792.86	-0.41
Dead+Wind 120 deg - Service	109.53	6.17	3.57	287.89	-716.41	-0.49
Dead+Wind 150 deg - Service	109.53	3.42	5.86	565.33	-405.26	-0.43
Dead+Wind 180 deg - Service	109.53	0.03	6.69	662.32	-6.75	-0.27
Dead+Wind 210 deg - Service	109.53	-3.33	5.78	554.30	389.08	-0.06
Dead+Wind 240 deg - Service	109.53	-5.79	3.32	264.63	679.68	0.19
Dead+Wind 270 deg - Service	109.53	-6.71	-0.03	-129.03	787.52	0.37
Dead+Wind 300 deg - Service	109.53	-6.17	-3.56	-537.36	711.05	0.46
Dead+Wind 330 deg - Service	109.53	-3.41	-5.85	-814.37	399.77	0.40

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-109.53	0.00	-0.00	109.53	0.00	0.000%
2	-0.13	-131.44	-28.36	0.13	131.44	28.36	0.000%
3	-0.13	-98.58	-28.36	0.13	98.58	28.36	0.000%
4	14.14	-131.44	-24.48	-14.14	131.44	24.48	0.000%
5	14.14	-98.58	-24.48	-14.14	98.58	24.48	0.000%
6	24.61	-131.44	-14.05	-24.61	131.44	14.05	0.000%
7	24.61	-98.58	-14.05	-24.61	98.58	14.05	0.000%
8	28.51	-131.44	0.15	-28.51	131.44	-0.15	0.000%
9	28.51	-98.58	0.15	-28.51	98.58	-0.15	0.000%
10	26.22	-131.44	15.16	-26.22	131.44	-15.16	0.000%
11	26.22	-98.58	15.16	-26.22	98.58	-15.16	0.000%
12	14.51	-131.44	24.89	-14.51	131.44	-24.89	0.000%
13	14.51	-98.58	24.89	-14.51	98.58	-24.89	0.000%
14	0.14	-131.44	28.42	-0.14	131.44	-28.42	0.000%
15	0.14	-98.58	28.42	-0.14	98.58	-28.42	0.000%
16	-14.13	-131.44	24.53	14.13	131.44	-24.53	0.000%
17	-14.13	-98.58	24.53	14.13	98.58	-24.53	0.000%
18	-24.60	-131.44	14.08	24.60	131.44	-14.08	0.000%
19	-24.60	-98.58	14.08	24.60	98.58	-14.08	0.000%
20	-28.48	-131.44	-0.11	28.48	131.44	0.11	0.000%
21	-28.48	-98.58	-0.11	28.48	98.58	0.11	0.000%
22	-26.19	-131.44	-15.12	26.19	131.44	15.12	0.000%
23	-26.19	-98.58	-15.12	26.19	98.58	15.12	0.000%
24	-14.47	-131.44	-24.83	14.47	131.44	24.83	0.000%
25	-14.47	-98.58	-24.83	14.47	98.58	24.83	0.000%
26	0.00	-288.25	0.00	-0.00	288.25	0.00	0.000%
27	-0.03	-288.25	-9.10	0.03	288.25	9.10	0.000%
28	4.55	-288.25	-7.86	-4.55	288.25	7.86	0.000%
29	7.90	-288.25	-4.52	-7.90	288.25	4.52	0.000%
30	9.14	-288.25	0.03	-9.14	288.25	-0.03	0.000%
31	7.93	-288.25	4.58	-7.93	288.25	-4.58	0.000%
32	4.60	-288.25	7.91	-4.60	288.25	-7.91	0.000%
33	0.03	-288.25	9.11	-0.03	288.25	-9.11	0.000%
34	-4.55	-288.25	7.87	4.55	288.25	-7.87	0.000%
35	-7.90	-288.25	4.53	7.90	288.25	-4.53	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
36	-9.14	-288.25	-0.02	9.14	288.25	0.02	0.000%
37	-7.93	-288.25	-4.57	7.93	288.25	4.57	0.000%
38	-4.59	-288.25	-7.89	4.59	288.25	7.89	0.000%
39	-0.03	-109.53	-6.68	0.03	109.53	6.68	0.000%
40	3.33	-109.53	-5.76	-3.33	109.53	5.76	0.000%
41	5.80	-109.53	-3.31	-5.80	109.53	3.31	0.000%
42	6.71	-109.53	0.03	-6.71	109.53	-0.03	0.000%
43	6.17	-109.53	3.57	-6.17	109.53	-3.57	0.000%
44	3.42	-109.53	5.86	-3.42	109.53	-5.86	0.000%
45	0.03	-109.53	6.69	-0.03	109.53	-6.69	0.000%
46	-3.33	-109.53	5.78	3.33	109.53	-5.78	0.000%
47	-5.79	-109.53	3.32	5.79	109.53	-3.32	0.000%
48	-6.71	-109.53	-0.03	6.71	109.53	0.03	0.000%
49	-6.17	-109.53	-3.56	6.17	109.53	3.56	0.000%
50	-3.41	-109.53	-5.85	3.41	109.53	5.85	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00006799
2	Yes	5	0.00000001	0.00011594
3	Yes	5	0.00000001	0.00004969
4	Yes	5	0.00000001	0.00073941
5	Yes	5	0.00000001	0.00038072
6	Yes	5	0.00000001	0.00076753
7	Yes	5	0.00000001	0.00038270
8	Yes	5	0.00000001	0.00018247
9	Yes	5	0.00000001	0.00006758
10	Yes	5	0.00000001	0.00058033
11	Yes	5	0.00000001	0.00032319
12	Yes	5	0.00000001	0.00062897
13	Yes	5	0.00000001	0.00033754
14	Yes	5	0.00000001	0.00010745
15	Yes	5	0.00000001	0.00004902
16	Yes	5	0.00000001	0.00055849
17	Yes	5	0.00000001	0.00029938
18	Yes	5	0.00000001	0.00053165
19	Yes	5	0.00000001	0.00029817
20	Yes	5	0.00000001	0.00019018
21	Yes	5	0.00000001	0.00007147
22	Yes	5	0.00000001	0.00086381
23	Yes	5	0.00000001	0.00043243
24	Yes	5	0.00000001	0.00073576
25	Yes	5	0.00000001	0.00037805
26	Yes	6	0.00000001	0.00015320
27	Yes	6	0.00000001	0.00038033
28	Yes	6	0.00000001	0.00038847
29	Yes	6	0.00000001	0.00037127
30	Yes	6	0.00000001	0.00029854
31	Yes	6	0.00000001	0.00020653
32	Yes	5	0.00000001	0.00087628
33	Yes	5	0.00000001	0.00052012
34	Yes	5	0.00000001	0.00083796
35	Yes	6	0.00000001	0.00020202
36	Yes	6	0.00000001	0.00029586
37	Yes	6	0.00000001	0.00036981
38	Yes	6	0.00000001	0.00038756
39	Yes	4	0.00000001	0.00034998
40	Yes	4	0.00000001	0.00045600
41	Yes	4	0.00000001	0.00046464
42	Yes	4	0.00000001	0.00032169
43	Yes	4	0.00000001	0.00028960
44	Yes	4	0.00000001	0.00028267
45	Yes	4	0.00000001	0.00021451

46	Yes	4	0.00000001	0.00026579
47	Yes	4	0.00000001	0.00027296
48	Yes	4	0.00000001	0.00031994
49	Yes	4	0.00000001	0.00049191
50	Yes	4	0.00000001	0.00044786

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160 - 140	11.230	39	0.5413	0.0002
L2	140 - 120	8.977	39	0.5297	0.0005
L3	120 - 100	6.813	39	0.4980	0.0004
L4	100 - 80	4.819	39	0.4488	0.0004
L5	80 - 60	3.118	39	0.3590	0.0003
L6	60 - 40	1.786	39	0.2732	0.0002
L7	40 - 20	0.806	39	0.1921	0.0001
L8	20 - 0	0.201	39	0.0936	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
160.00	OA40-41	39	11.230	0.5413	0.0003	206464
152.00	APXVSP18-C-A20 w/ Mount Pipe	39	10.324	0.5383	0.0004	129040
148.00	PCS 1900MHz 4x45W-65MHz	39	9.872	0.5362	0.0004	86027
140.00	GPS_A	39	8.977	0.5297	0.0005	52316
130.00	7770.00 w/ Mount Pipe	39	7.880	0.5159	0.0005	33984
120.00	MX08FRO665-21 w/ Mount Pipe	39	6.813	0.4980	0.0005	25271
100.00	MPCR2449	39	4.819	0.4488	0.0004	16012
79.00	GPS_A	39	3.042	0.3544	0.0003	12369

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	160 - 140	41.725	24	2.0215	0.0026
L2	140 - 120	33.339	22	1.9717	0.0028
L3	120 - 100	25.346	22	1.8342	0.0028
L4	100 - 80	18.092	22	1.6209	0.0026
L5	80 - 60	11.881	22	1.3327	0.0020
L6	60 - 40	6.886	22	1.0373	0.0015
L7	40 - 20	3.136	22	0.7406	0.0010
L8	20 - 0	0.790	22	0.3663	0.0004

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
160.00	OA40-41	24	41.725	2.0215	0.0026	49498
152.00	APXVSP18-C-A20 w/ Mount	24	38.343	2.0081	0.0027	30936

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
	Pipe					
148.00	PCS 1900MHz 4x45W-65MHz	22	36.663	1.9991	0.0027	20623
140.00	GPS_A	22	33.339	1.9717	0.0028	12438
130.00	7770.00 w/ Mount Pipe	22	29.272	1.9140	0.0028	8265
120.00	MX08FRO665-21 w/ Mount Pipe	22	25.346	1.8342	0.0028	6228
100.00	MPRC2449	22	18.092	1.6209	0.0027	4446
79.00	GPS_A	22	11.602	1.3178	0.0020	3753

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	160 - 140 (1)	P36x0.375	20.00	0.00	0.0	41.969 7	-13.34	1490.10	0.009
L2	140 - 120 (2)	P42x0.375	20.00	0.00	0.0	49.038 3	-24.13	1668.87	0.014
L3	120 - 100 (3)	P48x0.375	20.00	0.00	0.0	56.106 9	-32.72	1847.49	0.018
L4	100 - 80 (4)	P54x0.375	20.00	0.00	0.0	63.175 5	-96.91	2026.00	0.048
L5	80 - 60 (5)	P60x0.375	20.00	0.00	0.0	70.244 0	-103.62	2204.43	0.047
L6	60 - 40 (6)	P60x0.5	20.00	0.00	0.0	93.462 4	-112.20	3125.69	0.036
L7	40 - 20 (7)	P60x0.5	20.00	0.00	0.0	93.462 4	-120.87	3125.69	0.039
L8	20 - 0 (8)	P60x0.625	20.00	0.00	0.0	116.58 30	-131.43	4139.15	0.032

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	160 - 140 (1)	P36x0.375	133.40	1338.81	0.100	0.00	1338.81	0.000
L2	140 - 120 (2)	P42x0.375	409.20	1796.56	0.228	0.00	1796.56	0.000
L3	120 - 100 (3)	P48x0.375	808.05	2321.11	0.348	0.00	2321.11	0.000
L4	100 - 80 (4)	P54x0.375	1397.43	2912.46	0.480	0.00	2912.46	0.000
L5	80 - 60 (5)	P60x0.375	1899.08	3570.61	0.532	0.00	3570.61	0.000
L6	60 - 40 (6)	P60x0.5	2434.71	4860.41	0.501	0.00	4860.41	0.000
L7	40 - 20 (7)	P60x0.5	3011.26	4860.41	0.620	0.00	4860.41	0.000
L8	20 - 0 (8)	P60x0.625	3606.88	6198.18	0.582	0.00	6198.18	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	160 - 140 (1)	P36x0.375	8.53	454.19	0.019	1.31	1094.28	0.001
L2	140 - 120 (2)	P42x0.375	15.98	421.13	0.038	0.72	1185.51	0.001
L3	120 - 100 (3)	P48x0.375	20.97	430.23	0.049	0.72	1384.85	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 $\frac{T_u}{\phi T_n}$
L4	100 - 80 (4)	P54x0.375	24.00	443.48	0.054	1.32	1607.33	0.001
L5	80 - 60 (5)	P60x0.375	25.95	455.63	0.057	2.04	1836.15	0.001
L6	60 - 40 (6)	P60x0.5	28.37	868.59	0.033	2.54	3492.99	0.001
L7	40 - 20 (7)	P60x0.5	29.36	868.59	0.034	2.54	3492.99	0.001
L8	20 - 0 (8)	P60x0.625	30.26	1322.05	0.023	2.54	5746.70	0.000

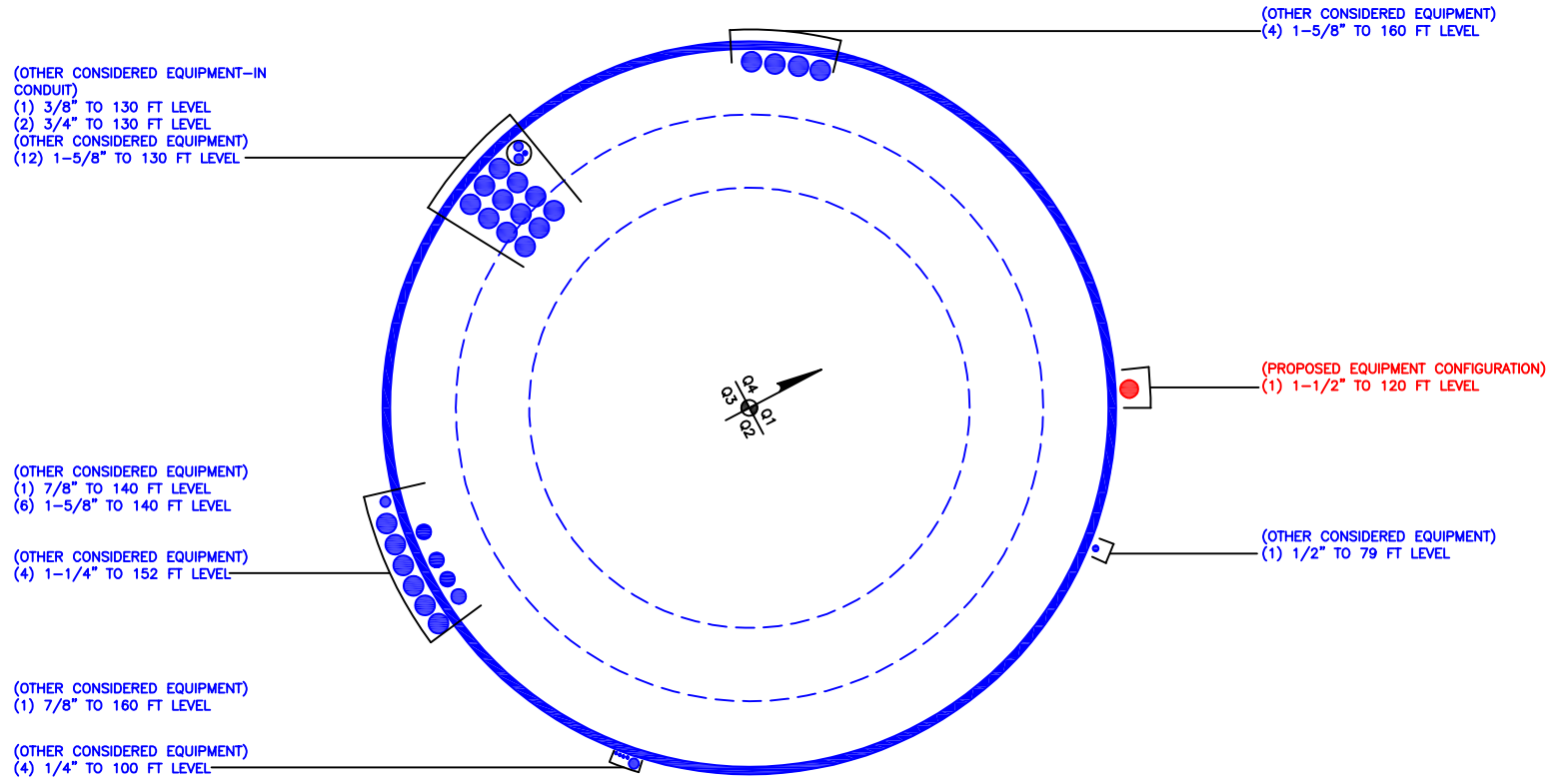
Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	160 - 140 (1)	0.009	0.100	0.000	0.019	0.001	0.109	1.050	4.8.2
L2	140 - 120 (2)	0.014	0.228	0.000	0.038	0.001	0.244	1.050	4.8.2
L3	120 - 100 (3)	0.018	0.348	0.000	0.049	0.001	0.368	1.050	4.8.2
L4	100 - 80 (4)	0.048	0.480	0.000	0.054	0.001	0.531	1.050	4.8.2
L5	80 - 60 (5)	0.047	0.532	0.000	0.057	0.001	0.582	1.050	4.8.2
L6	60 - 40 (6)	0.036	0.501	0.000	0.033	0.001	0.538	1.050	4.8.2
L7	40 - 20 (7)	0.039	0.620	0.000	0.034	0.001	0.659	1.050	4.8.2
L8	20 - 0 (8)	0.032	0.582	0.000	0.023	0.000	0.614	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	160 - 140	Pole	P36x0.375	1	-13.34	1564.60	10.4	Pass
L2	140 - 120	Pole	P42x0.375	2	-24.13	1752.31	23.2	Pass
L3	120 - 100	Pole	P48x0.375	3	-32.72	1939.86	35.1	Pass
L4	100 - 80	Pole	P54x0.375	4	-96.91	2127.30	50.5	Pass
L5	80 - 60	Pole	P60x0.375	5	-103.62	2314.65	55.5	Pass
L6	60 - 40	Pole	P60x0.5	6	-112.20	3281.97	51.2	Pass
L7	40 - 20	Pole	P60x0.5	7	-120.87	3281.97	62.8	Pass
L8	20 - 0	Pole	P60x0.625	8	-131.43	4346.11	58.5	Pass
Summary								
Pole (L7)							62.8	Pass
RATING =							62.8	Pass

APPENDIX B
BASE LEVEL DRAWING



APPENDIX C
ADDITIONAL CALCULATIONS

Monopole Flange Plate Connection

Elevation = 140 ft.



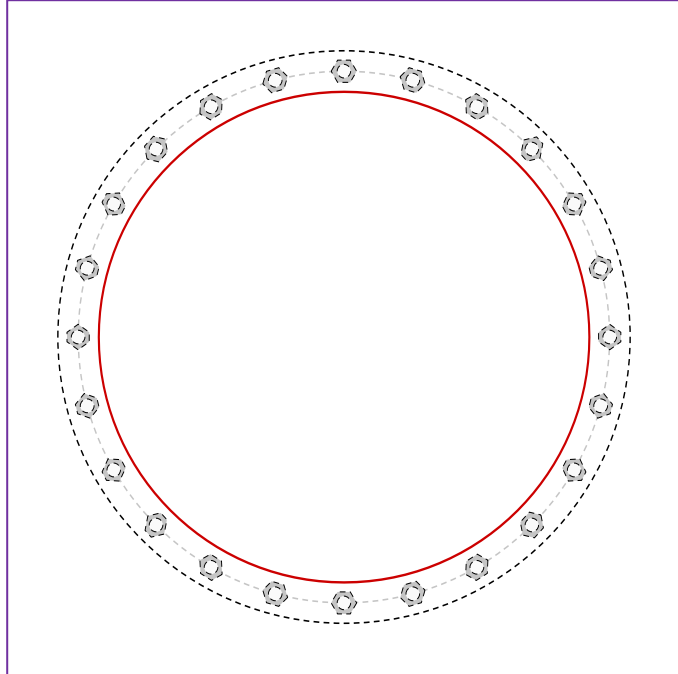
BU #	828540
Site Name	Torrington/RT 8
Order #	553393 Rev. 0

Applied Loads	
Moment (kip-ft)	133.40
Axial Force (kips)	13.34
Shear Force (kips)	8.53

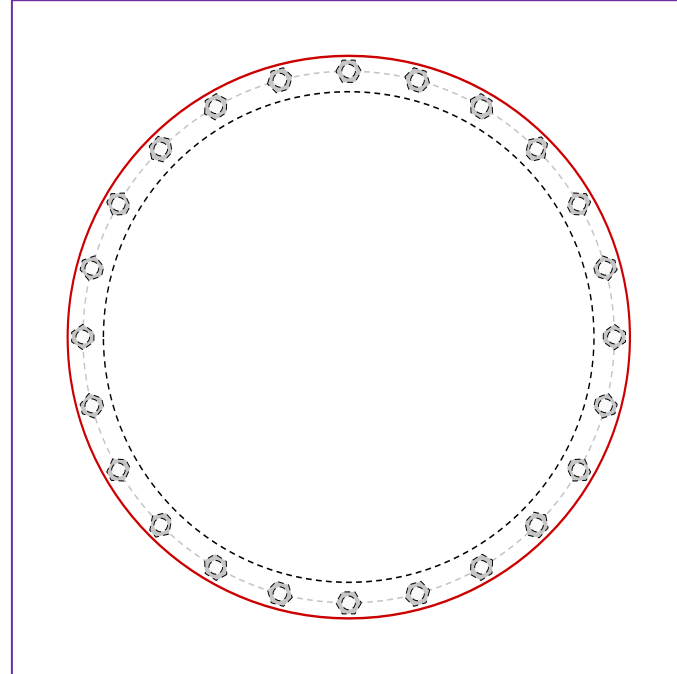
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*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(24) 1" ϕ 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)

Top Stiffener Data

N/A

Top Pole Data

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

Bottom Plate Data

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

Bottom Stiffener Data

N/A

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	6.28
Allowable (kips)	54.54
Stress Rating:	11.0% Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Monopole Flange Plate Connection

Elevation = 120 ft.



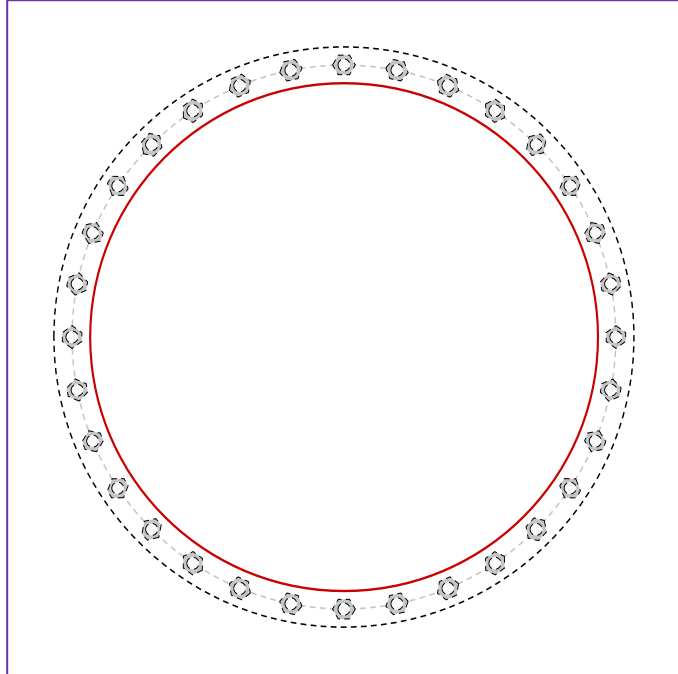
BU #	828540
Site Name	Torrington/RT 8
Order #	553393 Rev. 0

Applied Loads	
Moment (kip-ft)	409.20
Axial Force (kips)	24.13
Shear Force (kips)	15.98

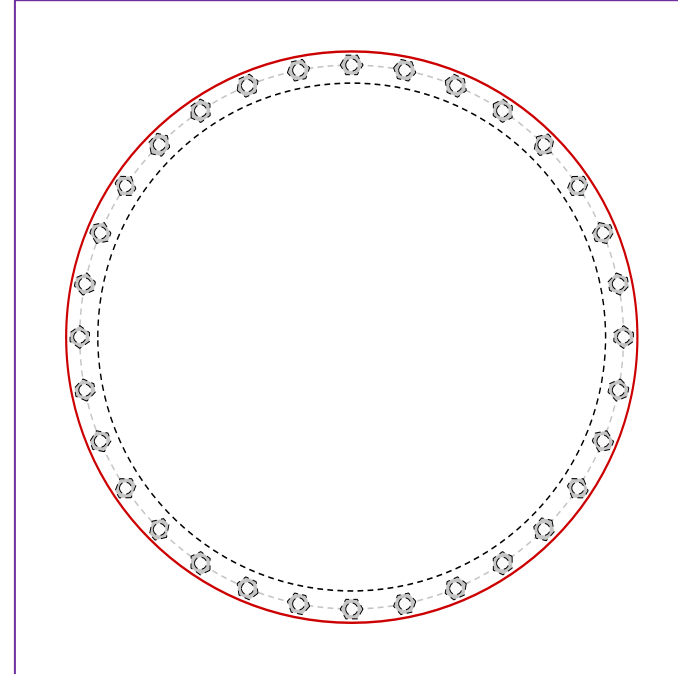
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*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(32) 1" ϕ 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)

Top Stiffener Data

N/A

Top Pole Data

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

Bottom Plate Data

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

Bottom Stiffener Data

N/A

Bottom Pole Data

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

Analysis Results

Bolt Capacity

Max Load (kips)	12.88
Allowable (kips)	54.53
Stress Rating:	22.5% Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Monopole Flange Plate Connection

Elevation = 100 ft.



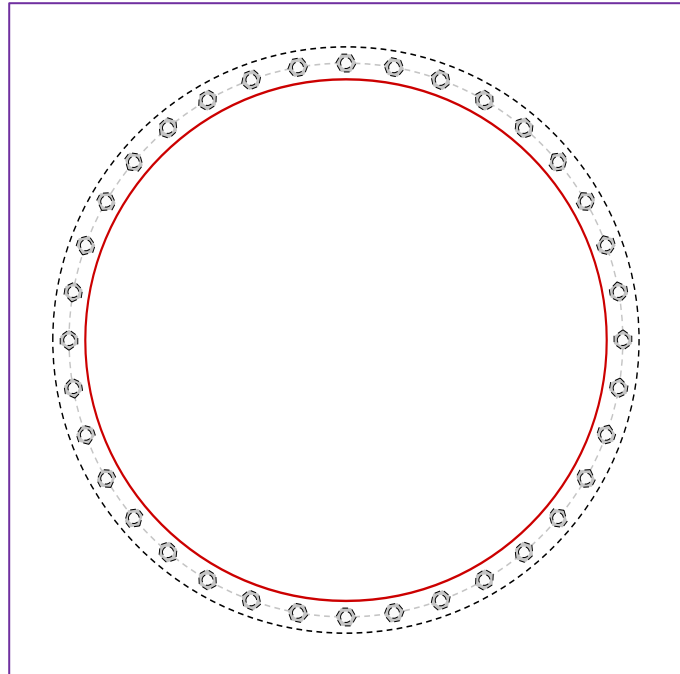
BU #	828540
Site Name	Torrington/RT 8
Order #	553393 Rev. 0

Applied Loads	
Moment (kip-ft)	808.05
Axial Force (kips)	32.72
Shear Force (kips)	20.97

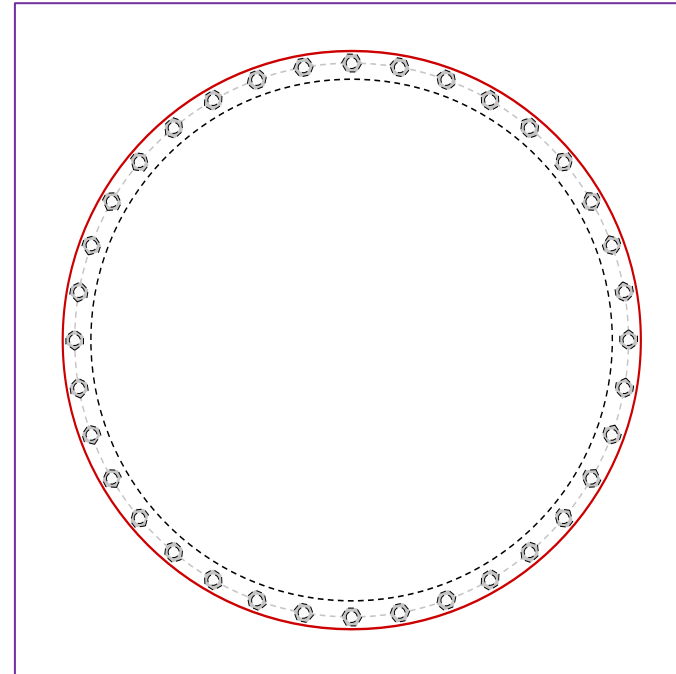
TIA-222 Revision	H
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*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(36) 1" ϕ 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)

Top Stiffener Data

N/A

Top Pole Data

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

Bottom Plate Data

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

Bottom Stiffener Data

N/A

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)	20.21
Allowable (kips)	54.53
Stress Rating:	35.3% Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Monopole Flange Plate Connection

Elevation = 80 ft.



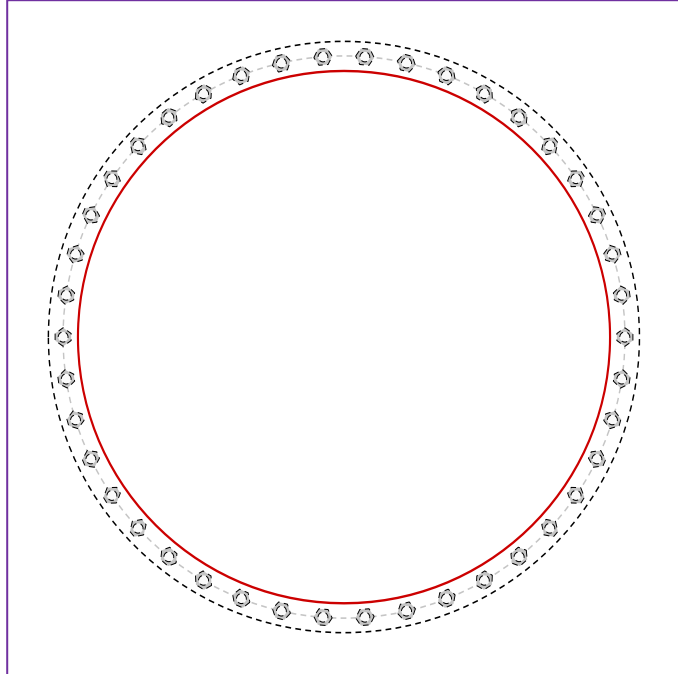
BU #	828540
Site Name	Torrington/RT 8
Order #	553393 Rev. 0

Applied Loads	
Moment (kip-ft)	1397.43
Axial Force (kips)	96.91
Shear Force (kips)	24.00

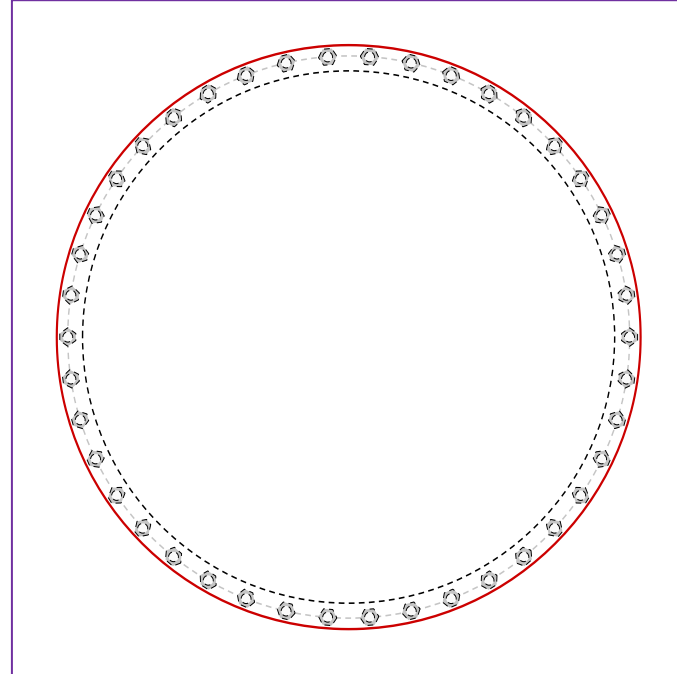
TIA-222 Revision	H
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*TIA-222-H Section 15.5 Applied

Top Plate - External



Bottom Plate - Internal



Connection Properties

Bolt Data

(42) 1" ϕ 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)

Top Stiffener Data

N/A

Top Pole Data

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

Bottom Plate Data

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

Bottom Stiffener Data

N/A

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)	25.71
Allowable (kips)	54.53
Stress Rating:	44.9% Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

Monopole Flange Plate Connection

Elevation = 60 ft.



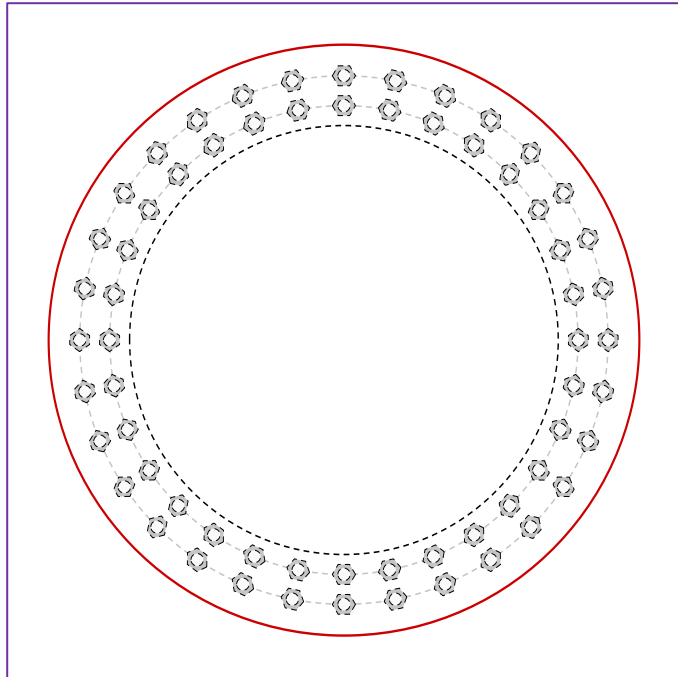
BU #	828540
Site Name	Torrington/RT 8
Order #	553393 Rev. 0

Applied Loads	
Moment (kip-ft)	1899.08
Axial Force (kips)	103.62
Shear Force (kips)	25.95

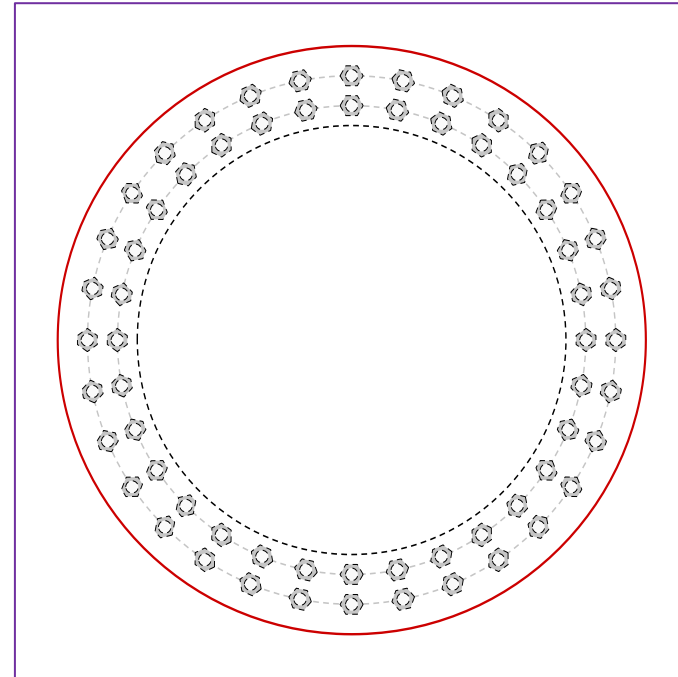
TIA-222 Revision	H
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*TIA-222-H Section 15.5 Applied

Top Plate - Internal



Bottom Plate - Internal



Connection Properties

Bolt Data

GROUP 1: (32) 1-1/4" ϕ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 53" BC
 GROUP 2: (32) 1-1/4" ϕ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 47" BC

Top Plate Data

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

Bottom Plate Data

43" 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

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)	32.32
Allowable (kips)	87.21
Stress Rating:	35.3% Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

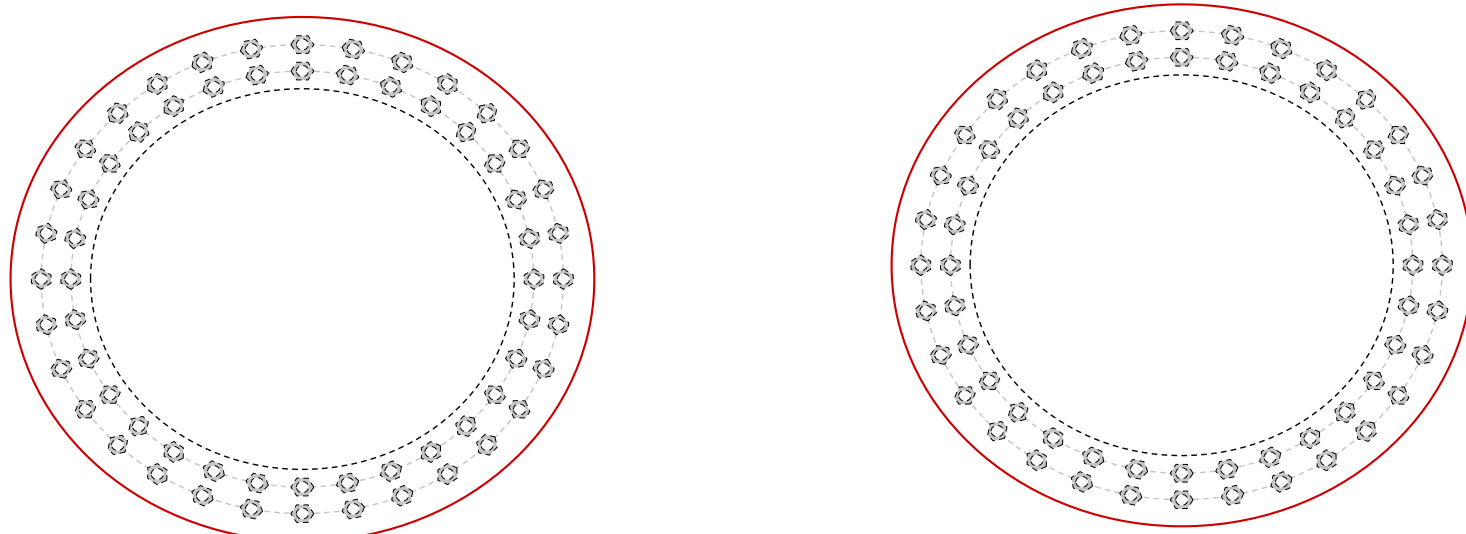
CClplate

Elevation (ft) 60 (Flange)

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending
1	Yes	Yes	Yes
2	Yes	Yes	Yes

Custom Bolt Connection										
Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, n:	I _{ax} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	1.25	A325	53	0.5	0	N-Included		No
2	1	11.25	1.25	A325	53	0.5	0	N-Included		No
3	1	22.5	1.25	A325	53	0.5	0	N-Included		No
4	1	33.75	1.25	A325	53	0.5	0	N-Included		No
5	1	45	1.25	A325	53	0.5	0	N-Included		No
6	1	56.25	1.25	A325	53	0.5	0	N-Included		No
7	1	67.5	1.25	A325	53	0.5	0	N-Included		No
8	1	78.75	1.25	A325	53	0.5	0	N-Included		No
9	1	90	1.25	A325	53	0.5	0	N-Included		No
10	1	101.25	1.25	A325	53	0.5	0	N-Included		No
11	1	112.5	1.25	A325	53	0.5	0	N-Included		No
12	1	123.75	1.25	A325	53	0.5	0	N-Included		No
13	1	135	1.25	A325	53	0.5	0	N-Included		No
14	1	146.25	1.25	A325	53	0.5	0	N-Included		No
15	1	157.5	1.25	A325	53	0.5	0	N-Included		No
16	1	168.75	1.25	A325	53	0.5	0	N-Included		No
17	1	180	1.25	A325	53	0.5	0	N-Included		No
18	1	191.25	1.25	A325	53	0.5	0	N-Included		No
19	1	202.5	1.25	A325	53	0.5	0	N-Included		No
20	1	213.75	1.25	A325	53	0.5	0	N-Included		No
21	1	225	1.25	A325	53	0.5	0	N-Included		No
22	1	236.25	1.25	A325	53	0.5	0	N-Included		No
23	1	247.5	1.25	A325	53	0.5	0	N-Included		No
24	1	258.75	1.25	A325	53	0.5	0	N-Included		No
25	1	270	1.25	A325	53	0.5	0	N-Included		No
26	1	281.25	1.25	A325	53	0.5	0	N-Included		No
27	1	292.5	1.25	A325	53	0.5	0	N-Included		No
28	1	303.75	1.25	A325	53	0.5	0	N-Included		No
29	1	315	1.25	A325	53	0.5	0	N-Included		No
30	1	326.25	1.25	A325	53	0.5	0	N-Included		No
31	1	337.5	1.25	A325	53	0.5	0	N-Included		No
32	1	348.75	1.25	A325	53	0.5	0	N-Included		No
33	2	0	1.25	A325	47	0.5	0	N-Included		No
34	2	11.25	1.25	A325	47	0.5	0	N-Included		No
35	2	22.5	1.25	A325	47	0.5	0	N-Included		No
36	2	33.75	1.25	A325	47	0.5	0	N-Included		No
37	2	45	1.25	A325	47	0.5	0	N-Included		No
38	2	56.25	1.25	A325	47	0.5	0	N-Included		No
39	2	67.5	1.25	A325	47	0.5	0	N-Included		No
40	2	78.75	1.25	A325	47	0.5	0	N-Included		No
41	2	90	1.25	A325	47	0.5	0	N-Included		No
42	2	101.25	1.25	A325	47	0.5	0	N-Included		No
43	2	112.5	1.25	A325	47	0.5	0	N-Included		No
44	2	123.75	1.25	A325	47	0.5	0	N-Included		No
45	2	135	1.25	A325	47	0.5	0	N-Included		No
46	2	146.25	1.25	A325	47	0.5	0	N-Included		No
47	2	157.5	1.25	A325	47	0.5	0	N-Included		No
48	2	168.75	1.25	A325	47	0.5	0	N-Included		No
49	2	180	1.25	A325	47	0.5	0	N-Included		No
50	2	191.25	1.25	A325	47	0.5	0	N-Included		No
51	2	202.5	1.25	A325	47	0.5	0	N-Included		No
52	2	213.75	1.25	A325	47	0.5	0	N-Included		No
53	2	225	1.25	A325	47	0.5	0	N-Included		No
54	2	236.25	1.25	A325	47	0.5	0	N-Included		No
55	2	247.5	1.25	A325	47	0.5	0	N-Included		No
56	2	258.75	1.25	A325	47	0.5	0	N-Included		No
57	2	270	1.25	A325	47	0.5	0	N-Included		No
58	2	281.25	1.25	A325	47	0.5	0	N-Included		No
59	2	292.5	1.25	A325	47	0.5	0	N-Included		No
60	2	303.75	1.25	A325	47	0.5	0	N-Included		No
61	2	315	1.25	A325	47	0.5	0	N-Included		No
62	2	326.25	1.25	A325	47	0.5	0	N-Included		No
63	2	337.5	1.25	A325	47	0.5	0	N-Included		No
64	2	348.75	1.25	A325	47	0.5	0	N-Included		No

Plot Graphic



Monopole Flange Plate Connection

Elevation = 40 ft.



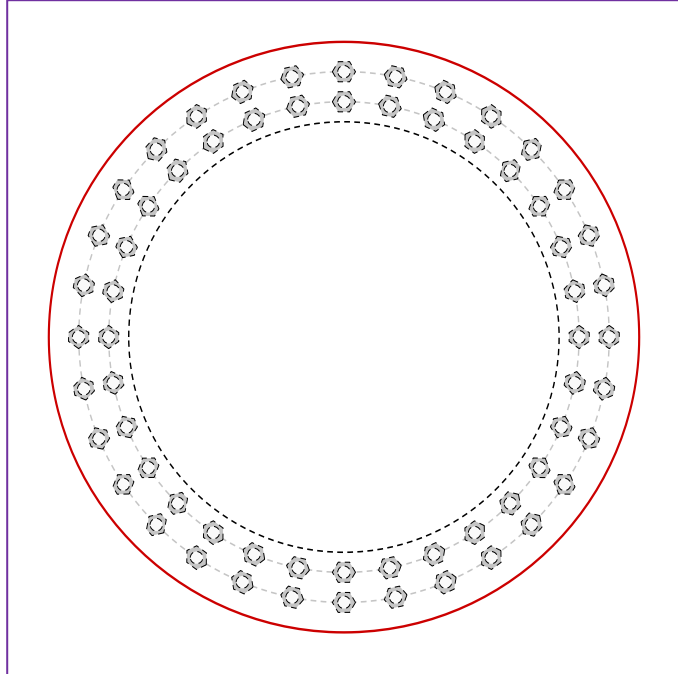
BU #	828540
Site Name	Torrington/RT 8
Order #	553393 Rev. 0

Applied Loads	
Moment (kip-ft)	2434.71
Axial Force (kips)	112.20
Shear Force (kips)	28.37

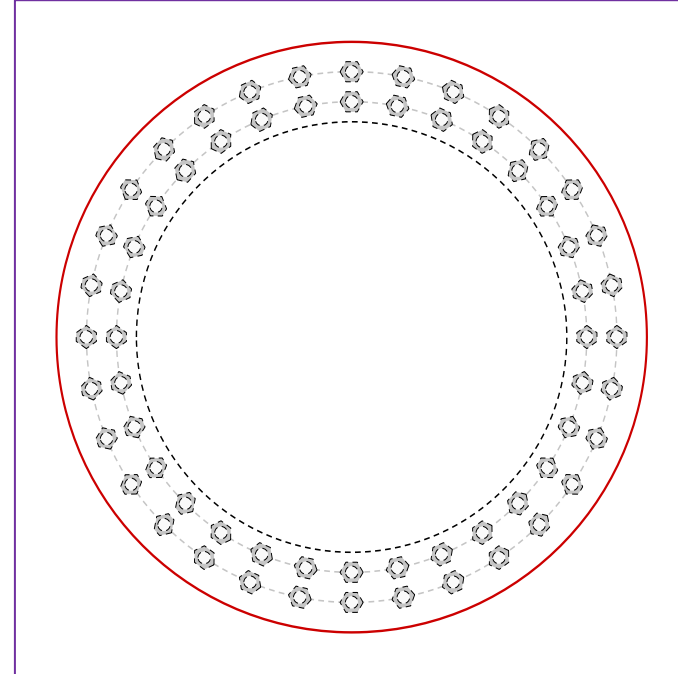
TIA-222 Revision	H
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*TIA-222-H Section 15.5 Applied

Top Plate - Internal



Bottom Plate - Internal



Connection Properties

Bolt Data

- GROUP 1: (32) 1-1/4" ϕ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 53" BC
- GROUP 2: (32) 1-1/4" ϕ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 47" BC

Top Plate Data

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

Bottom Plate Data

43" 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

60" x 0.5" 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)	53.84
Allowable (kips)	87.21
Stress Rating:	58.8% Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

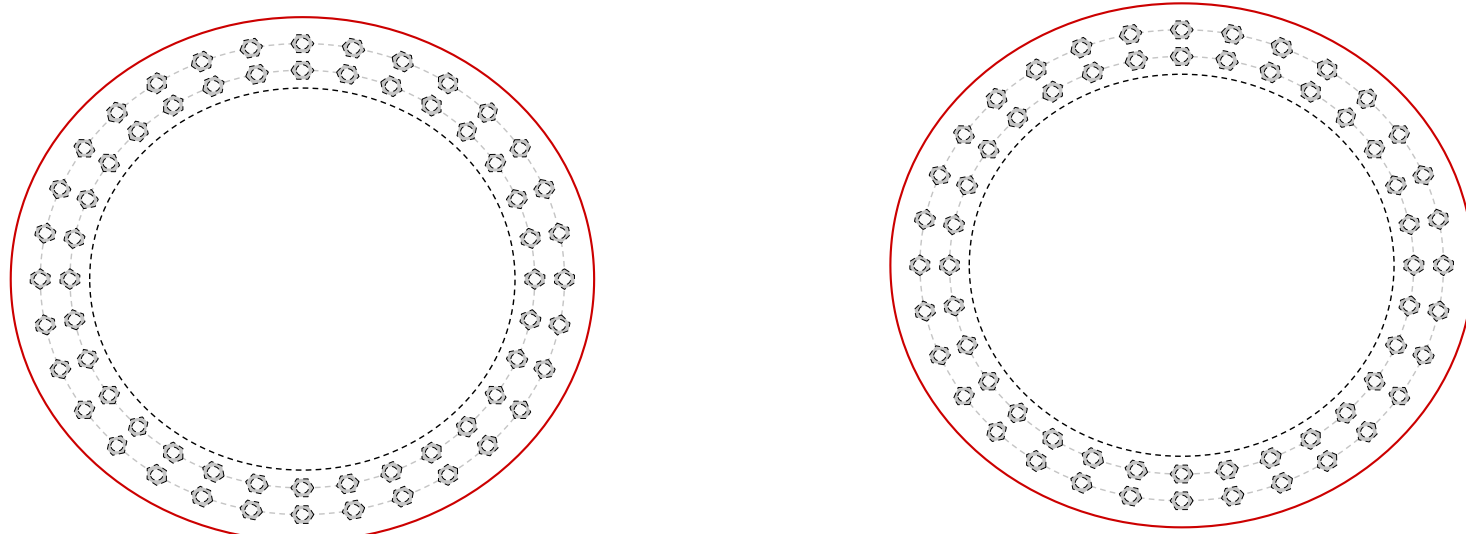
CCIplate

Elevation (ft) 40 (Flange)

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending
1	Yes	Yes	Yes
2	Yes	Yes	Yes

Custom Bolt Connection										
Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, n:	I _{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	1.25	A325	53	0.5	0	N-Included		No
2	1	11.25	1.25	A325	53	0.5	0	N-Included		No
3	1	22.5	1.25	A325	53	0.5	0	N-Included		No
4	1	33.75	1.25	A325	53	0.5	0	N-Included		No
5	1	45	1.25	A325	53	0.5	0	N-Included		No
6	1	56.25	1.25	A325	53	0.5	0	N-Included		No
7	1	67.5	1.25	A325	53	0.5	0	N-Included		No
8	1	78.75	1.25	A325	53	0.5	0	N-Included		No
9	1	90	1.25	A325	53	0.5	0	N-Included		No
10	1	101.25	1.25	A325	53	0.5	0	N-Included		No
11	1	112.5	1.25	A325	53	0.5	0	N-Included		No
12	1	123.75	1.25	A325	53	0.5	0	N-Included		No
13	1	135	1.25	A325	53	0.5	0	N-Included		No
14	1	146.25	1.25	A325	53	0.5	0	N-Included		No
15	1	157.5	1.25	A325	53	0.5	0	N-Included		No
16	1	168.75	1.25	A325	53	0.5	0	N-Included		No
17	1	180	1.25	A325	53	0.5	0	N-Included		No
18	1	191.25	1.25	A325	53	0.5	0	N-Included		No
19	1	202.5	1.25	A325	53	0.5	0	N-Included		No
20	1	213.75	1.25	A325	53	0.5	0	N-Included		No
21	1	225	1.25	A325	53	0.5	0	N-Included		No
22	1	236.25	1.25	A325	53	0.5	0	N-Included		No
23	1	247.5	1.25	A325	53	0.5	0	N-Included		No
24	1	258.75	1.25	A325	53	0.5	0	N-Included		No
25	1	270	1.25	A325	53	0.5	0	N-Included		No
26	1	281.25	1.25	A325	53	0.5	0	N-Included		No
27	1	292.5	1.25	A325	53	0.5	0	N-Included		No
28	1	303.75	1.25	A325	53	0.5	0	N-Included		No
29	1	315	1.25	A325	53	0.5	0	N-Included		No
30	1	326.25	1.25	A325	53	0.5	0	N-Included		No
31	1	337.5	1.25	A325	53	0.5	0	N-Included		No
32	1	348.75	1.25	A325	53	0.5	0	N-Included		No
33	2	0	1.25	A325	47	0.5	0	N-Included		No
34	2	11.25	1.25	A325	47	0.5	0	N-Included		No
35	2	22.5	1.25	A325	47	0.5	0	N-Included		No
36	2	33.75	1.25	A325	47	0.5	0	N-Included		No
37	2	45	1.25	A325	47	0.5	0	N-Included		No
38	2	56.25	1.25	A325	47	0.5	0	N-Included		No
39	2	67.5	1.25	A325	47	0.5	0	N-Included		No
40	2	78.75	1.25	A325	47	0.5	0	N-Included		No
41	2	90	1.25	A325	47	0.5	0	N-Included		No
42	2	101.25	1.25	A325	47	0.5	0	N-Included		No
43	2	112.5	1.25	A325	47	0.5	0	N-Included		No
44	2	123.75	1.25	A325	47	0.5	0	N-Included		No
45	2	135	1.25	A325	47	0.5	0	N-Included		No
46	2	146.25	1.25	A325	47	0.5	0	N-Included		No
47	2	157.5	1.25	A325	47	0.5	0	N-Included		No
48	2	168.75	1.25	A325	47	0.5	0	N-Included		No
49	2	180	1.25	A325	47	0.5	0	N-Included		No
50	2	191.25	1.25	A325	47	0.5	0	N-Included		No
51	2	202.5	1.25	A325	47	0.5	0	N-Included		No
52	2	213.75	1.25	A325	47	0.5	0	N-Included		No
53	2	225	1.25	A325	47	0.5	0	N-Included		No
54	2	236.25	1.25	A325	47	0.5	0	N-Included		No
55	2	247.5	1.25	A325	47	0.5	0	N-Included		No
56	2	258.75	1.25	A325	47	0.5	0	N-Included		No
57	2	270	1.25	A325	47	0.5	0	N-Included		No
58	2	281.25	1.25	A325	47	0.5	0	N-Included		No
59	2	292.5	1.25	A325	47	0.5	0	N-Included		No
60	2	303.75	1.25	A325	47	0.5	0	N-Included		No
61	2	315	1.25	A325	47	0.5	0	N-Included		No
62	2	326.25	1.25	A325	47	0.5	0	N-Included		No
63	2	337.5	1.25	A325	47	0.5	0	N-Included		No
64	2	348.75	1.25	A325	47	0.5	0	N-Included		No

Plot Graphic



Monopole Flange Plate Connection

Elevation = 20 ft.



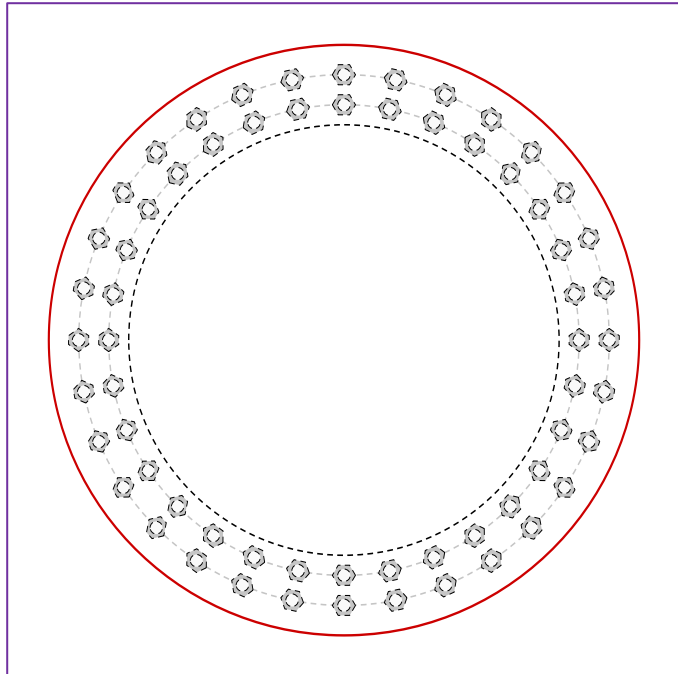
BU #	828540
Site Name	Torrington/RT 8
Order #	553393 Rev. 0

Applied Loads	
Moment (kip-ft)	3011.26
Axial Force (kips)	120.87
Shear Force (kips)	29.36

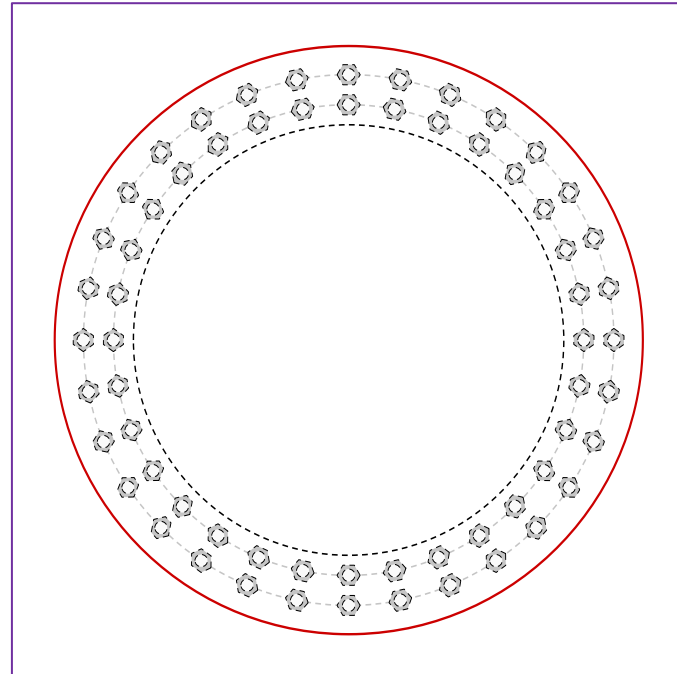
TIA-222 Revision	H
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*TIA-222-H Section 15.5 Applied

Top Plate - Internal



Bottom Plate - Internal



Connection Properties

Bolt Data

- GROUP 1: (32) 1-1/4" ϕ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 53" BC
- GROUP 2: (32) 1-1/4" ϕ bolts (A325 N; Fy=81 ksi, Fu=120 ksi) on 47" BC

Top Plate Data

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

Bottom Plate Data

43" 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

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)	78.11
Allowable (kips)	87.21
Stress Rating:	85.3% Pass

Top Plate Capacity

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

Bottom Plate Capacity

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

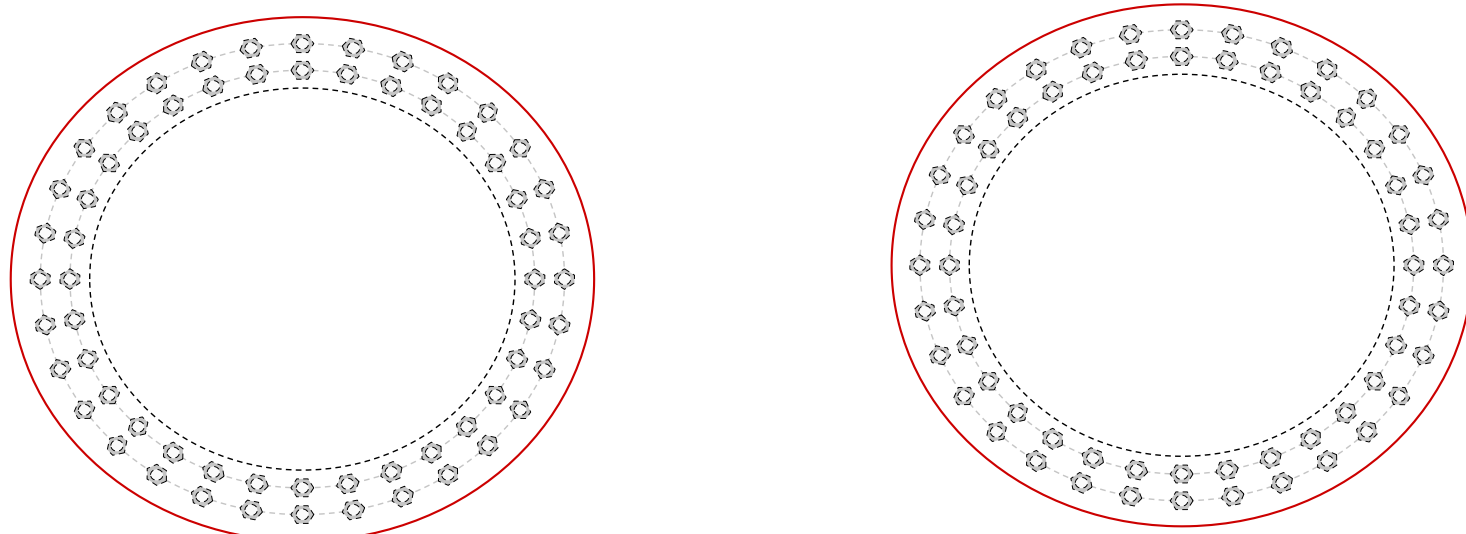
CCIplate

Elevation (ft) 20 (Flange)

Bolt Group	Resist Axial	Resist Shear	Induce Plate Bending
1	Yes	Yes	Yes
2	Yes	Yes	Yes

Custom Bolt Connection										
Bolt	Bolt Group ID	Location (deg.)	Diameter (in)	Material	Bolt Circle (in)	Eta Factor, n:	I _{ar} (in):	Thread Type	Area Override, in^2	Tension Only
1	1	0	1.25	A325	53	0.5	0	N-Included		No
2	1	11.25	1.25	A325	53	0.5	0	N-Included		No
3	1	22.5	1.25	A325	53	0.5	0	N-Included		No
4	1	33.75	1.25	A325	53	0.5	0	N-Included		No
5	1	45	1.25	A325	53	0.5	0	N-Included		No
6	1	56.25	1.25	A325	53	0.5	0	N-Included		No
7	1	67.5	1.25	A325	53	0.5	0	N-Included		No
8	1	78.75	1.25	A325	53	0.5	0	N-Included		No
9	1	90	1.25	A325	53	0.5	0	N-Included		No
10	1	101.25	1.25	A325	53	0.5	0	N-Included		No
11	1	112.5	1.25	A325	53	0.5	0	N-Included		No
12	1	123.75	1.25	A325	53	0.5	0	N-Included		No
13	1	135	1.25	A325	53	0.5	0	N-Included		No
14	1	146.25	1.25	A325	53	0.5	0	N-Included		No
15	1	157.5	1.25	A325	53	0.5	0	N-Included		No
16	1	168.75	1.25	A325	53	0.5	0	N-Included		No
17	1	180	1.25	A325	53	0.5	0	N-Included		No
18	1	191.25	1.25	A325	53	0.5	0	N-Included		No
19	1	202.5	1.25	A325	53	0.5	0	N-Included		No
20	1	213.75	1.25	A325	53	0.5	0	N-Included		No
21	1	225	1.25	A325	53	0.5	0	N-Included		No
22	1	236.25	1.25	A325	53	0.5	0	N-Included		No
23	1	247.5	1.25	A325	53	0.5	0	N-Included		No
24	1	258.75	1.25	A325	53	0.5	0	N-Included		No
25	1	270	1.25	A325	53	0.5	0	N-Included		No
26	1	281.25	1.25	A325	53	0.5	0	N-Included		No
27	1	292.5	1.25	A325	53	0.5	0	N-Included		No
28	1	303.75	1.25	A325	53	0.5	0	N-Included		No
29	1	315	1.25	A325	53	0.5	0	N-Included		No
30	1	326.25	1.25	A325	53	0.5	0	N-Included		No
31	1	337.5	1.25	A325	53	0.5	0	N-Included		No
32	1	348.75	1.25	A325	53	0.5	0	N-Included		No
33	2	0	1.25	A325	47	0.5	0	N-Included		No
34	2	11.25	1.25	A325	47	0.5	0	N-Included		No
35	2	22.5	1.25	A325	47	0.5	0	N-Included		No
36	2	33.75	1.25	A325	47	0.5	0	N-Included		No
37	2	45	1.25	A325	47	0.5	0	N-Included		No
38	2	56.25	1.25	A325	47	0.5	0	N-Included		No
39	2	67.5	1.25	A325	47	0.5	0	N-Included		No
40	2	78.75	1.25	A325	47	0.5	0	N-Included		No
41	2	90	1.25	A325	47	0.5	0	N-Included		No
42	2	101.25	1.25	A325	47	0.5	0	N-Included		No
43	2	112.5	1.25	A325	47	0.5	0	N-Included		No
44	2	123.75	1.25	A325	47	0.5	0	N-Included		No
45	2	135	1.25	A325	47	0.5	0	N-Included		No
46	2	146.25	1.25	A325	47	0.5	0	N-Included		No
47	2	157.5	1.25	A325	47	0.5	0	N-Included		No
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49	2	180	1.25	A325	47	0.5	0	N-Included		No
50	2	191.25	1.25	A325	47	0.5	0	N-Included		No
51	2	202.5	1.25	A325	47	0.5	0	N-Included		No
52	2	213.75	1.25	A325	47	0.5	0	N-Included		No
53	2	225	1.25	A325	47	0.5	0	N-Included		No
54	2	236.25	1.25	A325	47	0.5	0	N-Included		No
55	2	247.5	1.25	A325	47	0.5	0	N-Included		No
56	2	258.75	1.25	A325	47	0.5	0	N-Included		No
57	2	270	1.25	A325	47	0.5	0	N-Included		No
58	2	281.25	1.25	A325	47	0.5	0	N-Included		No
59	2	292.5	1.25	A325	47	0.5	0	N-Included		No
60	2	303.75	1.25	A325	47	0.5	0	N-Included		No
61	2	315	1.25	A325	47	0.5	0	N-Included		No
62	2	326.25	1.25	A325	47	0.5	0	N-Included		No
63	2	337.5	1.25	A325	47	0.5	0	N-Included		No
64	2	348.75	1.25	A325	47	0.5	0	N-Included		No

Plot Graphic



Monopole Base Plate Connection

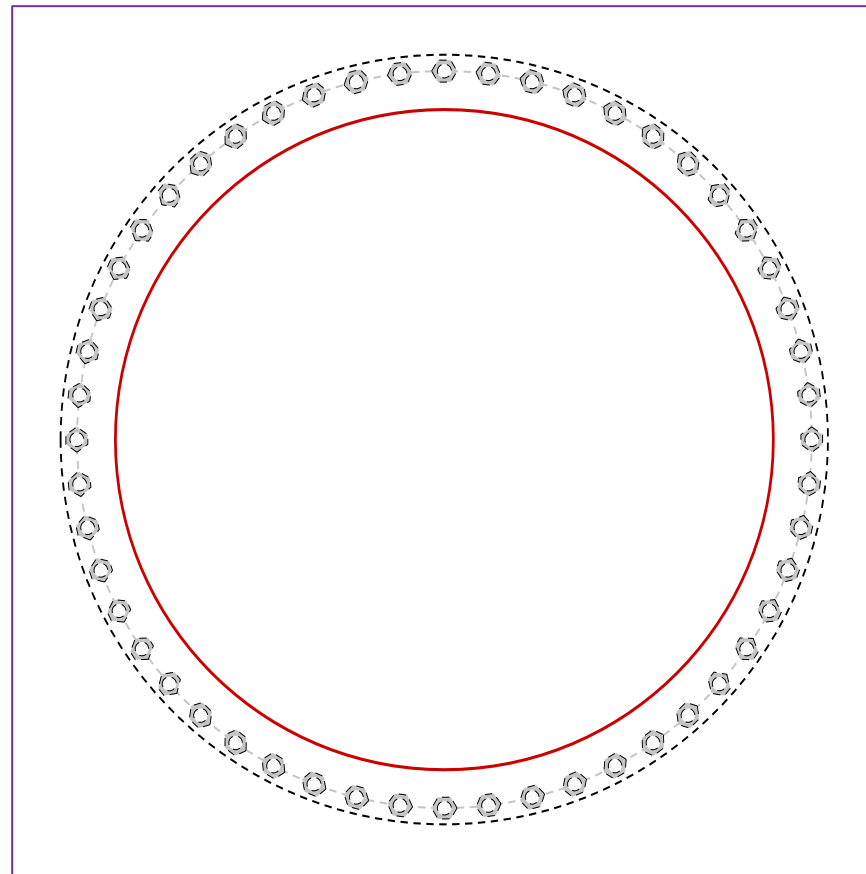


Site Info	
BU #	828540
Site Name	Torrington/RT 8
Order #	553393 Rev. 0

Analysis Considerations	
TIA-222 Revision	H
Grout Considered:	No
l_{ar} (in)	1.375

Applied Loads	
Moment (kip-ft)	3606.88
Axial Force (kips)	131.43
Shear Force (kips)	30.26

*TIA-222-H Section 15.5 Applied



Connection Properties	Analysis Results
-----------------------	------------------

Anchor Rod Data
(52) 1-1/4" ϕ bolts (A687 N; $F_y=105$ ksi, $F_u=125$ ksi) on 67" BC
Base Plate Data
70" OD x 1.25" Plate (A36; $F_y=36$ ksi, $F_u=58$ ksi)
Stiffener Data
N/A
Pole Data
60" x 0.625" round pole (A53-B-42; $F_y=42$ ksi, $F_u=63$ ksi)

Anchor Rod Summary	(units of kips, kip-in)	
$P_{u_t} = 47.16$	$\phi P_{n_t} = 90.84$	Stress Rating
$V_u = 0.58$	$\phi V_n = 57.52$	49.4%
$M_u = 0.52$	$\phi M_n = 30.76$	Pass
Base Plate Summary		
Max Stress (ksi):	-	
Allowable Stress (ksi):	-	
Stress Rating:	Pi rod OK	

Pier and Pad Foundation



BU #: 828540
Site Name: Torrington/RT 8
App. Number: 553393 Rev. 0

TIA-222 Revision: H
Tower Type: Monopole

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

Superstructure Analysis Reactions		
Compression, P_{comp} :	131.44	kips
Base Shear, Vu_{comp} :	30.24	kips
Moment, M_u :	3606.88	ft-kips
Tower Height, H :	160	ft
BP Dist. Above Fdn, bp_{dist} :	2.625	in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	277.91	30.24	10.4%	Pass
<i>Bearing Pressure (ksf)</i>	12.00	1.77	14.1%	Pass
<i>Overturning (kip*ft)</i>	7968.41	3840.30	48.2%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	6886.82	3742.96	51.8%	Pass
<i>Pier Compression (kip)</i>	24494.62	162.61	0.6%	Pass
<i>Pad Flexure (kip*ft)</i>	3763.88	1512.64	38.3%	Pass
<i>Pad Shear - 1-way (kips)</i>	1010.06	208.57	19.7%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.190	0.044	22.3%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	4294.03	2245.78	49.8%	Pass

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, $dpier$:	7	ft
Ext. Above Grade, E :	2.5	ft
Pier Rebar Size, Sc :	9	
Pier Rebar Quantity, mc :	42	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	8	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

*Rating per TIA-222-H Section 15.5

Structural Rating*:	51.8%
Soil Rating*:	48.2%

Pad Properties		
Depth, D :	5	ft
Pad Width, W_1 :	28	ft
Pad Thickness, T :	3	ft
Pad Rebar Size (Bottom dir. 2), Sp_2 :	7	
Pad Rebar Quantity (Bottom dir. 2), mp_2 :	45	
Pad Clear Cover, cc_{pad} :	3	in

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

Soil Properties		
Total Soil Unit Weight, γ :	125	pcf
Ultimate Gross Bearing, Q_{ult} :	16.000	ksf
Cohesion, C_u :	0.000	ksf
Friction Angle, ϕ :	30	degrees
SPT Blow Count, N_{blows} :	50	
Base Friction, μ :	0.5	
Neglected Depth, N :	3.50	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	N/A	ft

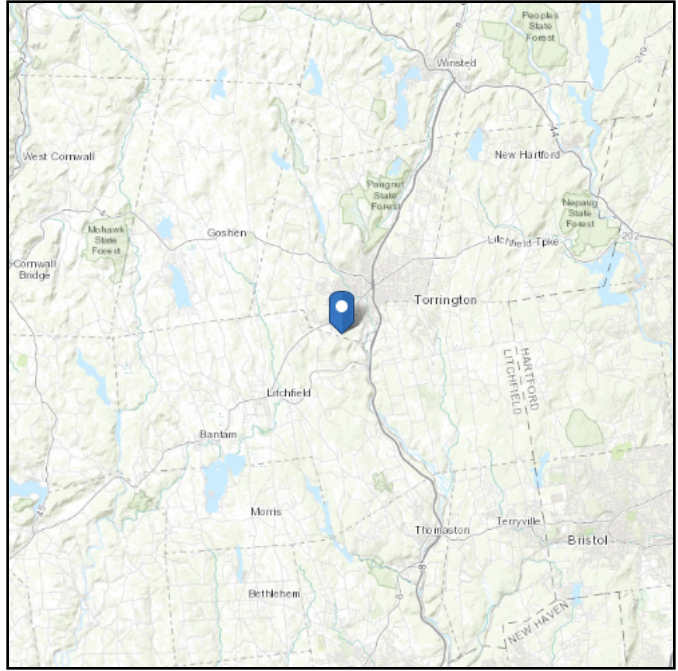
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ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 1026.6 ft (NAVD 88)
Latitude: 41.780647
Longitude: -73.136117



Wind

Results:

Wind Speed:	116 Vmph	Use 120 mph per city of Torrington jurisdiction
10-year MRI	76 Vmph	
25-year MRI	85 Vmph	
50-year MRI	90 Vmph	
100-year MRI	96 Vmph	

Data 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).

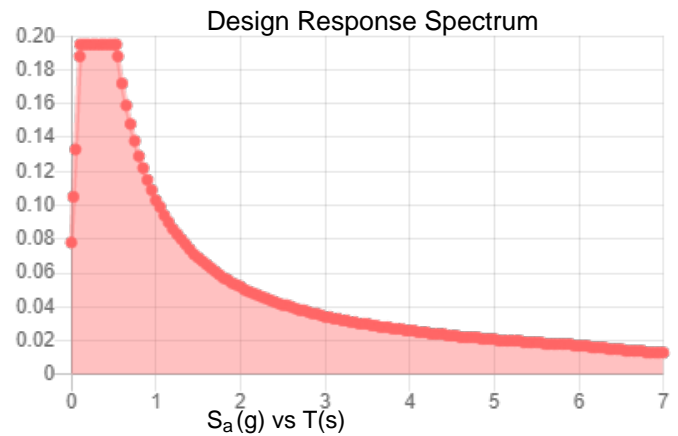
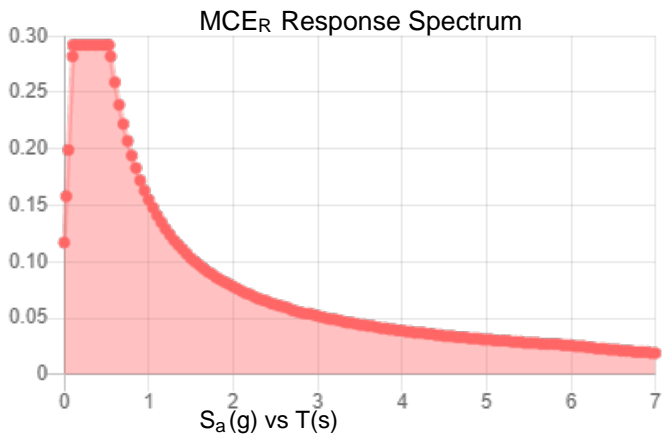
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Stiff Soil

Results:

S_S :	0.183	S_{DS} :	0.195
S_1 :	0.065	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.092
S_{MS} :	0.292	PGA _M :	0.148
S_{M1} :	0.155	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Mon Jul 19 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: 0.75 in. Design Ice: 2*0.75 in. = 1.5 in.
Concurrent Temperature: 5 F
Gust Speed: 50 mph

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

Date Accessed: Mon Jul 19 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.

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

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

Exhibit E

Mount Analysis



Date: **November 2, 2021**

Rob Kulbacki
Crown Castle
2000 Corporate Drive,
Canonsburg, PA 15317
724-416-2116

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

Subject: Mount Analysis Report

Carrier Designation: DISH Network
Carrier Site Number: BOHVN00201A
Carrier Site Name: CT-CCI-T-828540

Crown Castle Designation: Crown Castle BU Number: 828540
Crown Castle Site Name: TORRINGTON/RT 8
Crown Castle JDE Job Number: 645139
Crown Castle Order Number: 553393 Rev. 2

Engineering Firm Designation: POD Report Designation: 21-113668

Site Data: 218 Wheeler Road, Torrington, Litchfield County, CT 06790
Latitude 41°46'50.33" Longitude -73°8'10.02"

Structure Information: Tower Height & Type: 160 ft Monopole
Mount Elevation: 120 ft
Mount Type: 8' Platform with Support Rail

Dear Rob Kulbacki,

POD Group is pleased to submit this "Mount 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' Platform with Support Rail (Multiple Sector)

Sufficient

This analysis utilizes an ultimate 3-second gust wind speed of 116 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: Bradley Linerode

Respectfully submitted by:

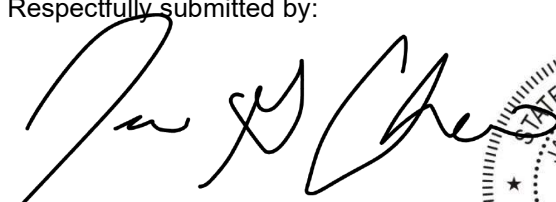

Jason Cheronis, PE
Connecticut PE#: 0032793



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- 2) ANALYSIS CRITERIA**
 - Table 1 – Proposed Equipment Configuration
- 3) ANALYSIS PROCEDURE**
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 - 3.2) Assumptions
- 4) ANALYSIS RESULTS**
 - Table 3 - Mount Component Stresses vs. Capacity
 - 4.1) Recommendations
- 5) APPENDIX A**
 - Wire Frame and Rendered Models
- 6) APPENDIX B**
 - Software Input Calculations
- 7) APPENDIX C**
 - Software Analysis Output
- 8) APPENDIX D**
 - Additional Calculations
- 9) APPENDIX E**
 - Design Criteria
- 10) APPENDIX F**
 - Mount Specification Sheets

1) INTRODUCTION

This mount is a proposed 8' Platform with Support Rail designed by Commscope (P/N: MC-PK8). This mount is to be installed at the 120 ft elevation on the 160 ft Monopole.

2) ANALYSIS CRITERIA

Building Code:	2015 IBC
TIA-222 Revision:	TIA-222-H
Risk Category:	II
Ultimate Wind Speed:	116 mph
Exposure Category:	B
Topographic Factor at Base:	1.000
Topographic Factor at Mount:	1.000
Ice Thickness:	1 in
Wind Speed with Ice:	50 mph
Seismic S_s:	0.183
Seismic S₁:	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
120	120	3	JMA WIRELESS	MX08FRO665-21	8' Platform with Support Rail	-
		3	FUJITSU	TA08025-B604		
		3	FUJITSU	TA08025-B605		
		1	RAYCAP	RDIDC-9181-PF-48		

3) ANALYSIS PROCEDURE

Table 2 - Documents Provided

Document	Remarks	Reference	Source
Crown Application	-	Crown Castle App #: 553393 Rev. 2 Dated: 4/28/2021	Crown Castle
Structural Analysis	-	Morrison Hershfield Report #: CN8-315R1 / 2101398 Dated: 7/21/2021	Crown Castle
Proposed Base Levels Drawings	-	Crown Castle Sheet #: A1-120 Dated: 7/09/2021	Crown Castle
Mount Specification Sheets	-	Commscope Part #: MC-PK8-DSH Dated: 3/17/2021	Commscope

3.1) Analysis Method

RISA-3D (Version 17.0.2), 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) The analysis will be required to be revised if the existing conditions in the field differ from those shown in the above-referenced documents or assumed in this analysis. No allowance was made for any damaged, missing, or rusted members.
- 7) Steel grades have been assumed as follows, unless noted otherwise:
 - a. Angle ASTM A529 (GR 50)
 - b. Channel, Plate ASTM A36 (GR 36)
 - c. HSS (Rectangular) ASTM 500 (GR B-46)
 - d. Pipe ASTM A500 (GR C-60)
 - 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' Platform with Support Rail)

Notes	Component	Critical Member	Centerline (ft)	% Capacity	Pass / Fail
1	Face	FACE	120	6.4	Pass
	Rail	RAIL		14.7	Pass
	Standoff	SO		23.9	Pass
	Corner	CR		21.4	Pass
	Plate	PLATE		20.5	Pass
	Mount Pipe	MP		16.7	Pass
	Rail Connection	RAIL CON		12.3	Pass
	Grating Support	GRAT SUP		7.8	Pass
	Standoff Flange Plate Bolts	-		-	1.6
	Standoff Flange Plate	-	-	19.0	Pass

Structure Rating (max from all components) =	23.9%
---	--------------

Notes:

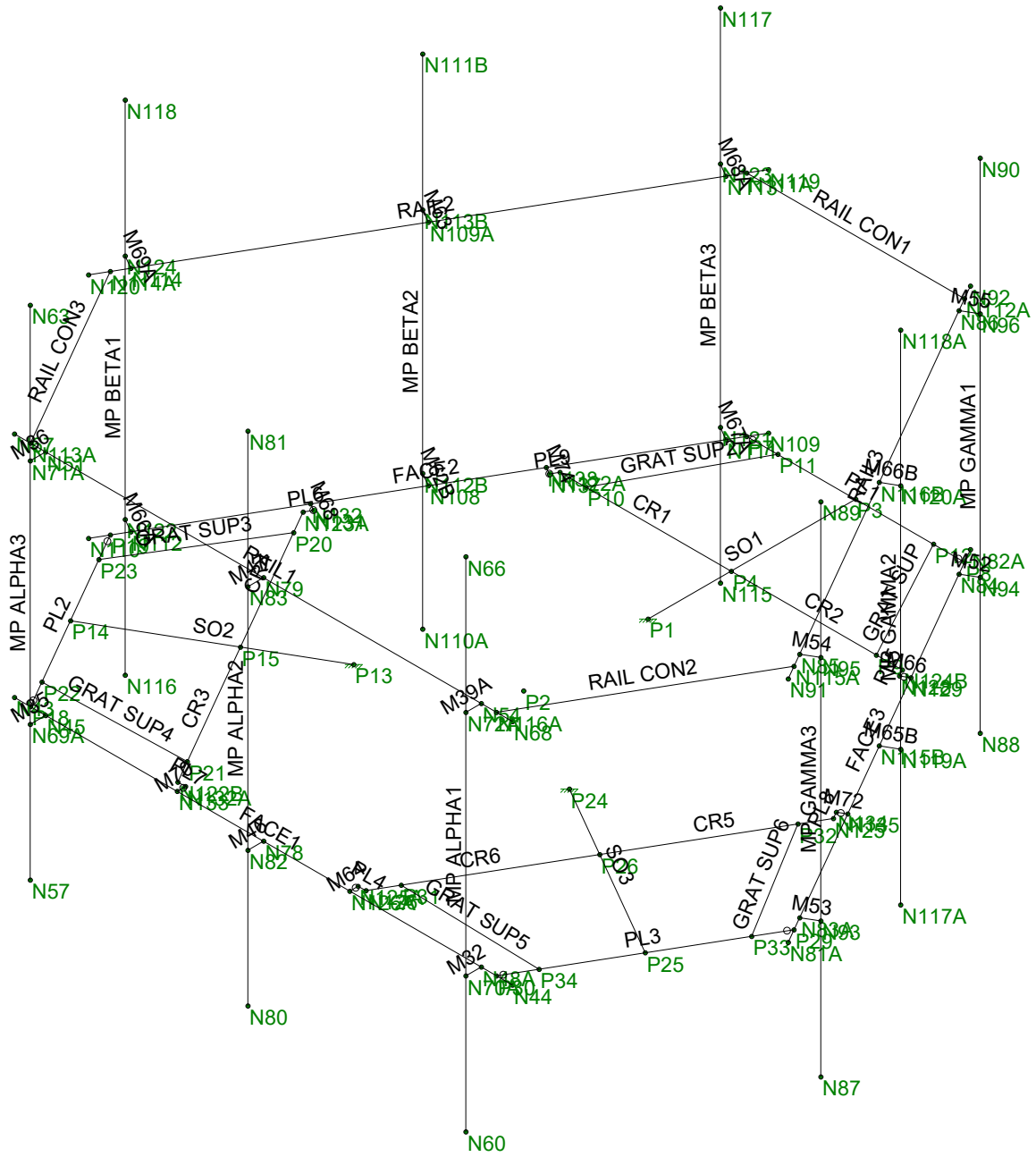
- 1) See additional documentation in "Appendix C – Software Analysis Output" and "Appendix D – Additional Calculations" for calculations supporting the % capacity

4.1) Recommendations

The proposed mount Commscope MC-PK8-DSH installed per manufacturer specifications has sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

APPENDIX A

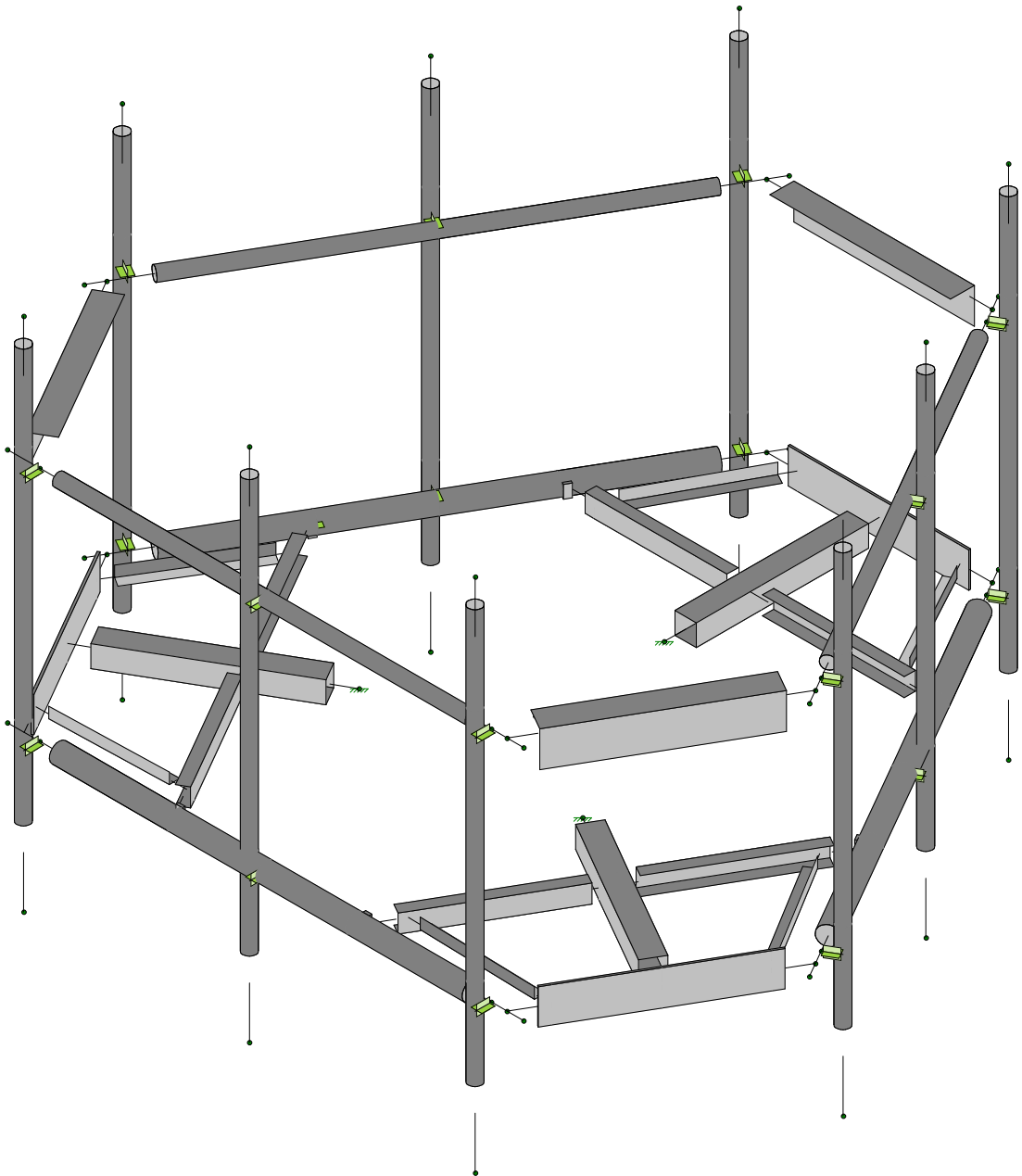
Wire Frame and Rendered Models



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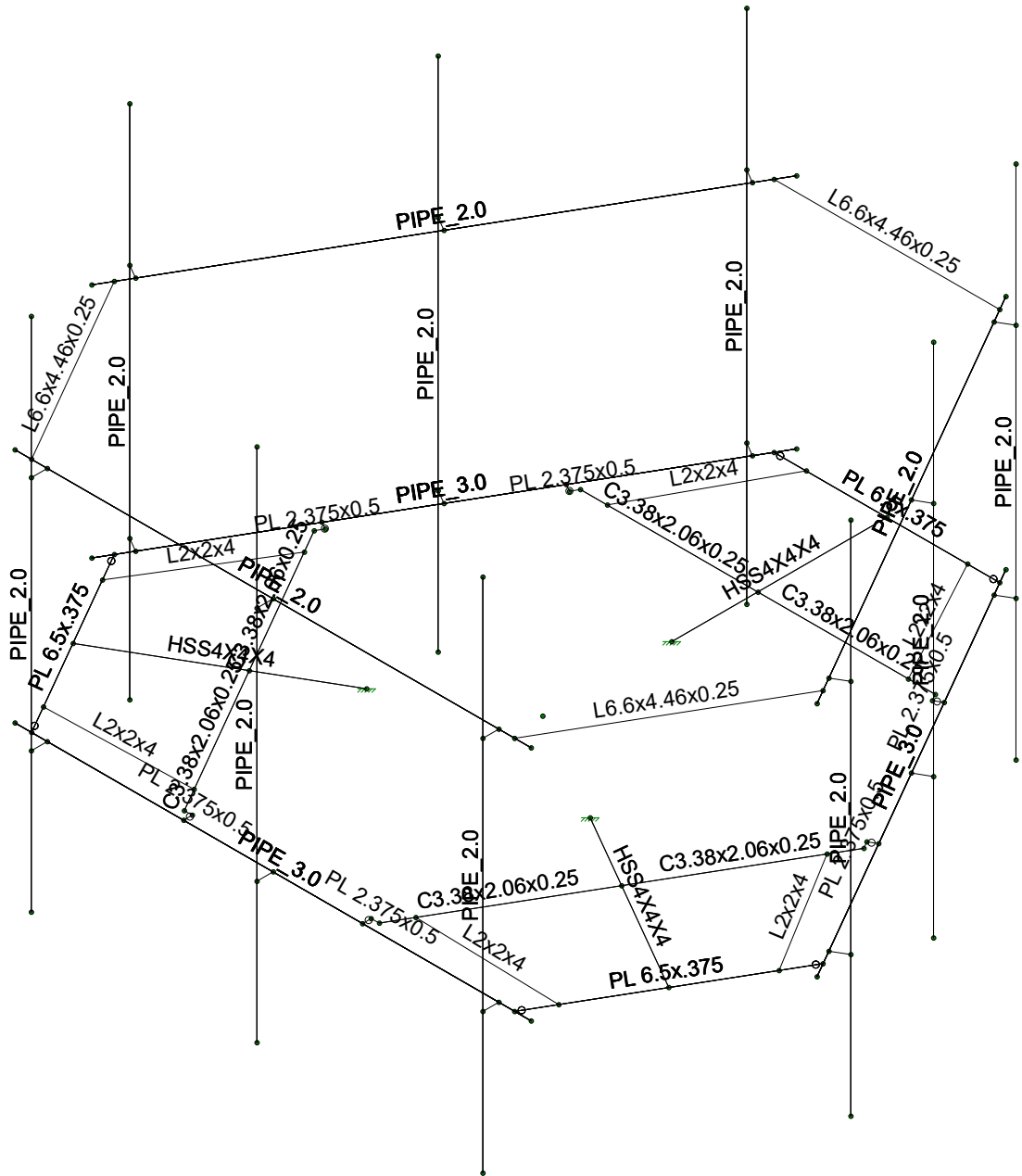
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POD
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21-113668

828540

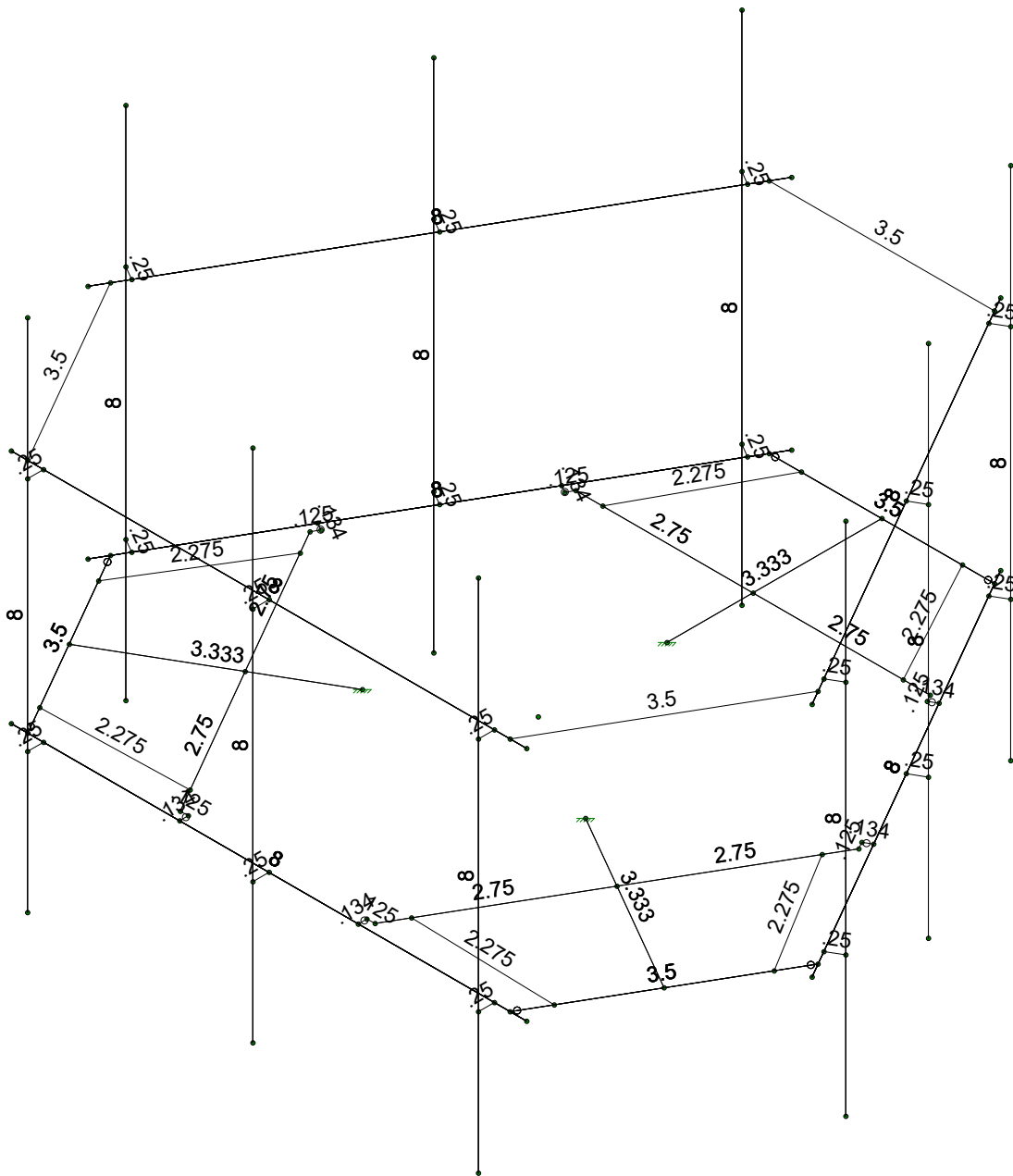
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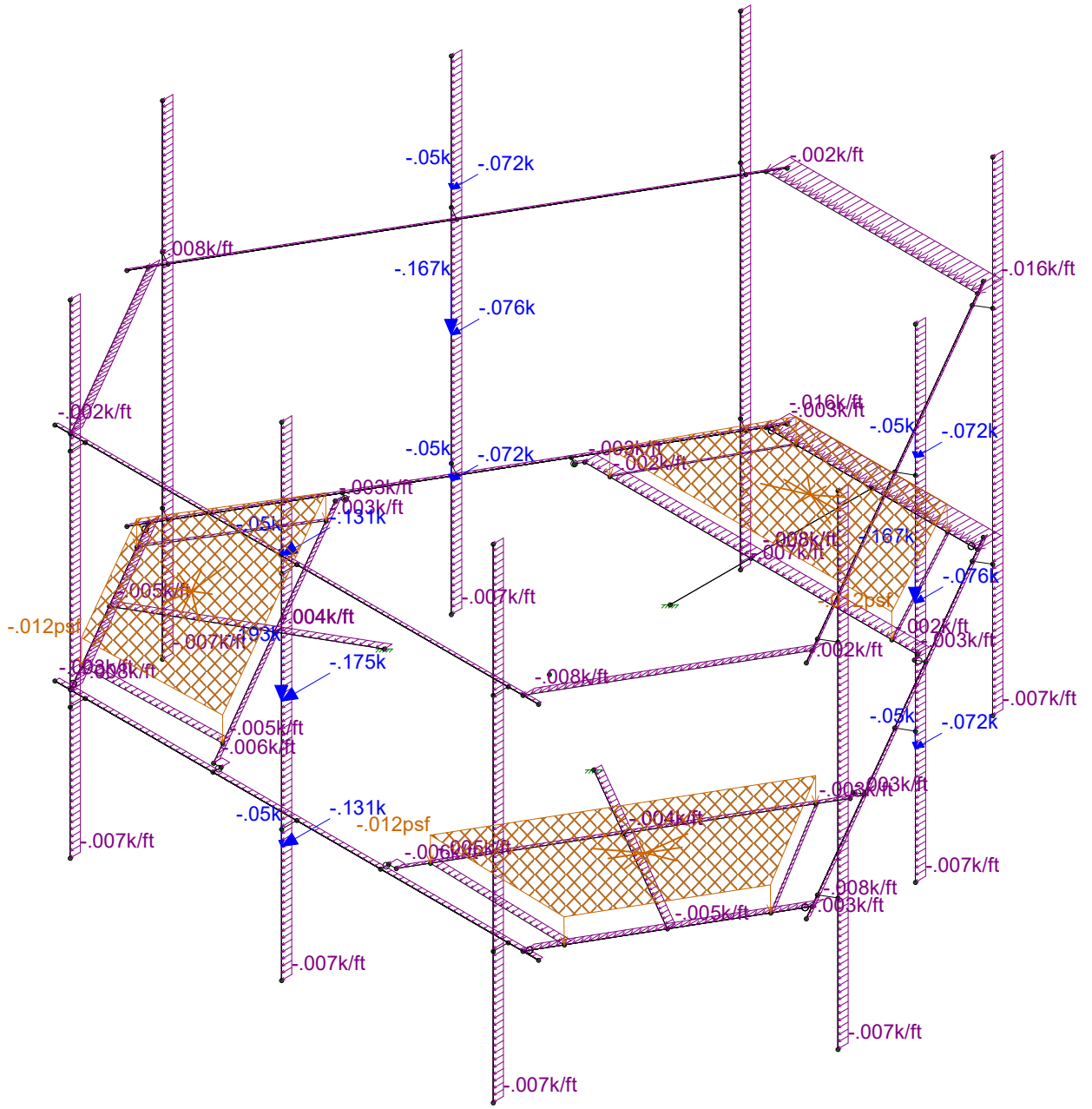
828540

SK - 3
Nov 2, 2021 at 2:08 PM
(PL86) 828540.r3d



Member Length (ft) Displayed

POD	828540	SK - 4
BL		Nov 2, 2021 at 2:09 PM
21-113668		(PL86) 828540.r3d



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

POD		SK - 5
BL	828540	Nov 2, 2021 at 2:09 PM
21-113668		(PL86) 828540.r3d

APPENDIX B
Software Input Calculations



POD Job # 21-113668
 Site Number 828540
 Site Name TORRINGTON/RT 8

General Site Information

Mount Type	SFP	Risk Category	II	I (seismic)	1	Use CFD	Yes
V (Wind Speed)	116	I(ice)	1	Sms	0.293		
Zs	1027	Ss	0.183	Sml	0.151	width (ft)	height (ft)
ti	1	S1	0.063	Sds	0.195	8	3.667
VI	50	Soil Site Class	D	Sd1	0.101		
Kat	1	Fa	1.600	Seismic Design Category			
Exposure	B	Fv	2.400	B			
zg	1200			Seismic Analysis Not Required			
g	7	Tower Type	Monopole	R	2	TIA-222-H 16.7	
Kmin	0.7	Tower Height	160	As	1	TIA-222-H 16.7	
G _{se}	1			Cs, Min	0.03	TIA-222-H 2.7.7.1.1	
Ke	0.96			Cs	0.0976	TIA-222-H 2.7.7.1.1	
K _o	0.95						
K _v	0.9						

Appurtenance Information

Model	Shielded	% Shielded	Centerline	Centerline on MP	Spacing (in)	Azimuth	Sector	Quantity	MP #
MXDBFROG65-21			120	4	50		A/B/C	1	2
TA08025-B604			120	4			A/B/C	1	2
TA08025-B605			120	4			A/B/C	1	2
RDDIC-9181-PF-48			120	4			A	1	2

Mount Information

Elevation (ft)	120	Grating Thickness (in)	1
K _v	1.04	Grating Ice Weight (k/ft ²)	0.014
K _{tz}	1.14		
t _{tz}	1.14		

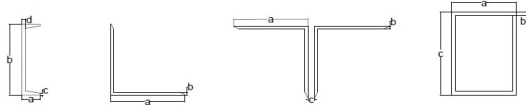
Mount Pipes	Length (ft)	Width (in)	Centerline
	8	2.375	120

Round Members

Member	Length (ft)	Width (in)	Frame Member	# of Members
face on	8	3.4	Yes	2
face off	8	3.4	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
SD	3.33	4	Square HSS		4	0.25	4	No	3
Grat	2.275	2	Angle		2	0.25		No	6
PI1	3.5	6.5	Channel			6.5	0.375	No	3
CR	2.75	3.38	Channel	2.06	3.38	0.25	0.25	No	6
Rail Con	3.5	6.6	Angle	4.46		0.25		No	3
PI2	0.125	2.375	Channel			2.375	0.5	No	6



Appurtenance Wind Calculations

Model	Height	Width	Depth	Weight (lbs)	Kz	qt (lb/ft ²)	[EPA] _w (ft ²)	[EPA] _s (ft ²)	Front	Side	Wind Force (Kips)		
											Alpha	Beta	Gamma
MX08FRO665-21	72.0	20.0	8.0	82.5	1.04	32.83	8.01	3.21	0.263	0.105	0.224	0.224	0.105
TA08025-8604	15.0	15.8	7.9	63.9	1.04	32.83	1.77	0.88	0.058	0.029	0.051	0.051	0.029
TA08025-8605	15.0	15.8	9.1	75.0	1.04	32.83	1.77	1.02	0.058	0.033	0.052	0.052	0.033
RDIDC-9181-PF-48	16.6	14.6	8.5	21.9	1.04	32.83	1.81	1.05	0.059	0.035	0.053	0.053	0.035

Appurtenance Ice Calculations

Model	tiz (in)	Height	Width	Depth	Weight (lbs)	Kiz	qt (lb/ft ²)	[EPA] _w (ft ²)	[EPA] _s (ft ²)	Front	Side	Wind Force (Kips)		
												Alpha	Beta	Gamma
MX08FRO665-21	1.14	74.28	22.28	10.28	177.64	1.14	6.10	8.28	3.83	0.050	0.023	0.044	0.044	0.023
TA08025-8604	1.14	17.24	18.03	10.15	42.06	1.14	6.10	1.36	0.77	0.008	0.005	0.007	0.007	0.005
TA08025-8605	1.14	17.24	18.03	11.34	44.95	1.14	6.10	1.36	0.86	0.008	0.005	0.008	0.008	0.005
RDIDC-9181-PF-48	1.14	18.85	16.85	10.74	44.26	1.14	6.10	1.39	0.89	0.008	0.005	0.008	0.008	0.005

Round Members

Member	q _w (lb/ft ²)	Ar	C	Wind Calculations				EPA (ft ²)	Load (k/ft)	Width (in)	Weight (k/ft)	q _w (lb/ft ²)	Arice	Ice Calculations			EPA (ft ²)	Load (k/ft)
				Rr	Cf	Rice	Cf							Rice	Cf	EPA (ft ²)		
face on	32.83	4.53	32.69	0.59	1.20	1.44	0.006	5.68	0.01	6.10	7.57	0.65	1.20	2.67	0.002			
face off	32.83	2.27	32.69	0.59	1.20	1.44	0.003	5.68	0.01	6.10	3.78	0.65	1.20	2.67	0.001			
rail on	32.83	3.17	22.83	0.59	1.20	1.01	0.004	4.65	0.00	6.10	6.20	0.65	1.20	2.18	0.002			
rail off	32.83	1.58	22.83	0.59	1.20	1.01	0.002	4.65	0.00	6.10	3.10	0.65	1.20	2.18	0.001			

Flat Members

Member	q _w (lb/ft ²)	Af	Cf	Wind Calculations				EPA	Load (k/ft)	Width (in)	Weight (k/ft)	q _w (lb/ft ²)	Arice	Ice Calculations			EPA	Load (k/ft)
				Rr	Cf	Rice	Cf							Rice	Cf	EPA		
SO	32.83	3.33	1.25	1.25	0.006	6.28	0.01	6.10	5.22	0.65	1.25	1.28	0.001					
Girt	32.83	2.28	2.00	0.58	0.005	4.28	0.01	6.10	4.86	0.65	2.00	0.95	0.001					
PI1	32.83	5.69	2.00	3.41	0.016	8.78	0.01	6.10	7.68	0.65	2.00	3.01	0.003					
CR	32.83	4.65	2.00	1.39	0.008	5.66	0.01	6.10	7.78	0.65	2.00	1.52	0.002					
Rail Con	32.83	5.78	2.00	3.47	0.016	8.88	0.01	6.10	7.77	0.65	2.00	3.04	0.003					
PI2	32.83	0.15	2.00	0.04	0.006	4.65	0.00	6.10	0.29	0.65	2.00	0.06	0.001					

Appurtenance Seismic Calculations

Model	Weight	Sds	p	Cs	As	Ev	Eh
MX08FRO665-21	82.5	0.195	1.000	0.098	1.000	0.003	0.008
TA08025-8604	63.9	0.195	1.000	0.098	1.000	0.002	0.006
TA08025-8605	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

APPENDIX C
Software Analysis Output



Company : POD
 Designer : BL
 Job Number : 21-113668
 Model Name : 828540

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Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp to...	Lcomp b...	L-tor...	Kyy	Kzz	Cb	Func...
1	SO1	HSS4X4X4	3.333			Lbyy						Lateral
2	GRAT SUP	L2x2x4	2.275			Lbyy						Lateral
3	GRAT SUP2	L2x2x4	2.275			Lbyy						Lateral
4	PL1	PL 6.5x.375	3.5			Lbyy						Lateral
5	SO2	HSS4X4X4	3.333			Lbyy						Lateral
6	GRAT SUP3	L2x2x4	2.275			Lbyy						Lateral
7	GRAT SUP4	L2x2x4	2.275			Lbyy						Lateral
8	PL2	PL 6.5x.375	3.5			Lbyy						Lateral
9	SO3	HSS4X4X4	3.333			Lbyy						Lateral
10	GRAT SUP5	L2x2x4	2.275			Lbyy						Lateral
11	GRAT SUP6	L2x2x4	2.275			Lbyy						Lateral
12	PL3	PL 6.5x.375	3.5			Lbyy						Lateral
13	FACE1	PIPE 3.0	8			Lbyy						Lateral
14	MP ALPHA1	PIPE 2.0	8			Lbyy						Lateral
15	MP ALPHA3	PIPE 2.0	8			Lbyy						Lateral
16	RAIL1	PIPE 2.0	8			Lbyy						Lateral
17	RAIL CON3	L6.6x4.46x0.25	3.5			Lbyy						Lateral
18	RAIL CON1	L6.6x4.46x0.25	3.5			Lbyy						Lateral
19	RAIL CON2	L6.6x4.46x0.25	3.5			Lbyy						Lateral
20	CR1	C3.38x2.06x0.25	2.75			Lbyy						Lateral
21	CR2	C3.38x2.06x0.25	2.75			Lbyy						Lateral
22	CR3	C3.38x2.06x0.25	2.75			Lbyy						Lateral
23	CR4	C3.38x2.06x0.25	2.75			Lbyy						Lateral
24	CR5	C3.38x2.06x0.25	2.75			Lbyy						Lateral
25	CR6	C3.38x2.06x0.25	2.75			Lbyy						Lateral
26	PL4	PL 2.375x0.5	.125									Lateral
27	PL5	PL 2.375x0.5	.125									Lateral
28	PL6	PL 2.375x0.5	.125									Lateral
29	PL7	PL 2.375x0.5	.125									Lateral
30	PL8	PL 2.375x0.5	.125									Lateral
31	PL9	PL 2.375x0.5	.125									Lateral
32	MP ALPHA2	PIPE 2.0	8			Lbyy						Lateral
33	FACE3	PIPE 3.0	8			Lbyy						Lateral
34	MP GAMMA1	PIPE 2.0	8			Lbyy						Lateral
35	MP GAMMA3	PIPE 2.0	8			Lbyy						Lateral
36	RAIL3	PIPE 2.0	8			Lbyy						Lateral
37	FACE2	PIPE 3.0	8			Lbyy						Lateral
38	MP BETA1	PIPE 2.0	8			Lbyy						Lateral
39	MP BETA3	PIPE 2.0	8			Lbyy						Lateral
40	RAIL2	PIPE 2.0	8			Lbyy						Lateral
41	MP BETA2	PIPE 2.0	8			Lbyy						Lateral
42	MP GAMMA2	PIPE 2.0	8			Lbyy						Lateral

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	SO1						Yes				None
2	GRAT SUP						Yes				None
3	GRAT SUP2						Yes				None
4	PL1	BenPIN	BenPIN				Yes	Default			None
5	SO2						Yes				None
6	GRAT SUP3						Yes				None
7	GRAT SUP4						Yes				None
8	PL2	BenPIN	BenPIN				Yes	Default			None
9	SO3						Yes	Default			None



Company : POD
 Designer : BL
 Job Number : 21-113668
 Model Name : 828540

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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
10	GRAT SUP5						Yes				None
11	GRAT SUP6						Yes				None
12	PL3	BenPIN	BenPIN				Yes	Default			None
13	FACE1						Yes				None
14	MP ALPHA1						Yes		+y+3		None
15	MP ALPHA3						Yes		+y+3		None
16	RAIL1						Yes				None
17	RAIL CON3						Yes				None
18	RAIL CON1						Yes				None
19	RAIL CON2						Yes	Default			None
20	M32						Yes	** NA **			None
21	M35						Yes	** NA **			None
22	M36						Yes	** NA **			None
23	M39A						Yes	** NA **			None
24	CR1						Yes	Default			None
25	CR2						Yes	Default			None
26	CR3						Yes	Default			None
27	CR4						Yes	Default			None
28	CR5						Yes	Default			None
29	CR6						Yes	Default			None
30	M64	BenPIN					Yes	** NA **			None
31	PL4						Yes				None
32	M66	BenPIN					Yes	** NA **			None
33	PL5						Yes				None
34	M68	BenPIN					Yes	** NA **			None
35	PL6						Yes				None
36	M70	BenPIN					Yes	** NA **			None
37	PL7						Yes				None
38	M72	BenPIN					Yes	** NA **			None
39	PL8						Yes				None
40	M74	BenPIN					Yes	** NA **			None
41	PL9						Yes				None
42	MP ALPHA2						Yes		+y+3		None
43	M46						Yes	** NA **			None
44	M47						Yes	** NA **			None
45	FACE3						Yes				None
46	MP GAMM...						Yes		+y+3		None
47	MP GAMM...						Yes		+y+3		None
48	RAIL3						Yes				None
49	M52						Yes	** NA **			None
50	M53						Yes	** NA **			None
51	M54						Yes	** NA **			None
52	M55						Yes	** NA **			None
53	FACE2						Yes				None
54	MP BETA1						Yes		+y+3		None
55	MP BETA3						Yes		+y+3		None
56	RAIL2						Yes				None
57	M66A						Yes	** NA **			None
58	M67A						Yes	** NA **			None
59	M68A						Yes	** NA **			None
60	M69A						Yes	** NA **			None
61	MP BETA2						Yes		+y+3		None
62	M62B						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	MP GAMM...						Yes		+y+3		None
65	M65B						Yes	** NA **			None
66	M66B						Yes	** NA **			None



Company : POD
 Designer : BL
 Job Number : 21-113668
 Model Name : 828540

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Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Sh...	Type	Design List	Material	Design R...
1	SO1	P3	P1		270	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
2	GRAT SUP	P9	P12		180	L2x2x4	Beam	Single Angle	A529 Gr. 50	Typical
3	GRAT SUP2	P10	P11		90	L2x2x4	Beam	Single Angle	A529 Gr. 50	Typical
4	PL1	P7	P8		90	PL 6.5x.375	Beam	Single Angle	A36 Gr.36	Typical
5	SO2	P14	P13		90	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
6	GRAT SUP3	P20	P23		180	L2x2x4	Beam	Single Angle	A529 Gr. 50	Typical
7	GRAT SUP4	P21	P22		270	L2x2x4	Beam	Single Angle	A529 Gr. 50	Typical
8	PL2	P18	P19		270	PL 6.5x.375	Beam	RECT	A36 Gr.36	Typical
9	SO3	P25	P24		270	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical
10	GRAT SUP5	P31	P34		360	L2x2x4	Beam	Single Angle	A529 Gr. 50	Typical
11	GRAT SUP6	P32	P33		90	L2x2x4	Beam	Single Angle	A529 Gr. 50	Typical
12	PL3	P29	P30		270	PL 6.5x.375	Beam	RECT	A36 Gr.36	Typical
13	FACE1	N43	N44		90	PIPE 3.0	Beam	Pipe	A500 GR.C	Typical
14	MP ALPHA1	N60	N66		180	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
15	MP ALPHA3	N57	N63		180	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
16	RAIL1	N67	N68		90	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
17	RAIL CON3	N114A	N113A		270	L6.6x4.46x...	Beam	Single Angle	A36 Gr.36	Typical
18	RAIL CON1	N112A	N111A		90	L6.6x4.46x...	Beam	Single Angle	A36 Gr.36	Typical
19	RAIL CON2	N116A	N115A		270	L6.6x4.46x...	Beam	Single Angle	A36 Gr.36	Typical
20	M32	N48A	N70A		270	RIGID	None	None	RIGID	Typical
21	M35	N45	N69A		270	RIGID	None	None	RIGID	Typical
22	M36	N51	N71A		270	RIGID	None	None	RIGID	Typical
23	M39A	N54	N72A		270	RIGID	None	None	RIGID	Typical
24	CR1	P4	N122A		270	C3.38x2.06...	Beam	Channel	A36 Gr.36	Typical
25	CR2	P4	N124B		90	C3.38x2.06...	Beam	Channel	A36 Gr.36	Typical
26	CR3	P15	N122B		90	C3.38x2.06...	Beam	Channel	A36 Gr.36	Typical
27	CR4	P15	N123A		270	C3.38x2.06...	Beam	Channel	A36 Gr.36	Typical
28	CR5	P26	N125		90	C3.38x2.06...	Beam	Channel	A36 Gr.36	Typical
29	CR6	P26	N126		270	C3.38x2.06...	Beam	Channel	A36 Gr.36	Typical
30	M64	N126A	N125A		90	RIGID	None	None	RIGID	Typical
31	PL4	N126	N125A		270	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
32	M66	N129	N128		270	RIGID	None	None	RIGID	Typical
33	PL5	N124B	N128		90	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
34	M68	N132	N131		90	RIGID	None	None	RIGID	Typical
35	PL6	N123A	N131		90	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
36	M70	N133	N132A		90	RIGID	None	None	RIGID	Typical
37	PL7	N122B	N132A		90	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
38	M72	N135	N134		270	RIGID	None	None	RIGID	Typical
39	PL8	N125	N134		270	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
40	M74	N138	N137		90	RIGID	None	None	RIGID	Typical
41	PL9	N122A	N137		270	PL 2.375x0.5	Beam	RECT	A36 Gr.36	Typical
42	MP ALPHA2	N80	N81		180	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
43	M46	N78	N82		270	RIGID	None	None	RIGID	Typical
44	M47	N79	N83		270	RIGID	None	None	RIGID	Typical
45	FACE3	N81A	N82A		270	PIPE 3.0	Beam	Pipe	A500 GR.C	Typical
46	MP GAMMA1	N88	N90		180	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
47	MP GAMMA3	N87	N89		180	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
48	RAIL3	N91	N92		270	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
49	M52	N84	N94		90	RIGID	None	None	RIGID	Typical
50	M53	N83A	N93		90	RIGID	None	None	RIGID	Typical
51	M54	N85	N95		90	RIGID	None	None	RIGID	Typical
52	M55	N86	N96		90	RIGID	None	None	RIGID	Typical
53	FACE2	N109	N110		270	PIPE 3.0	Beam	Pipe	A500 GR.C	Typical
54	MP BETA1	N116	N118		180	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
55	MP BETA3	N115	N117		180	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
56	RAIL2	N119	N120		270	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Sh...	Type	Design List	Material	Design R...
57	M66A	N112	N122		270	RIGID	None	None	RIGID	Typical
58	M67A	N111	N121		270	RIGID	None	None	RIGID	Typical
59	M68A	N113	N123		270	RIGID	None	None	RIGID	Typical
60	M69A	N114	N124		270	RIGID	None	None	RIGID	Typical
61	MP BETA2	N110A	N111B		60	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
62	M62B	N108	N112B		270	RIGID	None	None	RIGID	Typical
63	M63	N109A	N113B		270	RIGID	None	None	RIGID	Typical
64	MP GAMMA2	N117A	N118A		300	PIPE 2.0	Beam	Pipe	A500 GR.C	Typical
65	M65B	N115B	N119A		90	RIGID	None	None	RIGID	Typical
66	M66B	N116B	N120A		90	RIGID	None	None	RIGID	Typical

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	-.131	6.083
2	MP ALPHA2	Y	-.131	1.917
3	MP BETA2	Y	-.072	6.083
4	MP BETA2	Y	-.072	1.917
5	MP GAMMA2	Y	-.072	6.083
6	MP GAMMA2	Y	-.072	1.917
7	MP ALPHA2	Y	-.058	4
8	MP BETA2	Y	-.036	4
9	MP GAMMA2	Y	-.036	4
10	MP ALPHA2	Y	-.058	4
11	MP BETA2	Y	-.04	4
12	MP GAMMA2	Y	-.04	4
13	MP ALPHA2	Y	-.059	4

Member Point Loads (BLC 3 : Dead Load)

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP ALPHA2	Z	-.041	6.083
2	MP ALPHA2	Z	-.041	1.917
3	MP BETA2	Z	-.041	6.083
4	MP BETA2	Z	-.041	1.917



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
5	MP GAMMA2	Z	-.041	6.083
6	MP GAMMA2	Z	-.041	1.917
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	-.097	6.083
2	MP ALPHA2	Y	-.097	1.917
3	MP ALPHA2	X	-.056	6.083
4	MP ALPHA2	X	-.056	1.917
5	MP BETA2	Y	-.046	6.083
6	MP BETA2	Y	-.046	1.917
7	MP BETA2	X	-.026	6.083
8	MP BETA2	X	-.026	1.917
9	MP GAMMA2	Y	-.097	6.083
10	MP GAMMA2	Y	-.097	1.917
11	MP GAMMA2	X	-.056	6.083
12	MP GAMMA2	X	-.056	1.917
13	MP ALPHA2	Y	-.044	4
14	MP ALPHA2	X	-.025	4
15	MP BETA2	Y	-.025	4
16	MP BETA2	X	-.014	4
17	MP GAMMA2	Y	-.044	4
18	MP GAMMA2	X	-.025	4
19	MP ALPHA2	Y	-.045	4
20	MP ALPHA2	X	-.026	4
21	MP BETA2	Y	-.029	4
22	MP BETA2	X	-.017	4
23	MP GAMMA2	Y	-.045	4
24	MP GAMMA2	X	-.026	4
25	MP ALPHA2	Y	-.046	4
26	MP ALPHA2	X	-.027	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP ALPHA2	Y	-.036	6.083
2	MP ALPHA2	Y	-.036	1.917
3	MP ALPHA2	X	-.063	6.083
4	MP ALPHA2	X	-.063	1.917
5	MP BETA2	Y	-.036	6.083
6	MP BETA2	Y	-.036	1.917
7	MP BETA2	X	-.063	6.083
8	MP BETA2	X	-.063	1.917
9	MP GAMMA2	Y	-.066	6.083
10	MP GAMMA2	Y	-.066	1.917
11	MP GAMMA2	X	-.114	6.083
12	MP GAMMA2	X	-.114	1.917
13	MP ALPHA2	Y	-.018	4
14	MP ALPHA2	X	-.031	4
15	MP BETA2	Y	-.018	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
16	MP BETA2	X	-.031	4
17	MP GAMMA2	Y	-.029	4
18	MP GAMMA2	X	-.05	4
19	MP ALPHA2	Y	-.02	4
20	MP ALPHA2	X	-.034	4
21	MP BETA2	Y	-.02	4
22	MP BETA2	X	-.034	4
23	MP GAMMA2	Y	-.029	4
24	MP GAMMA2	X	-.05	4
25	MP ALPHA2	Y	-.02	4
26	MP ALPHA2	X	-.035	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.053	6.083
2	MP ALPHA2	X	-.053	1.917
3	MP BETA2	X	-.112	6.083
4	MP BETA2	X	-.112	1.917
5	MP GAMMA2	X	-.112	6.083
6	MP GAMMA2	X	-.112	1.917
7	MP ALPHA2	X	-.029	4
8	MP BETA2	X	-.051	4
9	MP GAMMA2	X	-.051	4
10	MP ALPHA2	X	-.033	4
11	MP BETA2	X	-.052	4
12	MP GAMMA2	X	-.052	4
13	MP ALPHA2	X	-.035	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.036	6.083
2	MP ALPHA2	Y	.036	1.917
3	MP ALPHA2	X	-.063	6.083
4	MP ALPHA2	X	-.063	1.917
5	MP BETA2	Y	.066	6.083
6	MP BETA2	Y	.066	1.917
7	MP BETA2	X	-.114	6.083
8	MP BETA2	X	-.114	1.917
9	MP GAMMA2	Y	.036	6.083
10	MP GAMMA2	Y	.036	1.917
11	MP GAMMA2	X	-.063	6.083
12	MP GAMMA2	X	-.063	1.917
13	MP ALPHA2	Y	.018	4
14	MP ALPHA2	X	-.031	4
15	MP BETA2	Y	.029	4
16	MP BETA2	X	-.05	4
17	MP GAMMA2	Y	.018	4
18	MP GAMMA2	X	-.031	4
19	MP ALPHA2	Y	.02	4
20	MP ALPHA2	X	-.034	4
21	MP BETA2	Y	.029	4
22	MP BETA2	X	-.05	4
23	MP GAMMA2	Y	.02	4
24	MP GAMMA2	X	-.034	4
25	MP ALPHA2	Y	.02	4
26	MP ALPHA2	X	-.035	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.097	6.083
2	MP ALPHA2	Y	.097	1.917
3	MP ALPHA2	X	-.056	6.083
4	MP ALPHA2	X	-.056	1.917
5	MP BETA2	Y	.097	6.083
6	MP BETA2	Y	.097	1.917
7	MP BETA2	X	-.056	6.083
8	MP BETA2	X	-.056	1.917
9	MP GAMMA2	Y	.046	6.083
10	MP GAMMA2	Y	.046	1.917
11	MP GAMMA2	X	-.026	6.083
12	MP GAMMA2	X	-.026	1.917
13	MP ALPHA2	Y	.044	4
14	MP ALPHA2	X	-.025	4
15	MP BETA2	Y	.044	4
16	MP BETA2	X	-.025	4
17	MP GAMMA2	Y	.025	4
18	MP GAMMA2	X	-.014	4
19	MP ALPHA2	Y	.045	4
20	MP ALPHA2	X	-.026	4
21	MP BETA2	Y	.045	4
22	MP BETA2	X	-.026	4
23	MP GAMMA2	Y	.029	4
24	MP GAMMA2	X	-.017	4
25	MP ALPHA2	Y	.046	4
26	MP ALPHA2	X	-.027	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.131	6.083
2	MP ALPHA2	Y	.131	1.917
3	MP BETA2	Y	.072	6.083
4	MP BETA2	Y	.072	1.917
5	MP GAMMA2	Y	.072	6.083
6	MP GAMMA2	Y	.072	1.917
7	MP ALPHA2	Y	.058	4
8	MP BETA2	Y	.036	4
9	MP GAMMA2	Y	.036	4
10	MP ALPHA2	Y	.058	4
11	MP BETA2	Y	.04	4
12	MP GAMMA2	Y	.04	4
13	MP ALPHA2	Y	.059	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.097	6.083
2	MP ALPHA2	Y	.097	1.917
3	MP ALPHA2	X	.056	6.083
4	MP ALPHA2	X	.056	1.917
5	MP BETA2	Y	.046	6.083
6	MP BETA2	Y	.046	1.917
7	MP BETA2	X	.026	6.083
8	MP BETA2	X	.026	1.917
9	MP GAMMA2	Y	.097	6.083
10	MP GAMMA2	Y	.097	1.917
11	MP GAMMA2	X	.056	6.083



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA2	X	.056	1.917
13	MP ALPHA2	Y	.044	4
14	MP ALPHA2	X	.025	4
15	MP BETA2	Y	.025	4
16	MP BETA2	X	.014	4
17	MP GAMMA2	Y	.044	4
18	MP GAMMA2	X	.025	4
19	MP ALPHA2	Y	.045	4
20	MP ALPHA2	X	.026	4
21	MP BETA2	Y	.029	4
22	MP BETA2	X	.017	4
23	MP GAMMA2	Y	.045	4
24	MP GAMMA2	X	.026	4
25	MP ALPHA2	Y	.046	4
26	MP ALPHA2	X	.027	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.036	6.083
2	MP ALPHA2	Y	.036	1.917
3	MP ALPHA2	X	.063	6.083
4	MP ALPHA2	X	.063	1.917
5	MP BETA2	Y	.036	6.083
6	MP BETA2	Y	.036	1.917
7	MP BETA2	X	.063	6.083
8	MP BETA2	X	.063	1.917
9	MP GAMMA2	Y	.066	6.083
10	MP GAMMA2	Y	.066	1.917
11	MP GAMMA2	X	.114	6.083
12	MP GAMMA2	X	.114	1.917
13	MP ALPHA2	Y	.018	4
14	MP ALPHA2	X	.031	4
15	MP BETA2	Y	.018	4
16	MP BETA2	X	.031	4
17	MP GAMMA2	Y	.029	4
18	MP GAMMA2	X	.05	4
19	MP ALPHA2	Y	.02	4
20	MP ALPHA2	X	.034	4
21	MP BETA2	Y	.02	4
22	MP BETA2	X	.034	4
23	MP GAMMA2	Y	.029	4
24	MP GAMMA2	X	.05	4
25	MP ALPHA2	Y	.02	4
26	MP ALPHA2	X	.035	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.053	6.083
2	MP ALPHA2	X	.053	1.917
3	MP BETA2	X	.112	6.083
4	MP BETA2	X	.112	1.917
5	MP GAMMA2	X	.112	6.083
6	MP GAMMA2	X	.112	1.917
7	MP ALPHA2	X	.029	4
8	MP BETA2	X	.051	4
9	MP GAMMA2	X	.051	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
10	MP ALPHA2	X	.033	4
11	MP BETA2	X	.052	4
12	MP GAMMA2	X	.052	4
13	MP ALPHA2	X	.035	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP ALPHA2	Y	-.036	6.083
2	MP ALPHA2	Y	-.036	1.917
3	MP ALPHA2	X	.063	6.083
4	MP ALPHA2	X	.063	1.917
5	MP BETA2	Y	-.066	6.083
6	MP BETA2	Y	-.066	1.917
7	MP BETA2	X	.114	6.083
8	MP BETA2	X	.114	1.917
9	MP GAMMA2	Y	-.036	6.083
10	MP GAMMA2	Y	-.036	1.917
11	MP GAMMA2	X	.063	6.083
12	MP GAMMA2	X	.063	1.917
13	MP ALPHA2	Y	-.018	4
14	MP ALPHA2	X	.031	4
15	MP BETA2	Y	-.029	4
16	MP BETA2	X	.05	4
17	MP GAMMA2	Y	-.018	4
18	MP GAMMA2	X	.031	4
19	MP ALPHA2	Y	-.02	4
20	MP ALPHA2	X	.034	4
21	MP BETA2	Y	-.029	4
22	MP BETA2	X	.05	4
23	MP GAMMA2	Y	-.02	4
24	MP GAMMA2	X	.034	4
25	MP ALPHA2	Y	-.02	4
26	MP ALPHA2	X	.035	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.%]
1	MP ALPHA2	Y	-.097	6.083
2	MP ALPHA2	Y	-.097	1.917
3	MP ALPHA2	X	.056	6.083
4	MP ALPHA2	X	.056	1.917
5	MP BETA2	Y	-.097	6.083
6	MP BETA2	Y	-.097	1.917
7	MP BETA2	X	.056	6.083
8	MP BETA2	X	.056	1.917
9	MP GAMMA2	Y	-.046	6.083
10	MP GAMMA2	Y	-.046	1.917
11	MP GAMMA2	X	.026	6.083
12	MP GAMMA2	X	.026	1.917
13	MP ALPHA2	Y	-.044	4
14	MP ALPHA2	X	.025	4
15	MP BETA2	Y	-.044	4
16	MP BETA2	X	.025	4
17	MP GAMMA2	Y	-.025	4
18	MP GAMMA2	X	.014	4
19	MP ALPHA2	Y	-.045	4
20	MP ALPHA2	X	.026	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
21	MP BETA2	Y	-.045	4
22	MP BETA2	X	.026	4
23	MP GAMMA2	Y	-.029	4
24	MP GAMMA2	X	.017	4
25	MP ALPHA2	Y	-.046	4
26	MP ALPHA2	X	.027	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.009	6.083
2	MP ALPHA2	Y	-.009	1.917
3	MP BETA2	Y	-.005	6.083
4	MP BETA2	Y	-.005	1.917
5	MP GAMMA2	Y	-.005	6.083
6	MP GAMMA2	Y	-.005	1.917
7	MP ALPHA2	Y	-.004	4
8	MP BETA2	Y	-.002	4
9	MP GAMMA2	Y	-.002	4
10	MP ALPHA2	Y	-.004	4
11	MP BETA2	Y	-.003	4
12	MP GAMMA2	Y	-.003	4
13	MP ALPHA2	Y	-.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.006	6.083
2	MP ALPHA2	Y	-.006	1.917
3	MP ALPHA2	X	-.004	6.083
4	MP ALPHA2	X	-.004	1.917
5	MP BETA2	Y	-.003	6.083
6	MP BETA2	Y	-.003	1.917
7	MP BETA2	X	-.002	6.083
8	MP BETA2	X	-.002	1.917
9	MP GAMMA2	Y	-.006	6.083
10	MP GAMMA2	Y	-.006	1.917
11	MP GAMMA2	X	-.004	6.083
12	MP GAMMA2	X	-.004	1.917
13	MP ALPHA2	Y	-.003	4
14	MP ALPHA2	X	-.002	4
15	MP BETA2	Y	-.002	4
16	MP BETA2	X	-.000969	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	-.003	4
26	MP ALPHA2	X	-.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.002	6.083

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP ALPHA2	Y	-0.02	1.917
3	MP ALPHA2	X	-0.04	6.083
4	MP ALPHA2	X	-0.04	1.917
5	MP BETA2	Y	-0.02	6.083
6	MP BETA2	Y	-0.02	1.917
7	MP BETA2	X	-0.04	6.083
8	MP BETA2	X	-0.04	1.917
9	MP GAMMA2	Y	-0.04	6.083
10	MP GAMMA2	Y	-0.04	1.917
11	MP GAMMA2	X	-0.08	6.083
12	MP GAMMA2	X	-0.08	1.917
13	MP ALPHA2	Y	-0.01	4
14	MP ALPHA2	X	-0.02	4
15	MP BETA2	Y	-0.01	4
16	MP BETA2	X	-0.02	4
17	MP GAMMA2	Y	-0.02	4
18	MP GAMMA2	X	-0.03	4
19	MP ALPHA2	Y	-0.01	4
20	MP ALPHA2	X	-0.02	4
21	MP BETA2	Y	-0.01	4
22	MP BETA2	X	-0.02	4
23	MP GAMMA2	Y	-0.02	4
24	MP GAMMA2	X	-0.03	4
25	MP ALPHA2	Y	-0.01	4
26	MP ALPHA2	X	-0.02	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-0.04	6.083
2	MP ALPHA2	X	-0.04	1.917
3	MP BETA2	X	-0.07	6.083
4	MP BETA2	X	-0.07	1.917
5	MP GAMMA2	X	-0.07	6.083
6	MP GAMMA2	X	-0.07	1.917
7	MP ALPHA2	X	-0.02	4
8	MP BETA2	X	-0.03	4
9	MP GAMMA2	X	-0.03	4
10	MP ALPHA2	X	-0.02	4
11	MP BETA2	X	-0.03	4
12	MP GAMMA2	X	-0.03	4
13	MP ALPHA2	X	-0.02	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.002	6.083
2	MP ALPHA2	Y	.002	1.917
3	MP ALPHA2	X	-0.04	6.083
4	MP ALPHA2	X	-0.04	1.917
5	MP BETA2	Y	.004	6.083
6	MP BETA2	Y	.004	1.917
7	MP BETA2	X	-0.08	6.083
8	MP BETA2	X	-0.08	1.917
9	MP GAMMA2	Y	.002	6.083
10	MP GAMMA2	Y	.002	1.917
11	MP GAMMA2	X	-0.04	6.083
12	MP GAMMA2	X	-0.04	1.917



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Member Point Loads (BLC 19 : Maintenance (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	-.003	4
17	MP GAMMA2	Y	.001	4
18	MP GAMMA2	X	-.002	4
19	MP ALPHA2	Y	.001	4
20	MP ALPHA2	X	-.002	4
21	MP BETA2	Y	.002	4
22	MP BETA2	X	-.003	4
23	MP GAMMA2	Y	.001	4
24	MP GAMMA2	X	-.002	4
25	MP ALPHA2	Y	.001	4
26	MP ALPHA2	X	-.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	MP ALPHA2	Y	.006	6.083
2	MP ALPHA2	Y	.006	1.917
3	MP ALPHA2	X	-.004	6.083
4	MP ALPHA2	X	-.004	1.917
5	MP BETA2	Y	.006	6.083
6	MP BETA2	Y	.006	1.917
7	MP BETA2	X	-.004	6.083
8	MP BETA2	X	-.004	1.917
9	MP GAMMA2	Y	.003	6.083
10	MP GAMMA2	Y	.003	1.917
11	MP GAMMA2	X	-.002	6.083
12	MP GAMMA2	X	-.002	1.917
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	-.000969	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	.003	4
26	MP ALPHA2	X	-.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	MP ALPHA2	Y	.009	6.083
2	MP ALPHA2	Y	.009	1.917
3	MP BETA2	Y	.005	6.083
4	MP BETA2	Y	.005	1.917
5	MP GAMMA2	Y	.005	6.083
6	MP GAMMA2	Y	.005	1.917
7	MP ALPHA2	Y	.004	4
8	MP BETA2	Y	.002	4
9	MP GAMMA2	Y	.002	4
10	MP ALPHA2	Y	.004	4



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Member Point Loads (BLC 21 : Maintenance (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	.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.006	6.083
2	MP ALPHA2	Y	.006	1.917
3	MP ALPHA2	X	.004	6.083
4	MP ALPHA2	X	.004	1.917
5	MP BETA2	Y	.003	6.083
6	MP BETA2	Y	.003	1.917
7	MP BETA2	X	.002	6.083
8	MP BETA2	X	.002	1.917
9	MP GAMMA2	Y	.006	6.083
10	MP GAMMA2	Y	.006	1.917
11	MP GAMMA2	X	.004	6.083
12	MP GAMMA2	X	.004	1.917
13	MP ALPHA2	Y	.003	4
14	MP ALPHA2	X	.002	4
15	MP BETA2	Y	.002	4
16	MP BETA2	X	.000969	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	.003	4
26	MP ALPHA2	X	.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.002	6.083
2	MP ALPHA2	Y	.002	1.917
3	MP ALPHA2	X	.004	6.083
4	MP ALPHA2	X	.004	1.917
5	MP BETA2	Y	.002	6.083
6	MP BETA2	Y	.002	1.917
7	MP BETA2	X	.004	6.083
8	MP BETA2	X	.004	1.917
9	MP GAMMA2	Y	.004	6.083
10	MP GAMMA2	Y	.004	1.917
11	MP GAMMA2	X	.008	6.083
12	MP GAMMA2	X	.008	1.917
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	.003	4
19	MP ALPHA2	Y	.001	4
20	MP ALPHA2	X	.002	4
21	MP BETA2	Y	.001	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
22	MP BETA2	X	.002	4
23	MP GAMMA2	Y	.002	4
24	MP GAMMA2	X	.003	4
25	MP ALPHA2	Y	.001	4
26	MP ALPHA2	X	.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	.004	6.083
2	MP ALPHA2	X	.004	1.917
3	MP BETA2	X	.007	6.083
4	MP BETA2	X	.007	1.917
5	MP GAMMA2	X	.007	6.083
6	MP GAMMA2	X	.007	1.917
7	MP ALPHA2	X	.002	4
8	MP BETA2	X	.003	4
9	MP GAMMA2	X	.003	4
10	MP ALPHA2	X	.002	4
11	MP BETA2	X	.003	4
12	MP GAMMA2	X	.003	4
13	MP ALPHA2	X	.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.002	6.083
2	MP ALPHA2	Y	-.002	1.917
3	MP ALPHA2	X	.004	6.083
4	MP ALPHA2	X	.004	1.917
5	MP BETA2	Y	-.004	6.083
6	MP BETA2	Y	-.004	1.917
7	MP BETA2	X	.008	6.083
8	MP BETA2	X	.008	1.917
9	MP GAMMA2	Y	-.002	6.083
10	MP GAMMA2	Y	-.002	1.917
11	MP GAMMA2	X	.004	6.083
12	MP GAMMA2	X	.004	1.917
13	MP ALPHA2	Y	-.001	4
14	MP ALPHA2	X	.002	4
15	MP BETA2	Y	-.002	4
16	MP BETA2	X	.003	4
17	MP GAMMA2	Y	-.001	4
18	MP GAMMA2	X	.002	4
19	MP ALPHA2	Y	-.001	4
20	MP ALPHA2	X	.002	4
21	MP BETA2	Y	-.002	4
22	MP BETA2	X	.003	4
23	MP GAMMA2	Y	-.001	4
24	MP GAMMA2	X	.002	4
25	MP ALPHA2	Y	-.001	4
26	MP ALPHA2	X	.002	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.006	6.083
2	MP ALPHA2	Y	-.006	1.917

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
3	MP ALPHA2	X	.004	6.083
4	MP ALPHA2	X	.004	1.917
5	MP BETA2	Y	-.006	6.083
6	MP BETA2	Y	-.006	1.917
7	MP BETA2	X	.004	6.083
8	MP BETA2	X	.004	1.917
9	MP GAMMA2	Y	-.003	6.083
10	MP GAMMA2	Y	-.003	1.917
11	MP GAMMA2	X	.002	6.083
12	MP GAMMA2	X	.002	1.917
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	.000969	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	-.003	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	-.089	6.083
2	MP ALPHA2	Z	-.089	1.917
3	MP BETA2	Z	-.089	6.083
4	MP BETA2	Z	-.089	1.917
5	MP GAMMA2	Z	-.089	6.083
6	MP GAMMA2	Z	-.089	1.917
7	MP ALPHA2	Z	-.042	4
8	MP BETA2	Z	-.042	4
9	MP GAMMA2	Z	-.042	4
10	MP ALPHA2	Z	-.045	4
11	MP BETA2	Z	-.045	4
12	MP GAMMA2	Z	-.045	4
13	MP ALPHA2	Z	-.044	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft. %]
1	MP ALPHA2	Y	-.025	6.083
2	MP ALPHA2	Y	-.025	1.917
3	MP BETA2	Y	-.015	6.083
4	MP BETA2	Y	-.015	1.917
5	MP GAMMA2	Y	-.015	6.083
6	MP GAMMA2	Y	-.015	1.917
7	MP ALPHA2	Y	-.008	4
8	MP BETA2	Y	-.006	4
9	MP GAMMA2	Y	-.006	4
10	MP ALPHA2	Y	-.008	4
11	MP BETA2	Y	-.006	4
12	MP GAMMA2	Y	-.006	4
13	MP ALPHA2	Y	-.008	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-0.19	6.083
2	MP ALPHA2	Y	-0.19	1.917
3	MP ALPHA2	X	-0.11	6.083
4	MP ALPHA2	X	-0.11	1.917
5	MP BETA2	Y	-0.01	6.083
6	MP BETA2	Y	-0.01	1.917
7	MP BETA2	X	-0.006	6.083
8	MP BETA2	X	-0.006	1.917
9	MP GAMMA2	Y	-0.19	6.083
10	MP GAMMA2	Y	-0.19	1.917
11	MP GAMMA2	X	-0.11	6.083
12	MP GAMMA2	X	-0.11	1.917
13	MP ALPHA2	Y	-0.006	4
14	MP ALPHA2	X	-0.004	4
15	MP BETA2	Y	-0.004	4
16	MP BETA2	X	-0.002	4
17	MP GAMMA2	Y	-0.006	4
18	MP GAMMA2	X	-0.004	4
19	MP ALPHA2	Y	-0.007	4
20	MP ALPHA2	X	-0.004	4
21	MP BETA2	Y	-0.005	4
22	MP BETA2	X	-0.003	4
23	MP GAMMA2	Y	-0.007	4
24	MP GAMMA2	X	-0.004	4
25	MP ALPHA2	Y	-0.007	4
26	MP ALPHA2	X	-0.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-0.008	6.083
2	MP ALPHA2	Y	-0.008	1.917
3	MP ALPHA2	X	-0.013	6.083
4	MP ALPHA2	X	-0.013	1.917
5	MP BETA2	Y	-0.008	6.083
6	MP BETA2	Y	-0.008	1.917
7	MP BETA2	X	-0.013	6.083
8	MP BETA2	X	-0.013	1.917
9	MP GAMMA2	Y	-0.013	6.083
10	MP GAMMA2	Y	-0.013	1.917
11	MP GAMMA2	X	-0.022	6.083
12	MP GAMMA2	X	-0.022	1.917
13	MP ALPHA2	Y	-0.003	4
14	MP ALPHA2	X	-0.005	4
15	MP BETA2	Y	-0.003	4
16	MP BETA2	X	-0.005	4
17	MP GAMMA2	Y	-0.004	4
18	MP GAMMA2	X	-0.007	4
19	MP ALPHA2	Y	-0.003	4
20	MP ALPHA2	X	-0.005	4
21	MP BETA2	Y	-0.003	4
22	MP BETA2	X	-0.005	4
23	MP GAMMA2	Y	-0.004	4
24	MP GAMMA2	X	-0.007	4
25	MP ALPHA2	Y	-0.003	4
26	MP ALPHA2	X	-0.005	4



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	X	-.012	6.083
2	MP ALPHA2	X	-.012	1.917
3	MP BETA2	X	-.022	6.083
4	MP BETA2	X	-.022	1.917
5	MP GAMMA2	X	-.022	6.083
6	MP GAMMA2	X	-.022	1.917
7	MP ALPHA2	X	-.005	4
8	MP BETA2	X	-.007	4
9	MP GAMMA2	X	-.007	4
10	MP ALPHA2	X	-.005	4
11	MP BETA2	X	-.008	4
12	MP GAMMA2	X	-.008	4
13	MP ALPHA2	X	-.005	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.008	6.083
2	MP ALPHA2	Y	.008	1.917
3	MP ALPHA2	X	-.013	6.083
4	MP ALPHA2	X	-.013	1.917
5	MP BETA2	Y	.013	6.083
6	MP BETA2	Y	.013	1.917
7	MP BETA2	X	-.022	6.083
8	MP BETA2	X	-.022	1.917
9	MP GAMMA2	Y	.008	6.083
10	MP GAMMA2	Y	.008	1.917
11	MP GAMMA2	X	-.013	6.083
12	MP GAMMA2	X	-.013	1.917
13	MP ALPHA2	Y	.003	4
14	MP ALPHA2	X	-.005	4
15	MP BETA2	Y	.004	4
16	MP BETA2	X	-.007	4
17	MP GAMMA2	Y	.003	4
18	MP GAMMA2	X	-.005	4
19	MP ALPHA2	Y	.003	4
20	MP ALPHA2	X	-.005	4
21	MP BETA2	Y	.004	4
22	MP BETA2	X	-.007	4
23	MP GAMMA2	Y	.003	4
24	MP GAMMA2	X	-.005	4
25	MP ALPHA2	Y	.003	4
26	MP ALPHA2	X	-.005	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft, %]
1	MP ALPHA2	Y	.019	6.083
2	MP ALPHA2	Y	.019	1.917
3	MP ALPHA2	X	-.011	6.083
4	MP ALPHA2	X	-.011	1.917
5	MP BETA2	Y	.019	6.083
6	MP BETA2	Y	.019	1.917
7	MP BETA2	X	-.011	6.083
8	MP BETA2	X	-.011	1.917
9	MP GAMMA2	Y	.01	6.083
10	MP GAMMA2	Y	.01	1.917
11	MP GAMMA2	X	-.006	6.083



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
12	MP GAMMA2	X	-.006	1.917
13	MP ALPHA2	Y	.006	4
14	MP ALPHA2	X	-.004	4
15	MP BETA2	Y	.006	4
16	MP BETA2	X	-.004	4
17	MP GAMMA2	Y	.004	4
18	MP GAMMA2	X	-.002	4
19	MP ALPHA2	Y	.007	4
20	MP ALPHA2	X	-.004	4
21	MP BETA2	Y	.007	4
22	MP BETA2	X	-.004	4
23	MP GAMMA2	Y	.005	4
24	MP GAMMA2	X	-.003	4
25	MP ALPHA2	Y	.007	4
26	MP ALPHA2	X	-.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.025	6.083
2	MP ALPHA2	Y	.025	1.917
3	MP BETA2	Y	.015	6.083
4	MP BETA2	Y	.015	1.917
5	MP GAMMA2	Y	.015	6.083
6	MP GAMMA2	Y	.015	1.917
7	MP ALPHA2	Y	.008	4
8	MP BETA2	Y	.006	4
9	MP GAMMA2	Y	.006	4
10	MP ALPHA2	Y	.008	4
11	MP BETA2	Y	.006	4
12	MP GAMMA2	Y	.006	4
13	MP ALPHA2	Y	.008	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	.019	6.083
2	MP ALPHA2	Y	.019	1.917
3	MP ALPHA2	X	.011	6.083
4	MP ALPHA2	X	.011	1.917
5	MP BETA2	Y	.01	6.083
6	MP BETA2	Y	.01	1.917
7	MP BETA2	X	.006	6.083
8	MP BETA2	X	.006	1.917
9	MP GAMMA2	Y	.019	6.083
10	MP GAMMA2	Y	.019	1.917
11	MP GAMMA2	X	.011	6.083
12	MP GAMMA2	X	.011	1.917
13	MP ALPHA2	Y	.006	4
14	MP ALPHA2	X	.004	4
15	MP BETA2	Y	.004	4
16	MP BETA2	X	.002	4
17	MP GAMMA2	Y	.006	4
18	MP GAMMA2	X	.004	4
19	MP ALPHA2	Y	.007	4
20	MP ALPHA2	X	.004	4
21	MP BETA2	Y	.005	4
22	MP BETA2	X	.003	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.-%]
23	MP GAMMA2	Y	.007	4
24	MP GAMMA2	X	.004	4
25	MP ALPHA2	Y	.007	4
26	MP ALPHA2	X	.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.-%]
1	MP ALPHA2	Y	.008	6.083
2	MP ALPHA2	Y	.008	1.917
3	MP ALPHA2	X	.013	6.083
4	MP ALPHA2	X	.013	1.917
5	MP BETA2	Y	.008	6.083
6	MP BETA2	Y	.008	1.917
7	MP BETA2	X	.013	6.083
8	MP BETA2	X	.013	1.917
9	MP GAMMA2	Y	.013	6.083
10	MP GAMMA2	Y	.013	1.917
11	MP GAMMA2	X	.022	6.083
12	MP GAMMA2	X	.022	1.917
13	MP ALPHA2	Y	.003	4
14	MP ALPHA2	X	.005	4
15	MP BETA2	Y	.003	4
16	MP BETA2	X	.005	4
17	MP GAMMA2	Y	.004	4
18	MP GAMMA2	X	.007	4
19	MP ALPHA2	Y	.003	4
20	MP ALPHA2	X	.005	4
21	MP BETA2	Y	.003	4
22	MP BETA2	X	.005	4
23	MP GAMMA2	Y	.004	4
24	MP GAMMA2	X	.007	4
25	MP ALPHA2	Y	.003	4
26	MP ALPHA2	X	.005	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.-%]
1	MP ALPHA2	X	.012	6.083
2	MP ALPHA2	X	.012	1.917
3	MP BETA2	X	.022	6.083
4	MP BETA2	X	.022	1.917
5	MP GAMMA2	X	.022	6.083
6	MP GAMMA2	X	.022	1.917
7	MP ALPHA2	X	.005	4
8	MP BETA2	X	.007	4
9	MP GAMMA2	X	.007	4
10	MP ALPHA2	X	.005	4
11	MP BETA2	X	.008	4
12	MP GAMMA2	X	.008	4
13	MP ALPHA2	X	.005	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft.-%]
1	MP ALPHA2	Y	-.008	6.083
2	MP ALPHA2	Y	-.008	1.917
3	MP ALPHA2	X	.013	6.083



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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
4	MP ALPHA2	X	.013	1.917
5	MP BETA2	Y	-.013	6.083
6	MP BETA2	Y	-.013	1.917
7	MP BETA2	X	.022	6.083
8	MP BETA2	X	.022	1.917
9	MP GAMMA2	Y	-.008	6.083
10	MP GAMMA2	Y	-.008	1.917
11	MP GAMMA2	X	.013	6.083
12	MP GAMMA2	X	.013	1.917
13	MP ALPHA2	Y	-.003	4
14	MP ALPHA2	X	.005	4
15	MP BETA2	Y	-.004	4
16	MP BETA2	X	.007	4
17	MP GAMMA2	Y	-.003	4
18	MP GAMMA2	X	.005	4
19	MP ALPHA2	Y	-.003	4
20	MP ALPHA2	X	.005	4
21	MP BETA2	Y	-.004	4
22	MP BETA2	X	.007	4
23	MP GAMMA2	Y	-.003	4
24	MP GAMMA2	X	.005	4
25	MP ALPHA2	Y	-.003	4
26	MP ALPHA2	X	.005	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-.019	6.083
2	MP ALPHA2	Y	-.019	1.917
3	MP ALPHA2	X	.011	6.083
4	MP ALPHA2	X	.011	1.917
5	MP BETA2	Y	-.019	6.083
6	MP BETA2	Y	-.019	1.917
7	MP BETA2	X	.011	6.083
8	MP BETA2	X	.011	1.917
9	MP GAMMA2	Y	-.01	6.083
10	MP GAMMA2	Y	-.01	1.917
11	MP GAMMA2	X	.006	6.083
12	MP GAMMA2	X	.006	1.917
13	MP ALPHA2	Y	-.006	4
14	MP ALPHA2	X	.004	4
15	MP BETA2	Y	-.006	4
16	MP BETA2	X	.004	4
17	MP GAMMA2	Y	-.004	4
18	MP GAMMA2	X	.002	4
19	MP ALPHA2	Y	-.007	4
20	MP ALPHA2	X	.004	4
21	MP BETA2	Y	-.007	4
22	MP BETA2	X	.004	4
23	MP GAMMA2	Y	-.005	4
24	MP GAMMA2	X	.003	4
25	MP ALPHA2	Y	-.007	4
26	MP ALPHA2	X	.004	4

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	X	-.004	6.083

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

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
2	MP ALPHA2	X	-0.04	1.917
3	MP BETA2	X	-0.04	6.083
4	MP BETA2	X	-0.04	1.917
5	MP GAMMA2	X	-0.04	6.083
6	MP GAMMA2	X	-0.04	1.917
7	MP ALPHA2	X	-0.06	4
8	MP BETA2	X	-0.06	4
9	MP GAMMA2	X	-0.06	4
10	MP ALPHA2	X	-0.07	4
11	MP BETA2	X	-0.07	4
12	MP GAMMA2	X	-0.07	4
13	MP ALPHA2	X	-0.02	4

Member Point Loads (BLC 41 : Earthquake (y-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Y	-0.04	6.083
2	MP ALPHA2	Y	-0.04	1.917
3	MP BETA2	Y	-0.04	6.083
4	MP BETA2	Y	-0.04	1.917
5	MP GAMMA2	Y	-0.04	6.083
6	MP GAMMA2	Y	-0.04	1.917
7	MP ALPHA2	Y	-0.06	4
8	MP BETA2	Y	-0.06	4
9	MP GAMMA2	Y	-0.06	4
10	MP ALPHA2	Y	-0.07	4
11	MP BETA2	Y	-0.07	4
12	MP GAMMA2	Y	-0.07	4
13	MP ALPHA2	Y	-0.02	4

Member Point Loads (BLC 42 : Earthquake (z-direction))

	Member Label	Direction	Magnitude[k,k-ft]	Location[ft,%]
1	MP ALPHA2	Z	-0.02	6.083
2	MP ALPHA2	Z	-0.02	1.917
3	MP BETA2	Z	-0.02	6.083
4	MP BETA2	Z	-0.02	1.917
5	MP GAMMA2	Z	-0.02	6.083
6	MP GAMMA2	Z	-0.02	1.917
7	MP ALPHA2	Z	-0.02	4
8	MP BETA2	Z	-0.02	4
9	MP GAMMA2	Z	-0.02	4
10	MP ALPHA2	Z	-0.03	4
11	MP BETA2	Z	-0.03	4
12	MP GAMMA2	Z	-0.03	4
13	MP ALPHA2	Z	-0.00853	4

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

	Member Label	Direction	Start Magnitude[k/ft,...]	End Magnitude[k/ft,F,...]	Start Location[ft,%]	End Location[ft,%]
1	SO1	PY	-0.006	-0.006	0	0
2	GRAT SUP	PY	-0.005	-0.005	0	0
3	GRAT SUP2	PY	-0.005	-0.005	0	0
4	PL1	PY	-0.016	-0.016	0	0
5	SO2	PY	-0.006	-0.006	0	0
6	GRAT SUP3	PY	-0.005	-0.005	0	0
7	GRAT SUP4	PY	-0.005	-0.005	0	0



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Member Distributed Loads (BLC 2 : Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
8	PL2	PY	-0.016	-0.016	0	0
9	SO3	PY	-0.006	-0.006	0	0
10	GRAT SUP5	PY	-0.005	-0.005	0	0
11	GRAT SUP6	PY	-0.005	-0.005	0	0
12	PL3	PY	-0.016	-0.016	0	0
13	FACE1	PY	-0.003	-0.003	0	0
14	MP ALPHA1	PY	-0.007	-0.007	0	0
15	MP ALPHA3	PY	-0.007	-0.007	0	0
16	RAIL1	PY	-0.002	-0.002	0	0
17	RAIL CON3	PY	-0.016	-0.016	0	0
18	RAIL CON1	PY	-0.016	-0.016	0	0
19	RAIL CON2	PY	-0.016	-0.016	0	0
20	CR1	PY	-0.008	-0.008	0	0
21	CR2	PY	-0.008	-0.008	0	0
22	CR3	PY	-0.008	-0.008	0	0
23	CR4	PY	-0.008	-0.008	0	0
24	CR5	PY	-0.008	-0.008	0	0
25	CR6	PY	-0.008	-0.008	0	0
26	PL4	PY	-0.006	-0.006	0	0
27	PL5	PY	-0.006	-0.006	0	0
28	PL6	PY	-0.006	-0.006	0	0
29	PL7	PY	-0.006	-0.006	0	0
30	PL8	PY	-0.006	-0.006	0	0
31	PL9	PY	-0.006	-0.006	0	0
32	MP ALPHA2	PY	-0.007	-0.007	0	0
33	FACE3	PY	-0.006	-0.006	0	0
34	MP GAMMA1	PY	-0.007	-0.007	0	0
35	MP GAMMA3	PY	-0.007	-0.007	0	0
36	RAIL3	PY	-0.004	-0.004	0	0
37	FACE2	PY	-0.006	-0.006	0	0
38	MP BETA1	PY	-0.007	-0.007	0	0
39	MP BETA3	PY	-0.007	-0.007	0	0
40	RAIL2	PY	-0.004	-0.004	0	0
41	MP BETA2	PY	-0.007	-0.007	0	0
42	MP GAMMA2	PY	-0.007	-0.007	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
1	SO1	PY	-0.005	-0.005	0	0
2	GRAT SUP	PY	-0.004	-0.004	0	0
3	GRAT SUP2	PY	-0.004	-0.004	0	0
4	PL1	PY	-0.014	-0.014	0	0
5	SO2	PY	-0.005	-0.005	0	0
6	GRAT SUP3	PY	-0.004	-0.004	0	0
7	GRAT SUP4	PY	-0.004	-0.004	0	0
8	PL2	PY	-0.014	-0.014	0	0
9	SO3	PY	-0.005	-0.005	0	0
10	GRAT SUP5	PY	-0.004	-0.004	0	0
11	GRAT SUP6	PY	-0.004	-0.004	0	0
12	PL3	PY	-0.014	-0.014	0	0
13	FACE1	PY	-0.003	-0.003	0	0
14	MP ALPHA1	PY	-0.006	-0.006	0	0
15	MP ALPHA3	PY	-0.006	-0.006	0	0
16	RAIL1	PY	-0.002	-0.002	0	0
17	RAIL CON3	PY	-0.014	-0.014	0	0
18	RAIL CON1	PY	-0.014	-0.014	0	0



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Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
19	RAIL CON2	PY	-0.014	-0.014	0	0
20	CR1	PY	-0.007	-0.007	0	0
21	CR2	PY	-0.007	-0.007	0	0
22	CR3	PY	-0.007	-0.007	0	0
23	CR4	PY	-0.007	-0.007	0	0
24	CR5	PY	-0.007	-0.007	0	0
25	CR6	PY	-0.007	-0.007	0	0
26	PL4	PY	-0.005	-0.005	0	0
27	PL5	PY	-0.005	-0.005	0	0
28	PL6	PY	-0.005	-0.005	0	0
29	PL7	PY	-0.005	-0.005	0	0
30	PL8	PY	-0.005	-0.005	0	0
31	PL9	PY	-0.005	-0.005	0	0
32	MP ALPHA2	PY	-0.006	-0.006	0	0
33	FACE3	PY	-0.005	-0.005	0	0
34	MP GAMMA1	PY	-0.006	-0.006	0	0
35	MP GAMMA3	PY	-0.006	-0.006	0	0
36	RAIL3	PY	-0.004	-0.004	0	0
37	FACE2	PY	-0.005	-0.005	0	0
38	MP BETA1	PY	-0.006	-0.006	0	0
39	MP BETA3	PY	-0.006	-0.006	0	0
40	RAIL2	PY	-0.004	-0.004	0	0
41	MP BETA2	PY	-0.006	-0.006	0	0
42	MP GAMMA2	PY	-0.006	-0.006	0	0
43	SO1	PX	-0.003	-0.003	0	0
44	GRAT SUP	PX	-0.002	-0.002	0	0
45	GRAT SUP2	PX	-0.002	-0.002	0	0
46	PL1	PX	-0.008	-0.008	0	0
47	SO2	PX	-0.003	-0.003	0	0
48	GRAT SUP3	PX	-0.002	-0.002	0	0
49	GRAT SUP4	PX	-0.002	-0.002	0	0
50	PL2	PX	-0.008	-0.008	0	0
51	SO3	PX	-0.003	-0.003	0	0
52	GRAT SUP5	PX	-0.002	-0.002	0	0
53	GRAT SUP6	PX	-0.002	-0.002	0	0
54	PL3	PX	-0.008	-0.008	0	0
55	FACE1	PX	-0.001	-0.001	0	0
56	MP ALPHA1	PX	-0.004	-0.004	0	0
57	MP ALPHA3	PX	-0.004	-0.004	0	0
58	RAIL1	PX	-0.001	-0.001	0	0
59	RAIL CON3	PX	-0.008	-0.008	0	0
60	RAIL CON1	PX	-0.008	-0.008	0	0
61	RAIL CON2	PX	-0.008	-0.008	0	0
62	CR1	PX	-0.004	-0.004	0	0
63	CR2	PX	-0.004	-0.004	0	0
64	CR3	PX	-0.004	-0.004	0	0
65	CR4	PX	-0.004	-0.004	0	0
66	CR5	PX	-0.004	-0.004	0	0
67	CR6	PX	-0.004	-0.004	0	0
68	PL4	PX	-0.003	-0.003	0	0
69	PL5	PX	-0.003	-0.003	0	0
70	PL6	PX	-0.003	-0.003	0	0
71	PL7	PX	-0.003	-0.003	0	0
72	PL8	PX	-0.003	-0.003	0	0
73	PL9	PX	-0.003	-0.003	0	0
74	MP ALPHA2	PX	-0.004	-0.004	0	0
75	FACE3	PX	-0.003	-0.003	0	0



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Member Distributed Loads (BLC 4 : Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
76	MP GAMMA1	PX	-0.004	-0.004	0	0
77	MP GAMMA3	PX	-0.004	-0.004	0	0
78	RAIL3	PX	-0.002	-0.002	0	0
79	FACE2	PX	-0.003	-0.003	0	0
80	MP BETA1	PX	-0.004	-0.004	0	0
81	MP BETA3	PX	-0.004	-0.004	0	0
82	RAIL2	PX	-0.002	-0.002	0	0
83	MP BETA2	PX	-0.004	-0.004	0	0
84	MP GAMMA2	PX	-0.004	-0.004	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	-0.003	-0.003	0	0
2	GRAT SUP	PY	-0.002	-0.002	0	0
3	GRAT SUP2	PY	-0.002	-0.002	0	0
4	PL1	PY	-0.008	-0.008	0	0
5	SO2	PY	-0.003	-0.003	0	0
6	GRAT SUP3	PY	-0.002	-0.002	0	0
7	GRAT SUP4	PY	-0.002	-0.002	0	0
8	PL2	PY	-0.008	-0.008	0	0
9	SO3	PY	-0.003	-0.003	0	0
10	GRAT SUP5	PY	-0.002	-0.002	0	0
11	GRAT SUP6	PY	-0.002	-0.002	0	0
12	PL3	PY	-0.008	-0.008	0	0
13	FACE1	PY	-0.001	-0.001	0	0
14	MP ALPHA1	PY	-0.004	-0.004	0	0
15	MP ALPHA3	PY	-0.004	-0.004	0	0
16	RAIL1	PY	-0.001	-0.001	0	0
17	RAIL CON3	PY	-0.008	-0.008	0	0
18	RAIL CON1	PY	-0.008	-0.008	0	0
19	RAIL CON2	PY	-0.008	-0.008	0	0
20	CR1	PY	-0.004	-0.004	0	0
21	CR2	PY	-0.004	-0.004	0	0
22	CR3	PY	-0.004	-0.004	0	0
23	CR4	PY	-0.004	-0.004	0	0
24	CR5	PY	-0.004	-0.004	0	0
25	CR6	PY	-0.004	-0.004	0	0
26	PL4	PY	-0.003	-0.003	0	0
27	PL5	PY	-0.003	-0.003	0	0
28	PL6	PY	-0.003	-0.003	0	0
29	PL7	PY	-0.003	-0.003	0	0
30	PL8	PY	-0.003	-0.003	0	0
31	PL9	PY	-0.003	-0.003	0	0
32	MP ALPHA2	PY	-0.004	-0.004	0	0
33	FACE3	PY	-0.003	-0.003	0	0
34	MP GAMMA1	PY	-0.004	-0.004	0	0
35	MP GAMMA3	PY	-0.004	-0.004	0	0
36	RAIL3	PY	-0.002	-0.002	0	0
37	FACE2	PY	-0.003	-0.003	0	0
38	MP BETA1	PY	-0.004	-0.004	0	0
39	MP BETA3	PY	-0.004	-0.004	0	0
40	RAIL2	PY	-0.002	-0.002	0	0
41	MP BETA2	PY	-0.004	-0.004	0	0
42	MP GAMMA2	PY	-0.004	-0.004	0	0
43	SO1	PX	-0.005	-0.005	0	0
44	GRAT SUP	PX	-0.004	-0.004	0	0



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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
45	GRAT SUP2	PX	-0.004	-0.004	0	0
46	PL1	PX	-0.014	-0.014	0	0
47	SO2	PX	-0.005	-0.005	0	0
48	GRAT SUP3	PX	-0.004	-0.004	0	0
49	GRAT SUP4	PX	-0.004	-0.004	0	0
50	PL2	PX	-0.014	-0.014	0	0
51	SO3	PX	-0.005	-0.005	0	0
52	GRAT SUP5	PX	-0.004	-0.004	0	0
53	GRAT SUP6	PX	-0.004	-0.004	0	0
54	PL3	PX	-0.014	-0.014	0	0
55	FACE1	PX	-0.003	-0.003	0	0
56	MP ALPHA1	PX	-0.006	-0.006	0	0
57	MP ALPHA3	PX	-0.006	-0.006	0	0
58	RAIL1	PX	-0.002	-0.002	0	0
59	RAIL CON3	PX	-0.014	-0.014	0	0
60	RAIL CON1	PX	-0.014	-0.014	0	0
61	RAIL CON2	PX	-0.014	-0.014	0	0
62	CR1	PX	-0.007	-0.007	0	0
63	CR2	PX	-0.007	-0.007	0	0
64	CR3	PX	-0.007	-0.007	0	0
65	CR4	PX	-0.007	-0.007	0	0
66	CR5	PX	-0.007	-0.007	0	0
67	CR6	PX	-0.007	-0.007	0	0
68	PL4	PX	-0.005	-0.005	0	0
69	PL5	PX	-0.005	-0.005	0	0
70	PL6	PX	-0.005	-0.005	0	0
71	PL7	PX	-0.005	-0.005	0	0
72	PL8	PX	-0.005	-0.005	0	0
73	PL9	PX	-0.005	-0.005	0	0
74	MP ALPHA2	PX	-0.006	-0.006	0	0
75	FACE3	PX	-0.005	-0.005	0	0
76	MP GAMMA1	PX	-0.006	-0.006	0	0
77	MP GAMMA3	PX	-0.006	-0.006	0	0
78	RAIL3	PX	-0.004	-0.004	0	0
79	FACE2	PX	-0.005	-0.005	0	0
80	MP BETA1	PX	-0.006	-0.006	0	0
81	MP BETA3	PX	-0.006	-0.006	0	0
82	RAIL2	PX	-0.004	-0.004	0	0
83	MP BETA2	PX	-0.006	-0.006	0	0
84	MP GAMMA2	PX	-0.006	-0.006	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
1	SO1	PX	-0.006	-0.006	0	0
2	GRAT SUP	PX	-0.005	-0.005	0	0
3	GRAT SUP2	PX	-0.005	-0.005	0	0
4	PL1	PX	-0.016	-0.016	0	0
5	SO2	PX	-0.006	-0.006	0	0
6	GRAT SUP3	PX	-0.005	-0.005	0	0
7	GRAT SUP4	PX	-0.005	-0.005	0	0
8	PL2	PX	-0.016	-0.016	0	0
9	SO3	PX	-0.006	-0.006	0	0
10	GRAT SUP5	PX	-0.005	-0.005	0	0
11	GRAT SUP6	PX	-0.005	-0.005	0	0
12	PL3	PX	-0.016	-0.016	0	0
13	FACE2	PX	-0.003	-0.003	0	0



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Member Distributed Loads (BLC 6 : Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
14	MP ALPHA1	PX	-.007	-.007	0	0
15	MP ALPHA3	PX	-.007	-.007	0	0
16	RAIL2	PX	-.002	-.002	0	0
17	RAIL CON3	PX	-.016	-.016	0	0
18	RAIL CON1	PX	-.016	-.016	0	0
19	RAIL CON2	PX	-.016	-.016	0	0
20	CR1	PX	-.008	-.008	0	0
21	CR2	PX	-.008	-.008	0	0
22	CR3	PX	-.008	-.008	0	0
23	CR4	PX	-.008	-.008	0	0
24	CR5	PX	-.008	-.008	0	0
25	CR6	PX	-.008	-.008	0	0
26	PL4	PX	-.006	-.006	0	0
27	PL5	PX	-.006	-.006	0	0
28	PL6	PX	-.006	-.006	0	0
29	PL7	PX	-.006	-.006	0	0
30	PL8	PX	-.006	-.006	0	0
31	PL9	PX	-.006	-.006	0	0
32	MP ALPHA2	PX	-.007	-.007	0	0
33	FACE3	PX	-.006	-.006	0	0
34	MP GAMMA1	PX	-.007	-.007	0	0
35	MP GAMMA3	PX	-.007	-.007	0	0
36	RAIL3	PX	-.004	-.004	0	0
37	FACE1	PX	-.006	-.006	0	0
38	MP BETA1	PX	-.007	-.007	0	0
39	MP BETA3	PX	-.007	-.007	0	0
40	RAIL1	PX	-.004	-.004	0	0
41	MP BETA2	PX	-.007	-.007	0	0
42	MP GAMMA2	PX	-.007	-.007	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	.003	.003	0	0
2	GRAT SUP	PY	.002	.002	0	0
3	GRAT SUP2	PY	.002	.002	0	0
4	PL1	PY	.008	.008	0	0
5	SO2	PY	.003	.003	0	0
6	GRAT SUP3	PY	.002	.002	0	0
7	GRAT SUP4	PY	.002	.002	0	0
8	PL2	PY	.008	.008	0	0
9	SO3	PY	.003	.003	0	0
10	GRAT SUP5	PY	.002	.002	0	0
11	GRAT SUP6	PY	.002	.002	0	0
12	PL3	PY	.008	.008	0	0
13	FACE2	PY	.001	.001	0	0
14	MP ALPHA1	PY	.004	.004	0	0
15	MP ALPHA3	PY	.004	.004	0	0
16	RAIL2	PY	.001	.001	0	0
17	RAIL CON3	PY	.008	.008	0	0
18	RAIL CON1	PY	.008	.008	0	0
19	RAIL CON2	PY	.008	.008	0	0
20	CR1	PY	.004	.004	0	0
21	CR2	PY	.004	.004	0	0
22	CR3	PY	.004	.004	0	0
23	CR4	PY	.004	.004	0	0
24	CR5	PY	.004	.004	0	0



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Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
25	CR6	PY	.004	.004	0	0
26	PL4	PY	.003	.003	0	0
27	PL5	PY	.003	.003	0	0
28	PL6	PY	.003	.003	0	0
29	PL7	PY	.003	.003	0	0
30	PL8	PY	.003	.003	0	0
31	PL9	PY	.003	.003	0	0
32	MP ALPHA2	PY	.004	.004	0	0
33	FACE3	PY	.003	.003	0	0
34	MP GAMMA1	PY	.004	.004	0	0
35	MP GAMMA3	PY	.004	.004	0	0
36	RAIL3	PY	.002	.002	0	0
37	FACE1	PY	.003	.003	0	0
38	MP BETA1	PY	.004	.004	0	0
39	MP BETA3	PY	.004	.004	0	0
40	RAIL1	PY	.002	.002	0	0
41	MP BETA2	PY	.004	.004	0	0
42	MP GAMMA2	PY	.004	.004	0	0
43	SO1	PX	-.005	-.005	0	0
44	GRAT SUP	PX	-.004	-.004	0	0
45	GRAT SUP2	PX	-.004	-.004	0	0
46	PL1	PX	-.014	-.014	0	0
47	SO2	PX	-.005	-.005	0	0
48	GRAT SUP3	PX	-.004	-.004	0	0
49	GRAT SUP4	PX	-.004	-.004	0	0
50	PL2	PX	-.014	-.014	0	0
51	SO3	PX	-.005	-.005	0	0
52	GRAT SUP5	PX	-.004	-.004	0	0
53	GRAT SUP6	PX	-.004	-.004	0	0
54	PL3	PX	-.014	-.014	0	0
55	FACE2	PX	-.003	-.003	0	0
56	MP ALPHA1	PX	-.006	-.006	0	0
57	MP ALPHA3	PX	-.006	-.006	0	0
58	RAIL2	PX	-.002	-.002	0	0
59	RAIL CON3	PX	-.014	-.014	0	0
60	RAIL CON1	PX	-.014	-.014	0	0
61	RAIL CON2	PX	-.014	-.014	0	0
62	CR1	PX	-.007	-.007	0	0
63	CR2	PX	-.007	-.007	0	0
64	CR3	PX	-.007	-.007	0	0
65	CR4	PX	-.007	-.007	0	0
66	CR5	PX	-.007	-.007	0	0
67	CR6	PX	-.007	-.007	0	0
68	PL4	PX	-.005	-.005	0	0
69	PL5	PX	-.005	-.005	0	0
70	PL6	PX	-.005	-.005	0	0
71	PL7	PX	-.005	-.005	0	0
72	PL8	PX	-.005	-.005	0	0
73	PL9	PX	-.005	-.005	0	0
74	MP ALPHA2	PX	-.006	-.006	0	0
75	FACE3	PX	-.005	-.005	0	0
76	MP GAMMA1	PX	-.006	-.006	0	0
77	MP GAMMA3	PX	-.006	-.006	0	0
78	RAIL3	PX	-.004	-.004	0	0
79	FACE1	PX	-.005	-.005	0	0
80	MP BETA1	PX	-.006	-.006	0	0
81	MP BETA3	PX	-.006	-.006	0	0



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Member Distributed Loads (BLC 7 : Wind Load (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
82	RAIL1	PX	-.004	-.004	0	0
83	MP BETA2	PX	-.006	-.006	0	0
84	MP GAMMA2	PX	-.006	-.006	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.005	.005	0	0
2	GRAT SUP	PY	.004	.004	0	0
3	GRAT SUP2	PY	.004	.004	0	0
4	PL1	PY	.014	.014	0	0
5	SO2	PY	.005	.005	0	0
6	GRAT SUP3	PY	.004	.004	0	0
7	GRAT SUP4	PY	.004	.004	0	0
8	PL2	PY	.014	.014	0	0
9	SO3	PY	.005	.005	0	0
10	GRAT SUP5	PY	.004	.004	0	0
11	GRAT SUP6	PY	.004	.004	0	0
12	PL3	PY	.014	.014	0	0
13	FACE2	PY	.003	.003	0	0
14	MP ALPHA1	PY	.006	.006	0	0
15	MP ALPHA3	PY	.006	.006	0	0
16	RAIL2	PY	.002	.002	0	0
17	RAIL CON3	PY	.014	.014	0	0
18	RAIL CON1	PY	.014	.014	0	0
19	RAIL CON2	PY	.014	.014	0	0
20	CR1	PY	.007	.007	0	0
21	CR2	PY	.007	.007	0	0
22	CR3	PY	.007	.007	0	0
23	CR4	PY	.007	.007	0	0
24	CR5	PY	.007	.007	0	0
25	CR6	PY	.007	.007	0	0
26	PL4	PY	.005	.005	0	0
27	PL5	PY	.005	.005	0	0
28	PL6	PY	.005	.005	0	0
29	PL7	PY	.005	.005	0	0
30	PL8	PY	.005	.005	0	0
31	PL9	PY	.005	.005	0	0
32	MP ALPHA2	PY	.006	.006	0	0
33	FACE3	PY	.005	.005	0	0
34	MP GAMMA1	PY	.006	.006	0	0
35	MP GAMMA3	PY	.006	.006	0	0
36	RAIL3	PY	.004	.004	0	0
37	FACE1	PY	.005	.005	0	0
38	MP BETA1	PY	.006	.006	0	0
39	MP BETA3	PY	.006	.006	0	0
40	RAIL1	PY	.004	.004	0	0
41	MP BETA2	PY	.006	.006	0	0
42	MP GAMMA2	PY	.006	.006	0	0
43	SO1	PX	-.003	-.003	0	0
44	GRAT SUP	PX	-.002	-.002	0	0
45	GRAT SUP2	PX	-.002	-.002	0	0
46	PL1	PX	-.008	-.008	0	0
47	SO2	PX	-.003	-.003	0	0
48	GRAT SUP3	PX	-.002	-.002	0	0
49	GRAT SUP4	PX	-.002	-.002	0	0
50	PL2	PX	-.008	-.008	0	0

Member Distributed Loads (BLC 8 : Wind Load (150)) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
51	SO3	PX	-0.003	-0.003	0	0
52	GRAT SUP5	PX	-0.002	-0.002	0	0
53	GRAT SUP6	PX	-0.002	-0.002	0	0
54	PL3	PX	-0.008	-0.008	0	0
55	FACE2	PX	-0.001	-0.001	0	0
56	MP ALPHA1	PX	-0.004	-0.004	0	0
57	MP ALPHA3	PX	-0.004	-0.004	0	0
58	RAIL2	PX	-0.001	-0.001	0	0
59	RAIL CON3	PX	-0.008	-0.008	0	0
60	RAIL CON1	PX	-0.008	-0.008	0	0
61	RAIL CON2	PX	-0.008	-0.008	0	0
62	CR1	PX	-0.004	-0.004	0	0
63	CR2	PX	-0.004	-0.004	0	0
64	CR3	PX	-0.004	-0.004	0	0
65	CR4	PX	-0.004	-0.004	0	0
66	CR5	PX	-0.004	-0.004	0	0
67	CR6	PX	-0.004	-0.004	0	0
68	PL4	PX	-0.003	-0.003	0	0
69	PL5	PX	-0.003	-0.003	0	0
70	PL6	PX	-0.003	-0.003	0	0
71	PL7	PX	-0.003	-0.003	0	0
72	PL8	PX	-0.003	-0.003	0	0
73	PL9	PX	-0.003	-0.003	0	0
74	MP ALPHA2	PX	-0.004	-0.004	0	0
75	FACE3	PX	-0.003	-0.003	0	0
76	MP GAMMA1	PX	-0.004	-0.004	0	0
77	MP GAMMA3	PX	-0.004	-0.004	0	0
78	RAIL3	PX	-0.002	-0.002	0	0
79	FACE1	PX	-0.003	-0.003	0	0
80	MP BETA1	PX	-0.004	-0.004	0	0
81	MP BETA3	PX	-0.004	-0.004	0	0
82	RAIL1	PX	-0.002	-0.002	0	0
83	MP BETA2	PX	-0.004	-0.004	0	0
84	MP GAMMA2	PX	-0.004	-0.004	0	0

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

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
1	SO1	PY	.006	.006	0	0
2	GRAT SUP	PY	.005	.005	0	0
3	GRAT SUP2	PY	.005	.005	0	0
4	PL1	PY	.016	.016	0	0
5	SO2	PY	.006	.006	0	0
6	GRAT SUP3	PY	.005	.005	0	0
7	GRAT SUP4	PY	.005	.005	0	0
8	PL2	PY	.016	.016	0	0
9	SO3	PY	.006	.006	0	0
10	GRAT SUP5	PY	.005	.005	0	0
11	GRAT SUP6	PY	.005	.005	0	0
12	PL3	PY	.016	.016	0	0
13	FACE2	PY	.003	.003	0	0
14	MP ALPHA1	PY	.007	.007	0	0
15	MP ALPHA3	PY	.007	.007	0	0
16	RAIL2	PY	.002	.002	0	0
17	RAIL CON3	PY	.016	.016	0	0
18	RAIL CON1	PY	.016	.016	0	0
19	RAIL CON2	PY	.016	.016	0	0



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Member Distributed Loads (BLC 9 : Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
20	CR1	PY	.008	.008	0	0
21	CR2	PY	.008	.008	0	0
22	CR3	PY	.008	.008	0	0
23	CR4	PY	.008	.008	0	0
24	CR5	PY	.008	.008	0	0
25	CR6	PY	.008	.008	0	0
26	PL4	PY	.006	.006	0	0
27	PL5	PY	.006	.006	0	0
28	PL6	PY	.006	.006	0	0
29	PL7	PY	.006	.006	0	0
30	PL8	PY	.006	.006	0	0
31	PL9	PY	.006	.006	0	0
32	MP ALPHA2	PY	.007	.007	0	0
33	FACE3	PY	.006	.006	0	0
34	MP GAMMA1	PY	.007	.007	0	0
35	MP GAMMA3	PY	.007	.007	0	0
36	RAIL3	PY	.004	.004	0	0
37	FACE1	PY	.006	.006	0	0
38	MP BETA1	PY	.007	.007	0	0
39	MP BETA3	PY	.007	.007	0	0
40	RAIL1	PY	.004	.004	0	0
41	MP BETA2	PY	.007	.007	0	0
42	MP GAMMA2	PY	.007	.007	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.005	.005	0	0
2	GRAT SUP	PY	.004	.004	0	0
3	GRAT SUP2	PY	.004	.004	0	0
4	PL1	PY	.014	.014	0	0
5	SO2	PY	.005	.005	0	0
6	GRAT SUP3	PY	.004	.004	0	0
7	GRAT SUP4	PY	.004	.004	0	0
8	PL2	PY	.014	.014	0	0
9	SO3	PY	.005	.005	0	0
10	GRAT SUP5	PY	.004	.004	0	0
11	GRAT SUP6	PY	.004	.004	0	0
12	PL3	PY	.014	.014	0	0
13	FACE3	PY	.003	.003	0	0
14	MP ALPHA1	PY	.006	.006	0	0
15	MP ALPHA3	PY	.006	.006	0	0
16	RAIL3	PY	.002	.002	0	0
17	RAIL CON3	PY	.014	.014	0	0
18	RAIL CON1	PY	.014	.014	0	0
19	RAIL CON2	PY	.014	.014	0	0
20	CR1	PY	.007	.007	0	0
21	CR2	PY	.007	.007	0	0
22	CR3	PY	.007	.007	0	0
23	CR4	PY	.007	.007	0	0
24	CR5	PY	.007	.007	0	0
25	CR6	PY	.007	.007	0	0
26	PL4	PY	.005	.005	0	0
27	PL5	PY	.005	.005	0	0
28	PL6	PY	.005	.005	0	0
29	PL7	PY	.005	.005	0	0
30	PL8	PY	.005	.005	0	0



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

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
31	PL9	PY	.005	.005	0	0
32	MP ALPHA2	PY	.006	.006	0	0
33	FACE1	PY	.005	.005	0	0
34	MP GAMMA1	PY	.006	.006	0	0
35	MP GAMMA3	PY	.006	.006	0	0
36	RAIL1	PY	.004	.004	0	0
37	FACE2	PY	.005	.005	0	0
38	MP BETA1	PY	.006	.006	0	0
39	MP BETA3	PY	.006	.006	0	0
40	RAIL2	PY	.004	.004	0	0
41	MP BETA2	PY	.006	.006	0	0
42	MP GAMMA2	PY	.006	.006	0	0
43	SO1	PX	.003	.003	0	0
44	GRAT SUP	PX	.002	.002	0	0
45	GRAT SUP2	PX	.002	.002	0	0
46	PL1	PX	.008	.008	0	0
47	SO2	PX	.003	.003	0	0
48	GRAT SUP3	PX	.002	.002	0	0
49	GRAT SUP4	PX	.002	.002	0	0
50	PL2	PX	.008	.008	0	0
51	SO3	PX	.003	.003	0	0
52	GRAT SUP5	PX	.002	.002	0	0
53	GRAT SUP6	PX	.002	.002	0	0
54	PL3	PX	.008	.008	0	0
55	FACE3	PX	.001	.001	0	0
56	MP ALPHA1	PX	.004	.004	0	0
57	MP ALPHA3	PX	.004	.004	0	0
58	RAIL3	PX	.001	.001	0	0
59	RAIL CON3	PX	.008	.008	0	0
60	RAIL CON1	PX	.008	.008	0	0
61	RAIL CON2	PX	.008	.008	0	0
62	CR1	PX	.004	.004	0	0
63	CR2	PX	.004	.004	0	0
64	CR3	PX	.004	.004	0	0
65	CR4	PX	.004	.004	0	0
66	CR5	PX	.004	.004	0	0
67	CR6	PX	.004	.004	0	0
68	PL4	PX	.003	.003	0	0
69	PL5	PX	.003	.003	0	0
70	PL6	PX	.003	.003	0	0
71	PL7	PX	.003	.003	0	0
72	PL8	PX	.003	.003	0	0
73	PL9	PX	.003	.003	0	0
74	MP ALPHA2	PX	.004	.004	0	0
75	FACE1	PX	.003	.003	0	0
76	MP GAMMA1	PX	.004	.004	0	0
77	MP GAMMA3	PX	.004	.004	0	0
78	RAIL1	PX	.002	.002	0	0
79	FACE2	PX	.003	.003	0	0
80	MP BETA1	PX	.004	.004	0	0
81	MP BETA3	PX	.004	.004	0	0
82	RAIL2	PX	.002	.002	0	0
83	MP BETA2	PX	.004	.004	0	0
84	MP GAMMA2	PX	.004	.004	0	0

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

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]	
1	SO1	PY	.003	.003	0	0
2	GRAT SUP	PY	.002	.002	0	0
3	GRAT SUP2	PY	.002	.002	0	0
4	PL1	PY	.008	.008	0	0
5	SO2	PY	.003	.003	0	0
6	GRAT SUP3	PY	.002	.002	0	0
7	GRAT SUP4	PY	.002	.002	0	0
8	PL2	PY	.008	.008	0	0
9	SO3	PY	.003	.003	0	0
10	GRAT SUP5	PY	.002	.002	0	0
11	GRAT SUP6	PY	.002	.002	0	0
12	PL3	PY	.008	.008	0	0
13	FACE3	PY	.001	.001	0	0
14	MP ALPHA1	PY	.004	.004	0	0
15	MP ALPHA3	PY	.004	.004	0	0
16	RAIL3	PY	.001	.001	0	0
17	RAIL CON3	PY	.008	.008	0	0
18	RAIL CON1	PY	.008	.008	0	0
19	RAIL CON2	PY	.008	.008	0	0
20	CR1	PY	.004	.004	0	0
21	CR2	PY	.004	.004	0	0
22	CR3	PY	.004	.004	0	0
23	CR4	PY	.004	.004	0	0
24	CR5	PY	.004	.004	0	0
25	CR6	PY	.004	.004	0	0
26	PL4	PY	.003	.003	0	0
27	PL5	PY	.003	.003	0	0
28	PL6	PY	.003	.003	0	0
29	PL7	PY	.003	.003	0	0
30	PL8	PY	.003	.003	0	0
31	PL9	PY	.003	.003	0	0
32	MP ALPHA2	PY	.004	.004	0	0
33	FACE1	PY	.003	.003	0	0
34	MP GAMMA1	PY	.004	.004	0	0
35	MP GAMMA3	PY	.004	.004	0	0
36	RAIL1	PY	.002	.002	0	0
37	FACE2	PY	.003	.003	0	0
38	MP BETA1	PY	.004	.004	0	0
39	MP BETA3	PY	.004	.004	0	0
40	RAIL2	PY	.002	.002	0	0
41	MP BETA2	PY	.004	.004	0	0
42	MP GAMMA2	PY	.004	.004	0	0
43	SO1	PX	.005	.005	0	0
44	GRAT SUP	PX	.004	.004	0	0
45	GRAT SUP2	PX	.004	.004	0	0
46	PL1	PX	.014	.014	0	0
47	SO2	PX	.005	.005	0	0
48	GRAT SUP3	PX	.004	.004	0	0
49	GRAT SUP4	PX	.004	.004	0	0
50	PL2	PX	.014	.014	0	0
51	SO3	PX	.005	.005	0	0
52	GRAT SUP5	PX	.004	.004	0	0
53	GRAT SUP6	PX	.004	.004	0	0
54	PL3	PX	.014	.014	0	0
55	FACE3	PX	.003	.003	0	0
56	MP ALPHA1	PX	.006	.006	0	0
57	MP ALPHA3	PX	.006	.006	0	0



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Member Distributed Loads (BLC 11 : Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
58	RAIL3	PX	.002	.002	0	0
59	RAIL CON3	PX	.014	.014	0	0
60	RAIL CON1	PX	.014	.014	0	0
61	RAIL CON2	PX	.014	.014	0	0
62	CR1	PX	.007	.007	0	0
63	CR2	PX	.007	.007	0	0
64	CR3	PX	.007	.007	0	0
65	CR4	PX	.007	.007	0	0
66	CR5	PX	.007	.007	0	0
67	CR6	PX	.007	.007	0	0
68	PL4	PX	.005	.005	0	0
69	PL5	PX	.005	.005	0	0
70	PL6	PX	.005	.005	0	0
71	PL7	PX	.005	.005	0	0
72	PL8	PX	.005	.005	0	0
73	PL9	PX	.005	.005	0	0
74	MP ALPHA2	PX	.006	.006	0	0
75	FACE1	PX	.005	.005	0	0
76	MP GAMMA1	PX	.006	.006	0	0
77	MP GAMMA3	PX	.006	.006	0	0
78	RAIL1	PX	.004	.004	0	0
79	FACE2	PX	.005	.005	0	0
80	MP BETA1	PX	.006	.006	0	0
81	MP BETA3	PX	.006	.006	0	0
82	RAIL2	PX	.004	.004	0	0
83	MP BETA2	PX	.006	.006	0	0
84	MP GAMMA2	PX	.006	.006	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PX	.006	.006	0	0
2	GRAT SUP	PX	.005	.005	0	0
3	GRAT SUP2	PX	.005	.005	0	0
4	PL1	PX	.016	.016	0	0
5	SO2	PX	.006	.006	0	0
6	GRAT SUP3	PX	.005	.005	0	0
7	GRAT SUP4	PX	.005	.005	0	0
8	PL2	PX	.016	.016	0	0
9	SO3	PX	.006	.006	0	0
10	GRAT SUP5	PX	.005	.005	0	0
11	GRAT SUP6	PX	.005	.005	0	0
12	PL3	PX	.016	.016	0	0
13	FACE3	PX	.003	.003	0	0
14	MP ALPHA1	PX	.007	.007	0	0
15	MP ALPHA3	PX	.007	.007	0	0
16	RAIL3	PX	.002	.002	0	0
17	RAIL CON3	PX	.016	.016	0	0
18	RAIL CON1	PX	.016	.016	0	0
19	RAIL CON2	PX	.016	.016	0	0
20	CR1	PX	.008	.008	0	0
21	CR2	PX	.008	.008	0	0
22	CR3	PX	.008	.008	0	0
23	CR4	PX	.008	.008	0	0
24	CR5	PX	.008	.008	0	0
25	CR6	PX	.008	.008	0	0
26	PL4	PX	.006	.006	0	0



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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
27	PL5	PX	.006	.006	0	0
28	PL6	PX	.006	.006	0	0
29	PL7	PX	.006	.006	0	0
30	PL8	PX	.006	.006	0	0
31	PL9	PX	.006	.006	0	0
32	MP ALPHA2	PX	.007	.007	0	0
33	FACE1	PX	.006	.006	0	0
34	MP GAMMA1	PX	.007	.007	0	0
35	MP GAMMA3	PX	.007	.007	0	0
36	RAIL1	PX	.004	.004	0	0
37	FACE2	PX	.006	.006	0	0
38	MP BETA1	PX	.007	.007	0	0
39	MP BETA3	PX	.007	.007	0	0
40	RAIL2	PX	.004	.004	0	0
41	MP BETA2	PX	.007	.007	0	0
42	MP GAMMA2	PX	.007	.007	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	-.003	-.003	0	0
2	GRAT SUP	PY	-.002	-.002	0	0
3	GRAT SUP2	PY	-.002	-.002	0	0
4	PL1	PY	-.008	-.008	0	0
5	SO2	PY	-.003	-.003	0	0
6	GRAT SUP3	PY	-.002	-.002	0	0
7	GRAT SUP4	PY	-.002	-.002	0	0
8	PL2	PY	-.008	-.008	0	0
9	SO3	PY	-.003	-.003	0	0
10	GRAT SUP5	PY	-.002	-.002	0	0
11	GRAT SUP6	PY	-.002	-.002	0	0
12	PL3	PY	-.008	-.008	0	0
13	FACE3	PY	-.001	-.001	0	0
14	MP ALPHA1	PY	-.004	-.004	0	0
15	MP ALPHA3	PY	-.004	-.004	0	0
16	RAIL3	PY	-.001	-.001	0	0
17	RAIL CON3	PY	-.008	-.008	0	0
18	RAIL CON1	PY	-.008	-.008	0	0
19	RAIL CON2	PY	-.008	-.008	0	0
20	CR1	PY	-.004	-.004	0	0
21	CR2	PY	-.004	-.004	0	0
22	CR3	PY	-.004	-.004	0	0
23	CR4	PY	-.004	-.004	0	0
24	CR5	PY	-.004	-.004	0	0
25	CR6	PY	-.004	-.004	0	0
26	PL4	PY	-.003	-.003	0	0
27	PL5	PY	-.003	-.003	0	0
28	PL6	PY	-.003	-.003	0	0
29	PL7	PY	-.003	-.003	0	0
30	PL8	PY	-.003	-.003	0	0
31	PL9	PY	-.003	-.003	0	0
32	MP ALPHA2	PY	-.004	-.004	0	0
33	FACE1	PY	-.003	-.003	0	0
34	MP GAMMA1	PY	-.004	-.004	0	0
35	MP GAMMA3	PY	-.004	-.004	0	0
36	RAIL1	PY	-.002	-.002	0	0
37	FACE2	PY	-.003	-.003	0	0



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Member Distributed Loads (BLC 13 : Wind Load (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
38	MP BETA1	PY	-.004	-.004	0	0
39	MP BETA3	PY	-.004	-.004	0	0
40	RAIL2	PY	-.002	-.002	0	0
41	MP BETA2	PY	-.004	-.004	0	0
42	MP GAMMA2	PY	-.004	-.004	0	0
43	SO1	PX	.005	.005	0	0
44	GRAT SUP	PX	.004	.004	0	0
45	GRAT SUP2	PX	.004	.004	0	0
46	PL1	PX	.014	.014	0	0
47	SO2	PX	.005	.005	0	0
48	GRAT SUP3	PX	.004	.004	0	0
49	GRAT SUP4	PX	.004	.004	0	0
50	PL2	PX	.014	.014	0	0
51	SO3	PX	.005	.005	0	0
52	GRAT SUP5	PX	.004	.004	0	0
53	GRAT SUP6	PX	.004	.004	0	0
54	PL3	PX	.014	.014	0	0
55	FACE3	PX	.003	.003	0	0
56	MP ALPHA1	PX	.006	.006	0	0
57	MP ALPHA3	PX	.006	.006	0	0
58	RAIL3	PX	.002	.002	0	0
59	RAIL CON3	PX	.014	.014	0	0
60	RAIL CON1	PX	.014	.014	0	0
61	RAIL CON2	PX	.014	.014	0	0
62	CR1	PX	.007	.007	0	0
63	CR2	PX	.007	.007	0	0
64	CR3	PX	.007	.007	0	0
65	CR4	PX	.007	.007	0	0
66	CR5	PX	.007	.007	0	0
67	CR6	PX	.007	.007	0	0
68	PL4	PX	.005	.005	0	0
69	PL5	PX	.005	.005	0	0
70	PL6	PX	.005	.005	0	0
71	PL7	PX	.005	.005	0	0
72	PL8	PX	.005	.005	0	0
73	PL9	PX	.005	.005	0	0
74	MP ALPHA2	PX	.006	.006	0	0
75	FACE1	PX	.005	.005	0	0
76	MP GAMMA1	PX	.006	.006	0	0
77	MP GAMMA3	PX	.006	.006	0	0
78	RAIL1	PX	.004	.004	0	0
79	FACE2	PX	.005	.005	0	0
80	MP BETA1	PX	.006	.006	0	0
81	MP BETA3	PX	.006	.006	0	0
82	RAIL2	PX	.004	.004	0	0
83	MP BETA2	PX	.006	.006	0	0
84	MP GAMMA2	PX	.006	.006	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-.005	-.005	0	0
2	GRAT SUP	PY	-.004	-.004	0	0
3	GRAT SUP2	PY	-.004	-.004	0	0
4	PL1	PY	-.014	-.014	0	0
5	SO2	PY	-.005	-.005	0	0
6	GRAT SUP3	PY	-.004	-.004	0	0



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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
7	GRAT SUP4	PY	-0.04	-0.04	0	0
8	PL2	PY	-0.014	-0.014	0	0
9	SO3	PY	-0.005	-0.005	0	0
10	GRAT SUP5	PY	-0.04	-0.04	0	0
11	GRAT SUP6	PY	-0.04	-0.04	0	0
12	PL3	PY	-0.014	-0.014	0	0
13	FACE1	PY	-0.003	-0.003	0	0
14	MP ALPHA1	PY	-0.006	-0.006	0	0
15	MP ALPHA3	PY	-0.006	-0.006	0	0
16	RAIL1	PY	-0.002	-0.002	0	0
17	RAIL CON3	PY	-0.014	-0.014	0	0
18	RAIL CON1	PY	-0.014	-0.014	0	0
19	RAIL CON2	PY	-0.014	-0.014	0	0
20	CR1	PY	-0.007	-0.007	0	0
21	CR2	PY	-0.007	-0.007	0	0
22	CR3	PY	-0.007	-0.007	0	0
23	CR4	PY	-0.007	-0.007	0	0
24	CR5	PY	-0.007	-0.007	0	0
25	CR6	PY	-0.007	-0.007	0	0
26	PL4	PY	-0.005	-0.005	0	0
27	PL5	PY	-0.005	-0.005	0	0
28	PL6	PY	-0.005	-0.005	0	0
29	PL7	PY	-0.005	-0.005	0	0
30	PL8	PY	-0.005	-0.005	0	0
31	PL9	PY	-0.005	-0.005	0	0
32	MP ALPHA2	PY	-0.006	-0.006	0	0
33	FACE3	PY	-0.005	-0.005	0	0
34	MP GAMMA1	PY	-0.006	-0.006	0	0
35	MP GAMMA3	PY	-0.006	-0.006	0	0
36	RAIL3	PY	-0.004	-0.004	0	0
37	FACE2	PY	-0.005	-0.005	0	0
38	MP BETA1	PY	-0.006	-0.006	0	0
39	MP BETA3	PY	-0.006	-0.006	0	0
40	RAIL2	PY	-0.004	-0.004	0	0
41	MP BETA2	PY	-0.006	-0.006	0	0
42	MP GAMMA2	PY	-0.006	-0.006	0	0
43	SO1	PX	.003	.003	0	0
44	GRAT SUP	PX	.002	.002	0	0
45	GRAT SUP2	PX	.002	.002	0	0
46	PL1	PX	.008	.008	0	0
47	SO2	PX	.003	.003	0	0
48	GRAT SUP3	PX	.002	.002	0	0
49	GRAT SUP4	PX	.002	.002	0	0
50	PL2	PX	.008	.008	0	0
51	SO3	PX	.003	.003	0	0
52	GRAT SUP5	PX	.002	.002	0	0
53	GRAT SUP6	PX	.002	.002	0	0
54	PL3	PX	.008	.008	0	0
55	FACE1	PX	.001	.001	0	0
56	MP ALPHA1	PX	.004	.004	0	0
57	MP ALPHA3	PX	.004	.004	0	0
58	RAIL1	PX	.001	.001	0	0
59	RAIL CON3	PX	.008	.008	0	0
60	RAIL CON1	PX	.008	.008	0	0
61	RAIL CON2	PX	.008	.008	0	0
62	CR1	PX	.004	.004	0	0
63	CR2	PX	.004	.004	0	0



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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
64	CR3	PX	.004	.004	0	0
65	CR4	PX	.004	.004	0	0
66	CR5	PX	.004	.004	0	0
67	CR6	PX	.004	.004	0	0
68	PL4	PX	.003	.003	0	0
69	PL5	PX	.003	.003	0	0
70	PL6	PX	.003	.003	0	0
71	PL7	PX	.003	.003	0	0
72	PL8	PX	.003	.003	0	0
73	PL9	PX	.003	.003	0	0
74	MP ALPHA2	PX	.004	.004	0	0
75	FACE3	PX	.003	.003	0	0
76	MP GAMMA1	PX	.004	.004	0	0
77	MP GAMMA3	PX	.004	.004	0	0
78	RAIL3	PX	.002	.002	0	0
79	FACE2	PX	.003	.003	0	0
80	MP BETA1	PX	.004	.004	0	0
81	MP BETA3	PX	.004	.004	0	0
82	RAIL2	PX	.002	.002	0	0
83	MP BETA2	PX	.004	.004	0	0
84	MP GAMMA2	PX	.004	.004	0	0

Member Distributed Loads (BLC 15 : Maintenance (0))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	-.000412	-.000412	0	0
2	GRAT SUP	PY	-.000329	-.000329	0	0
3	GRAT SUP2	PY	-.000329	-.000329	0	0
4	PL1	PY	-.001	-.001	0	0
5	SO2	PY	-.000412	-.000412	0	0
6	GRAT SUP3	PY	-.000329	-.000329	0	0
7	GRAT SUP4	PY	-.000329	-.000329	0	0
8	PL2	PY	-.001	-.001	0	0
9	SO3	PY	-.000412	-.000412	0	0
10	GRAT SUP5	PY	-.000329	-.000329	0	0
11	GRAT SUP6	PY	-.000329	-.000329	0	0
12	PL3	PY	-.001	-.001	0	0
13	FACE1	PY	-.000198	-.000198	0	0
14	MP ALPHA1	PY	-.000469	-.000469	0	0
15	MP ALPHA3	PY	-.000469	-.000469	0	0
16	RAIL1	PY	-.000138	-.000138	0	0
17	RAIL CON3	PY	-.001	-.001	0	0
18	RAIL CON1	PY	-.001	-.001	0	0
19	RAIL CON2	PY	-.001	-.001	0	0
20	CR1	PY	-.000557	-.000557	0	0
21	CR2	PY	-.000557	-.000557	0	0
22	CR3	PY	-.000557	-.000557	0	0
23	CR4	PY	-.000557	-.000557	0	0
24	CR5	PY	-.000557	-.000557	0	0
25	CR6	PY	-.000557	-.000557	0	0
26	PL4	PY	-.000391	-.000391	0	0
27	PL5	PY	-.000391	-.000391	0	0
28	PL6	PY	-.000391	-.000391	0	0
29	PL7	PY	-.000391	-.000391	0	0
30	PL8	PY	-.000391	-.000391	0	0
31	PL9	PY	-.000391	-.000391	0	0
32	MP ALPHA2	PY	-.000469	-.000469	0	0



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Member Distributed Loads (BLC 15 : Maintenance (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
33	FACE3	PY	-0.00395	-0.00395	0	0
34	MP GAMMA1	PY	-0.00469	-0.00469	0	0
35	MP GAMMA3	PY	-0.00469	-0.00469	0	0
36	RAIL3	PY	-0.00276	-0.00276	0	0
37	FACE2	PY	-0.00395	-0.00395	0	0
38	MP BETA1	PY	-0.00469	-0.00469	0	0
39	MP BETA3	PY	-0.00469	-0.00469	0	0
40	RAIL2	PY	-0.00276	-0.00276	0	0
41	MP BETA2	PY	-0.00469	-0.00469	0	0
42	MP GAMMA2	PY	-0.00469	-0.00469	0	0

Member Distributed Loads (BLC 16 : Maintenance (30))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	-0.00357	-0.00357	0	0
2	GRAT SUP	PY	-0.00285	-0.00285	0	0
3	GRAT SUP2	PY	-0.00285	-0.00285	0	0
4	PL1	PY	-0.00927	-0.00927	0	0
5	SO2	PY	-0.00357	-0.00357	0	0
6	GRAT SUP3	PY	-0.00285	-0.00285	0	0
7	GRAT SUP4	PY	-0.00285	-0.00285	0	0
8	PL2	PY	-0.00927	-0.00927	0	0
9	SO3	PY	-0.00357	-0.00357	0	0
10	GRAT SUP5	PY	-0.00285	-0.00285	0	0
11	GRAT SUP6	PY	-0.00285	-0.00285	0	0
12	PL3	PY	-0.00927	-0.00927	0	0
13	FACE1	PY	-0.00171	-0.00171	0	0
14	MP ALPHA1	PY	-0.00406	-0.00406	0	0
15	MP ALPHA3	PY	-0.00406	-0.00406	0	0
16	RAIL1	PY	-0.0012	-0.0012	0	0
17	RAIL CON3	PY	-0.00941	-0.00941	0	0
18	RAIL CON1	PY	-0.00941	-0.00941	0	0
19	RAIL CON2	PY	-0.00941	-0.00941	0	0
20	CR1	PY	-0.00482	-0.00482	0	0
21	CR2	PY	-0.00482	-0.00482	0	0
22	CR3	PY	-0.00482	-0.00482	0	0
23	CR4	PY	-0.00482	-0.00482	0	0
24	CR5	PY	-0.00482	-0.00482	0	0
25	CR6	PY	-0.00482	-0.00482	0	0
26	PL4	PY	-0.00339	-0.00339	0	0
27	PL5	PY	-0.00339	-0.00339	0	0
28	PL6	PY	-0.00339	-0.00339	0	0
29	PL7	PY	-0.00339	-0.00339	0	0
30	PL8	PY	-0.00339	-0.00339	0	0
31	PL9	PY	-0.00339	-0.00339	0	0
32	MP ALPHA2	PY	-0.00406	-0.00406	0	0
33	FACE3	PY	-0.00342	-0.00342	0	0
34	MP GAMMA1	PY	-0.00406	-0.00406	0	0
35	MP GAMMA3	PY	-0.00406	-0.00406	0	0
36	RAIL3	PY	-0.00239	-0.00239	0	0
37	FACE2	PY	-0.00342	-0.00342	0	0
38	MP BETA1	PY	-0.00406	-0.00406	0	0
39	MP BETA3	PY	-0.00406	-0.00406	0	0
40	RAIL2	PY	-0.00239	-0.00239	0	0
41	MP BETA2	PY	-0.00406	-0.00406	0	0
42	MP GAMMA2	PY	-0.00406	-0.00406	0	0
43	SO1	PX	-0.00206	-0.00206	0	0



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Member Distributed Loads (BLC 16 : Maintenance (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
44	GRAT SUP	PX	-0.00165	-0.00165	0	0
45	GRAT SUP2	PX	-0.00165	-0.00165	0	0
46	PL1	PX	-0.00535	-0.00535	0	0
47	SO2	PX	-0.00206	-0.00206	0	0
48	GRAT SUP3	PX	-0.00165	-0.00165	0	0
49	GRAT SUP4	PX	-0.00165	-0.00165	0	0
50	PL2	PX	-0.00535	-0.00535	0	0
51	SO3	PX	-0.00206	-0.00206	0	0
52	GRAT SUP5	PX	-0.00165	-0.00165	0	0
53	GRAT SUP6	PX	-0.00165	-0.00165	0	0
54	PL3	PX	-0.00535	-0.00535	0	0
55	FACE1	PX	-9.9e-5	-9.9e-5	0	0
56	MP ALPHA1	PX	-0.00235	-0.00235	0	0
57	MP ALPHA3	PX	-0.00235	-0.00235	0	0
58	RAIL1	PX	-6.9e-5	-6.9e-5	0	0
59	RAIL CON3	PX	-0.00543	-0.00543	0	0
60	RAIL CON1	PX	-0.00543	-0.00543	0	0
61	RAIL CON2	PX	-0.00543	-0.00543	0	0
62	CR1	PX	-0.00278	-0.00278	0	0
63	CR2	PX	-0.00278	-0.00278	0	0
64	CR3	PX	-0.00278	-0.00278	0	0
65	CR4	PX	-0.00278	-0.00278	0	0
66	CR5	PX	-0.00278	-0.00278	0	0
67	CR6	PX	-0.00278	-0.00278	0	0
68	PL4	PX	-0.00196	-0.00196	0	0
69	PL5	PX	-0.00196	-0.00196	0	0
70	PL6	PX	-0.00196	-0.00196	0	0
71	PL7	PX	-0.00196	-0.00196	0	0
72	PL8	PX	-0.00196	-0.00196	0	0
73	PL9	PX	-0.00196	-0.00196	0	0
74	MP ALPHA2	PX	-0.00235	-0.00235	0	0
75	FACE3	PX	-0.00198	-0.00198	0	0
76	MP GAMMA1	PX	-0.00235	-0.00235	0	0
77	MP GAMMA3	PX	-0.00235	-0.00235	0	0
78	RAIL3	PX	-0.00138	-0.00138	0	0
79	FACE2	PX	-0.00198	-0.00198	0	0
80	MP BETA1	PX	-0.00235	-0.00235	0	0
81	MP BETA3	PX	-0.00235	-0.00235	0	0
82	RAIL2	PX	-0.00138	-0.00138	0	0
83	MP BETA2	PX	-0.00235	-0.00235	0	0
84	MP GAMMA2	PX	-0.00235	-0.00235	0	0

Member Distributed Loads (BLC 17 : Maintenance (60))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	-0.00206	-0.00206	0	0
2	GRAT SUP	PY	-0.00165	-0.00165	0	0
3	GRAT SUP2	PY	-0.00165	-0.00165	0	0
4	PL1	PY	-0.00535	-0.00535	0	0
5	SO2	PY	-0.00206	-0.00206	0	0
6	GRAT SUP3	PY	-0.00165	-0.00165	0	0
7	GRAT SUP4	PY	-0.00165	-0.00165	0	0
8	PL2	PY	-0.00535	-0.00535	0	0
9	SO3	PY	-0.00206	-0.00206	0	0
10	GRAT SUP5	PY	-0.00165	-0.00165	0	0
11	GRAT SUP6	PY	-0.00165	-0.00165	0	0
12	PL3	PY	-0.00535	-0.00535	0	0



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Member Distributed Loads (BLC 17 : Maintenance (60)) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
13	FACE1	PY	-9.9e-5	-9.9e-5	0	0
14	MP ALPHA1	PY	-0.00235	-0.00235	0	0
15	MP ALPHA3	PY	-0.00235	-0.00235	0	0
16	RAIL1	PY	-6.9e-5	-6.9e-5	0	0
17	RAIL CON3	PY	-0.00543	-0.00543	0	0
18	RAIL CON1	PY	-0.00543	-0.00543	0	0
19	RAIL CON2	PY	-0.00543	-0.00543	0	0
20	CR1	PY	-0.00278	-0.00278	0	0
21	CR2	PY	-0.00278	-0.00278	0	0
22	CR3	PY	-0.00278	-0.00278	0	0
23	CR4	PY	-0.00278	-0.00278	0	0
24	CR5	PY	-0.00278	-0.00278	0	0
25	CR6	PY	-0.00278	-0.00278	0	0
26	PL4	PY	-0.00196	-0.00196	0	0
27	PL5	PY	-0.00196	-0.00196	0	0
28	PL6	PY	-0.00196	-0.00196	0	0
29	PL7	PY	-0.00196	-0.00196	0	0
30	PL8	PY	-0.00196	-0.00196	0	0
31	PL9	PY	-0.00196	-0.00196	0	0
32	MP ALPHA2	PY	-0.00235	-0.00235	0	0
33	FACE3	PY	-0.00198	-0.00198	0	0
34	MP GAMMA1	PY	-0.00235	-0.00235	0	0
35	MP GAMMA3	PY	-0.00235	-0.00235	0	0
36	RAIL3	PY	-0.00138	-0.00138	0	0
37	FACE2	PY	-0.00198	-0.00198	0	0
38	MP BETA1	PY	-0.00235	-0.00235	0	0
39	MP BETA3	PY	-0.00235	-0.00235	0	0
40	RAIL2	PY	-0.00138	-0.00138	0	0
41	MP BETA2	PY	-0.00235	-0.00235	0	0
42	MP GAMMA2	PY	-0.00235	-0.00235	0	0
43	SO1	PX	-0.00357	-0.00357	0	0
44	GRAT SUP	PX	-0.00285	-0.00285	0	0
45	GRAT SUP2	PX	-0.00285	-0.00285	0	0
46	PL1	PX	-0.00927	-0.00927	0	0
47	SO2	PX	-0.00357	-0.00357	0	0
48	GRAT SUP3	PX	-0.00285	-0.00285	0	0
49	GRAT SUP4	PX	-0.00285	-0.00285	0	0
50	PL2	PX	-0.00927	-0.00927	0	0
51	SO3	PX	-0.00357	-0.00357	0	0
52	GRAT SUP5	PX	-0.00285	-0.00285	0	0
53	GRAT SUP6	PX	-0.00285	-0.00285	0	0
54	PL3	PX	-0.00927	-0.00927	0	0
55	FACE1	PX	-0.00171	-0.00171	0	0
56	MP ALPHA1	PX	-0.00406	-0.00406	0	0
57	MP ALPHA3	PX	-0.00406	-0.00406	0	0
58	RAIL1	PX	-0.0012	-0.0012	0	0
59	RAIL CON3	PX	-0.00941	-0.00941	0	0
60	RAIL CON1	PX	-0.00941	-0.00941	0	0
61	RAIL CON2	PX	-0.00941	-0.00941	0	0
62	CR1	PX	-0.00482	-0.00482	0	0
63	CR2	PX	-0.00482	-0.00482	0	0
64	CR3	PX	-0.00482	-0.00482	0	0
65	CR4	PX	-0.00482	-0.00482	0	0
66	CR5	PX	-0.00482	-0.00482	0	0
67	CR6	PX	-0.00482	-0.00482	0	0
68	PL4	PX	-0.00339	-0.00339	0	0
69	PL5	PX	-0.00339	-0.00339	0	0



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Member Distributed Loads (BLC 17 : Maintenance (60)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
70	PL6	PX	-0.00339	-0.00339	0	0
71	PL7	PX	-0.00339	-0.00339	0	0
72	PL8	PX	-0.00339	-0.00339	0	0
73	PL9	PX	-0.00339	-0.00339	0	0
74	MP ALPHA2	PX	-0.00406	-0.00406	0	0
75	FACE3	PX	-0.00342	-0.00342	0	0
76	MP GAMMA1	PX	-0.00406	-0.00406	0	0
77	MP GAMMA3	PX	-0.00406	-0.00406	0	0
78	RAIL3	PX	-0.00239	-0.00239	0	0
79	FACE2	PX	-0.00342	-0.00342	0	0
80	MP BETA1	PX	-0.00406	-0.00406	0	0
81	MP BETA3	PX	-0.00406	-0.00406	0	0
82	RAIL2	PX	-0.00239	-0.00239	0	0
83	MP BETA2	PX	-0.00406	-0.00406	0	0
84	MP GAMMA2	PX	-0.00406	-0.00406	0	0

Member Distributed Loads (BLC 18 : Maintenance (90))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PX	-0.00412	-0.00412	0	0
2	GRAT SUP	PX	-0.00329	-0.00329	0	0
3	GRAT SUP2	PX	-0.00329	-0.00329	0	0
4	PL1	PX	-0.001	-0.001	0	0
5	SO2	PX	-0.00412	-0.00412	0	0
6	GRAT SUP3	PX	-0.00329	-0.00329	0	0
7	GRAT SUP4	PX	-0.00329	-0.00329	0	0
8	PL2	PX	-0.001	-0.001	0	0
9	SO3	PX	-0.00412	-0.00412	0	0
10	GRAT SUP5	PX	-0.00329	-0.00329	0	0
11	GRAT SUP6	PX	-0.00329	-0.00329	0	0
12	PL3	PX	-0.001	-0.001	0	0
13	FACE2	PX	-0.00198	-0.00198	0	0
14	MP ALPHA1	PX	-0.00469	-0.00469	0	0
15	MP ALPHA3	PX	-0.00469	-0.00469	0	0
16	RAIL2	PX	-0.00138	-0.00138	0	0
17	RAIL CON3	PX	-0.001	-0.001	0	0
18	RAIL CON1	PX	-0.001	-0.001	0	0
19	RAIL CON2	PX	-0.001	-0.001	0	0
20	CR1	PX	-0.00557	-0.00557	0	0
21	CR2	PX	-0.00557	-0.00557	0	0
22	CR3	PX	-0.00557	-0.00557	0	0
23	CR4	PX	-0.00557	-0.00557	0	0
24	CR5	PX	-0.00557	-0.00557	0	0
25	CR6	PX	-0.00557	-0.00557	0	0
26	PL4	PX	-0.00391	-0.00391	0	0
27	PL5	PX	-0.00391	-0.00391	0	0
28	PL6	PX	-0.00391	-0.00391	0	0
29	PL7	PX	-0.00391	-0.00391	0	0
30	PL8	PX	-0.00391	-0.00391	0	0
31	PL9	PX	-0.00391	-0.00391	0	0
32	MP ALPHA2	PX	-0.00469	-0.00469	0	0
33	FACE3	PX	-0.00395	-0.00395	0	0
34	MP GAMMA1	PX	-0.00469	-0.00469	0	0
35	MP GAMMA3	PX	-0.00469	-0.00469	0	0
36	RAIL3	PX	-0.00276	-0.00276	0	0
37	FACE1	PX	-0.00395	-0.00395	0	0
38	MP BETA1	PX	-0.00469	-0.00469	0	0



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Member Distributed Loads (BLC 18 : Maintenance (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft.%]	End Location[ft.%]
39	MP BETA3	PX	-.000469	-.000469	0	0
40	RAIL1	PX	-.000276	-.000276	0	0
41	MP BETA2	PX	-.000469	-.000469	0	0
42	MP GAMMA2	PX	-.000469	-.000469	0	0

Member Distributed Loads (BLC 19 : Maintenance (120))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	.000206	.000206	0	0
2	GRAT SUP	PY	.000165	.000165	0	0
3	GRAT SUP2	PY	.000165	.000165	0	0
4	PL1	PY	.000535	.000535	0	0
5	SO2	PY	.000206	.000206	0	0
6	GRAT SUP3	PY	.000165	.000165	0	0
7	GRAT SUP4	PY	.000165	.000165	0	0
8	PL2	PY	.000535	.000535	0	0
9	SO3	PY	.000206	.000206	0	0
10	GRAT SUP5	PY	.000165	.000165	0	0
11	GRAT SUP6	PY	.000165	.000165	0	0
12	PL3	PY	.000535	.000535	0	0
13	FACE2	PY	9.9e-5	9.9e-5	0	0
14	MP ALPHA1	PY	.000235	.000235	0	0
15	MP ALPHA3	PY	.000235	.000235	0	0
16	RAIL2	PY	6.9e-5	6.9e-5	0	0
17	RAIL CON3	PY	.000543	.000543	0	0
18	RAIL CON1	PY	.000543	.000543	0	0
19	RAIL CON2	PY	.000543	.000543	0	0
20	CR1	PY	.000278	.000278	0	0
21	CR2	PY	.000278	.000278	0	0
22	CR3	PY	.000278	.000278	0	0
23	CR4	PY	.000278	.000278	0	0
24	CR5	PY	.000278	.000278	0	0
25	CR6	PY	.000278	.000278	0	0
26	PL4	PY	.000196	.000196	0	0
27	PL5	PY	.000196	.000196	0	0
28	PL6	PY	.000196	.000196	0	0
29	PL7	PY	.000196	.000196	0	0
30	PL8	PY	.000196	.000196	0	0
31	PL9	PY	.000196	.000196	0	0
32	MP ALPHA2	PY	.000235	.000235	0	0
33	FACE3	PY	.000198	.000198	0	0
34	MP GAMMA1	PY	.000235	.000235	0	0
35	MP GAMMA3	PY	.000235	.000235	0	0
36	RAIL3	PY	.000138	.000138	0	0
37	FACE1	PY	.000198	.000198	0	0
38	MP BETA1	PY	.000235	.000235	0	0
39	MP BETA3	PY	.000235	.000235	0	0
40	RAIL1	PY	.000138	.000138	0	0
41	MP BETA2	PY	.000235	.000235	0	0
42	MP GAMMA2	PY	.000235	.000235	0	0
43	SO1	PX	-.000357	-.000357	0	0
44	GRAT SUP	PX	-.000285	-.000285	0	0
45	GRAT SUP2	PX	-.000285	-.000285	0	0
46	PL1	PX	-.000927	-.000927	0	0
47	SO2	PX	-.000357	-.000357	0	0
48	GRAT SUP3	PX	-.000285	-.000285	0	0
49	GRAT SUP4	PX	-.000285	-.000285	0	0



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Member Distributed Loads (BLC 19 : Maintenance (120)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
50	PL2	PX	-.000927	-.000927	0	0
51	SO3	PX	-.000357	-.000357	0	0
52	GRAT SUP5	PX	-.000285	-.000285	0	0
53	GRAT SUP6	PX	-.000285	-.000285	0	0
54	PL3	PX	-.000927	-.000927	0	0
55	FACE2	PX	-.000171	-.000171	0	0
56	MP ALPHA1	PX	-.000406	-.000406	0	0
57	MP ALPHA3	PX	-.000406	-.000406	0	0
58	RAIL2	PX	-.00012	-.00012	0	0
59	RAIL CON3	PX	-.000941	-.000941	0	0
60	RAIL CON1	PX	-.000941	-.000941	0	0
61	RAIL CON2	PX	-.000941	-.000941	0	0
62	CR1	PX	-.000482	-.000482	0	0
63	CR2	PX	-.000482	-.000482	0	0
64	CR3	PX	-.000482	-.000482	0	0
65	CR4	PX	-.000482	-.000482	0	0
66	CR5	PX	-.000482	-.000482	0	0
67	CR6	PX	-.000482	-.000482	0	0
68	PL4	PX	-.000339	-.000339	0	0
69	PL5	PX	-.000339	-.000339	0	0
70	PL6	PX	-.000339	-.000339	0	0
71	PL7	PX	-.000339	-.000339	0	0
72	PL8	PX	-.000339	-.000339	0	0
73	PL9	PX	-.000339	-.000339	0	0
74	MP ALPHA2	PX	-.000406	-.000406	0	0
75	FACE3	PX	-.000342	-.000342	0	0
76	MP GAMMA1	PX	-.000406	-.000406	0	0
77	MP GAMMA3	PX	-.000406	-.000406	0	0
78	RAIL3	PX	-.000239	-.000239	0	0
79	FACE1	PX	-.000342	-.000342	0	0
80	MP BETA1	PX	-.000406	-.000406	0	0
81	MP BETA3	PX	-.000406	-.000406	0	0
82	RAIL1	PX	-.000239	-.000239	0	0
83	MP BETA2	PX	-.000406	-.000406	0	0
84	MP GAMMA2	PX	-.000406	-.000406	0	0

Member Distributed Loads (BLC 20 : Maintenance (150))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	.000357	.000357	0	0
2	GRAT SUP	PY	.000285	.000285	0	0
3	GRAT SUP2	PY	.000285	.000285	0	0
4	PL1	PY	.000927	.000927	0	0
5	SO2	PY	.000357	.000357	0	0
6	GRAT SUP3	PY	.000285	.000285	0	0
7	GRAT SUP4	PY	.000285	.000285	0	0
8	PL2	PY	.000927	.000927	0	0
9	SO3	PY	.000357	.000357	0	0
10	GRAT SUP5	PY	.000285	.000285	0	0
11	GRAT SUP6	PY	.000285	.000285	0	0
12	PL3	PY	.000927	.000927	0	0
13	FACE2	PY	.000171	.000171	0	0
14	MP ALPHA1	PY	.000406	.000406	0	0
15	MP ALPHA3	PY	.000406	.000406	0	0
16	RAIL2	PY	.00012	.00012	0	0
17	RAIL CON3	PY	.000941	.000941	0	0
18	RAIL CON1	PY	.000941	.000941	0	0



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Member Distributed Loads (BLC 20 : Maintenance (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
19	RAIL CON2	PY	.000941	.000941	0	0
20	CR1	PY	.000482	.000482	0	0
21	CR2	PY	.000482	.000482	0	0
22	CR3	PY	.000482	.000482	0	0
23	CR4	PY	.000482	.000482	0	0
24	CR5	PY	.000482	.000482	0	0
25	CR6	PY	.000482	.000482	0	0
26	PL4	PY	.000339	.000339	0	0
27	PL5	PY	.000339	.000339	0	0
28	PL6	PY	.000339	.000339	0	0
29	PL7	PY	.000339	.000339	0	0
30	PL8	PY	.000339	.000339	0	0
31	PL9	PY	.000339	.000339	0	0
32	MP ALPHA2	PY	.000406	.000406	0	0
33	FACE3	PY	.000342	.000342	0	0
34	MP GAMMA1	PY	.000406	.000406	0	0
35	MP GAMMA3	PY	.000406	.000406	0	0
36	RAIL3	PY	.000239	.000239	0	0
37	FACE1	PY	.000342	.000342	0	0
38	MP BETA1	PY	.000406	.000406	0	0
39	MP BETA3	PY	.000406	.000406	0	0
40	RAIL1	PY	.000239	.000239	0	0
41	MP BETA2	PY	.000406	.000406	0	0
42	MP GAMMA2	PY	.000406	.000406	0	0
43	SO1	PX	-.000206	-.000206	0	0
44	GRAT SUP	PX	-.000165	-.000165	0	0
45	GRAT SUP2	PX	-.000165	-.000165	0	0
46	PL1	PX	-.000535	-.000535	0	0
47	SO2	PX	-.000206	-.000206	0	0
48	GRAT SUP3	PX	-.000165	-.000165	0	0
49	GRAT SUP4	PX	-.000165	-.000165	0	0
50	PL2	PX	-.000535	-.000535	0	0
51	SO3	PX	-.000206	-.000206	0	0
52	GRAT SUP5	PX	-.000165	-.000165	0	0
53	GRAT SUP6	PX	-.000165	-.000165	0	0
54	PL3	PX	-.000535	-.000535	0	0
55	FACE2	PX	-9.9e-5	-9.9e-5	0	0
56	MP ALPHA1	PX	-.000235	-.000235	0	0
57	MP ALPHA3	PX	-.000235	-.000235	0	0
58	RAIL2	PX	-6.9e-5	-6.9e-5	0	0
59	RAIL CON3	PX	-.000543	-.000543	0	0
60	RAIL CON1	PX	-.000543	-.000543	0	0
61	RAIL CON2	PX	-.000543	-.000543	0	0
62	CR1	PX	-.000278	-.000278	0	0
63	CR2	PX	-.000278	-.000278	0	0
64	CR3	PX	-.000278	-.000278	0	0
65	CR4	PX	-.000278	-.000278	0	0
66	CR5	PX	-.000278	-.000278	0	0
67	CR6	PX	-.000278	-.000278	0	0
68	PL4	PX	-.000196	-.000196	0	0
69	PL5	PX	-.000196	-.000196	0	0
70	PL6	PX	-.000196	-.000196	0	0
71	PL7	PX	-.000196	-.000196	0	0
72	PL8	PX	-.000196	-.000196	0	0
73	PL9	PX	-.000196	-.000196	0	0
74	MP ALPHA2	PX	-.000235	-.000235	0	0
75	FACE3	PX	-.000198	-.000198	0	0



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Member Distributed Loads (BLC 20 : Maintenance (150)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
76	MP GAMMA1	PX	-.000235	-.000235	0	0
77	MP GAMMA3	PX	-.000235	-.000235	0	0
78	RAIL3	PX	-.000138	-.000138	0	0
79	FACE1	PX	-.000198	-.000198	0	0
80	MP BETA1	PX	-.000235	-.000235	0	0
81	MP BETA3	PX	-.000235	-.000235	0	0
82	RAIL1	PX	-.000138	-.000138	0	0
83	MP BETA2	PX	-.000235	-.000235	0	0
84	MP GAMMA2	PX	-.000235	-.000235	0	0

Member Distributed Loads (BLC 21 : Maintenance (180))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	.000412	.000412	0	0
2	GRAT SUP	PY	.000329	.000329	0	0
3	GRAT SUP2	PY	.000329	.000329	0	0
4	PL1	PY	.001	.001	0	0
5	SO2	PY	.000412	.000412	0	0
6	GRAT SUP3	PY	.000329	.000329	0	0
7	GRAT SUP4	PY	.000329	.000329	0	0
8	PL2	PY	.001	.001	0	0
9	SO3	PY	.000412	.000412	0	0
10	GRAT SUP5	PY	.000329	.000329	0	0
11	GRAT SUP6	PY	.000329	.000329	0	0
12	PL3	PY	.001	.001	0	0
13	FACE2	PY	.000198	.000198	0	0
14	MP ALPHA1	PY	.000469	.000469	0	0
15	MP ALPHA3	PY	.000469	.000469	0	0
16	RAIL2	PY	.000138	.000138	0	0
17	RAIL CON3	PY	.001	.001	0	0
18	RAIL CON1	PY	.001	.001	0	0
19	RAIL CON2	PY	.001	.001	0	0
20	CR1	PY	.000557	.000557	0	0
21	CR2	PY	.000557	.000557	0	0
22	CR3	PY	.000557	.000557	0	0
23	CR4	PY	.000557	.000557	0	0
24	CR5	PY	.000557	.000557	0	0
25	CR6	PY	.000557	.000557	0	0
26	PL4	PY	.000391	.000391	0	0
27	PL5	PY	.000391	.000391	0	0
28	PL6	PY	.000391	.000391	0	0
29	PL7	PY	.000391	.000391	0	0
30	PL8	PY	.000391	.000391	0	0
31	PL9	PY	.000391	.000391	0	0
32	MP ALPHA2	PY	.000469	.000469	0	0
33	FACE3	PY	.000395	.000395	0	0
34	MP GAMMA1	PY	.000469	.000469	0	0
35	MP GAMMA3	PY	.000469	.000469	0	0
36	RAIL3	PY	.000276	.000276	0	0
37	FACE1	PY	.000395	.000395	0	0
38	MP BETA1	PY	.000469	.000469	0	0
39	MP BETA3	PY	.000469	.000469	0	0
40	RAIL1	PY	.000276	.000276	0	0
41	MP BETA2	PY	.000469	.000469	0	0
42	MP GAMMA2	PY	.000469	.000469	0	0



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Member Distributed Loads (BLC 22 : Maintenance (210))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft,F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000357	.000357	0	0
2	GRAT SUP	PY	.000285	.000285	0	0
3	GRAT SUP2	PY	.000285	.000285	0	0
4	PL1	PY	.000927	.000927	0	0
5	SO2	PY	.000357	.000357	0	0
6	GRAT SUP3	PY	.000285	.000285	0	0
7	GRAT SUP4	PY	.000285	.000285	0	0
8	PL2	PY	.000927	.000927	0	0
9	SO3	PY	.000357	.000357	0	0
10	GRAT SUP5	PY	.000285	.000285	0	0
11	GRAT SUP6	PY	.000285	.000285	0	0
12	PL3	PY	.000927	.000927	0	0
13	FACE3	PY	.000171	.000171	0	0
14	MP ALPHA1	PY	.000406	.000406	0	0
15	MP ALPHA3	PY	.000406	.000406	0	0
16	RAIL3	PY	.00012	.00012	0	0
17	RAIL CON3	PY	.000941	.000941	0	0
18	RAIL CON1	PY	.000941	.000941	0	0
19	RAIL CON2	PY	.000941	.000941	0	0
20	CR1	PY	.000482	.000482	0	0
21	CR2	PY	.000482	.000482	0	0
22	CR3	PY	.000482	.000482	0	0
23	CR4	PY	.000482	.000482	0	0
24	CR5	PY	.000482	.000482	0	0
25	CR6	PY	.000482	.000482	0	0
26	PL4	PY	.000339	.000339	0	0
27	PL5	PY	.000339	.000339	0	0
28	PL6	PY	.000339	.000339	0	0
29	PL7	PY	.000339	.000339	0	0
30	PL8	PY	.000339	.000339	0	0
31	PL9	PY	.000339	.000339	0	0
32	MP ALPHA2	PY	.000406	.000406	0	0
33	FACE1	PY	.000342	.000342	0	0
34	MP GAMMA1	PY	.000406	.000406	0	0
35	MP GAMMA3	PY	.000406	.000406	0	0
36	RAIL1	PY	.000239	.000239	0	0
37	FACE2	PY	.000342	.000342	0	0
38	MP BETA1	PY	.000406	.000406	0	0
39	MP BETA3	PY	.000406	.000406	0	0
40	RAIL2	PY	.000239	.000239	0	0
41	MP BETA2	PY	.000406	.000406	0	0
42	MP GAMMA2	PY	.000406	.000406	0	0
43	SO1	PX	.000206	.000206	0	0
44	GRAT SUP	PX	.000165	.000165	0	0
45	GRAT SUP2	PX	.000165	.000165	0	0
46	PL1	PX	.000535	.000535	0	0
47	SO2	PX	.000206	.000206	0	0
48	GRAT SUP3	PX	.000165	.000165	0	0
49	GRAT SUP4	PX	.000165	.000165	0	0
50	PL2	PX	.000535	.000535	0	0
51	SO3	PX	.000206	.000206	0	0
52	GRAT SUP5	PX	.000165	.000165	0	0
53	GRAT SUP6	PX	.000165	.000165	0	0
54	PL3	PX	.000535	.000535	0	0
55	FACE3	PX	9.9e-5	9.9e-5	0	0
56	MP ALPHA1	PX	.000235	.000235	0	0
57	MP ALPHA3	PX	.000235	.000235	0	0



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Member Distributed Loads (BLC 22 : Maintenance (210)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
58	RAIL3	PX	6.9e-5	6.9e-5	0	0
59	RAIL CON3	PX	.000543	.000543	0	0
60	RAIL CON1	PX	.000543	.000543	0	0
61	RAIL CON2	PX	.000543	.000543	0	0
62	CR1	PX	.000278	.000278	0	0
63	CR2	PX	.000278	.000278	0	0
64	CR3	PX	.000278	.000278	0	0
65	CR4	PX	.000278	.000278	0	0
66	CR5	PX	.000278	.000278	0	0
67	CR6	PX	.000278	.000278	0	0
68	PL4	PX	.000196	.000196	0	0
69	PL5	PX	.000196	.000196	0	0
70	PL6	PX	.000196	.000196	0	0
71	PL7	PX	.000196	.000196	0	0
72	PL8	PX	.000196	.000196	0	0
73	PL9	PX	.000196	.000196	0	0
74	MP ALPHA2	PX	.000235	.000235	0	0
75	FACE1	PX	.000198	.000198	0	0
76	MP GAMMA1	PX	.000235	.000235	0	0
77	MP GAMMA3	PX	.000235	.000235	0	0
78	RAIL1	PX	.000138	.000138	0	0
79	FACE2	PX	.000198	.000198	0	0
80	MP BETA1	PX	.000235	.000235	0	0
81	MP BETA3	PX	.000235	.000235	0	0
82	RAIL2	PX	.000138	.000138	0	0
83	MP BETA2	PX	.000235	.000235	0	0
84	MP GAMMA2	PX	.000235	.000235	0	0

Member Distributed Loads (BLC 23 : Maintenance (240))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000206	.000206	0	0
2	GRAT SUP	PY	.000165	.000165	0	0
3	GRAT SUP2	PY	.000165	.000165	0	0
4	PL1	PY	.000535	.000535	0	0
5	SO2	PY	.000206	.000206	0	0
6	GRAT SUP3	PY	.000165	.000165	0	0
7	GRAT SUP4	PY	.000165	.000165	0	0
8	PL2	PY	.000535	.000535	0	0
9	SO3	PY	.000206	.000206	0	0
10	GRAT SUP5	PY	.000165	.000165	0	0
11	GRAT SUP6	PY	.000165	.000165	0	0
12	PL3	PY	.000535	.000535	0	0
13	FACE3	PY	9.9e-5	9.9e-5	0	0
14	MP ALPHA1	PY	.000235	.000235	0	0
15	MP ALPHA3	PY	.000235	.000235	0	0
16	RAIL3	PY	6.9e-5	6.9e-5	0	0
17	RAIL CON3	PY	.000543	.000543	0	0
18	RAIL CON1	PY	.000543	.000543	0	0
19	RAIL CON2	PY	.000543	.000543	0	0
20	CR1	PY	.000278	.000278	0	0
21	CR2	PY	.000278	.000278	0	0
22	CR3	PY	.000278	.000278	0	0
23	CR4	PY	.000278	.000278	0	0
24	CR5	PY	.000278	.000278	0	0
25	CR6	PY	.000278	.000278	0	0
26	PL4	PY	.000196	.000196	0	0



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Member Distributed Loads (BLC 23 : Maintenance (240)) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
27	PL5	PY	.000196	.000196	0	0
28	PL6	PY	.000196	.000196	0	0
29	PL7	PY	.000196	.000196	0	0
30	PL8	PY	.000196	.000196	0	0
31	PL9	PY	.000196	.000196	0	0
32	MP ALPHA2	PY	.000235	.000235	0	0
33	FACE1	PY	.000198	.000198	0	0
34	MP GAMMA1	PY	.000235	.000235	0	0
35	MP GAMMA3	PY	.000235	.000235	0	0
36	RAIL1	PY	.000138	.000138	0	0
37	FACE2	PY	.000198	.000198	0	0
38	MP BETA1	PY	.000235	.000235	0	0
39	MP BETA3	PY	.000235	.000235	0	0
40	RAIL2	PY	.000138	.000138	0	0
41	MP BETA2	PY	.000235	.000235	0	0
42	MP GAMMA2	PY	.000235	.000235	0	0
43	SO1	PX	.000357	.000357	0	0
44	GRAT SUP	PX	.000285	.000285	0	0
45	GRAT SUP2	PX	.000285	.000285	0	0
46	PL1	PX	.000927	.000927	0	0
47	SO2	PX	.000357	.000357	0	0
48	GRAT SUP3	PX	.000285	.000285	0	0
49	GRAT SUP4	PX	.000285	.000285	0	0
50	PL2	PX	.000927	.000927	0	0
51	SO3	PX	.000357	.000357	0	0
52	GRAT SUP5	PX	.000285	.000285	0	0
53	GRAT SUP6	PX	.000285	.000285	0	0
54	PL3	PX	.000927	.000927	0	0
55	FACE3	PX	.000171	.000171	0	0
56	MP ALPHA1	PX	.000406	.000406	0	0
57	MP ALPHA3	PX	.000406	.000406	0	0
58	RAIL3	PX	.00012	.00012	0	0
59	RAIL CON3	PX	.000941	.000941	0	0
60	RAIL CON1	PX	.000941	.000941	0	0
61	RAIL CON2	PX	.000941	.000941	0	0
62	CR1	PX	.000482	.000482	0	0
63	CR2	PX	.000482	.000482	0	0
64	CR3	PX	.000482	.000482	0	0
65	CR4	PX	.000482	.000482	0	0
66	CR5	PX	.000482	.000482	0	0
67	CR6	PX	.000482	.000482	0	0
68	PL4	PX	.000339	.000339	0	0
69	PL5	PX	.000339	.000339	0	0
70	PL6	PX	.000339	.000339	0	0
71	PL7	PX	.000339	.000339	0	0
72	PL8	PX	.000339	.000339	0	0
73	PL9	PX	.000339	.000339	0	0
74	MP ALPHA2	PX	.000406	.000406	0	0
75	FACE1	PX	.000342	.000342	0	0
76	MP GAMMA1	PX	.000406	.000406	0	0
77	MP GAMMA3	PX	.000406	.000406	0	0
78	RAIL1	PX	.000239	.000239	0	0
79	FACE2	PX	.000342	.000342	0	0
80	MP BETA1	PX	.000406	.000406	0	0
81	MP BETA3	PX	.000406	.000406	0	0
82	RAIL2	PX	.000239	.000239	0	0
83	MP BETA2	PX	.000406	.000406	0	0



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Member Distributed Loads (BLC 23 : Maintenance (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
84	MP GAMMA2	PX	.000406	.000406	0	0

Member Distributed Loads (BLC 24 : Maintenance (270))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PX	.000412	.000412	0	0
2	GRAT SUP	PX	.000329	.000329	0	0
3	GRAT SUP2	PX	.000329	.000329	0	0
4	PL1	PX	.001	.001	0	0
5	SO2	PX	.000412	.000412	0	0
6	GRAT SUP3	PX	.000329	.000329	0	0
7	GRAT SUP4	PX	.000329	.000329	0	0
8	PL2	PX	.001	.001	0	0
9	SO3	PX	.000412	.000412	0	0
10	GRAT SUP5	PX	.000329	.000329	0	0
11	GRAT SUP6	PX	.000329	.000329	0	0
12	PL3	PX	.001	.001	0	0
13	FACE3	PX	.000198	.000198	0	0
14	MP ALPHA1	PX	.000469	.000469	0	0
15	MP ALPHA3	PX	.000469	.000469	0	0
16	RAIL3	PX	.000138	.000138	0	0
17	RAIL CON3	PX	.001	.001	0	0
18	RAIL CON1	PX	.001	.001	0	0
19	RAIL CON2	PX	.001	.001	0	0
20	CR1	PX	.000557	.000557	0	0
21	CR2	PX	.000557	.000557	0	0
22	CR3	PX	.000557	.000557	0	0
23	CR4	PX	.000557	.000557	0	0
24	CR5	PX	.000557	.000557	0	0
25	CR6	PX	.000557	.000557	0	0
26	PL4	PX	.000391	.000391	0	0
27	PL5	PX	.000391	.000391	0	0
28	PL6	PX	.000391	.000391	0	0
29	PL7	PX	.000391	.000391	0	0
30	PL8	PX	.000391	.000391	0	0
31	PL9	PX	.000391	.000391	0	0
32	MP ALPHA2	PX	.000469	.000469	0	0
33	FACE1	PX	.000395	.000395	0	0
34	MP GAMMA1	PX	.000469	.000469	0	0
35	MP GAMMA3	PX	.000469	.000469	0	0
36	RAIL1	PX	.000276	.000276	0	0
37	FACE2	PX	.000395	.000395	0	0
38	MP BETA1	PX	.000469	.000469	0	0
39	MP BETA3	PX	.000469	.000469	0	0
40	RAIL2	PX	.000276	.000276	0	0
41	MP BETA2	PX	.000469	.000469	0	0
42	MP GAMMA2	PX	.000469	.000469	0	0

Member Distributed Loads (BLC 25 : Maintenance (300))

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-.000206	-.000206	0	0
2	GRAT SUP	PY	-.000165	-.000165	0	0
3	GRAT SUP2	PY	-.000165	-.000165	0	0
4	PL1	PY	-.000535	-.000535	0	0
5	SO2	PY	-.000206	-.000206	0	0
6	GRAT SUP3	PY	-.000165	-.000165	0	0
7	GRAT SUP4	PY	-.000165	-.000165	0	0



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Member Distributed Loads (BLC 25 : Maintenance (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
8	PL2	PY	-.000535	-.000535	0	0
9	SO3	PY	-.000206	-.000206	0	0
10	GRAT SUP5	PY	-.000165	-.000165	0	0
11	GRAT SUP6	PY	-.000165	-.000165	0	0
12	PL3	PY	-.000535	-.000535	0	0
13	FACE3	PY	-9.9e-5	-9.9e-5	0	0
14	MP ALPHA1	PY	-.000235	-.000235	0	0
15	MP ALPHA3	PY	-.000235	-.000235	0	0
16	RAIL3	PY	-6.9e-5	-6.9e-5	0	0
17	RAIL CON3	PY	-.000543	-.000543	0	0
18	RAIL CON1	PY	-.000543	-.000543	0	0
19	RAIL CON2	PY	-.000543	-.000543	0	0
20	CR1	PY	-.000278	-.000278	0	0
21	CR2	PY	-.000278	-.000278	0	0
22	CR3	PY	-.000278	-.000278	0	0
23	CR4	PY	-.000278	-.000278	0	0
24	CR5	PY	-.000278	-.000278	0	0
25	CR6	PY	-.000278	-.000278	0	0
26	PL4	PY	-.000196	-.000196	0	0
27	PL5	PY	-.000196	-.000196	0	0
28	PL6	PY	-.000196	-.000196	0	0
29	PL7	PY	-.000196	-.000196	0	0
30	PL8	PY	-.000196	-.000196	0	0
31	PL9	PY	-.000196	-.000196	0	0
32	MP ALPHA2	PY	-.000235	-.000235	0	0
33	FACE1	PY	-.000198	-.000198	0	0
34	MP GAMMA1	PY	-.000235	-.000235	0	0
35	MP GAMMA3	PY	-.000235	-.000235	0	0
36	RAIL1	PY	-.000138	-.000138	0	0
37	FACE2	PY	-.000198	-.000198	0	0
38	MP BETA1	PY	-.000235	-.000235	0	0
39	MP BETA3	PY	-.000235	-.000235	0	0
40	RAIL2	PY	-.000138	-.000138	0	0
41	MP BETA2	PY	-.000235	-.000235	0	0
42	MP GAMMA2	PY	-.000235	-.000235	0	0
43	SO1	PX	.000357	.000357	0	0
44	GRAT SUP	PX	.000285	.000285	0	0
45	GRAT SUP2	PX	.000285	.000285	0	0
46	PL1	PX	.000927	.000927	0	0
47	SO2	PX	.000357	.000357	0	0
48	GRAT SUP3	PX	.000285	.000285	0	0
49	GRAT SUP4	PX	.000285	.000285	0	0
50	PL2	PX	.000927	.000927	0	0
51	SO3	PX	.000357	.000357	0	0
52	GRAT SUP5	PX	.000285	.000285	0	0
53	GRAT SUP6	PX	.000285	.000285	0	0
54	PL3	PX	.000927	.000927	0	0
55	FACE3	PX	.000171	.000171	0	0
56	MP ALPHA1	PX	.000406	.000406	0	0
57	MP ALPHA3	PX	.000406	.000406	0	0
58	RAIL3	PX	.00012	.00012	0	0
59	RAIL CON3	PX	.000941	.000941	0	0
60	RAIL CON1	PX	.000941	.000941	0	0
61	RAIL CON2	PX	.000941	.000941	0	0
62	CR1	PX	.000482	.000482	0	0
63	CR2	PX	.000482	.000482	0	0
64	CR3	PX	.000482	.000482	0	0



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Member Distributed Loads (BLC 25 : Maintenance (300)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
65	CR4	PX	.000482	.000482	0	0
66	CR5	PX	.000482	.000482	0	0
67	CR6	PX	.000482	.000482	0	0
68	PL4	PX	.000339	.000339	0	0
69	PL5	PX	.000339	.000339	0	0
70	PL6	PX	.000339	.000339	0	0
71	PL7	PX	.000339	.000339	0	0
72	PL8	PX	.000339	.000339	0	0
73	PL9	PX	.000339	.000339	0	0
74	MP ALPHA2	PX	.000406	.000406	0	0
75	FACE1	PX	.000342	.000342	0	0
76	MP GAMMA1	PX	.000406	.000406	0	0
77	MP GAMMA3	PX	.000406	.000406	0	0
78	RAIL1	PX	.000239	.000239	0	0
79	FACE2	PX	.000342	.000342	0	0
80	MP BETA1	PX	.000406	.000406	0	0
81	MP BETA3	PX	.000406	.000406	0	0
82	RAIL2	PX	.000239	.000239	0	0
83	MP BETA2	PX	.000406	.000406	0	0
84	MP GAMMA2	PX	.000406	.000406	0	0

Member Distributed Loads (BLC 26 : Maintenance (330))

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
1	SO1	PY	-.000357	-.000357	0	0
2	GRAT SUP	PY	-.000285	-.000285	0	0
3	GRAT SUP2	PY	-.000285	-.000285	0	0
4	PL1	PY	-.000927	-.000927	0	0
5	SO2	PY	-.000357	-.000357	0	0
6	GRAT SUP3	PY	-.000285	-.000285	0	0
7	GRAT SUP4	PY	-.000285	-.000285	0	0
8	PL2	PY	-.000927	-.000927	0	0
9	SO3	PY	-.000357	-.000357	0	0
10	GRAT SUP5	PY	-.000285	-.000285	0	0
11	GRAT SUP6	PY	-.000285	-.000285	0	0
12	PL3	PY	-.000927	-.000927	0	0
13	FACE1	PY	-.000171	-.000171	0	0
14	MP ALPHA1	PY	-.000406	-.000406	0	0
15	MP ALPHA3	PY	-.000406	-.000406	0	0
16	RAIL1	PY	-.00012	-.00012	0	0
17	RAIL CON3	PY	-.000941	-.000941	0	0
18	RAIL CON1	PY	-.000941	-.000941	0	0
19	RAIL CON2	PY	-.000941	-.000941	0	0
20	CR1	PY	-.000482	-.000482	0	0
21	CR2	PY	-.000482	-.000482	0	0
22	CR3	PY	-.000482	-.000482	0	0
23	CR4	PY	-.000482	-.000482	0	0
24	CR5	PY	-.000482	-.000482	0	0
25	CR6	PY	-.000482	-.000482	0	0
26	PL4	PY	-.000339	-.000339	0	0
27	PL5	PY	-.000339	-.000339	0	0
28	PL6	PY	-.000339	-.000339	0	0
29	PL7	PY	-.000339	-.000339	0	0
30	PL8	PY	-.000339	-.000339	0	0
31	PL9	PY	-.000339	-.000339	0	0
32	MP ALPHA2	PY	-.000406	-.000406	0	0
33	FACE3	PY	-.000342	-.000342	0	0



Company : POD
 Designer : BL
 Job Number : 21-113668
 Model Name : 828540

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Member Distributed Loads (BLC 26 : Maintenance (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
34	MP GAMMA1	PY	-.000406	-.000406	0	0
35	MP GAMMA3	PY	-.000406	-.000406	0	0
36	RAIL3	PY	-.000239	-.000239	0	0
37	FACE2	PY	-.000342	-.000342	0	0
38	MP BETA1	PY	-.000406	-.000406	0	0
39	MP BETA3	PY	-.000406	-.000406	0	0
40	RAIL2	PY	-.000239	-.000239	0	0
41	MP BETA2	PY	-.000406	-.000406	0	0
42	MP GAMMA2	PY	-.000406	-.000406	0	0
43	SO1	PX	.000206	.000206	0	0
44	GRAT SUP	PX	.000165	.000165	0	0
45	GRAT SUP2	PX	.000165	.000165	0	0
46	PL1	PX	.000535	.000535	0	0
47	SO2	PX	.000206	.000206	0	0
48	GRAT SUP3	PX	.000165	.000165	0	0
49	GRAT SUP4	PX	.000165	.000165	0	0
50	PL2	PX	.000535	.000535	0	0
51	SO3	PX	.000206	.000206	0	0
52	GRAT SUP5	PX	.000165	.000165	0	0
53	GRAT SUP6	PX	.000165	.000165	0	0
54	PL3	PX	.000535	.000535	0	0
55	FACE1	PX	9.9e-5	9.9e-5	0	0
56	MP ALPHA1	PX	.000235	.000235	0	0
57	MP ALPHA3	PX	.000235	.000235	0	0
58	RAIL1	PX	6.9e-5	6.9e-5	0	0
59	RAIL CON3	PX	.000543	.000543	0	0
60	RAIL CON1	PX	.000543	.000543	0	0
61	RAIL CON2	PX	.000543	.000543	0	0
62	CR1	PX	.000278	.000278	0	0
63	CR2	PX	.000278	.000278	0	0
64	CR3	PX	.000278	.000278	0	0
65	CR4	PX	.000278	.000278	0	0
66	CR5	PX	.000278	.000278	0	0
67	CR6	PX	.000278	.000278	0	0
68	PL4	PX	.000196	.000196	0	0
69	PL5	PX	.000196	.000196	0	0
70	PL6	PX	.000196	.000196	0	0
71	PL7	PX	.000196	.000196	0	0
72	PL8	PX	.000196	.000196	0	0
73	PL9	PX	.000196	.000196	0	0
74	MP ALPHA2	PX	.000235	.000235	0	0
75	FACE3	PX	.000198	.000198	0	0
76	MP GAMMA1	PX	.000235	.000235	0	0
77	MP GAMMA3	PX	.000235	.000235	0	0
78	RAIL3	PX	.000138	.000138	0	0
79	FACE2	PX	.000198	.000198	0	0
80	MP BETA1	PX	.000235	.000235	0	0
81	MP BETA3	PX	.000235	.000235	0	0
82	RAIL2	PX	.000138	.000138	0	0
83	MP BETA2	PX	.000235	.000235	0	0
84	MP GAMMA2	PX	.000235	.000235	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	Z	-.009	-.009	0	0
2	GRAT SUP	Z	-.006	-.006	0	0

Member Distributed Loads (BLC 27 : Ice Dead Load) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]	
3	GRAT SUP2	Z	-0.006	-0.006	0	0
4	PL1	Z	-0.008	-0.008	0	0
5	SO2	Z	-0.009	-0.009	0	0
6	GRAT SUP3	Z	-0.006	-0.006	0	0
7	GRAT SUP4	Z	-0.006	-0.006	0	0
8	PL2	Z	-0.008	-0.008	0	0
9	SO3	Z	-0.009	-0.009	0	0
10	GRAT SUP5	Z	-0.006	-0.006	0	0
11	GRAT SUP6	Z	-0.006	-0.006	0	0
12	PL3	Z	-0.008	-0.008	0	0
13	FACE1	Z	-0.006	-0.006	0	0
14	MP ALPHA1	Z	-0.005	-0.005	0	0
15	MP ALPHA3	Z	-0.005	-0.005	0	0
16	RAIL1	Z	-0.005	-0.005	0	0
17	RAIL CON3	Z	-0.01	-0.01	0	0
18	RAIL CON1	Z	-0.01	-0.01	0	0
19	RAIL CON2	Z	-0.01	-0.01	0	0
20	CR1	Z	-0.009	-0.009	0	0
21	CR2	Z	-0.009	-0.009	0	0
22	CR3	Z	-0.009	-0.009	0	0
23	CR4	Z	-0.009	-0.009	0	0
24	CR5	Z	-0.009	-0.009	0	0
25	CR6	Z	-0.009	-0.009	0	0
26	PL4	Z	-0.005	-0.005	0	0
27	PL5	Z	-0.005	-0.005	0	0
28	PL6	Z	-0.005	-0.005	0	0
29	PL7	Z	-0.005	-0.005	0	0
30	PL8	Z	-0.005	-0.005	0	0
31	PL9	Z	-0.005	-0.005	0	0
32	MP ALPHA2	Z	-0.005	-0.005	0	0
33	FACE3	Z	-0.006	-0.006	0	0
34	MP GAMMA1	Z	-0.005	-0.005	0	0
35	MP GAMMA3	Z	-0.005	-0.005	0	0
36	RAIL3	Z	-0.005	-0.005	0	0
37	FACE2	Z	-0.006	-0.006	0	0
38	MP BETA1	Z	-0.005	-0.005	0	0
39	MP BETA3	Z	-0.005	-0.005	0	0
40	RAIL2	Z	-0.005	-0.005	0	0
41	MP BETA2	Z	-0.005	-0.005	0	0
42	MP GAMMA2	Z	-0.005	-0.005	0	0

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

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]	
1	SO1	PY	-0.001	-0.001	0	0
2	GRAT SUP	PY	-0.001	-0.001	0	0
3	GRAT SUP2	PY	-0.001	-0.001	0	0
4	PL1	PY	-0.003	-0.003	0	0
5	SO2	PY	-0.001	-0.001	0	0
6	GRAT SUP3	PY	-0.001	-0.001	0	0
7	GRAT SUP4	PY	-0.001	-0.001	0	0
8	PL2	PY	-0.003	-0.003	0	0
9	SO3	PY	-0.001	-0.001	0	0
10	GRAT SUP5	PY	-0.001	-0.001	0	0
11	GRAT SUP6	PY	-0.001	-0.001	0	0
12	PL3	PY	-0.003	-0.003	0	0
13	FACE1	PY	-0.001	-0.001	0	0



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Member Distributed Loads (BLC 28 : Ice Wind Load (0)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
14	MP ALPHA1	PY	-0.003	-0.003	0	0
15	MP ALPHA3	PY	-0.003	-0.003	0	0
16	RAIL1	PY	-0.000833	-0.000833	0	0
17	RAIL CON3	PY	-0.003	-0.003	0	0
18	RAIL CON1	PY	-0.003	-0.003	0	0
19	RAIL CON2	PY	-0.003	-0.003	0	0
20	CR1	PY	-0.002	-0.002	0	0
21	CR2	PY	-0.002	-0.002	0	0
22	CR3	PY	-0.002	-0.002	0	0
23	CR4	PY	-0.002	-0.002	0	0
24	CR5	PY	-0.002	-0.002	0	0
25	CR6	PY	-0.002	-0.002	0	0
26	PL4	PY	-0.001	-0.001	0	0
27	PL5	PY	-0.001	-0.001	0	0
28	PL6	PY	-0.001	-0.001	0	0
29	PL7	PY	-0.001	-0.001	0	0
30	PL8	PY	-0.001	-0.001	0	0
31	PL9	PY	-0.001	-0.001	0	0
32	MP ALPHA2	PY	-0.003	-0.003	0	0
33	FACE3	PY	-0.002	-0.002	0	0
34	MP GAMMA1	PY	-0.003	-0.003	0	0
35	MP GAMMA3	PY	-0.003	-0.003	0	0
36	RAIL3	PY	-0.002	-0.002	0	0
37	FACE2	PY	-0.002	-0.002	0	0
38	MP BETA1	PY	-0.003	-0.003	0	0
39	MP BETA3	PY	-0.003	-0.003	0	0
40	RAIL2	PY	-0.002	-0.002	0	0
41	MP BETA2	PY	-0.003	-0.003	0	0
42	MP GAMMA2	PY	-0.003	-0.003	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	-0.001	-0.001	0	0
2	GRAT SUP	PY	-0.001	-0.001	0	0
3	GRAT SUP2	PY	-0.001	-0.001	0	0
4	PL1	PY	-0.002	-0.002	0	0
5	SO2	PY	-0.001	-0.001	0	0
6	GRAT SUP3	PY	-0.001	-0.001	0	0
7	GRAT SUP4	PY	-0.001	-0.001	0	0
8	PL2	PY	-0.002	-0.002	0	0
9	SO3	PY	-0.001	-0.001	0	0
10	GRAT SUP5	PY	-0.001	-0.001	0	0
11	GRAT SUP6	PY	-0.001	-0.001	0	0
12	PL3	PY	-0.002	-0.002	0	0
13	FACE1	PY	-0.00088	-0.00088	0	0
14	MP ALPHA1	PY	-0.002	-0.002	0	0
15	MP ALPHA3	PY	-0.002	-0.002	0	0
16	RAIL1	PY	-0.000721	-0.000721	0	0
17	RAIL CON3	PY	-0.002	-0.002	0	0
18	RAIL CON1	PY	-0.002	-0.002	0	0
19	RAIL CON2	PY	-0.002	-0.002	0	0
20	CR1	PY	-0.001	-0.001	0	0
21	CR2	PY	-0.001	-0.001	0	0
22	CR3	PY	-0.001	-0.001	0	0
23	CR4	PY	-0.001	-0.001	0	0
24	CR5	PY	-0.001	-0.001	0	0



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Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
25	CR6	PY	-0.001	-0.001	0	0
26	PL4	PY	-0.001	-0.001	0	0
27	PL5	PY	-0.001	-0.001	0	0
28	PL6	PY	-0.001	-0.001	0	0
29	PL7	PY	-0.001	-0.001	0	0
30	PL8	PY	-0.001	-0.001	0	0
31	PL9	PY	-0.001	-0.001	0	0
32	MP ALPHA2	PY	-0.002	-0.002	0	0
33	FACE3	PY	-0.002	-0.002	0	0
34	MP GAMMA1	PY	-0.002	-0.002	0	0
35	MP GAMMA3	PY	-0.002	-0.002	0	0
36	RAIL3	PY	-0.001	-0.001	0	0
37	FACE2	PY	-0.002	-0.002	0	0
38	MP BETA1	PY	-0.002	-0.002	0	0
39	MP BETA3	PY	-0.002	-0.002	0	0
40	RAIL2	PY	-0.001	-0.001	0	0
41	MP BETA2	PY	-0.002	-0.002	0	0
42	MP GAMMA2	PY	-0.002	-0.002	0	0
43	SO1	PX	-0.000585	-0.000585	0	0
44	GRAT SUP	PX	-0.000638	-0.000638	0	0
45	GRAT SUP2	PX	-0.000638	-0.000638	0	0
46	PL1	PX	-0.001	-0.001	0	0
47	SO2	PX	-0.000585	-0.000585	0	0
48	GRAT SUP3	PX	-0.000638	-0.000638	0	0
49	GRAT SUP4	PX	-0.000638	-0.000638	0	0
50	PL2	PX	-0.001	-0.001	0	0
51	SO3	PX	-0.000585	-0.000585	0	0
52	GRAT SUP5	PX	-0.000638	-0.000638	0	0
53	GRAT SUP6	PX	-0.000638	-0.000638	0	0
54	PL3	PX	-0.001	-0.001	0	0
55	FACE1	PX	-0.000508	-0.000508	0	0
56	MP ALPHA1	PX	-0.001	-0.001	0	0
57	MP ALPHA3	PX	-0.001	-0.001	0	0
58	RAIL1	PX	-0.000416	-0.000416	0	0
59	RAIL CON3	PX	-0.001	-0.001	0	0
60	RAIL CON1	PX	-0.001	-0.001	0	0
61	RAIL CON2	PX	-0.001	-0.001	0	0
62	CR1	PX	-0.000844	-0.000844	0	0
63	CR2	PX	-0.000844	-0.000844	0	0
64	CR3	PX	-0.000844	-0.000844	0	0
65	CR4	PX	-0.000844	-0.000844	0	0
66	CR5	PX	-0.000844	-0.000844	0	0
67	CR6	PX	-0.000844	-0.000844	0	0
68	PL4	PX	-0.000694	-0.000694	0	0
69	PL5	PX	-0.000694	-0.000694	0	0
70	PL6	PX	-0.000694	-0.000694	0	0
71	PL7	PX	-0.000694	-0.000694	0	0
72	PL8	PX	-0.000694	-0.000694	0	0
73	PL9	PX	-0.000694	-0.000694	0	0
74	MP ALPHA2	PX	-0.001	-0.001	0	0
75	FACE3	PX	-0.001	-0.001	0	0
76	MP GAMMA1	PX	-0.001	-0.001	0	0
77	MP GAMMA3	PX	-0.001	-0.001	0	0
78	RAIL3	PX	-0.000833	-0.000833	0	0
79	FACE2	PX	-0.001	-0.001	0	0
80	MP BETA1	PX	-0.001	-0.001	0	0
81	MP BETA3	PX	-0.001	-0.001	0	0



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Member Distributed Loads (BLC 29 : Ice Wind Load (30)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
82	RAIL2	PX	-0.00833	-0.00833	0	0
83	MP BETA2	PX	-0.001	-0.001	0	0
84	MP GAMMA2	PX	-0.001	-0.001	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-0.00585	-0.00585	0	0
2	GRAT SUP	PY	-0.00638	-0.00638	0	0
3	GRAT SUP2	PY	-0.00638	-0.00638	0	0
4	PL1	PY	-0.001	-0.001	0	0
5	SO2	PY	-0.00585	-0.00585	0	0
6	GRAT SUP3	PY	-0.00638	-0.00638	0	0
7	GRAT SUP4	PY	-0.00638	-0.00638	0	0
8	PL2	PY	-0.001	-0.001	0	0
9	SO3	PY	-0.00585	-0.00585	0	0
10	GRAT SUP5	PY	-0.00638	-0.00638	0	0
11	GRAT SUP6	PY	-0.00638	-0.00638	0	0
12	PL3	PY	-0.001	-0.001	0	0
13	FACE1	PY	-0.00508	-0.00508	0	0
14	MP ALPHA1	PY	-0.001	-0.001	0	0
15	MP ALPHA3	PY	-0.001	-0.001	0	0
16	RAIL1	PY	-0.00416	-0.00416	0	0
17	RAIL CON3	PY	-0.001	-0.001	0	0
18	RAIL CON1	PY	-0.001	-0.001	0	0
19	RAIL CON2	PY	-0.001	-0.001	0	0
20	CR1	PY	-0.00844	-0.00844	0	0
21	CR2	PY	-0.00844	-0.00844	0	0
22	CR3	PY	-0.00844	-0.00844	0	0
23	CR4	PY	-0.00844	-0.00844	0	0
24	CR5	PY	-0.00844	-0.00844	0	0
25	CR6	PY	-0.00844	-0.00844	0	0
26	PL4	PY	-0.00694	-0.00694	0	0
27	PL5	PY	-0.00694	-0.00694	0	0
28	PL6	PY	-0.00694	-0.00694	0	0
29	PL7	PY	-0.00694	-0.00694	0	0
30	PL8	PY	-0.00694	-0.00694	0	0
31	PL9	PY	-0.00694	-0.00694	0	0
32	MP ALPHA2	PY	-0.001	-0.001	0	0
33	FACE3	PY	-0.001	-0.001	0	0
34	MP GAMMA1	PY	-0.001	-0.001	0	0
35	MP GAMMA3	PY	-0.001	-0.001	0	0
36	RAIL3	PY	-0.00833	-0.00833	0	0
37	FACE2	PY	-0.001	-0.001	0	0
38	MP BETA1	PY	-0.001	-0.001	0	0
39	MP BETA3	PY	-0.001	-0.001	0	0
40	RAIL2	PY	-0.00833	-0.00833	0	0
41	MP BETA2	PY	-0.001	-0.001	0	0
42	MP GAMMA2	PY	-0.001	-0.001	0	0
43	SO1	PX	-0.001	-0.001	0	0
44	GRAT SUP	PX	-0.001	-0.001	0	0
45	GRAT SUP2	PX	-0.001	-0.001	0	0
46	PL1	PX	-0.002	-0.002	0	0
47	SO2	PX	-0.001	-0.001	0	0
48	GRAT SUP3	PX	-0.001	-0.001	0	0
49	GRAT SUP4	PX	-0.001	-0.001	0	0
50	PL2	PX	-0.002	-0.002	0	0



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Member Distributed Loads (BLC 30 : Ice Wind Load (60)) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
51	SO3	PX	-0.001	-0.001	0	0
52	GRAT SUP5	PX	-0.001	-0.001	0	0
53	GRAT SUP6	PX	-0.001	-0.001	0	0
54	PL3	PX	-0.002	-0.002	0	0
55	FACE1	PX	-0.00088	-0.00088	0	0
56	MP ALPHA1	PX	-0.002	-0.002	0	0
57	MP ALPHA3	PX	-0.002	-0.002	0	0
58	RAIL1	PX	-0.000721	-0.000721	0	0
59	RAIL CON3	PX	-0.002	-0.002	0	0
60	RAIL CON1	PX	-0.002	-0.002	0	0
61	RAIL CON2	PX	-0.002	-0.002	0	0
62	CR1	PX	-0.001	-0.001	0	0
63	CR2	PX	-0.001	-0.001	0	0
64	CR3	PX	-0.001	-0.001	0	0
65	CR4	PX	-0.001	-0.001	0	0
66	CR5	PX	-0.001	-0.001	0	0
67	CR6	PX	-0.001	-0.001	0	0
68	PL4	PX	-0.001	-0.001	0	0
69	PL5	PX	-0.001	-0.001	0	0
70	PL6	PX	-0.001	-0.001	0	0
71	PL7	PX	-0.001	-0.001	0	0
72	PL8	PX	-0.001	-0.001	0	0
73	PL9	PX	-0.001	-0.001	0	0
74	MP ALPHA2	PX	-0.002	-0.002	0	0
75	FACE3	PX	-0.002	-0.002	0	0
76	MP GAMMA1	PX	-0.002	-0.002	0	0
77	MP GAMMA3	PX	-0.002	-0.002	0	0
78	RAIL3	PX	-0.001	-0.001	0	0
79	FACE2	PX	-0.002	-0.002	0	0
80	MP BETA1	PX	-0.002	-0.002	0	0
81	MP BETA3	PX	-0.002	-0.002	0	0
82	RAIL2	PX	-0.001	-0.001	0	0
83	MP BETA2	PX	-0.002	-0.002	0	0
84	MP GAMMA2	PX	-0.002	-0.002	0	0

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

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
1	SO1	PX	-0.001	-0.001	0	0
2	GRAT SUP	PX	-0.001	-0.001	0	0
3	GRAT SUP2	PX	-0.001	-0.001	0	0
4	PL1	PX	-0.003	-0.003	0	0
5	SO2	PX	-0.001	-0.001	0	0
6	GRAT SUP3	PX	-0.001	-0.001	0	0
7	GRAT SUP4	PX	-0.001	-0.001	0	0
8	PL2	PX	-0.003	-0.003	0	0
9	SO3	PX	-0.001	-0.001	0	0
10	GRAT SUP5	PX	-0.001	-0.001	0	0
11	GRAT SUP6	PX	-0.001	-0.001	0	0
12	PL3	PX	-0.003	-0.003	0	0
13	FACE2	PX	-0.001	-0.001	0	0
14	MP ALPHA1	PX	-0.003	-0.003	0	0
15	MP ALPHA3	PX	-0.003	-0.003	0	0
16	RAIL2	PX	-0.000833	-0.000833	0	0
17	RAIL CON3	PX	-0.003	-0.003	0	0
18	RAIL CON1	PX	-0.003	-0.003	0	0
19	RAIL CON2	PX	-0.003	-0.003	0	0



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Member Distributed Loads (BLC 31 : Ice Wind Load (90)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
20	CR1	PX	-0.002	-0.002	0	0
21	CR2	PX	-0.002	-0.002	0	0
22	CR3	PX	-0.002	-0.002	0	0
23	CR4	PX	-0.002	-0.002	0	0
24	CR5	PX	-0.002	-0.002	0	0
25	CR6	PX	-0.002	-0.002	0	0
26	PL4	PX	-0.001	-0.001	0	0
27	PL5	PX	-0.001	-0.001	0	0
28	PL6	PX	-0.001	-0.001	0	0
29	PL7	PX	-0.001	-0.001	0	0
30	PL8	PX	-0.001	-0.001	0	0
31	PL9	PX	-0.001	-0.001	0	0
32	MP ALPHA2	PX	-0.003	-0.003	0	0
33	FACE3	PX	-0.002	-0.002	0	0
34	MP GAMMA1	PX	-0.003	-0.003	0	0
35	MP GAMMA3	PX	-0.003	-0.003	0	0
36	RAIL3	PX	-0.002	-0.002	0	0
37	FACE1	PX	-0.002	-0.002	0	0
38	MP BETA1	PX	-0.003	-0.003	0	0
39	MP BETA3	PX	-0.003	-0.003	0	0
40	RAIL1	PX	-0.002	-0.002	0	0
41	MP BETA2	PX	-0.003	-0.003	0	0
42	MP GAMMA2	PX	-0.003	-0.003	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000585	.000585	0	0
2	GRAT SUP	PY	.000638	.000638	0	0
3	GRAT SUP2	PY	.000638	.000638	0	0
4	PL1	PY	.001	.001	0	0
5	SO2	PY	.000585	.000585	0	0
6	GRAT SUP3	PY	.000638	.000638	0	0
7	GRAT SUP4	PY	.000638	.000638	0	0
8	PL2	PY	.001	.001	0	0
9	SO3	PY	.000585	.000585	0	0
10	GRAT SUP5	PY	.000638	.000638	0	0
11	GRAT SUP6	PY	.000638	.000638	0	0
12	PL3	PY	.001	.001	0	0
13	FACE2	PY	.000508	.000508	0	0
14	MP ALPHA1	PY	.001	.001	0	0
15	MP ALPHA3	PY	.001	.001	0	0
16	RAIL2	PY	.000416	.000416	0	0
17	RAIL CON3	PY	.001	.001	0	0
18	RAIL CON1	PY	.001	.001	0	0
19	RAIL CON2	PY	.001	.001	0	0
20	CR1	PY	.000844	.000844	0	0
21	CR2	PY	.000844	.000844	0	0
22	CR3	PY	.000844	.000844	0	0
23	CR4	PY	.000844	.000844	0	0
24	CR5	PY	.000844	.000844	0	0
25	CR6	PY	.000844	.000844	0	0
26	PL4	PY	.000694	.000694	0	0
27	PL5	PY	.000694	.000694	0	0
28	PL6	PY	.000694	.000694	0	0
29	PL7	PY	.000694	.000694	0	0
30	PL8	PY	.000694	.000694	0	0



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Member Distributed Loads (BLC 32 : Ice Wind Load (120)) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
31	PL9	PY	.000694	.000694	0	0
32	MP ALPHA2	PY	.001	.001	0	0
33	FACE3	PY	.001	.001	0	0
34	MP GAMMA1	PY	.001	.001	0	0
35	MP GAMMA3	PY	.001	.001	0	0
36	RAIL3	PY	.000833	.000833	0	0
37	FACE1	PY	.001	.001	0	0
38	MP BETA1	PY	.001	.001	0	0
39	MP BETA3	PY	.001	.001	0	0
40	RAIL1	PY	.000833	.000833	0	0
41	MP BETA2	PY	.001	.001	0	0
42	MP GAMMA2	PY	.001	.001	0	0
43	SO1	PX	-.001	-.001	0	0
44	GRAT SUP	PX	-.001	-.001	0	0
45	GRAT SUP2	PX	-.001	-.001	0	0
46	PL1	PX	-.002	-.002	0	0
47	SO2	PX	-.001	-.001	0	0
48	GRAT SUP3	PX	-.001	-.001	0	0
49	GRAT SUP4	PX	-.001	-.001	0	0
50	PL2	PX	-.002	-.002	0	0
51	SO3	PX	-.001	-.001	0	0
52	GRAT SUP5	PX	-.001	-.001	0	0
53	GRAT SUP6	PX	-.001	-.001	0	0
54	PL3	PX	-.002	-.002	0	0
55	FACE2	PX	-.00088	-.00088	0	0
56	MP ALPHA1	PX	-.002	-.002	0	0
57	MP ALPHA3	PX	-.002	-.002	0	0
58	RAIL2	PX	-.000721	-.000721	0	0
59	RAIL CON3	PX	-.002	-.002	0	0
60	RAIL CON1	PX	-.002	-.002	0	0
61	RAIL CON2	PX	-.002	-.002	0	0
62	CR1	PX	-.001	-.001	0	0
63	CR2	PX	-.001	-.001	0	0
64	CR3	PX	-.001	-.001	0	0
65	CR4	PX	-.001	-.001	0	0
66	CR5	PX	-.001	-.001	0	0
67	CR6	PX	-.001	-.001	0	0
68	PL4	PX	-.001	-.001	0	0
69	PL5	PX	-.001	-.001	0	0
70	PL6	PX	-.001	-.001	0	0
71	PL7	PX	-.001	-.001	0	0
72	PL8	PX	-.001	-.001	0	0
73	PL9	PX	-.001	-.001	0	0
74	MP ALPHA2	PX	-.002	-.002	0	0
75	FACE3	PX	-.002	-.002	0	0
76	MP GAMMA1	PX	-.002	-.002	0	0
77	MP GAMMA3	PX	-.002	-.002	0	0
78	RAIL3	PX	-.001	-.001	0	0
79	FACE1	PX	-.002	-.002	0	0
80	MP BETA1	PX	-.002	-.002	0	0
81	MP BETA3	PX	-.002	-.002	0	0
82	RAIL1	PX	-.001	-.001	0	0
83	MP BETA2	PX	-.002	-.002	0	0
84	MP GAMMA2	PX	-.002	-.002	0	0

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

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
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Member Distributed Loads (BLC 33 : Ice Wind Load (150)) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
1	SO1	PY	.001	.001	0	0
2	GRAT SUP	PY	.001	.001	0	0
3	GRAT SUP2	PY	.001	.001	0	0
4	PL1	PY	.002	.002	0	0
5	SO2	PY	.001	.001	0	0
6	GRAT SUP3	PY	.001	.001	0	0
7	GRAT SUP4	PY	.001	.001	0	0
8	PL2	PY	.002	.002	0	0
9	SO3	PY	.001	.001	0	0
10	GRAT SUP5	PY	.001	.001	0	0
11	GRAT SUP6	PY	.001	.001	0	0
12	PL3	PY	.002	.002	0	0
13	FACE2	PY	.00088	.00088	0	0
14	MP ALPHA1	PY	.002	.002	0	0
15	MP ALPHA3	PY	.002	.002	0	0
16	RAIL2	PY	.000721	.000721	0	0
17	RAIL CON3	PY	.002	.002	0	0
18	RAIL CON1	PY	.002	.002	0	0
19	RAIL CON2	PY	.002	.002	0	0
20	CR1	PY	.001	.001	0	0
21	CR2	PY	.001	.001	0	0
22	CR3	PY	.001	.001	0	0
23	CR4	PY	.001	.001	0	0
24	CR5	PY	.001	.001	0	0
25	CR6	PY	.001	.001	0	0
26	PL4	PY	.001	.001	0	0
27	PL5	PY	.001	.001	0	0
28	PL6	PY	.001	.001	0	0
29	PL7	PY	.001	.001	0	0
30	PL8	PY	.001	.001	0	0
31	PL9	PY	.001	.001	0	0
32	MP ALPHA2	PY	.002	.002	0	0
33	FACE3	PY	.002	.002	0	0
34	MP GAMMA1	PY	.002	.002	0	0
35	MP GAMMA3	PY	.002	.002	0	0
36	RAIL3	PY	.001	.001	0	0
37	FACE1	PY	.002	.002	0	0
38	MP BETA1	PY	.002	.002	0	0
39	MP BETA3	PY	.002	.002	0	0
40	RAIL1	PY	.001	.001	0	0
41	MP BETA2	PY	.002	.002	0	0
42	MP GAMMA2	PY	.002	.002	0	0
43	SO1	PX	-.000585	-.000585	0	0
44	GRAT SUP	PX	-.000638	-.000638	0	0
45	GRAT SUP2	PX	-.000638	-.000638	0	0
46	PL1	PX	-.001	-.001	0	0
47	SO2	PX	-.000585	-.000585	0	0
48	GRAT SUP3	PX	-.000638	-.000638	0	0
49	GRAT SUP4	PX	-.000638	-.000638	0	0
50	PL2	PX	-.001	-.001	0	0
51	SO3	PX	-.000585	-.000585	0	0
52	GRAT SUP5	PX	-.000638	-.000638	0	0
53	GRAT SUP6	PX	-.000638	-.000638	0	0
54	PL3	PX	-.001	-.001	0	0
55	FACE2	PX	-.000508	-.000508	0	0
56	MP ALPHA1	PX	-.001	-.001	0	0
57	MP ALPHA3	PX	-.001	-.001	0	0



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

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]	
58	RAIL2	PX	-.000416	-.000416	0	0
59	RAIL CON3	PX	-.001	-.001	0	0
60	RAIL CON1	PX	-.001	-.001	0	0
61	RAIL CON2	PX	-.001	-.001	0	0
62	CR1	PX	-.000844	-.000844	0	0
63	CR2	PX	-.000844	-.000844	0	0
64	CR3	PX	-.000844	-.000844	0	0
65	CR4	PX	-.000844	-.000844	0	0
66	CR5	PX	-.000844	-.000844	0	0
67	CR6	PX	-.000844	-.000844	0	0
68	PL4	PX	-.000694	-.000694	0	0
69	PL5	PX	-.000694	-.000694	0	0
70	PL6	PX	-.000694	-.000694	0	0
71	PL7	PX	-.000694	-.000694	0	0
72	PL8	PX	-.000694	-.000694	0	0
73	PL9	PX	-.000694	-.000694	0	0
74	MP ALPHA2	PX	-.001	-.001	0	0
75	FACE3	PX	-.001	-.001	0	0
76	MP GAMMA1	PX	-.001	-.001	0	0
77	MP GAMMA3	PX	-.001	-.001	0	0
78	RAIL3	PX	-.000833	-.000833	0	0
79	FACE1	PX	-.001	-.001	0	0
80	MP BETA1	PX	-.001	-.001	0	0
81	MP BETA3	PX	-.001	-.001	0	0
82	RAIL1	PX	-.000833	-.000833	0	0
83	MP BETA2	PX	-.001	-.001	0	0
84	MP GAMMA2	PX	-.001	-.001	0	0

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

Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]	
1	SO1	PY	.001	.001	0	0
2	GRAT SUP	PY	.001	.001	0	0
3	GRAT SUP2	PY	.001	.001	0	0
4	PL1	PY	.003	.003	0	0
5	SO2	PY	.001	.001	0	0
6	GRAT SUP3	PY	.001	.001	0	0
7	GRAT SUP4	PY	.001	.001	0	0
8	PL2	PY	.003	.003	0	0
9	SO3	PY	.001	.001	0	0
10	GRAT SUP5	PY	.001	.001	0	0
11	GRAT SUP6	PY	.001	.001	0	0
12	PL3	PY	.003	.003	0	0
13	FACE2	PY	.001	.001	0	0
14	MP ALPHA1	PY	.003	.003	0	0
15	MP ALPHA3	PY	.003	.003	0	0
16	RAIL2	PY	.000833	.000833	0	0
17	RAIL CON3	PY	.003	.003	0	0
18	RAIL CON1	PY	.003	.003	0	0
19	RAIL CON2	PY	.003	.003	0	0
20	CR1	PY	.002	.002	0	0
21	CR2	PY	.002	.002	0	0
22	CR3	PY	.002	.002	0	0
23	CR4	PY	.002	.002	0	0
24	CR5	PY	.002	.002	0	0
25	CR6	PY	.002	.002	0	0
26	PL4	PY	.001	.001	0	0



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Member Distributed Loads (BLC 34 : Ice Wind Load (180)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
27	PL5	PY	.001	.001	0	0
28	PL6	PY	.001	.001	0	0
29	PL7	PY	.001	.001	0	0
30	PL8	PY	.001	.001	0	0
31	PL9	PY	.001	.001	0	0
32	MP ALPHA2	PY	.003	.003	0	0
33	FACE3	PY	.002	.002	0	0
34	MP GAMMA1	PY	.003	.003	0	0
35	MP GAMMA3	PY	.003	.003	0	0
36	RAIL3	PY	.002	.002	0	0
37	FACE1	PY	.002	.002	0	0
38	MP BETA1	PY	.003	.003	0	0
39	MP BETA3	PY	.003	.003	0	0
40	RAIL1	PY	.002	.002	0	0
41	MP BETA2	PY	.003	.003	0	0
42	MP GAMMA2	PY	.003	.003	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PY	.001	.001	0	0
2	GRAT SUP	PY	.001	.001	0	0
3	GRAT SUP2	PY	.001	.001	0	0
4	PL1	PY	.002	.002	0	0
5	SO2	PY	.001	.001	0	0
6	GRAT SUP3	PY	.001	.001	0	0
7	GRAT SUP4	PY	.001	.001	0	0
8	PL2	PY	.002	.002	0	0
9	SO3	PY	.001	.001	0	0
10	GRAT SUP5	PY	.001	.001	0	0
11	GRAT SUP6	PY	.001	.001	0	0
12	PL3	PY	.002	.002	0	0
13	FACE3	PY	.00088	.00088	0	0
14	MP ALPHA1	PY	.002	.002	0	0
15	MP ALPHA3	PY	.002	.002	0	0
16	RAIL3	PY	.000721	.000721	0	0
17	RAIL CON3	PY	.002	.002	0	0
18	RAIL CON1	PY	.002	.002	0	0
19	RAIL CON2	PY	.002	.002	0	0
20	CR1	PY	.001	.001	0	0
21	CR2	PY	.001	.001	0	0
22	CR3	PY	.001	.001	0	0
23	CR4	PY	.001	.001	0	0
24	CR5	PY	.001	.001	0	0
25	CR6	PY	.001	.001	0	0
26	PL4	PY	.001	.001	0	0
27	PL5	PY	.001	.001	0	0
28	PL6	PY	.001	.001	0	0
29	PL7	PY	.001	.001	0	0
30	PL8	PY	.001	.001	0	0
31	PL9	PY	.001	.001	0	0
32	MP ALPHA2	PY	.002	.002	0	0
33	FACE1	PY	.002	.002	0	0
34	MP GAMMA1	PY	.002	.002	0	0
35	MP GAMMA3	PY	.002	.002	0	0
36	RAIL1	PY	.001	.001	0	0
37	FACE2	PY	.002	.002	0	0



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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
38	MP BETA1	PY	.002	.002	0	0
39	MP BETA3	PY	.002	.002	0	0
40	RAIL2	PY	.001	.001	0	0
41	MP BETA2	PY	.002	.002	0	0
42	MP GAMMA2	PY	.002	.002	0	0
43	SO1	PX	.000585	.000585	0	0
44	GRAT SUP	PX	.000638	.000638	0	0
45	GRAT SUP2	PX	.000638	.000638	0	0
46	PL1	PX	.001	.001	0	0
47	SO2	PX	.000585	.000585	0	0
48	GRAT SUP3	PX	.000638	.000638	0	0
49	GRAT SUP4	PX	.000638	.000638	0	0
50	PL2	PX	.001	.001	0	0
51	SO3	PX	.000585	.000585	0	0
52	GRAT SUP5	PX	.000638	.000638	0	0
53	GRAT SUP6	PX	.000638	.000638	0	0
54	PL3	PX	.001	.001	0	0
55	FACE3	PX	.000508	.000508	0	0
56	MP ALPHA1	PX	.001	.001	0	0
57	MP ALPHA3	PX	.001	.001	0	0
58	RAIL3	PX	.000416	.000416	0	0
59	RAIL CON3	PX	.001	.001	0	0
60	RAIL CON1	PX	.001	.001	0	0
61	RAIL CON2	PX	.001	.001	0	0
62	CR1	PX	.000844	.000844	0	0
63	CR2	PX	.000844	.000844	0	0
64	CR3	PX	.000844	.000844	0	0
65	CR4	PX	.000844	.000844	0	0
66	CR5	PX	.000844	.000844	0	0
67	CR6	PX	.000844	.000844	0	0
68	PL4	PX	.000694	.000694	0	0
69	PL5	PX	.000694	.000694	0	0
70	PL6	PX	.000694	.000694	0	0
71	PL7	PX	.000694	.000694	0	0
72	PL8	PX	.000694	.000694	0	0
73	PL9	PX	.000694	.000694	0	0
74	MP ALPHA2	PX	.001	.001	0	0
75	FACE1	PX	.001	.001	0	0
76	MP GAMMA1	PX	.001	.001	0	0
77	MP GAMMA3	PX	.001	.001	0	0
78	RAIL1	PX	.000833	.000833	0	0
79	FACE2	PX	.001	.001	0	0
80	MP BETA1	PX	.001	.001	0	0
81	MP BETA3	PX	.001	.001	0	0
82	RAIL2	PX	.000833	.000833	0	0
83	MP BETA2	PX	.001	.001	0	0
84	MP GAMMA2	PX	.001	.001	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	.000585	.000585	0	0
2	GRAT SUP	PY	.000638	.000638	0	0
3	GRAT SUP2	PY	.000638	.000638	0	0
4	PL1	PY	.001	.001	0	0
5	SO2	PY	.000585	.000585	0	0
6	GRAT SUP3	PY	.000638	.000638	0	0



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Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
7	GRAT SUP4	PY	.000638	.000638	0	0
8	PL2	PY	.001	.001	0	0
9	SO3	PY	.000585	.000585	0	0
10	GRAT SUP5	PY	.000638	.000638	0	0
11	GRAT SUP6	PY	.000638	.000638	0	0
12	PL3	PY	.001	.001	0	0
13	FACE3	PY	.000508	.000508	0	0
14	MP ALPHA1	PY	.001	.001	0	0
15	MP ALPHA3	PY	.001	.001	0	0
16	RAIL3	PY	.000416	.000416	0	0
17	RAIL CON3	PY	.001	.001	0	0
18	RAIL CON1	PY	.001	.001	0	0
19	RAIL CON2	PY	.001	.001	0	0
20	CR1	PY	.000844	.000844	0	0
21	CR2	PY	.000844	.000844	0	0
22	CR3	PY	.000844	.000844	0	0
23	CR4	PY	.000844	.000844	0	0
24	CR5	PY	.000844	.000844	0	0
25	CR6	PY	.000844	.000844	0	0
26	PL4	PY	.000694	.000694	0	0
27	PL5	PY	.000694	.000694	0	0
28	PL6	PY	.000694	.000694	0	0
29	PL7	PY	.000694	.000694	0	0
30	PL8	PY	.000694	.000694	0	0
31	PL9	PY	.000694	.000694	0	0
32	MP ALPHA2	PY	.001	.001	0	0
33	FACE1	PY	.001	.001	0	0
34	MP GAMMA1	PY	.001	.001	0	0
35	MP GAMMA3	PY	.001	.001	0	0
36	RAIL1	PY	.000833	.000833	0	0
37	FACE2	PY	.001	.001	0	0
38	MP BETA1	PY	.001	.001	0	0
39	MP BETA3	PY	.001	.001	0	0
40	RAIL2	PY	.000833	.000833	0	0
41	MP BETA2	PY	.001	.001	0	0
42	MP GAMMA2	PY	.001	.001	0	0
43	SO1	PX	.001	.001	0	0
44	GRAT SUP	PX	.001	.001	0	0
45	GRAT SUP2	PX	.001	.001	0	0
46	PL1	PX	.002	.002	0	0
47	SO2	PX	.001	.001	0	0
48	GRAT SUP3	PX	.001	.001	0	0
49	GRAT SUP4	PX	.001	.001	0	0
50	PL2	PX	.002	.002	0	0
51	SO3	PX	.001	.001	0	0
52	GRAT SUP5	PX	.001	.001	0	0
53	GRAT SUP6	PX	.001	.001	0	0
54	PL3	PX	.002	.002	0	0
55	FACE3	PX	.00088	.00088	0	0
56	MP ALPHA1	PX	.002	.002	0	0
57	MP ALPHA3	PX	.002	.002	0	0
58	RAIL3	PX	.000721	.000721	0	0
59	RAIL CON3	PX	.002	.002	0	0
60	RAIL CON1	PX	.002	.002	0	0
61	RAIL CON2	PX	.002	.002	0	0
62	CR1	PX	.001	.001	0	0
63	CR2	PX	.001	.001	0	0



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Member Distributed Loads (BLC 36 : Ice Wind Load (240)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
64	CR3	PX	.001	.001	0	0
65	CR4	PX	.001	.001	0	0
66	CR5	PX	.001	.001	0	0
67	CR6	PX	.001	.001	0	0
68	PL4	PX	.001	.001	0	0
69	PL5	PX	.001	.001	0	0
70	PL6	PX	.001	.001	0	0
71	PL7	PX	.001	.001	0	0
72	PL8	PX	.001	.001	0	0
73	PL9	PX	.001	.001	0	0
74	MP ALPHA2	PX	.002	.002	0	0
75	FACE1	PX	.002	.002	0	0
76	MP GAMMA1	PX	.002	.002	0	0
77	MP GAMMA3	PX	.002	.002	0	0
78	RAIL1	PX	.001	.001	0	0
79	FACE2	PX	.002	.002	0	0
80	MP BETA1	PX	.002	.002	0	0
81	MP BETA3	PX	.002	.002	0	0
82	RAIL2	PX	.001	.001	0	0
83	MP BETA2	PX	.002	.002	0	0
84	MP GAMMA2	PX	.002	.002	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]
1	SO1	PX	.001	.001	0	0
2	GRAT SUP	PX	.001	.001	0	0
3	GRAT SUP2	PX	.001	.001	0	0
4	PL1	PX	.003	.003	0	0
5	SO2	PX	.001	.001	0	0
6	GRAT SUP3	PX	.001	.001	0	0
7	GRAT SUP4	PX	.001	.001	0	0
8	PL2	PX	.003	.003	0	0
9	SO3	PX	.001	.001	0	0
10	GRAT SUP5	PX	.001	.001	0	0
11	GRAT SUP6	PX	.001	.001	0	0
12	PL3	PX	.003	.003	0	0
13	FACE3	PX	.001	.001	0	0
14	MP ALPHA1	PX	.003	.003	0	0
15	MP ALPHA3	PX	.003	.003	0	0
16	RAIL3	PX	.000833	.000833	0	0
17	RAIL CON3	PX	.003	.003	0	0
18	RAIL CON1	PX	.003	.003	0	0
19	RAIL CON2	PX	.003	.003	0	0
20	CR1	PX	.002	.002	0	0
21	CR2	PX	.002	.002	0	0
22	CR3	PX	.002	.002	0	0
23	CR4	PX	.002	.002	0	0
24	CR5	PX	.002	.002	0	0
25	CR6	PX	.002	.002	0	0
26	PL4	PX	.001	.001	0	0
27	PL5	PX	.001	.001	0	0
28	PL6	PX	.001	.001	0	0
29	PL7	PX	.001	.001	0	0
30	PL8	PX	.001	.001	0	0
31	PL9	PX	.001	.001	0	0
32	MP ALPHA2	PX	.003	.003	0	0



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Member Distributed Loads (BLC 37 : Ice Wind Load (270)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
33	FACE1	PX	.002	.002	0	0
34	MP GAMMA1	PX	.003	.003	0	0
35	MP GAMMA3	PX	.003	.003	0	0
36	RAIL1	PX	.002	.002	0	0
37	FACE2	PX	.002	.002	0	0
38	MP BETA1	PX	.003	.003	0	0
39	MP BETA3	PX	.003	.003	0	0
40	RAIL2	PX	.002	.002	0	0
41	MP BETA2	PX	.003	.003	0	0
42	MP GAMMA2	PX	.003	.003	0	0

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

	Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%,]	End Location[ft.%,]
1	SO1	PY	-.000585	-.000585	0	0
2	GRAT SUP	PY	-.000638	-.000638	0	0
3	GRAT SUP2	PY	-.000638	-.000638	0	0
4	PL1	PY	-.001	-.001	0	0
5	SO2	PY	-.000585	-.000585	0	0
6	GRAT SUP3	PY	-.000638	-.000638	0	0
7	GRAT SUP4	PY	-.000638	-.000638	0	0
8	PL2	PY	-.001	-.001	0	0
9	SO3	PY	-.000585	-.000585	0	0
10	GRAT SUP5	PY	-.000638	-.000638	0	0
11	GRAT SUP6	PY	-.000638	-.000638	0	0
12	PL3	PY	-.001	-.001	0	0
13	FACE3	PY	-.000508	-.000508	0	0
14	MP ALPHA1	PY	-.001	-.001	0	0
15	MP ALPHA3	PY	-.001	-.001	0	0
16	RAIL3	PY	-.000416	-.000416	0	0
17	RAIL CON3	PY	-.001	-.001	0	0
18	RAIL CON1	PY	-.001	-.001	0	0
19	RAIL CON2	PY	-.001	-.001	0	0
20	CR1	PY	-.000844	-.000844	0	0
21	CR2	PY	-.000844	-.000844	0	0
22	CR3	PY	-.000844	-.000844	0	0
23	CR4	PY	-.000844	-.000844	0	0
24	CR5	PY	-.000844	-.000844	0	0
25	CR6	PY	-.000844	-.000844	0	0
26	PL4	PY	-.000694	-.000694	0	0
27	PL5	PY	-.000694	-.000694	0	0
28	PL6	PY	-.000694	-.000694	0	0
29	PL7	PY	-.000694	-.000694	0	0
30	PL8	PY	-.000694	-.000694	0	0
31	PL9	PY	-.000694	-.000694	0	0
32	MP ALPHA2	PY	-.001	-.001	0	0
33	FACE1	PY	-.001	-.001	0	0
34	MP GAMMA1	PY	-.001	-.001	0	0
35	MP GAMMA3	PY	-.001	-.001	0	0
36	RAIL1	PY	-.000833	-.000833	0	0
37	FACE2	PY	-.001	-.001	0	0
38	MP BETA1	PY	-.001	-.001	0	0
39	MP BETA3	PY	-.001	-.001	0	0
40	RAIL2	PY	-.000833	-.000833	0	0
41	MP BETA2	PY	-.001	-.001	0	0
42	MP GAMMA2	PY	-.001	-.001	0	0
43	SO1	PX	.001	.001	0	0



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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
44	GRAT SUP	PX	.001	.001	0	0
45	GRAT SUP2	PX	.001	.001	0	0
46	PL1	PX	.002	.002	0	0
47	SO2	PX	.001	.001	0	0
48	GRAT SUP3	PX	.001	.001	0	0
49	GRAT SUP4	PX	.001	.001	0	0
50	PL2	PX	.002	.002	0	0
51	SO3	PX	.001	.001	0	0
52	GRAT SUP5	PX	.001	.001	0	0
53	GRAT SUP6	PX	.001	.001	0	0
54	PL3	PX	.002	.002	0	0
55	FACE3	PX	.00088	.00088	0	0
56	MP ALPHA1	PX	.002	.002	0	0
57	MP ALPHA3	PX	.002	.002	0	0
58	RAIL3	PX	.000721	.000721	0	0
59	RAIL CON3	PX	.002	.002	0	0
60	RAIL CON1	PX	.002	.002	0	0
61	RAIL CON2	PX	.002	.002	0	0
62	CR1	PX	.001	.001	0	0
63	CR2	PX	.001	.001	0	0
64	CR3	PX	.001	.001	0	0
65	CR4	PX	.001	.001	0	0
66	CR5	PX	.001	.001	0	0
67	CR6	PX	.001	.001	0	0
68	PL4	PX	.001	.001	0	0
69	PL5	PX	.001	.001	0	0
70	PL6	PX	.001	.001	0	0
71	PL7	PX	.001	.001	0	0
72	PL8	PX	.001	.001	0	0
73	PL9	PX	.001	.001	0	0
74	MP ALPHA2	PX	.002	.002	0	0
75	FACE1	PX	.002	.002	0	0
76	MP GAMMA1	PX	.002	.002	0	0
77	MP GAMMA3	PX	.002	.002	0	0
78	RAIL1	PX	.001	.001	0	0
79	FACE2	PX	.002	.002	0	0
80	MP BETA1	PX	.002	.002	0	0
81	MP BETA3	PX	.002	.002	0	0
82	RAIL2	PX	.001	.001	0	0
83	MP BETA2	PX	.002	.002	0	0
84	MP GAMMA2	PX	.002	.002	0	0

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

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO1	PY	-.001	-.001	0	0
2	GRAT SUP	PY	-.001	-.001	0	0
3	GRAT SUP2	PY	-.001	-.001	0	0
4	PL1	PY	-.002	-.002	0	0
5	SO2	PY	-.001	-.001	0	0
6	GRAT SUP3	PY	-.001	-.001	0	0
7	GRAT SUP4	PY	-.001	-.001	0	0
8	PL2	PY	-.002	-.002	0	0
9	SO3	PY	-.001	-.001	0	0
10	GRAT SUP5	PY	-.001	-.001	0	0
11	GRAT SUP6	PY	-.001	-.001	0	0
12	PL3	PY	-.002	-.002	0	0



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Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

Member Label	Direction	Start Magnitude[k/ft....	End Magnitude[k/ft.F....	Start Location[ft.%]	End Location[ft.%]	
13	FACE1	PY	-0.0088	-0.0088	0	0
14	MP ALPHA1	PY	-0.002	-0.002	0	0
15	MP ALPHA3	PY	-0.002	-0.002	0	0
16	RAIL1	PY	-0.00721	-0.00721	0	0
17	RAIL CON3	PY	-0.002	-0.002	0	0
18	RAIL CON1	PY	-0.002	-0.002	0	0
19	RAIL CON2	PY	-0.002	-0.002	0	0
20	CR1	PY	-0.001	-0.001	0	0
21	CR2	PY	-0.001	-0.001	0	0
22	CR3	PY	-0.001	-0.001	0	0
23	CR4	PY	-0.001	-0.001	0	0
24	CR5	PY	-0.001	-0.001	0	0
25	CR6	PY	-0.001	-0.001	0	0
26	PL4	PY	-0.001	-0.001	0	0
27	PL5	PY	-0.001	-0.001	0	0
28	PL6	PY	-0.001	-0.001	0	0
29	PL7	PY	-0.001	-0.001	0	0
30	PL8	PY	-0.001	-0.001	0	0
31	PL9	PY	-0.001	-0.001	0	0
32	MP ALPHA2	PY	-0.002	-0.002	0	0
33	FACE3	PY	-0.002	-0.002	0	0
34	MP GAMMA1	PY	-0.002	-0.002	0	0
35	MP GAMMA3	PY	-0.002	-0.002	0	0
36	RAIL3	PY	-0.001	-0.001	0	0
37	FACE2	PY	-0.002	-0.002	0	0
38	MP BETA1	PY	-0.002	-0.002	0	0
39	MP BETA3	PY	-0.002	-0.002	0	0
40	RAIL2	PY	-0.001	-0.001	0	0
41	MP BETA2	PY	-0.002	-0.002	0	0
42	MP GAMMA2	PY	-0.002	-0.002	0	0
43	SO1	PX	.000585	.000585	0	0
44	GRAT SUP	PX	.000638	.000638	0	0
45	GRAT SUP2	PX	.000638	.000638	0	0
46	PL1	PX	.001	.001	0	0
47	SO2	PX	.000585	.000585	0	0
48	GRAT SUP3	PX	.000638	.000638	0	0
49	GRAT SUP4	PX	.000638	.000638	0	0
50	PL2	PX	.001	.001	0	0
51	SO3	PX	.000585	.000585	0	0
52	GRAT SUP5	PX	.000638	.000638	0	0
53	GRAT SUP6	PX	.000638	.000638	0	0
54	PL3	PX	.001	.001	0	0
55	FACE1	PX	.000508	.000508	0	0
56	MP ALPHA1	PX	.001	.001	0	0
57	MP ALPHA3	PX	.001	.001	0	0
58	RAIL1	PX	.000416	.000416	0	0
59	RAIL CON3	PX	.001	.001	0	0
60	RAIL CON1	PX	.001	.001	0	0
61	RAIL CON2	PX	.001	.001	0	0
62	CR1	PX	.000844	.000844	0	0
63	CR2	PX	.000844	.000844	0	0
64	CR3	PX	.000844	.000844	0	0
65	CR4	PX	.000844	.000844	0	0
66	CR5	PX	.000844	.000844	0	0
67	CR6	PX	.000844	.000844	0	0
68	PL4	PX	.000694	.000694	0	0
69	PL5	PX	.000694	.000694	0	0

Member Distributed Loads (BLC 39 : Ice Wind Load (330)) (Continued)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
70	PL6	PX	.000694	.000694	0	0
71	PL7	PX	.000694	.000694	0	0
72	PL8	PX	.000694	.000694	0	0
73	PL9	PX	.000694	.000694	0	0
74	MP ALPHA2	PX	.001	.001	0	0
75	FACE3	PX	.001	.001	0	0
76	MP GAMMA1	PX	.001	.001	0	0
77	MP GAMMA3	PX	.001	.001	0	0
78	RAIL3	PX	.000833	.000833	0	0
79	FACE2	PX	.001	.001	0	0
80	MP BETA1	PX	.001	.001	0	0
81	MP BETA3	PX	.001	.001	0	0
82	RAIL2	PX	.000833	.000833	0	0
83	MP BETA2	PX	.001	.001	0	0
84	MP GAMMA2	PX	.001	.001	0	0

Member Distributed Loads (BLC 43 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO2	Z	-1.82e-5	-1.82e-5	0	1.966
2	GRAT SUP3	Z	-9.173e-6	-9.173e-6	.319	2.275
3	GRAT SUP4	Z	-9.173e-6	-9.173e-6	.319	2.275
4	SO3	Z	-1.82e-5	-1.82e-5	0	1.966
5	GRAT SUP5	Z	-9.173e-6	-9.173e-6	.319	2.275
6	GRAT SUP6	Z	-9.173e-6	-9.173e-6	.319	2.275
7	SO1	Z	-1.82e-5	-1.82e-5	0	1.966
8	GRAT SUP	Z	-9.173e-6	-9.173e-6	.319	2.275
9	GRAT SUP2	Z	-9.173e-6	-9.173e-6	.319	2.275

Member Distributed Loads (BLC 44 : BLC 27 Transient Area Loads)

	Member Label	Direction	Start Magnitude[k/ft,...	End Magnitude[k/ft.F,...	Start Location[ft, %]	End Location[ft, %]
1	SO2	Z	-2.548e-5	-2.548e-5	0	1.966
2	GRAT SUP3	Z	-1.284e-5	-1.284e-5	.319	2.275
3	GRAT SUP4	Z	-1.284e-5	-1.284e-5	.319	2.275
4	SO3	Z	-2.548e-5	-2.548e-5	0	1.966
5	GRAT SUP5	Z	-1.284e-5	-1.284e-5	.319	2.275
6	GRAT SUP6	Z	-1.284e-5	-1.284e-5	.319	2.275
7	SO1	Z	-2.548e-5	-2.548e-5	0	1.966
8	GRAT SUP	Z	-1.284e-5	-1.284e-5	.319	2.275
9	GRAT SUP2	Z	-1.284e-5	-1.284e-5	.319	2.275

Member Area Loads (BLC 3 : Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	P22	P21	P20	P23	Z	Two Way	-.01
2	P31	P34	P33	P32	Z	Two Way	-.01
3	P9	P12	P11	P10	Z	Two Way	-.01

Member Area Loads (BLC 27 : Ice Dead Load)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[psf]
1	P22	P21	P20	P23	Z	Two Way	-.014
2	P31	P34	P33	P32	Z	Two Way	-.014
3	P9	P12	P11	P10	Z	Two Way	-.014

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	.559	8	.92	5	1.476	33	-.183	17	-.346	14	1.197	5
2		min	-.563	26	-.926	23	.336	14	-1.562	36	-2.688	33	-1.223	23
3	P13	max	.563	14	.92	35	1.536	10	-.183	23	2.851	10	1.223	17
4		min	-.563	32	-.926	17	.336	26	-2.608	7	.346	26	-1.197	35
5	P1	max	.946	11	.309	2	1.381	21	2.841	21	.269	11	1.027	29
6		min	-.946	29	-.298	20	.27	2	.225	2	-.269	29	-1.027	11
7	Totals:	max	1.822	11	1.906	2	4.048	36						
8		min	-1.822	29	-1.926	20	2.083	20						

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	Maintenance (0)	DL					13	42	
16	Maintenance (30)	DL					26	84	
17	Maintenance (60)	DL					26	84	
18	Maintenance (90)	DL					13	42	
19	Maintenance (120)	DL					26	84	
20	Maintenance (150)	DL					26	84	
21	Maintenance (180)	DL					13	42	
22	Maintenance (210)	DL					26	84	
23	Maintenance (240)	DL					26	84	
24	Maintenance (270)	DL					13	42	
25	Maintenance (300)	DL					26	84	
26	Maintenance (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-directio...	DL	-.107				13		
41	Earthquake (y-directio...	DL		-.107			13		
42	Earthquake (z-directio...	DL			-.043		13		
43	BLC 3 Transient Area...	None						9	



Company : POD
 Designer : BL
 Job Number : 21-113668
 Model Name : 828540

Nov 2, 2021
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Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
44	BLC 27 Transient Are...	None						9	

Load Combinations

	Description	Solve	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
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 + 1.0Wi(0)	Yes	Y		3	1.2	27	1	28	1														
4	1.2D + 1.5L + 1.0Wi(0)	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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	29	1														
7	1.2D + 1.5L + 1.0Wi(3...	Yes	Y		3	1.2	1	1.5	16	1														
8	1.2D + 1.0W(60)	Yes	Y		3	1.2	5	1																
9	1.2D + 1.0Di + 1.0Wi(...)	Yes	Y		3	1.2	27	1	30	1														
10	1.2D + 1.5L + 1.0Wi(6...	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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	31	1														
13	1.2D + 1.5L + 1.0Wi(9...	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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	32	1														
16	1.2D + 1.5L + 1.0Wi(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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	33	1														
19	1.2D + 1.5L + 1.0Wi(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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	34	1														
22	1.2D + 1.5L + 1.0Wi(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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	35	1														
25	1.2D + 1.5L + 1.0Wi(2...	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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	36	1														
28	1.2D + 1.5L + 1.0Wi(2...	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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	37	1														
31	1.2D + 1.5L + 1.0Wi(2...	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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	38	1														
34	1.2D + 1.5L + 1.0Wi(3...	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 + 1.0Wi(...)	Yes	Y		3	1.2	27	1	39	1														
37	1.2D + 1.5L + 1.0Wi(3...	Yes	Y		3	1.2	1	1.5	26	1														
38	1.2D + 1.0E(x) + 1.0E...	Yes	Y		3	1.2	40	1	42	1	1	1												
39	1.2D + 1.0E(y) + 1.0E...	Yes	Y		3	1.2	41	1	42	1	1	1												
40	1.2D - 1.0E(x) + 1.0E(...)	Yes	Y		3	1.2	40	-1	42	1	1	1												
41	1.2D - 1.0E(y) + 1.0E(...)	Yes	Y		3	1.2	41	-1	42	1	1	1												

Envelope AISC 14th(360-10): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC Shear ...	Loc[ft] ...	LC	phi*P...	phi*P...	phi*M...	phi*M.....	Eqn				
1	PL7	PL 2.37...	.116	.125	32	.205	0	y	6	38.257	38.475	.401	1.904	...	H1-1b
2	PL4	PL 2.37...	.116	.125	26	.205	0	y	36	38.257	38.475	.401	1.904	...	H1-1b
3	PL8	PL 2.37...	.124	.125	2	.190	0	y	30	38.257	38.475	.401	1.904	...	H1-1b
4	PL6	PL 2.37...	.124	.125	2	.190	0	y	12	38.257	38.475	.401	1.904	...	H1-1b
5	PL9	PL 2.37...	.120	.125	26	.189	0	y	18	38.257	38.475	.401	1.904	...	H1-1b
6	PL5	PL 2.37...	.120	.125	14	.189	0	y	24	38.257	38.475	.401	1.904	...	H1-1b



Company : POD
 Designer : BL
 Job Number : 21-113668
 Model Name : 828540

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 Checked By: _____

Envelope AISC 14th(360-10): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear	...	Loc[ft]	...	LC	phi*P...	phi*P...	phi*M...	phi*M...	Eqn
7	RAIL3	PIPE_2.0	.115	7.5	20	.147	.333		5	15.37	42.228	2.46	2.46	... H1-1b
8	RAIL2	PIPE_2.0	.115	.5	20	.147	7.667		35	15.37	42.228	2.46	2.46	... H1-1b
9	RAIL1	PIPE_2.0	.108	4	2	.124	7.667		23	15.37	42.228	2.46	2.46	... H1-1b
10	PL3	PL 6.5x...	.126	1.75	32	.104	3.026	y	2	3.658	78.975	.617	7.579	... H1-1b
11	PL2	PL 6.5x...	.161	1.75	10	.104	.474	y	2	3.658	78.975	.617	8.346	... H1-1b
12	SO2	HSS4X...	.239	3.333	16	.102	3.333	y	4	133.1...	139.5...	16.181	16.181	... H1-1b
13	PL1	PL 6.5x...	.111	1.75	20	.078	3.5	y	8	3.658	78.975	.617	7.423	... H1-1b
14	MP BETA2	PIPE_2.0	.166	2.167	2	.046	2.167		2	15.37	42.228	2.46	2.46	... H1-1b
15	MP GAMMA2	PIPE_2.0	.166	2.167	2	.046	2.167		2	15.37	42.228	2.46	2.46	... H1-1b
16	SO1	HSS4X...	.180	3.333	27	.044	3.333	z	29	133.1...	139.5...	16.181	16.181	... H1-1b
17	MP ALPHA2	PIPE_2.0	.167	2.167	11	.044	2.167		29	15.37	42.228	2.46	2.46	... H1-1b
18	SO3	HSS4X...	.200	3.333	27	.044	3.333	z	23	133.1...	139.5...	16.181	16.181	... H1-1b
19	MP ALPHA1	PIPE_2.0	.136	2.167	32	.044	2.167		23	15.37	42.228	2.46	2.46	... H1-1b
20	MP ALPHA3	PIPE_2.0	.136	2.167	8	.044	2.167		17	15.37	42.228	2.46	2.46	... H1-1b
21	MP GAMMA3	PIPE_2.0	.136	2.167	2	.042	2.167		5	15.37	42.228	2.46	2.46	... H1-1b
22	MP BETA1	PIPE_2.0	.136	2.167	2	.042	2.167		35	15.37	42.228	2.46	2.46	... H1-1b
23	FACE2	PIPE_3.0	.056	4	2	.038	5.333		5	54.629	85.698	7.555	7.555	... H1-1b
24	FACE3	PIPE_3.0	.053	4	14	.038	2.667		35	54.629	85.698	7.555	7.555	... H1-1b
25	FACE1	PIPE_3.0	.064	4	27	.038	5.333		29	54.629	85.698	7.555	7.555	... H1-1b
26	MP BETA3	PIPE_2.0	.131	2.167	23	.035	2.167		29	15.37	42.228	2.46	2.46	... H1-1b
27	MP GAMMA1	PIPE_2.0	.131	2.167	17	.035	2.167		11	15.37	42.228	2.46	2.46	... H1-1b
28	CR6	C3.38x2...	.214	0	33	.035	2.349	y	21	47.76	56.7	2.203	5.752	... H1-1b
29	CR4	C3.38x2...	.212	0	9	.034	2.349	y	33	47.76	56.7	2.203	5.752	... H1-1b
30	CR3	C3.38x2...	.214	0	9	.033	2.349	y	21	47.76	56.7	2.203	5.752	... H1-1b
31	CR5	C3.38x2...	.211	0	33	.032	2.349	y	9	47.76	56.7	2.203	5.752	... H1-1b
32	CR2	C3.38x2...	.204	0	21	.032	2.349	y	9	47.76	56.7	2.203	5.752	... H1-1b
33	CR1	C3.38x2...	.203	0	21	.031	2.349	y	33	47.76	56.7	2.203	5.752	... H1-1b
34	RAIL CON1	L6.6x4....	.105	3.5	8	.015	0	y	29	50.616	87.561	2.465	7.125	... H2-1
35	RAIL CON2	L6.6x4....	.123	3.5	20	.014	0	y	5	50.616	87.561	2.465	7.125	... H2-1
36	RAIL CON3	L6.6x4....	.123	0	20	.014	3.5	y	35	50.616	87.561	2.465	7.125	... H2-1
37	GRAT SUP3	L2x2x4	.078	0	8	.013	2.275	z	7	29.528	42.48	.96	2.19	... H2-1
38	GRAT SUP4	L2x2x4	.062	0	26	.011	2.275	y	9	29.528	42.48	.96	2.19	... H2-1
39	GRAT SUP5	L2x2x4	.062	0	14	.011	2.275	z	30	29.528	42.48	.96	2.19	... H2-1
40	GRAT SUP	L2x2x4	.068	0	2	.011	0	z	9	29.528	42.48	.96	2.19	... H2-1
41	GRAT SUP2	L2x2x4	.068	0	2	.011	0	y	33	29.528	42.48	.96	2.19	... H2-1
42	GRAT SUP6	L2x2x4	.075	0	32	.011	0	y	9	29.528	42.48	.96	2.19	... H2-1

APPENDIX D
Additional Calculations

POD Job # 21-113668
Site Number 828540
Site Name TORRINGTON/ RT 8

Calculations Based on TIA-222-H

Reactions from RISA-3D

Moment 2.841 ft-kip
 Axial 0.309 kips
 Shear 1.381 kips

Bolt Information

Grade A325
 Threads in Shear Plane Included
 Diameter 0.625 in.
 Bolt Spacing 7 in.
 Number of Rods 4

Flange Plate Information

Width 9 in.
 Thickness 0.625 in.
 Grade A572-50

Standoff Information

Standoff Member HSS
 Flat-Flat 4 in.
 Thickness 0.25 in.

Bolt Calculations

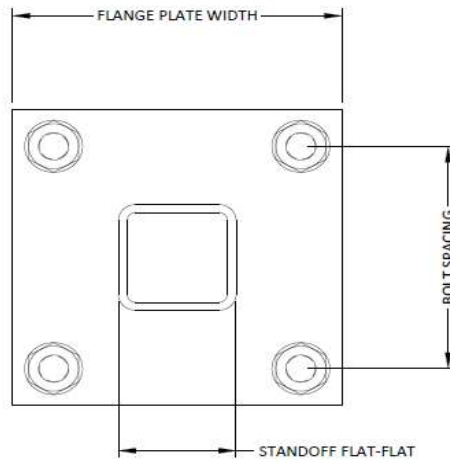
ϕ 0.75
 A_{nt} 0.226 in²
 A_b 0.307 in²
 F_u 120 ksi
 ϕR_{nt} 13.81 kips
 ϕR_{nt} 20.34 kips
 V 0.35 kips
 F 2.51 kips
 Capacity 1.6%

Flange Plate Calculations

ϕ 0.9
 F_y 50 ksi
 t_{min} 0.17 in
 Z 0.9 in³
 ϕM_n 39.6 in-kip
 M_u 7.5 in-kip
 Capacity 19.0%

Capacities

Bolts	1.6%
Flange Plate	19.0%



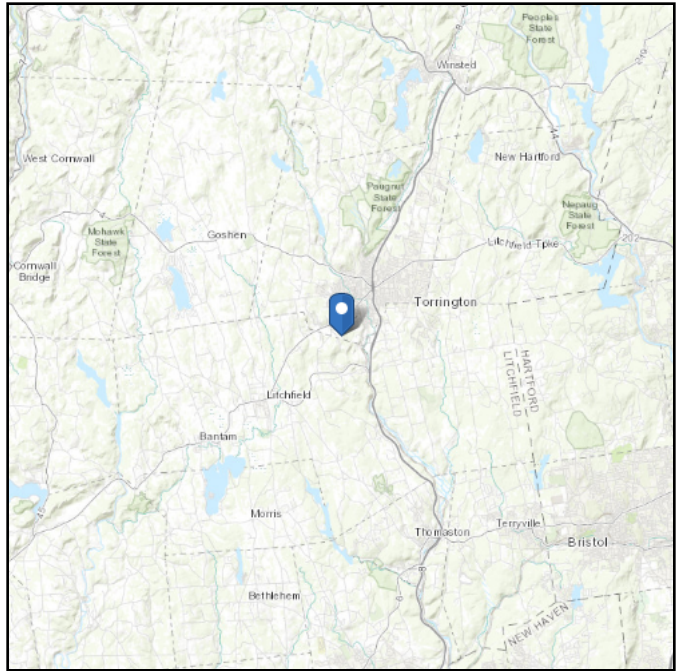
APPENDIX E
Design Criteria

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 1026.6 ft (NAVD 88)
Latitude: 41.780647
Longitude: -73.136117



Wind

Results:

Wind Speed:	116 Vmph
10-year MRI	76 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	96 Vmph

Data 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).

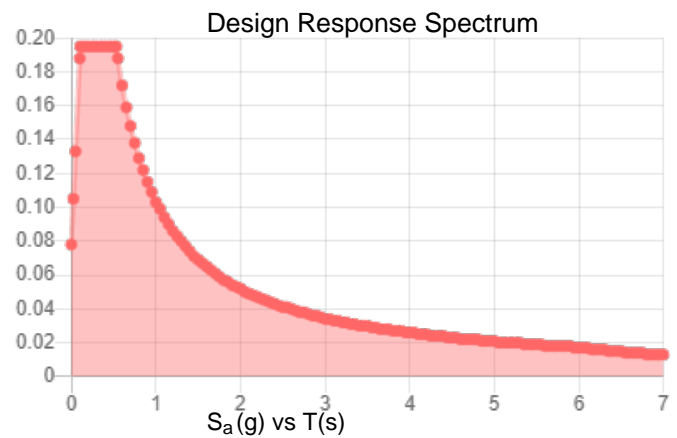
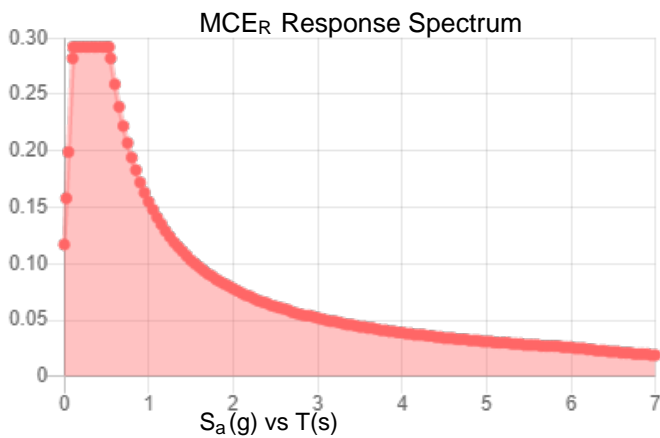
Site is in a hurricane-prone region as defined in ASCE/SEI 7-10 Section 26.2. Glazed openings need not be protected against wind-borne debris.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.183	S_{DS} :	0.195
S_1 :	0.065	S_{D1} :	0.103
F_a :	1.6	T_L :	6
F_v :	2.4	PGA :	0.092
S_{MS} :	0.292	PGA _M :	0.148
S_{M1} :	0.155	F _{PGA} :	1.6
		I_e :	1

Seismic Design Category B



Data Accessed:

Tue Nov 02 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 7-16, Figs. 10-2 through 10-8

Date Accessed: Tue Nov 02 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.

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

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.

APPENDIX F
Mount Specification Sheets

4

3

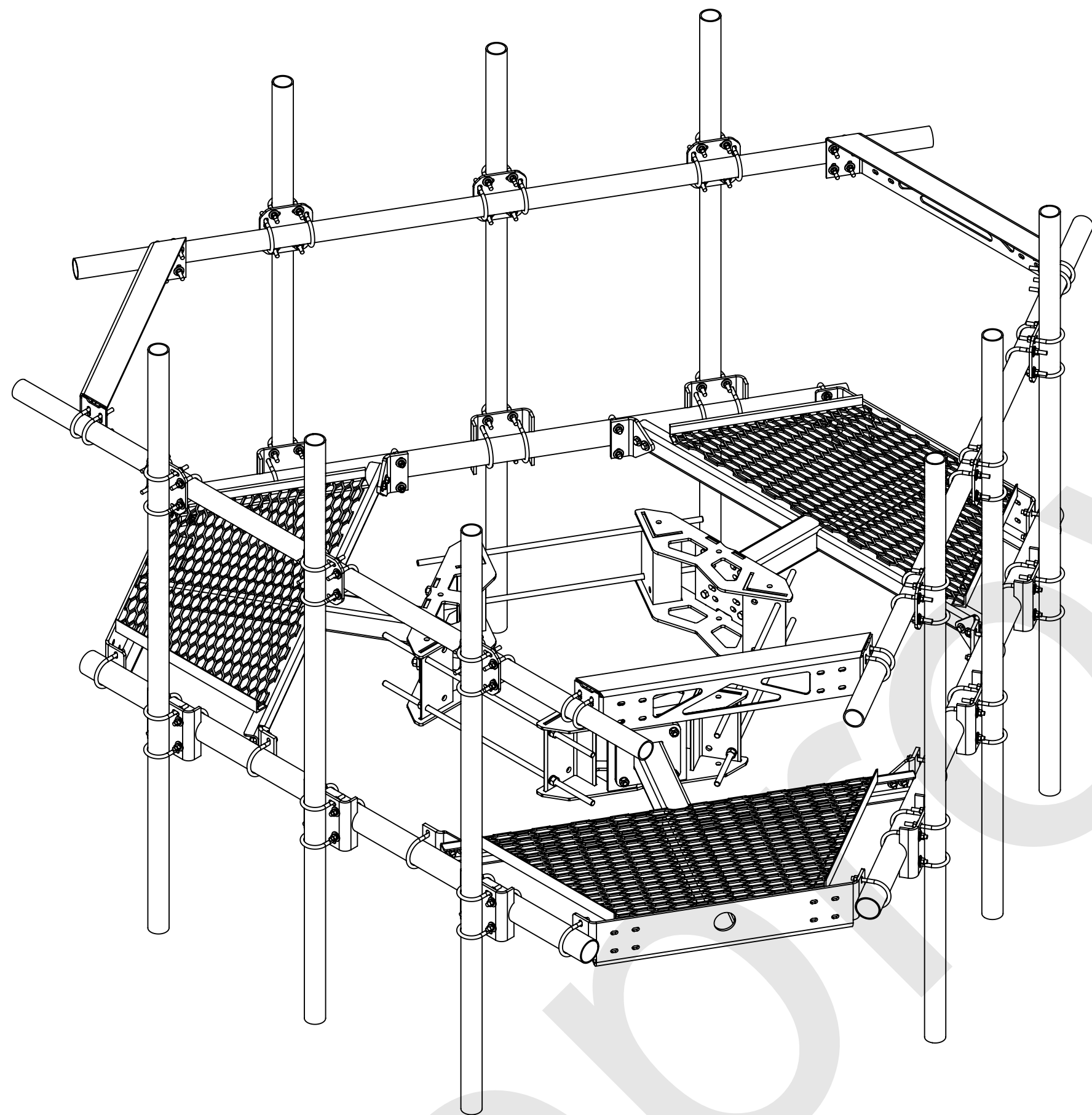
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NOTES:

- 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

COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES		SAP MATERIAL MASTER
1 PLACE .X ± .25	3 PLACE .XXX ± 0.06	MC-PK8-DSH
2 PLACE .XX ± 0.12	ANGLES ± 2°	
FINISH GALV A123		MATERIAL A500, A1011/A1018

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1994	NAME	DATE	TITLE		
	CE MRC	02/17/20	LOW PROFILE PLATFORM FACE		
	RW ROGHANSON	03/16/2021			
	AD BCROSS	03/17/2021			
RE FA1024	02/27/2020				
ECN 10272PC	SCALE 1:32	DOCUMENT NO. MC-PK8-DSH			
SIZE C	Auth Group	INSL	MODEL	DRAWING	SHEET
			VERSION 01	STATUS AD	REVISION
				VERSION 00	STATUS AD
				REVISION A	1 OF 3

DENSITY	lbs/in ³
MASS	lbs
VOLUME	in ³
SURFACE AREA	in ²
HEIGHT	96"
LENGTH	46"
WIDTH	29'

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4

3

2

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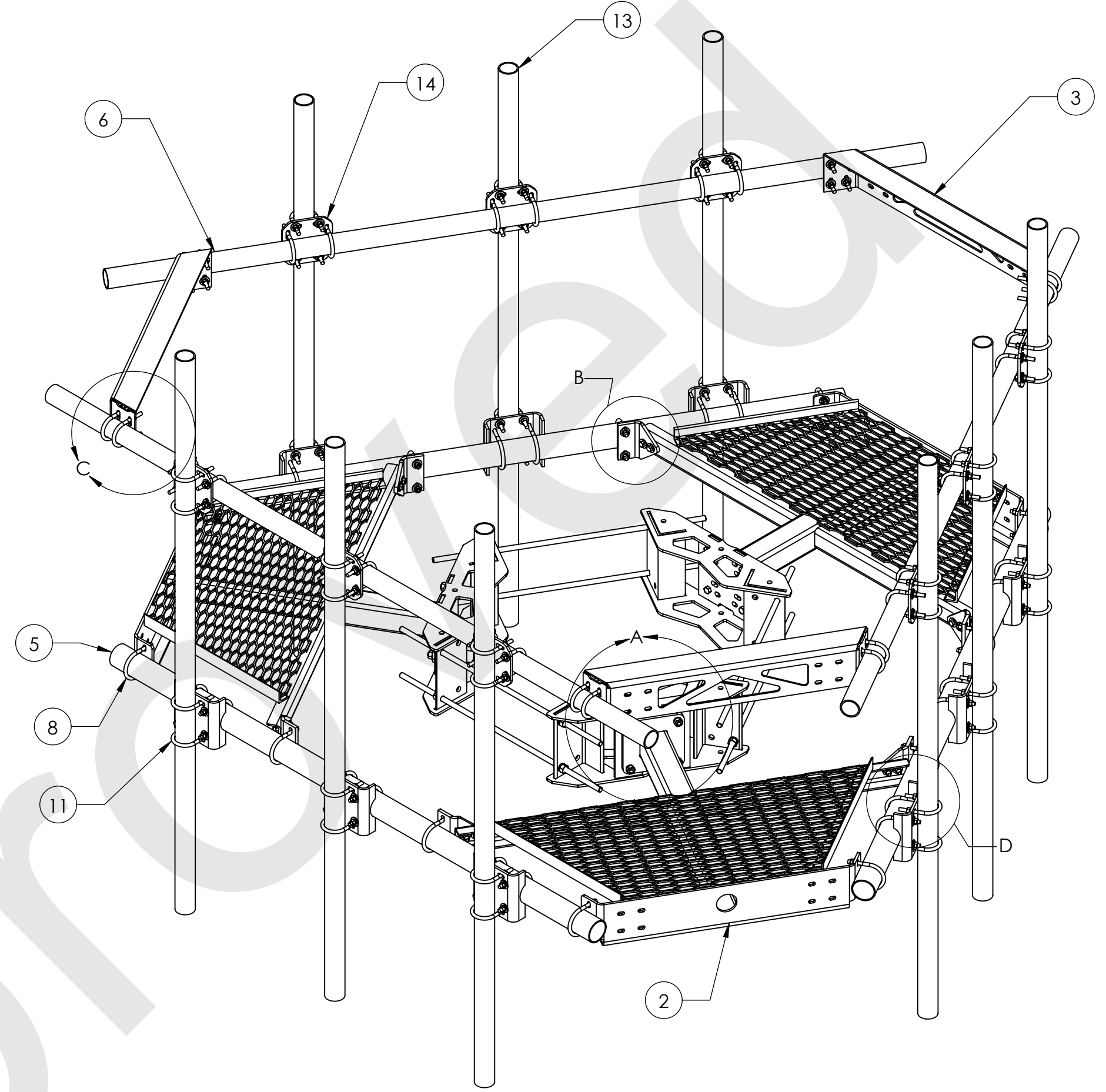
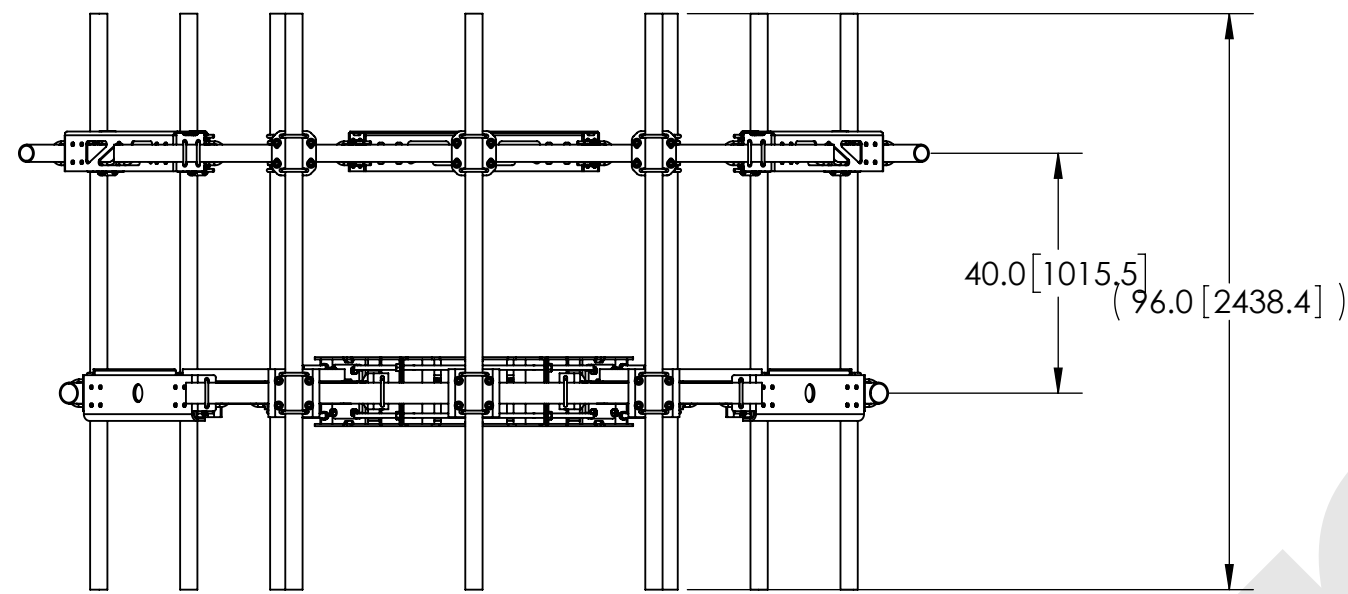
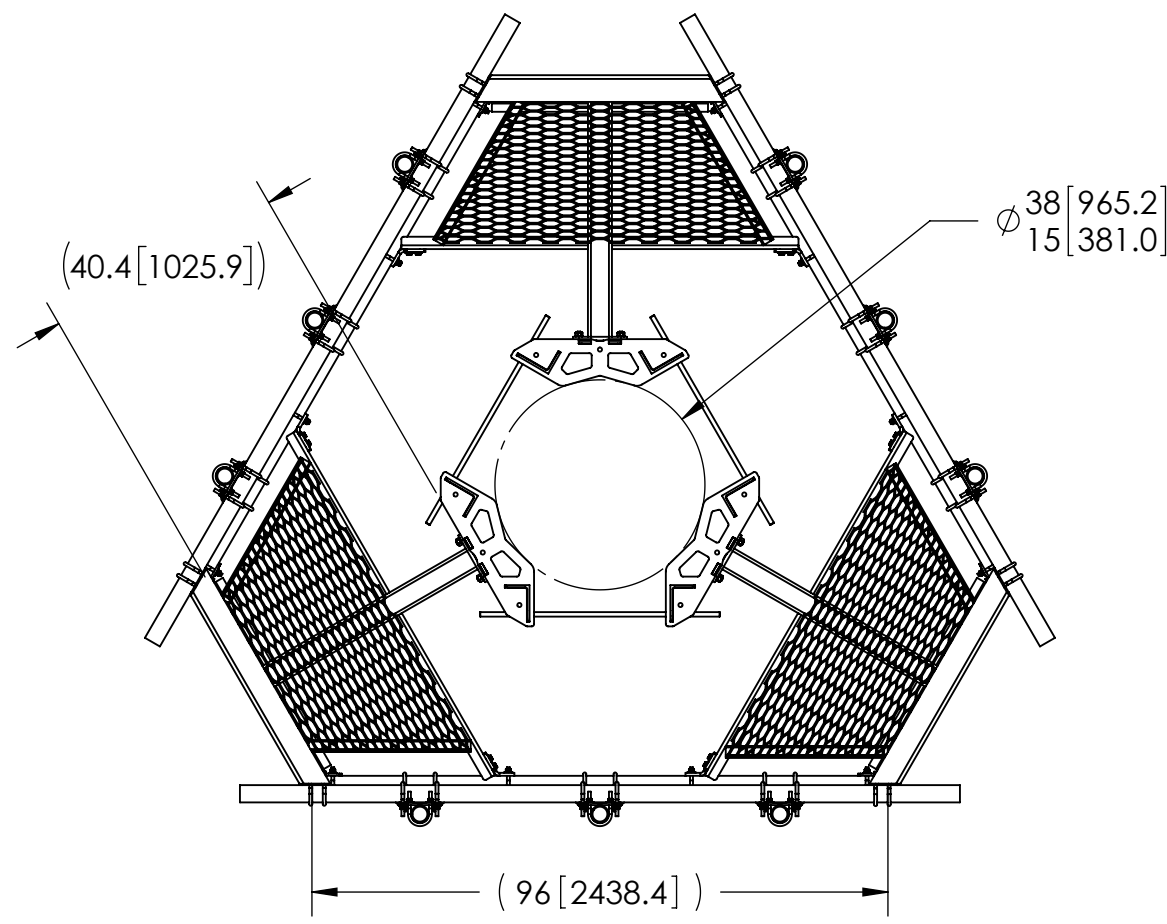
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NOTES:



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	Ø 2.875" 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 C	SCALE 1:32	DOCUMENT NO. MC-PK8-DSH	
DRAWING			SHEET
VERSION 00	STATUS AD	REVISION A	

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4

3

2

1

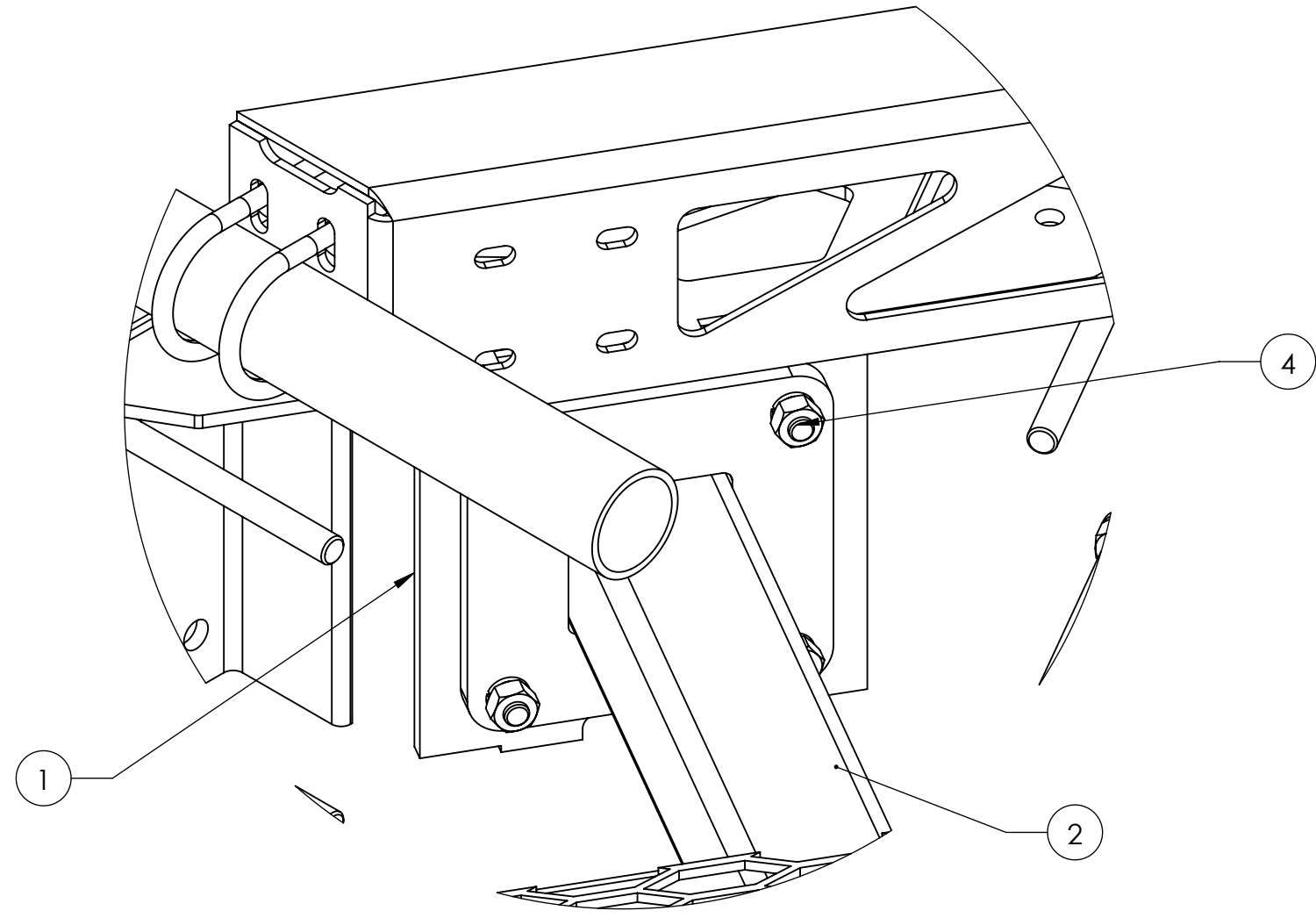
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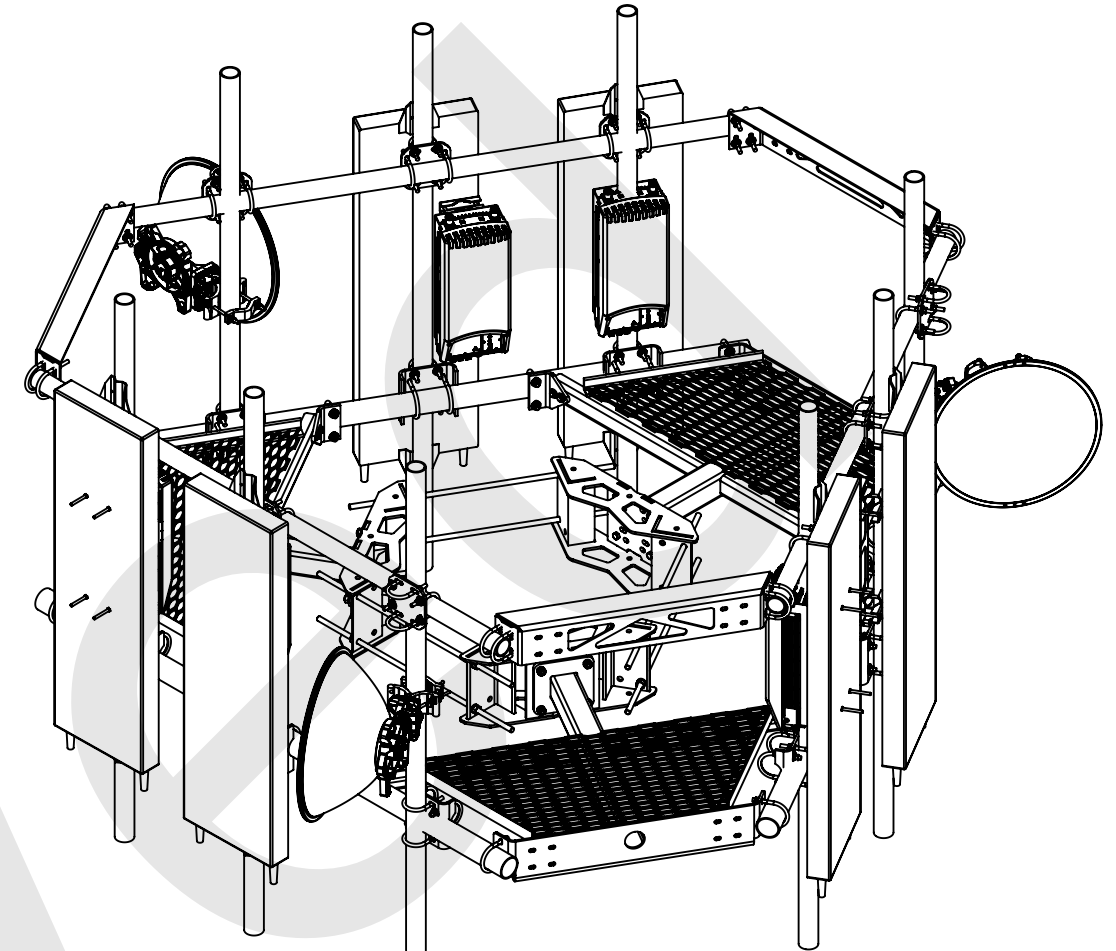
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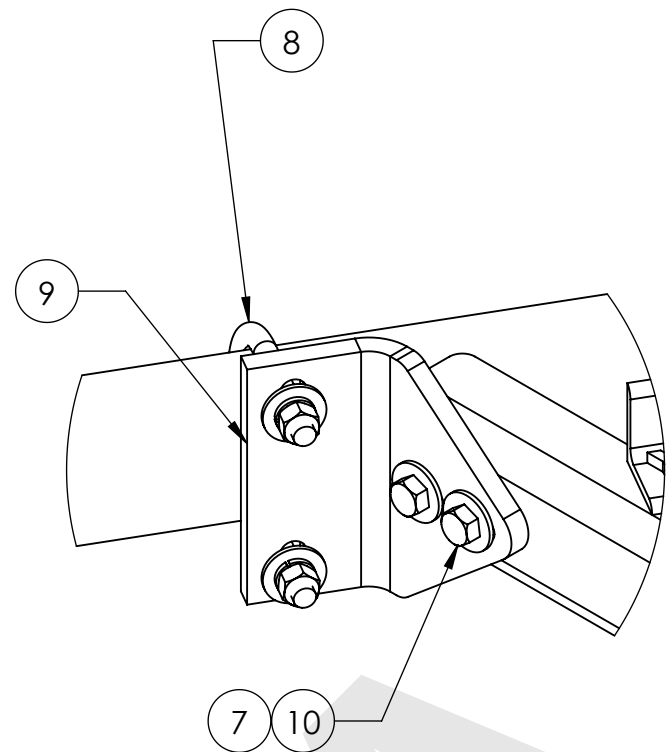
NOTES:



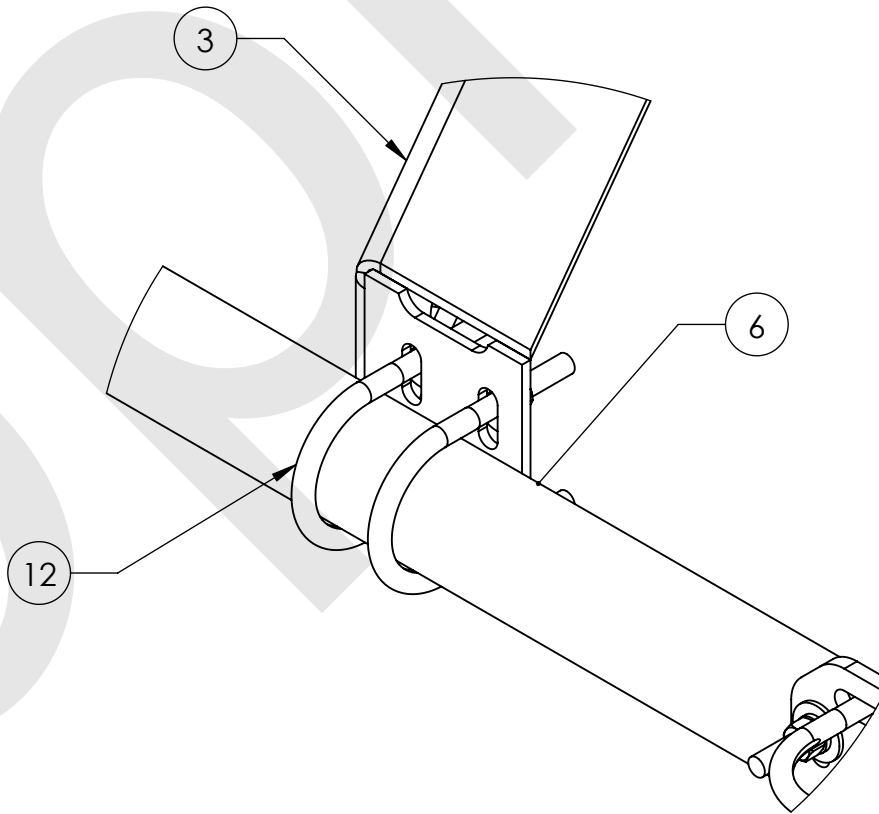
DETAIL A
SCALE 1 : 4



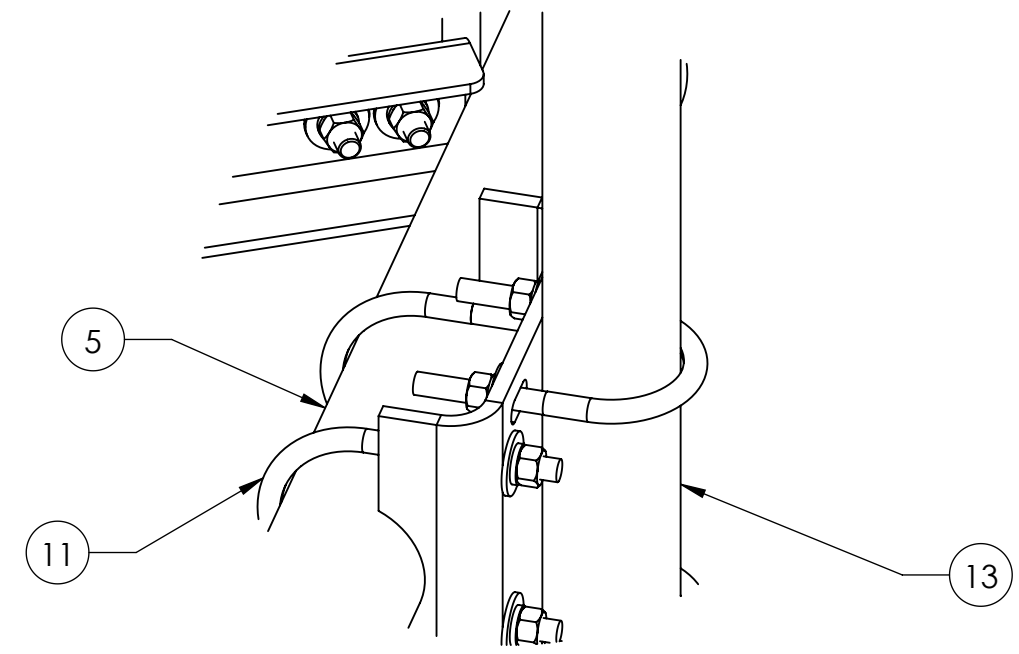
WITH ANTENNAS



DETAIL B
SCALE 1 : 4



DETAIL C
SCALE 1 : 4



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
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DRAWING			SHEET 3 OF 3
VERSION 00	STATUS AD	REVISION A	

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4

3

2

1

D

D

C

C

B

B

A

A

Exhibit F

Power Density/RF Emissions Report

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

Dish Wireless Existing Facility

Site ID: 828540

BOHVN00201A
218 Wheeler Road
Torrington, Connecticut 06790

May 17, 2022

EBI Project Number: 6222003252

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	27.29%

May 17, 2022

Attn: Dish Wireless

Emissions Analysis for Site: 828540 - BOHVN00201A

EBI Consulting was directed to analyze the proposed Dish Wireless facility located at **218 Wheeler Road in Torrington, 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 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ 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 ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is $1000 \mu\text{W}/\text{cm}^2$. 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 218 Wheeler Road in Torrington, 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 120 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:	11.35 dBd / 15.75 dBd	Gain:	11.35 dBd / 15.75 dBd	Gain:	11.35 dBd / 15.75 dBd
Height (AGL):	120 feet	Height (AGL):	120 feet	Height (AGL):	120 feet
Channel Count:	8	Channel Count:	8	Channel Count:	8
Total TX Power (W):	280.00 Watts	Total TX Power (W):	280.00 Watts	Total TX Power (W):	280.00 Watts
ERP (W):	1,424.17	ERP (W):	1,424.17	ERP (W):	1,424.17
Antenna AI MPE %:	0.58%	Antenna BI MPE %:	0.58%	Antenna CI MPE %:	0.58%

Site Composite MPE %	
Carrier	MPE %
Dish Wireless (Max at Sector A):	0.58%
T-Mobile	8.29%
Sprint	2.56%
Metro PCS	0.94%
Verizon	11.65%
AT&T	3.27%
Site Total MPE % :	27.29%

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 % :	27.29%

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 ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
Dish Wireless 600 MHz n71	4	110.82	120.0	1.23	600 MHz n71	400	0.31%
Dish Wireless 1900 MHz n70	4	245.22	120.0	2.71	1900 MHz n70	1000	0.27%
						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:	27.29%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **27.29%** 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:
218 WHEELER ROAD, TORRINGTON, CT 06790

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: 828540/TORRINGTON/RT 8
Customer Site ID: BOHVN00201A/CT-CCI-T-828540
Site Address: 218 Wheeler Road, Torrington, CT 06790

Crown Castle

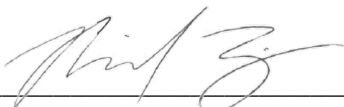

By:  _____ Date: 5/17/2022
Richard Zajac
Site Acquisition Specialist

Exhibit H

Recipient Mailings



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US POSTAGE
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Mailed from 01566 10001000

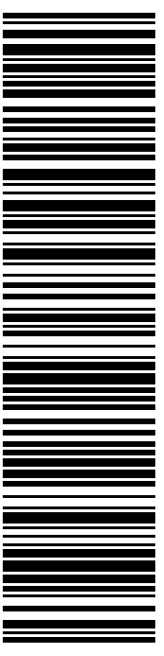
PRIORITY MAIL 2-DAY™

Expected Delivery Date: 05/21/22
 Re#: DS-828540
0006

R013

SHIP TO: RICH ZAJAC
 CROWN CASTLE
 4545 E RIVER RD
 STE 320
 W HENRIETTA NY 14586-9024

USPS TRACKING #



9405 5036 9930 0253 4186 99

Electronic Rate Approved #038555749



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USPS TRACKING # :
9405 5036 9930 0253 4186 99

Trans. #: 563890522	Priority Mail® Postage: \$8.95
Print Date: 05/19/2022	Total: \$8.95
Ship Date: 05/19/2022	
Expected Delivery Date: 05/21/2022	

From: DEBORAH CHASE
 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359


Re#: DS-828540

To: RICH ZAJAC
 CROWN CASTLE
 4545 E RIVER RD
 STE 320
 W HENRIETTA NY 14586-9024

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Mailed from 01566 10001000

PRIORITY MAIL 2-DAY™


DEBORAH CHASE
 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359

Expected Delivery Date: 05/21/22
 Re#: DS-828540
0006

C009

SHIP TO: ELINORE CARBONE
 MAYOR OF TORRINGTON
 140 MAIN ST
 TORRINGTON CT 06790-5201

USPS TRACKING #



9405 5036 9930 0253 4187 05

Electronic Rate Approved #038555749



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Trans. #: 563890522	Priority Mail® Postage: \$8.95
Print Date: 05/19/2022	Total: \$8.95
Ship Date: 05/19/2022	
Expected Delivery Date: 05/21/2022	


From: DEBORAH CHASE Re#: DS-828540
 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359

To: ELINORE CARBONE
 MAYOR OF TORRINGTON
 140 MAIN ST
 TORRINGTON CT 06790-5201

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PRIORITY MAIL 2-DAY™

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 Re#: DS-828540
0006

C009

SHIP TO: JEREMY LEIFERT
 CITY PLANNER
 140 MAIN ST
 RM 324
 TORRINGTON CT 06790-5201

USPS TRACKING #



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5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0253 4187 29

Trans. #: 563890522	Priority Mail® Postage: \$8.95
Print Date: 05/19/2022	Total: \$8.95
Ship Date: 05/19/2022	
Expected Delivery Date: 05/21/2022	

From: DEBORAH CHASE
 NORTHEAST SITE SOLUTIONS
 420 MAIN ST
 STE 1
 STURBRIDGE MA 01566-1359


Re#: DS-828540

To: JEREMY LEIFERT
 CITY PLANNER
 140 MAIN ST
 RM 324
 TORRINGTON CT 06790-5201

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 Flat Rate Envoy

U.S. POSTAGE PAID
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Mailed from 01566 10001000

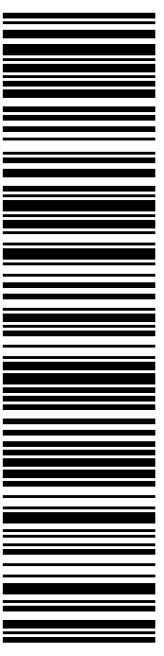
PRIORITY MAIL 2-DAY™

Expected Delivery Date: 05/21/22
 Re#: DS-828540
0006

R001

SHIP TO:
 LUCILLE G LEFEBVRE
 264 CATHOLE RD
 LITCHFIELD CT 06759-3124

USPS TRACKING #



9405 5036 9930 0253 4187 36

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Click-N-Ship® Label Record

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Trans. #:	563890522
Print Date:	05/19/2022
Ship Date:	05/19/2022
Expected Delivery Date:	05/21/2022
Priority Mail® Postage:	\$8.95
Total:	\$8.95
From:	DEBORAH CHASE NORTHEAST SITE SOLUTIONS 420 MAIN ST STE 1 STURBRIDGE MA 01566-1359
To:	LUCILLE G LEFEBVRE 264 CATHOLE RD LITCHFIELD CT 06759-3124
	Re#: DS-828540
* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.	



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